

CURRICULUM VITAE
LEONARD B. BACHARIER, M.D.

DATE: March 13, 2024

PERSONAL DATA, ADDRESSES AND TELEPHONE NUMBERS:

Office: Monroe Carell Jr. Children's Hospital at Vanderbilt
2200 Children's Way
11205 Doctor's Office Tower
Nashville, TN 37232
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EDUCATION:

College: The Johns Hopkins University (Baltimore, MD), B.A., 1988 (Biophysics - General and Department Honors)

Professional: Washington University School of Medicine (St. Louis, MO), M.D., 1992

Postgraduate Training:

1992-95 Internship and Residency in Pediatrics, St. Louis Children's Hospital, St. Louis, MO
1995-98 Fellowship in Pediatric Allergy and Immunology, Children's Hospital, Boston, and Harvard Medical School, Boston, MA

LICENSURE AND CERTIFICATION:

Full licensure, State of Tennessee, 2020-present (61834)
Full licensure, State of Missouri, 1998-2021 (MD 101013)
Diplomate, American Board of Allergy and Immunology, August 1997, Recertified 2006
Diplomate, American Board of Pediatrics, October 1996, Recertified 2002
Diplomate, National Board of Medical Examiners, July 1993

ACADEMIC APPOINTMENTS:

7/92 - 6/95 Assistant in Pediatrics, Washington University School of Medicine, St. Louis, MO
7/95 - 6/98 Clinical Fellow in Pediatrics, Harvard Medical School, Boston, MA
7/98 - 12/00 Instructor in Pediatrics and Medicine, Washington University School of Medicine, St. Louis, MO
1/01 - 8/05 Assistant Professor of Pediatrics, Washington University School of Medicine, St. Louis, MO

9/05 - 6/11	Associate Professor of Pediatrics, Washington University School of Medicine, St. Louis, MO
10/06 – 7/20	Clinical Director, Division of Allergy, Immunology, and Pulmonary Medicine, Department of Pediatrics, Washington University School of Medicine, St. Louis, MO
7/11 – 7/20	Professor of Pediatrics and Medicine, Washington University School of Medicine, St. Louis, MO
8/13 – 7/20	Unit Co-Leader, Patient Oriented Research Unit, Department of Pediatrics, Washington University School of Medicine, St. Louis, MO
6/15 – 7/16	Harvey R. Colten, MD Scholar in Pediatrics, Washington University School of Medicine, St. Louis, MO
7/16 – 7/17	Donald Strominger Professor of Pediatrics, Washington University School of Medicine, St. Louis, MO
7/17 – 7/20	Robert C. Strunk Endowed Chair for Lung and Respiratory Research, Washington University School of Medicine, St. Louis, MO
8/20 – present	Professor of Pediatrics, Vanderbilt University Medical Center, Nashville, TN
8/20 – present	Scientific Director, Center for Clinical and Translational Research, Vanderbilt University Medical Center, Nashville, TN
8/20 – present	Director, Center for Pediatric Asthma Research, Vanderbilt University Medical Center, Nashville, TN
8/20 – present	Section Chief, Pediatric Allergy and Immunology, Department of Pediatrics, Vanderbilt University Medical Center, Nashville, TN
6/21 – present	Janie Robinson and John Moore Lee Chair in Pediatrics, Vanderbilt University Medical Center, Nashville, TN

HOSPITAL APPOINTMENTS:

7/98 – 7/20	Attending physician, St. Louis Children's Hospital
8/20 – present	Attending physician, Monroe Carell Jr. Children's Hospital at Vanderbilt

PROFESSIONAL ACTIVITIES:

INTRAMURAL:

7/92-6/95	Housestaff Education Committee, St. Louis Children's Hospital, St. Louis, MO
7/98-7/20	Asthma Education Committee, St. Louis Children's Hospital, St. Louis, MO
7/98-7/20	Pediatric Residency Applicant Review Committee, St. Louis Children's Hospital, St. Louis, MO
6/99-2007	Curriculum Education Committee II, Washington University School of Medicine, St. Louis, MO
6/99-2007	Coursemaster, Introduction to Clinical Medicine – Pediatrics, 2 nd Year Class, Washington University School of Medicine, St. Louis, MO
6/00-2002	Module Director, Scientific Foundations of Translational Research – Asthma, Masters of Science in Clinical Investigation Program, Washington University School of Medicine, St. Louis, MO
7/02-7/20	Member, General Clinical Research Center Advisory Committee, Washington University School of Medicine, St. Louis, MO
10/03-5/13	Member, Human Studies Committee/Institutional Review Board, Washington University School of Medicine, St. Louis, MO

- 6/05-6/06 Member, Jerome and Carol Loeb Teaching Fellows Selection Committee, Washington University School of Medicine, St. Louis, MO
- 3/06-9/06 LCME Self-Study Institutional Setting & Governance Committee, Washington University School of Medicine, St. Louis, MO
- 3/08-5/13 Vice Chair, Human Studies Committee/Institutional Review Board New Protocol Committee 03A, Washington University School of Medicine, St. Louis, MO
- 5/09-5/13 Member, Disclosure Review Committee, Washington University School of Medicine, St. Louis, MO
- 1/09 –12/14 Chair, Pediatric Residency Program Ranking Committee (Midwest Applicants), Washington University School of Medicine and St. Louis Children's Hospital, St. Louis, MO
- 8/16 – 7/20 Chair, Institutional Conflict of Interest Review Committee (Member 8/16-7/17)
- 7/21 – present Member, Department of Pediatrics Faculty Appointments and Promotions Committee, Vanderbilt University Medical Center, Nashville TN

EXTRAMURAL:

STUDY SECTIONS:

- 4/09 – 12/09 American Institute of Biological Sciences (AIBS), US Army Medical Research and Materiel Command (USAMRMC) Peer Reviewed Medical Research Program.
- 2/12 – 6/17 National Institutes of Health - Infectious Diseases, Reproductive Health, Asthma and Pulmonary Conditions (IRAP) Study Section (ad hoc member 2/12-5/13, permanent member 6/13-6/17).
- 2/13 – present American Lung Association Peer Review Committee
- 11/16 National Institutes of Health - Consortium for Food Allergy Research: Leadership Center (UM2) and Consortium for Food Allergy Research: Clinical Research Units (UM1)
- 3/18 National Institutes of Health - NIAID Clinical Trial Planning Grant (R34) and Implementation Cooperative Agreement (U01) Special Emphasis Panel (ZAI1 LAR-I (M1)
- 7/18 National Institutes of Health – NHLBI Secondary Analyses of Existing Datasets in Heart, Lung, and Blood Diseases and Sleep Disorders (R21) Special Emphasis Panel (ZRG1 PSE-A (55) R)
- 2/19 National Institutes of Health - Member Conflict: Epidemiology Special Emphasis Panel (ZRG1 PSE-K (02) M)
- 12/19 National Institutes of Health, NIAID - Atopic Dermatitis Research Network – Clinical Research Centers (ZAI1 LAR-I (J2))
- 10/20 National Institutes of Health/Department of Veterans Affairs - COVID-19 Clinical Trial Accelerated Review (ZRD1 CSDR-Y (01))
- 2/23 - present Scientific Grant Review Committee, American Thoracic Society

FEDERAL COMMITTEES:

- 6/22 – 6/26 Member, FDA Pulmonary-Allergy Drugs Advisory Committee

PRIVATE ORGANIZATIONS AND PROFESSIONAL SOCIETIES:

- 2023 – present Member, Collegium International Allergologicum (CIA)

- 2016 – present Member, Science Committee, Global Initiative for Asthma (GINA)
- 2015 – present Elected Member, American Pediatric Society
- 2015 – present American Board of Allergy and Immunology
Director, 2015 – 2021
Vice Chair, 2019
Chair, 2020
Emeritus Director, 2022-2023
Liaison to ABMS Continuing Certification Committee (3C), 2022-2023
- 1995 – present American Academy of Allergy, Asthma and Immunology
Fellow, American Academy of Allergy, Asthma and Immunology
Annual Meeting Planning Committee
Vice Chair, 2018 – 2020
Chair, 2020 – 2022
Board of Directors, 2020 – present
Chair, Education Division, 2021 – 2022
Chair, Research and Training Division – 2023-2024
Chair, Practice, Diagnostics and Therapeutics Committee, March 2017- March 2020
Chair, Asthma Diagnosis and Treatment Interest Section, March 2017-March 2018
Vice Chair, Asthma Diagnosis and Treatment Interest Section, February 2015-March 2017
Secretary, Asthma Diagnosis and Treatment Interest Section, February 2013-February 2015
Chair, Workforce Committee, February 2014-December 2014
Chair, Workshops Committee for the Annual Meeting Planning Committee, March 2006-March 2010
Annual Meeting Planning Committee Executive Committee, March 2008-March 2010
Chair and Founding Member, New Allergist/Immunologist Committee, March 2002-March 2003
Chair, Pharmacotherapeutics Committee, March 2004-March 2005
Vice-Chair, Workforce Committee, March 2004-2013
- 2012 – present American College of Allergy, Asthma and Immunology
Fellow, American College of Allergy, Asthma and Immunology, 2012-present
- 2002 – present American Thoracic Society – Member, Pediatric Programming Committee
- 2006 – present Cystic Fibrosis Foundation – Member, Data Safety Monitoring Board

EDITORIAL APPOINTMENTS:

- Associate Editor, The Journal of Allergy and Clinical Immunology – 2015 - Present
- Editor, *Middleton's Allergy Principles and Practice*, 9th Edition – 2017 – 2020; 10th edition 2022 - Present
- Editor, *Pediatric Allergy*, 4th Edition – 2018 - Present
- Section Editor, Current Opinions in Allergy and Clinical Immunology, Pediatric Allergy and Asthma, 2006-2019
- Associate Editor, Asthma Research and Practice – 2014-present
- Guest Editor, Immunology and Allergy Clinics of North America, Issue on Pediatric Asthma, 2017-2019
- Editorial Board, The Journal of Allergy and Clinical Immunology – 2010-2015
- Editorial Board, The Journal of Allergy and Clinical Immunology: In Practice – 2012-2017
- Faculty Member, Faculty of 1000 Medicine – 2010-present

Guest Editor, Immunology and Allergy Clinics of North America, Issue on Asthma Triggers, 2004-2005
(Published February 2005; Volume 25, Number 1)

Reviewer Board, The Journal of Allergy and Clinical Immunology, 2006-2010

AD HOC REVIEWING:

Reviewer, Allergy and Asthma Proceedings, 2012-present

Reviewer, Pediatric Asthma, Allergy and Immunology, 2010-present

Reviewer, Pediatric Pulmonology, 2010-present

Reviewer, British Medical Journal, 2009-present

Reviewer, The Journal of Allergy, 2009-present

Reviewer, The New England Journal of Medicine, 2008-present

Reviewer, Thorax, 2008-present

Reviewer, Canadian Medical Association Journal, 2008-present

Reviewer, Psychosomatic Medicine, 2008-present

Reviewer, Archives of Pediatrics and Adolescent Medicine, 2007-present

Reviewer, Annals of Emergency Medicine, 2007-present

Reviewer, Respiratory Medicine, 2005-present

Reviewer, American Journal of Respiratory and Critical Care Medicine, 2005-present

Reviewer, Journal of the American Medical Association, 2005-present

Reviewer, Journal of Clinical Outcomes Management, 2005-present

Reviewer, Pediatrics, 2004-present

Reviewer, Journal of Pediatrics, 2004-present

Reviewer, Archives of Diseases in Childhood, 2004-present

Reviewer, Allergy and Asthma Proceedings, 2003-present

Reviewer, Annals of Allergy Asthma and Immunology, 2002-present

Reviewer, The Journal of Allergy and Clinical Immunology, 2000-present

Reviewer, American Journal of Respiratory Cell and Molecular Biology, 1999

Reviewer, International Archives of Allergy and Immunology, 1998

HONORS AND AWARDS:

AAAAI Foundation and Dr William and Judith H Busse Lectureship and Plenary Session, American Academy of Allergy, Asthma and Immunology Annual Meeting, Atlanta, GA, March 4, 2017.

The Richard Cushing Memorial Lecture, ALA of Minnesota, Minneapolis, MN, May 5, 2015.

Lester Mittelstaedt Lecture at the American College of Allergy, Asthma and Immunology Annual Scientific Meeting, Baltimore, MD, November 9, 2013.

Alpha Omega Alpha, Washington University School of Medicine, St. Louis, MO, 2013

2005 Samuel R. Goldstein Leadership Award in Medical Student Education, Washington University School of Medicine, St. Louis, MO

National Institutes of Health Pediatric Research Loan Repayment Award (2002-4, renewal 2004-6)

AAAAI Travel Grant, 1997 and 1998

ACAAI Travel Grant, 1996

The Distinguished Residents and Fellows Asthma Education Program, London, England, September 1996

Washington University Student Research Fellowship, Summer 1989

TEACHING ACTIVITIES:

MEDICAL SCHOOL COURSES:

6/99-6/07 Coursemaster – Introduction to Clinical Medicine - Pediatrics (Washington University School of Medicine)

Including annual lectures entitled:

“Introduction to Pediatric Clinical Medicine”

“The Pediatric History and Physical Exam”

“Evaluation of the Child with Recurrent Wheezing – Is it asthma?”

CONTINUING MEDICAL EDUCATION (ALL LECTURES):

“Severe Asthma & The Role of ICS/Reliever in Childhood Asthma.” Allergy/Immunology Grand Rounds (Virtual), University of Rochester, Rochester, NY, October 12, 2023.

“Childhood Asthma Management in 2023 – New Guidelines, New Therapies, and Recent Advances.” Pediatric Grand Rounds (Virtual), NYU Langone School of Medicine, New York, October 3, 2023.

“Biologics and Severe Asthma in Children.” XXVI World Congress on Asthma, Vancouver, BC, July 9, 2023.

“Biomarkers and Biologics in Childhood Asthma.” Eastern Allergy Conference, West Palm Beach, FL, June 3, 2023.

“Severe Asthma and Biologics in Children.” XVIII Chilean Congress of Pediatric Pulmonology, Santiago, Chile, May 6, 2023.

“Preschool Wheezing.” XVIII Chilean Congress of Pediatric Pulmonology, Santiago, Chile, May 6, 2023.

“Asthma in 2023.” Pediatric Allergy in a Nutshell CME Program, Nashville, TN, April 28, 2023.

“Biologics in the Management of Childhood Asthma.” Allergy, Asthma and Immunology Society of South Carolina Annual Meeting, Charleston, SC, March 4, 2023.

“JACI: Year in Review – Biologics in Allergy & Immunology” American Academy of Allergy, Asthma and Immunology Annual Meeting, San Antonio, TX, February 25, 2023.

“Combination ICS/Formoterol as Reliever Therapy – NAEPP vs. GINA.” New England Society of Allergy Annual Meeting, Portsmouth, NH, October 22, 2022.

“Biologics Medications in Childhood Asthma – What’s New?” New England Society of Allergy Annual Meeting, Portsmouth, NH, October 22, 2022.

“Phenotype-Based Approach for the Management of Asthma Among Preschool Children.” Sociedad Chilena de Neumología Pediátrica (Virtual), October 18, 2022.

“Childhood Asthma Management in 2022 – New Guidelines, New Therapies, and Recent Advances.” Pediatric Grand Rounds, University of Pittsburgh Medical Center, Pittsburgh, PA, May 5, 2022.

“Phenotype-Based Approach for the Management of Asthma Among Preschool Children.” Allergy and Immunology Conference (Virtual), Johns Hopkins School of Medicine, Baltimore, MD, April 2, 2022.

“Focused Update to the National Asthma Education and Prevention Program Guidelines.” Cumberland Pediatric Foundation CME Series, Nashville, TN, March 24, 2022.

“Phenotype-Based Approach for the Management of Asthma Among Preschool Children.” Pediatric Grand Rounds (Virtual), Maria Fareri Children’s Hospital, New York Medical College, Valhalla, NY, March 23, 2022.

“Overview of Severe Asthma Management in Pediatrics.” The Middle East Pediatric Pulmonology Summit (Virtual), Dubai, UAE, March 20, 2022.

“Management and Prevention of Virally Triggered Asthma Exacerbations.” American Academy of Allergy, Asthma and Immunology Annual Meeting, Phoenix, AZ, February 28, 2022.

“Biologic Medications in Childhood Asthma.” Celebration of Pediatric Pulmonology and Sleep, Scottsdale, AZ, February 19, 2022.

“Allergen Immunotherapy in the Management of Childhood Asthma.” Celebration of Pediatric Pulmonology and Sleep, Scottsdale, AZ, February 18, 2022

“The Long-Term Consequences of Childhood Asthma.” Western Society of Allergy Asthma and Immunology Annual Meeting, Maui, HI, February 7, 2022.

“Phenotype-Based Approach for the Management of Asthma Among Preschool Children.” Western Society of Allergy Asthma and Immunology Annual Meeting, Maui, HI, February 7, 2022.

“Combination ICS/formoterol as reliever therapy in mild (“intermittent”) asthma.” American College of Allergy, Asthma and Immunology Annual Meeting, New Orleans, LA, November 7, 2021.

“Which Biologic to Choose for My Patient?” Chilean Pediatric Pulmonology Congress, Santiago, Chile (Virtual), October 19, 2021.

“FeNO in the Clinic.” Allergy Conference, Vanderbilt University Medical Center, Nashville, TN, October 15, 2021.

“Asthma in the Yellow Zone – Management and Medication.” Advances in Allergy & Asthma Webinar, Allergy and Asthma Network, September 23, 2021.

“Update on Treatment Approaches for Pediatric Asthma 2021.” Pediatric Grand Rounds, Helen DeVos Children’s Hospital, Grand Rapids, MI (Virtual), September 14, 2021.

“What’s New in Childhood Asthma?” Allergy, Asthma and Immunology Foundation of Northern California Annual Meeting, San Francisco, CA, September 11, 2021.

“Evaluation of Severe Asthma.” COLA Conferences Online, Kansas City, KS, September 10, 2021.

“Update on Treatment Approaches for Pediatric Asthma 2021.” Florida Allergy Asthma and Immunology Society Annual Meeting, Orlando, FL, July 17, 2021.

“COVID-19 and its impact on asthma and allergic disorders.” Florida Allergy Asthma and Immunology Society Annual Meeting, Orlando, FL, July 18, 2021.

“Which Biologic is Right for My Patient?” American Thoracic Society International Conference (Virtual) – May 19, 2021.

“Dupilumab Efficacy and Safety in Children with Uncontrolled Moderate-to-Severe Asthma.” BREAKING NEWS: CLINICAL TRIAL RESULTS IN PULMONARY MEDICINE at American Thoracic Society International Conference (Virtual), May 17, 2021.

“Management Strategies Before Biologics and When to Consider Biologics.” American Academy of Allergy, Asthma and Immunology Annual Meeting (Virtual), March 1, 2021.

“Phenotype-Based Approach for the Management of Asthma Among Preschool Children.” American Academy of Allergy, Asthma and Immunology Annual Meeting (Virtual), February 26, 2021.

“Childhood Asthma Management in 2021 – Recent Advances and New Guidelines.” Pediatric Grand Rounds, Monroe Carell Jr Children’s Hospital at Vanderbilt, January 19, 2021.

“Update on Treatment Approaches for Pediatric Asthma 2020.” Pediatric Grand Rounds, Texas Children’s Hospital, Baylor College of Medicine, December 18, 2020 (Virtual).

“Biomarker Interpretations and How This Would Aid in Treatment Choice and Prognosis Prediction.” American College of Allergy, Asthma and Immunology Annual Scientific Meeting, November 14, 2020 (Virtual)

“The Future Is Bright: Hopeful Options for Asthma.” American College of Allergy, Asthma and Immunology Annual Scientific Meeting, November 14, 2020 (Virtual)

“GINA Versus NHLBI Asthma Guidelines: What are they both missing?” American College of Allergy, Asthma and Immunology Annual Scientific Meeting, November 15, 2020 (Virtual)

“Combination ICS/LABA Inhaler as Reliever Therapy: FDA vs New Guidelines”. Eastern Allergy Conference, West Palm Beach, FL, August 16, 2020

“Assessing the Unmet Need for Current and Future Biologics in Pediatric Asthma Management”. Eastern Allergy Conference, West Palm Beach, FL, August 16, 2020

“Exacerbation Prevention: What Works and What Doesn't?” American Academy of Allergy, Asthma and Immunology Annual Meeting, Virtual, June 2020.

“Reconciling differences in asthma guidelines” European Academy of Allergy and Clinical Immunology Annual Meeting, Virtual, June 8, 2020.

“Asthma exacerbations – why are they so difficult to prevent?” Vanderbilt Pediatric Research Conference, Nashville, TN, December 16, 2019.

“Current (and Future) Biologics in Pediatric Asthma.” American College of Allergy, Asthma and Immunology Annual Scientific Meeting, Houston, TX, November 10, 2019.

“Treatment of asthma exacerbations in early life – the role of steroids and antibiotics.” Allergy Grand Rounds, Winthrop Hospital/New York University, Mineola, NY, November 1, 2019.

“Severe preschool wheeze – when and how to treat.” European Respiratory Society International Conference, Madrid, Spain, September 28, 2019.

“Severe asthma in children and adult – similarities and differences.” Boston City Wide Allergy Conference, Massachusetts General Hospital, Boston, September 10, 2019.

“Update on treatment approaches for pediatric asthma 2019.” Long Island Allergy and Asthma Society, Montauk, NY, July 7, 2019.

“Severe asthma in children.” Long Island Allergy and Asthma Society, Montauk, NY, July 7, 2019.

“Update on treatment approaches for pediatric asthma 2019.” Texas Allergy, Asthma and Immunology Society, Austin, TX, April 6, 2019.

“Asthma development in early life: Urban Environment and Childhood Asthma (URECA).” American Academy of Allergy, Asthma and Immunology Annual Meeting, San Francisco, CA, February 25, 2019.

“Evaluation of the pediatric patient with severe asthma.” American Academy of Allergy, Asthma and Immunology Annual Meeting, San Francisco, CA, February 24, 2019.

“Antibiotics are effective therapy for the management of acute episodic wheeze in preschool children – PRO.” American Academy of Allergy, Asthma and Immunology Annual Meeting, San Francisco, CA, February 23, 2019.

“Severe asthma in pediatrics.” Allergy Grand Rounds, University of Washington, Seattle WA, February 19, 2019.

“Treatment of acute preschool wheeze – The role of steroids and antibiotics.” Danish Society for Pediatric Allergy and Pulmonology, Kolding, Denmark, January 19, 2019.

“Network studies: Pulling it all together for Adults and Kids.” Presidential Plenary Session, American College of Allergy, Asthma and Immunology Annual Scientific Meeting, Seattle, WA, November 17, 2018.

“PBL: An inner city child with uncontrolled asthma – learning to care for the underserved child & lost opportunities.” American College of Allergy, Asthma and Immunology Annual Scientific Meeting, Seattle, WA, November 17, 2018.

“Severe asthma in children.” Clinical Allergy for the Practicing Physician, St. Louis, MO, August 17, 2018.

“A 10 month old boy with moderately severe eczema (Problem Based Learning).” Eastern Allergy Conference, West Palm Beach, FL, June 2, 2018.

“Asthma phenotypes and implications for treatment in children.” Eastern Allergy Conference, West Palm Beach, FL, June 1, 2018.

“An 18 year old with frequent asthma exacerbations (Problem Based Learning).” Eastern Allergy Conference, West Palm Beach, FL, June 1, 2018.

“FeNO is useful in most patients with asthma (Pro/Con Debate).” Eastern Allergy Conference, West Palm Beach, FL, June 1, 2018.

“What phenotypes in childhood asthma emerge in association with disease severity?” American Thoracic Society International Conference, San Diego, CA, May 19, 2018.

“Therapeutics in pediatric severe asthma: Which biologic is right for my patient?” American Thoracic Society International Conference, San Diego, CA, May 19, 2018.

“Management of preschool recurrent wheezing and asthma: a phenotype-based approach.” Pediatric Grand Rounds, Shands Hospital, University of Florida, Gainesville, FL, April 12, 2018.

“Evaluation of the pediatric patient with severe asthma.” American Academy of Allergy, Asthma and Immunology Annual Meeting, Orlando, FL, March 3, 2018.

“How do childhood asthma phenotypes and disease severity develop?” American Academy of Allergy, Asthma and Immunology Annual Meeting, Orlando, FL, March 2, 2018.

“Management of preschool recurrent wheezing and asthma: a phenotype-based approach.” Western Society of Allergy, Asthma & Immunology, Maui, HI, January 22, 2018.

“Episodic vs continuous use of inhaled steroids in preschool wheezing children.” Western Society of Allergy, Asthma & Immunology, Maui, HI, January 24, 2018.

“Managing uncontrolled allergic asthma in children – targeting treatment by phenotype.” Infectious Diseases in Children Symposium, New York, NY, November 19, 2017

“Asthma in preschool children – new therapeutic approaches.” Pulmonary Research Conference, Boston Children’s Hospital, Boston, MA, October 30, 2017.

“Managing severe asthma in adults and children – focus on biologics and phenotype-directed approaches.” American College of Allergy, Asthma and Immunology Annual Scientific Meeting, Boston, MA, October 28, 2017.

“What determines the inception of childhood asthma?” American College of Allergy, Asthma and Immunology Annual Scientific Meeting, Boston, MA, October 27, 2017.

“Microbes and the role of antibiotic treatment for wheezy lower respiratory tract illness in preschool children.” XLIV Congresso Brasileiro de Alergi e Imunologia, Belo Horizonte, Brazil, October 21, 2017.

“Management of preschool recurrent wheezing and asthma: a phenotype-based approach.” XLIV Congresso Brasileiro de Alergi e Imunologia, Belo Horizonte, Brazil, October 22, 2017.

“Asthma in Preschool Children – New Therapeutic Approaches.” Northwestern Feinberg School of Medicine Allergy-Immunology Research Conference, Chicago, IL, September 1, 2017.

“Intermittent ICS is the Preferred Management for Preschool Children with Intermittent Asthma – A Pro/Con Debate.” American Thoracic Society International Conference, Washington, DC, May 21, 2017.

“Prenatal & Early Life Factors Impact on the Gut Microbiome and the Development of Asthma.” World Allergy Organization Symposium: Hot Topics in Allergy: Pediatric and Regulatory Aspects, Rome, Italy, April 27, 2017.

“Hot Topics in Pediatric Asthma.” American Academy of Allergy, Asthma and Immunology Annual Meeting, Atlanta, GA, March 6, 2017.

“Strategies for Asthma Prevention.” ADT Interest Section Forum, American Academy of Allergy, Asthma and Immunology Annual Meeting, Atlanta, GA, March 5, 2017.

“Therapeutic Approach to Asthma Exacerbations.” AAAAI Foundation and Dr William and Judith H Busse Lectureship and Plenary Session, American Academy of Allergy, Asthma and Immunology Annual Meeting, Atlanta, GA, March 4, 2017.

“Tailoring Treatment to Phenotype in Children with Mild to Moderate Asthma.” Plenary Session, American College of Allergy, Asthma and Immunology Annual Scientific Meeting, San Francisco, CA, November 14, 2016.

“Managing Severe Asthma in Adults and Children.” American College of Allergy, Asthma and Immunology Annual Scientific Meeting, San Francisco, CA, November 13, 2016.

“Preschool Asthma – Therapeutic Advances.” Washington University Asthma and Airways Diseases Conference, St. Louis, MO, November 10, 2016.

“Therapeutic Advances in Preschool Asthma.” Allergy Grand Rounds, University of Washington and Seattle Children’s Hospital, Seattle, WA, October 12, 2016.

“The Role of Antibiotics for the Treatment of Pediatric Asthma Exacerbations.” Clinical Allergy for the Practicing Physician, St. Louis, MO, August 5, 2016.

“Treatment Approaches to Preschool Wheezing Illnesses.” American Academy of Allergy, Asthma, and Immunology Life Spectrum of Asthma Conference, Chicago, IL, July 29, 2016

“Preschool Exposures that Influence the Development of Asthma.” American Academy of Allergy, Asthma, and Immunology Annual Meeting, Los Angeles, CA, March 7, 2016.

“Mechanisms of Severe Asthma in Children.” American Academy of Allergy, Asthma, and Immunology Annual Meeting, Los Angeles, CA, March 6, 2016.

“Treatment Options for the Young Wheezers.” American Academy of Allergy, Asthma, and Immunology Annual Meeting, Los Angeles, CA, March 5, 2016.

“Effective Treatment in Pediatric Asthma and Wheezing.” Allergy, Asthma and Immunology Foundation of Northern California – Bridges to Understanding Allergy, Asthma & Immunologic Disorders Symposium, San Francisco, CA, February 20, 2016.

“Severe Asthma in Children.” American College of Allergy, Asthma and Immunology Annual Scientific Meeting, San Antonio, TX, November 8, 2015.

“Controversies in the Wheezing Preschooler: New Studies.” American College of Allergy, Asthma and Immunology Annual Scientific Meeting, San Antonio, TX, November 9, 2015.

“Potential Biomarkers for Predicting Asthma Exacerbations.” Plenary Session, XXIV World Allergy Conference, Seoul, Korea, October 15, 2015.

“Severe Asthma in Children.” XXIV World Allergy Conference, Seoul, Korea, October 15, 2015.

“Wheezing Phenotypes and Asthma in Childhood.” XXIV World Allergy Conference, Seoul, Korea, October 15, 2015.

“Severe Asthma in Children.” Eastern Allergy Conference, West Palm Beach, FL, May 30, 2015.

“The Path from RSV Bronchiolitis to Asthma.” Pediatric Grand Rounds, University of California – San Diego and Rady Children’s Hospital, San Diego, CA, May 29, 2015.

“Role of Azithromycin in Treating Preschool Wheezers.” American Thoracic Society International Conference, Denver, CO, May 17, 2015.

“Severe Asthma in Children.” LXIX Colegio Mexicano de Inmunología Clínica y Alergia (CoMICA), Guanajuato, Mexico, May 15, 2015.

“Omalizumab Use in Children.” LXIX Colegio Mexicano de Inmunología Clínica y Alergia (CoMICA), Guanajuato, Mexico, May 15, 2015.

“Using the Yellow Zone Practice Parameters to Escalate Therapy.” The Richard Cushing Memorial Lecture, ALA of Minnesota, Minneapolis, MN, May 5, 2015.

“The Evolution from Childhood Wheezing to Asthma.” American Academy of Allergy, Asthma, and Immunology Annual Meeting, Houston, TX, February 24, 2015.

“Role of Azithromycin in Treating Preschool Wheezers.” American Academy of Allergy, Asthma, and Immunology Annual Meeting, Houston, TX, February 23, 2015.

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“Using the Yellow Zone Practice Parameters to Escalate Therapy.” American Academy of Allergy, Asthma, and Immunology Annual Meeting, Houston, TX, February 22, 2015.

“Severe Asthma.” American College of Allergy, Asthma and Immunology Annual Scientific Meeting, Atlanta, GA, November 8, 2014.

“Infections and the Immune Response in Asthma.” XXI Congreso Nacional Alergia, Asma y Inmunología Pediátrica, COMPEDIA – Mexican College of Pediatric Specialists in Clinical Immunology and Asthma, Mazatlan, MX, June 26, 2014

“Wheezing in Preschool Children – Are Corticosteroids Useful?” XXI Congreso Nacional Alergia, Asma y Inmunología Pediátrica, COMPEDIA – Mexican College of Pediatric Specialists in Clinical Immunology and Asthma, Mazatlan, MX, June 26, 2014

“Severe Asthma in Children.” XXI Congreso Nacional Alergia, Asma y Inmunología Pediátrica, COMPEDIA – Mexican College of Pediatric Specialists in Clinical Immunology and Asthma, Mazatlan, MX, June 26, 2014

“Oral Corticosteroids for Acute Wheezing Episodes in Preschool Children – The OCELOT Trial – Lessons Learned.” American Thoracic Society International Conference, San Diego, CA, May 19, 2014.

“The Path from RSV Bronchiolitis to Asthma.” Pediatric Grand Rounds, Vanderbilt School of Medicine, Nashville, TN, May 13, 2014.

“Mild Asthma – Is Daily Therapy the Only Option?” Fifth Annual Pediatric Asthma Education Conference, Nashville, TN, May 13, 2014.

“Predicting Response to Asthma Treatment in Preschool Children.” World Congress of Asthma, Mexico City, Mexico, March 29, 2014

“Treatment of Severe Asthma – Children are Not Little Adults.” World Congress of Asthma, Mexico City, Mexico, March 29, 2014

“Role of Infective Agents in Asthma Development.” World Congress of Asthma, Mexico City, Mexico, March 29, 2014

“What Roles Do Novel and Not-So Novel Medications Have in Treating Preschool Wheezers?” American Academy of Allergy, Asthma, and Immunology Annual Meeting, San Diego, CA, March 1, 2014.

“Viral Infections in Asthma – Inception and Exacerbation.” 3rd Global Congress for Consensus in Pediatrics and Child Health, Bangkok, Thailand, February 15, 2014.

“Are We Ready for Phenotype Directed Therapy in Childhood Asthma?” 3rd Global Congress for Consensus in Pediatrics and Child Health, Bangkok, Thailand, February 15, 2014.

“The Role of the Innate Immune Response in Asthma: New Clinical Implications.” Lester Mittelstaedt Lecture at the American College of Allergy, Asthma and Immunology Annual Scientific Meeting, Baltimore, MD, November 9, 2013.

“Intermittent Therapy.” American College of Allergy, Asthma and Immunology Annual Scientific Meeting, Baltimore, MD, November 9, 2013.

“Wheezing in Preschool Children – Use of Continuous or Intermittent Inhaled Corticosteroids?” LXVII National Congress of the Mexican College of Clinical Immunology and Allergy, Acapulco, MX, August 9, 2013.

“Wheezing in Preschoolers – Role of Bacterial and Viral Pathogens in the Development of Asthma” LXVII National Congress of the Mexican College of Clinical Immunology and Allergy, Acapulco, MX, August 8, 2013.

“Determinants of Asthma Following Severe RSV Bronchiolitis in Early Life.” Allergy Grand Rounds, New York Medical College, Valhalla, NY, June 21, 2013.

“Mild Asthma – Stepping up.” American Thoracic Society International Conference, Philadelphia, PA, May 19, 2013.

“What Measurements to Use When Monitoring and Managing Pediatric Asthma and Why: What to Do If There is Discordance of Asthma Symptoms and Lung Function Testing.” American Academy of Allergy, Asthma, and Immunology Annual Meeting, San Antonio, TX, February 22, 2013.

“Maintenance Steroids Should Be Used for Preschool Wheezers: Con.” American Academy of Allergy, Asthma, and Immunology Annual Meeting, San Antonio, TX, February 23, 2013.

“Problem-Based Learning: The Intermittently Wheezing Infant.” American Academy of Allergy, Asthma, and Immunology Annual Meeting, San Antonio, TX, February 26, 2013.

“Determinants of Asthma Following Severe RSV Bronchiolitis in Early Life.” Allergy Grand Rounds, Brigham and Women’s Hospital, Boston, MA, February 5, 2013.

“Asthma Following Severe RSV Bronchiolitis in Early Life.” Pediatric Allergy Grand Rounds, Children’s Hospital, Boston, MA, February 5, 2013.

“Management of Pediatric Severe Asthma.” XXXIX Brazilian Allergy and Immunopathology Congress, Guarujá, Brazil, November 11, 2012.

“The Importance of Pediatric Asthma Genotyping.” XXXIX Brazilian Allergy and Immunopathology Congress, Guarujá, Brazil, November 11, 2012.

“Pro: Intermittent Use of Inhaled Corticosteroids in Asthmatic Children.” American College of Chest Physicians: CHEST 2012, Atlanta, GA, October 23, 2012.

“How to Apply the Results of the CARE Network Trials to Clinical Practice.” Eastern Allergy Conference, West Palm Beach, FL, June 1, 2012

“Intermittent Therapy is an Appropriate (or at least a Reasonable Alternative) Treatment Strategy in Mild Asthma in Preschool Children.” Eastern Allergy Conference, West Palm Beach, FL, June 1, 2012

“Treatment of Preschool Wheeze – Does Phenotype Matter?” American Thoracic Society International Conference, San Francisco, CA, May 22, 2012

“Therapeutic Approaches to Wheezing in Preschool Children: Remaining Questions and New Trials.” American Thoracic Society International Conference, San Francisco, CA, May 20, 2012

“Long-acting beta-agonist Therapy in Children.” 4th Annual Coughing, Sneezing and Wheezing Conference, Springfield, MO, April 21, 2012.

“Rethinking Childhood Asthma Management – Is daily therapy necessary for all? Does anti-GER therapy provide benefit?” Pediatric Grand Rounds, Washington University, St. Louis, MO, March 23, 2012

“The Evolution of Childhood Wheezing to Asthma.” American Academy of Allergy, Asthma and Immunology Annual Meeting, Orlando, FL, March 3, 2012.

“Intermittent Therapy for Asthma.” American College of Allergy, Asthma and Immunology Annual Meeting, Boston, MA, November 7, 2011.

“Evidence Based Treatment for Childhood and Adolescent Wheezing.” Plenary Session, American College of Allergy, Asthma and Immunology Annual Meeting, Boston, MA, November 7, 2011.

“Step-down therapy from ICS/LABA – When and If to Do So.” American College of Allergy, Asthma and Immunology Annual Meeting, Boston, MA, November 7, 2011.

“Pediatric Asthma – Challenging Existing Paradigms.” Cincinnati Children’s Hospital, Allergy Grand Rounds, October 4, 2011.

“Heterogeneity in the Management of Childhood Asthma.” Texas Children’s Hospital, Pulmonary Grand Rounds, June 24, 2011.

“Stepping Down Asthma Care – When? How?” Eastern Allergy Conference, Palm Beach, FL, June 3, 2011.

“Vitamin D Deficiency and Allergic Disease – A Clinically Important Link? A Potential Target for Disease Prevention and Modulation.” Allergy, Asthma and Immunology Society of Georgia, Atlanta, GA, May 15, 2011.

“Maintenance vs. Intermittent Inhaled Steroids in Wheezing Toddlers.” American Academy of Allergy, Asthma and Immunology Annual Meeting, San Francisco, CA, March 22, 2011.

“Risk Assessment for Allergic Complications During the Perioperative Period”. American Academy of Allergy, Asthma and Immunology Annual Meeting, San Francisco, CA, March 20, 2011.

“Cough in Childhood – Causes and Approaches to Therapy.” The First Global Congress for Consensus in Pediatrics & Child Health, Paris, France, February 19, 2011.

“Using Patient Characteristics to Individualize and Improve Asthma Care.” The First Global Congress for Consensus in Pediatrics & Child Health, Paris, France, February 18, 2011.

“Preschool Asthma – How Should it be Treated?” American Academy of Pediatrics National Conference and Exhibition, San Francisco, CA, October 3, 2010.

“Role of Non-Steroid Treatments in the Treatment and Prevention of Asthma Exacerbations” 2nd International Conference on Exacerbations of Airway Disease, Miami, FL, April 17, 2010.

“Identifying Host Factors that Influence Treatment Response in Wheezing Infants and Preschool Children.” American Academy of Allergy, Asthma and Immunology Annual Meeting, New Orleans, LA, March 1, 2010.

“Step Down Therapy in a Well-Controlled Asthmatic: What’s Best?” American Academy of Allergy, Asthma and Immunology Annual Meeting, New Orleans, LA, March 1, 2010.

“Treatment of Virus Induced Wheezing and Asthma.” American Academy of Allergy, Asthma and Immunology Annual Meeting, New Orleans, LA, February 27, 2010.

“The Young Child with Recurrent Wheezing – Approaches to Management.” 46th Annual Meeting of the Japanese Society of Pediatric Allergy and Clinical Immunology, Fukuoka, Japan, December 6, 2009.

“Using Patient Characteristics to Individualize and Improve Asthma Care.” Pediatric Grand Rounds, Washington University School of Medicine, September 25, 2009.

“Severe intermittent wheezing in preschool children – A distinct phenotype and therapeutic implications”, Vanderbilt School of Medicine, Department of Pediatrics Research Conference, Nashville, TN, May 11, 2009.

“Risk factors for Pediatric Asthma.” The Israel Association of Allergy and Clinical Immunology Annual Meeting, Jerusalem, Israel, December 3, 2008.

“Management of Severe Intermittent Asthma in Preschool Children.” Pediatric Grand Rounds, Soroka University Medical Center, Beer-Sheva, Israel, December 1, 2008.

“Diagnosis and Treatment of Asthma in Childhood: A PRACTALL Consensus Report. Treatment Considerations.” American Academy of Allergy, Asthma and Immunology Annual Meeting, Philadelphia, PA, March 18, 2008.

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“Severe Intermittent Asthma – A Distinct Phenotype. Clinical and Therapeutic Challenges.” Pediatric Grand Rounds, Washington University School of Medicine, January 4, 2008.

“What is (Childhood) Asthma?” Allergy Grand Rounds, Department of Internal Medicine, Washington University School of Medicine, November 29, 2007.

“Management Approaches for Severe Intermittent Asthma in Preschool Children.” Allergy Grand Rounds, Rush College of Medicine, Chicago, IL, November 2, 2007.

“What Are The Unanswered Questions in Childhood Asthma?” Pediatrics Grand Rounds, University of Illinois – Chicago, Chicago, IL, November 2, 2007.

“Management Approaches for Severe Intermittent Asthma in Preschool Children.” Pediatric Allergy Grand Rounds, Children’s Hospital, Boston, February 6, 2007.

“Prevention of Early Childhood Asthma”, Pediatric Pulmonology Grand Rounds, Children’s Hospital, Boston, February 5, 2007

“Strategies for the Prevention of Childhood Asthma”, Pediatric Grand Rounds, Virginia Commonwealth University, Richmond, VA, November 7, 2006

“Anti-IgE Therapy – Addressing an Unmet Need in Asthma Care”, Pediatric Pulmonary Grand Rounds, Riley Children’s Hospital, Indianapolis, IN, October 3, 2006.

“Acute Intervention Management Strategies”, American Thoracic Society International Conference, San Diego, CA, May 21, 2006

“Acute Intervention Management Strategies”, American Academy of Allergy, Asthma and Immunology Annual Meeting, Miami, FL, March 7, 2006

“Preventing Early Asthma in Kids – Is it possible?”, Pediatric Allergy Grand Rounds, Children’s Hospital, Boston, MA, January 31, 2006

“Indications and Use of Controller Medications in Preschool Children with Asthma” Kaiser-Permanente Annual National Asthma Conference, Pasadena, CA, October 8, 2005

“Preventing Early Asthma in Kids – Is it possible?”, Pediatric Grand Rounds, Washington University School of Medicine, St. Louis, MO, July 15, 2005

“Measuring exhaled nitric oxide in young children with recurrent wheezing”, American Academy of Allergy, Asthma and Immunology Annual Meeting, San Antonio, TX, March 18, 2005

“Management of infants with recurrent and chronic wheezing”, American Academy of Allergy, Asthma and Immunology Annual Meeting, San Antonio, TX, March 20, 2005

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“Acute Bronchiolitis (or... Your child has bronchiolitis...I have some good news and some bad news)”, Early Bird Rounds, St. Louis Children’s Hospital, November 12, 2004

“Evidence Based Treatment of Acute Exacerbations of Asthma”, Pennsylvania Allergy and Asthma Society Annual Meeting, Hershey, PA, June 27, 2004

“New Approaches to Asthma Therapy – Management of Severe Intermittent Asthma”, Pediatric Grand Rounds, Penn State University, Hershey, PA, June 29, 2004

“Natural History of Childhood Asthma: Lessons from the CAMP Placebo Group”, American Academy of Allergy, Asthma and Immunology Annual Meeting, Denver, CO, March 10, 2003

“Management of Bronchiolitis”, Clinical Case Conference, St. Louis Children’s Hospital, January 28, 2003

“Food Allergies – A Practical Approach to Diagnosis and Management”, Early Bird Rounds, St. Louis Children’s Hospital, April 27, 2001

“The Childhood Asthma Management Program – The Effects of Long-Term Use of Inhaled Corticosteroids in Children with Mild-to-Moderate Asthma”, Pediatric Pulmonary Grand Rounds, Riley Hospital for Children, Indianapolis, IN, April 16, 2001

“The Childhood Asthma Management Program – The Efficacy and Safety of Inhaled Corticosteroids”, Pediatric Grand Rounds, Arkansas Children’s Hospital, Little Rock, AK, February 27, 2001.

“Asthma Therapy in the Year 2000 and Beyond”, Early Bird Rounds, St. Louis Children’s Hospital, St. Louis, MO, January 14, 2000

“Childhood Asthma Management Program (CAMP): Baseline Data on Correlates of Nocturnal Asthma and Hospitalization”, Pediatric Grand Rounds, Washington University School of Medicine, St. Louis, MO, August 20, 1999

"Asthma Episodes Requiring Hospital Care: Atopic, Pulmonary Function and Psychological Correlates", American Thoracic Society International Conference, San Diego, CA, April 27, 1999

"X-Linked Hyper IgM Syndrome and the Role of CD40 Ligand in Immunity," Medical Grand Rounds, Children's Hospital, Boston, MA, October 8, 1997

"Update on the Diagnosis and Treatment of Asthma". Children's Hospital Department of Pharmacy, Boston, MA, June 25, 1997

CLINICAL TEACHING:

- Allergy & Clinical Immunology Clinic – supervision of medical students, residents, and fellows
- Inpatient Allergy & Clinical Immunology Consultation Service

RESEARCH SUPERVISION:

Trainee Name	Predoc/Postdoc / Short term/Jr. Faculty	Start Date	End Date	Terminal Degree	Degree Year	Current Position/ Department/ Institution/Activity	Subsequent Grant(s)/ Role
Chiang, G	Fellow	2007	2009	MD	2004	Private Practice, Atlanta, GA	
Sirajuddin, I	Fellow	2007	2009	MD	2004	Instructor in Pediatrics, University of Kansas	
Rivera-Spoljaric, K	Jr Faculty	2004	Present	MD, MSCI	2001	Associate Professor of Pediatrics, Washington University, St Louis	KM1 (PI)
Beigelman, A	Fellow, Jr Faculty	2006	Present	MD, MSCI	1999	Associate Professor of Pediatrics, Washington University, St Louis; Director, The Kipper Institute of Allergy and Immunology. Schneider Children's Medical Center of Israel, Tel Aviv University, Israel.	KL2, R01 (PI)
Ellis, A	Fellow, Jr Faculty	2005	Present	MD	2005	Associate Professor of Pediatrics, Washington University	
Horner, C	Jr Faculty	2006	Present	MD	2006	Associate Professor of Pediatrics, Washington University, St Louis	
Miller, N	Fellow	2011	2012	MD	2008	Private Practice, Louisville, KY	
Thatayatikom, A	Fellow	2005	2007	MD	1990	Clinical Associate Professor, University of Florida, Gainesville, FL	
Thatayatikom, S	Fellow	2005	2007	MD	2002	Clinical Assistant Professor, University of Florida, Gainesville, FL	
Kau, A	Jr Faculty	2008	Present	MD, PhD	2005	Assistant Professor of Medicine, Washington University School of Medicine	K08 (PI)
Leibel, S	Fellow	2009	2011	MD	2006	Assistant Professor of Pediatrics, U of California, San Diego	
Kicharoensakkul, M	Fellow, Jr Faculty	2012	Present	MD	2005	Assistant Professor of Pediatrics, Washington University	
Kwong, C	Fellow, Jr Faculty	2015	Present	MD	2012	Assistant Professor of Pediatrics, Washington University	
Coverstone, A	Fellow, Jr Faculty	2012	Present	MD	2009	Assistant Professor of Pediatrics, Washington University	
Polk, B	Jr Faculty	2017	Present	MD	2012	Assistant Professor of Pediatrics, Washington University	
Kanchongkittiphon, W.	Fellow	2017	2019	MD, PhD	2011	Instructor in Pediatrics, Faculty of Medicine, Ramathibodi Hospital, Mahidol University, Thailand	
Iglesia, E	Jr Faculty	2021	Present	MD		Instructor in Pediatrics and Medicine, VUMC	
Rosas-Salazar, C	Jr Faculty	2020	Present	MD		Assistant Professor in Pediatrics, VUMC	

RESEARCH PROGRAM:

Title	Sponsor	Total Costs	Start	End	Effort
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Asthma Clinical Research Center (ACRC)	American Lung Association > KUMC	\$ 100,000	7/1/99	6/30/19	5%
CARE NETWORK (U10HL064287)	NIH/NHLBI	\$ 6,234,172	9/30/99	11/30/11	7%
AIMS (M01RR000036)	NIH/NCRR	\$ 153,033	4/1/05	3/31/06	0%
Randomized Trial: Maternal Vitamin D Supplementation to Prevent Childhood Asthma (VDAART) Clinical Coordinating Center (R01HL091075)	NIH/NHLBI	\$ 4,297,391	3/1/09	4/30/20	10%
DATA COORDINATING CENTER FOR THE NHLBI ASTHMA NETWORK (ASTHMANET) (U10HL098115)	NIH/NHLBI > Pennsylvania State	\$ 240,831	9/30/09	6/30/18	3%
Washington University AsthmaNet (U10 HL098098)	NIH/NHLBI	\$ 9,036,192	9/30/09	6/30/18	8%
DETERMINANTS OF ASTHMA FOLLOWING RSV BRONCHIOLITIS IN EARLY LIFE (RBEL) (R01HL092486)	NIH/NHLBI	\$ 5,900,186	7/1/10	6/30/12	4%
Severe Asthma Research Program (SARP) – Washington University (U10 HL109257)	NIH/NHLBI	\$ 3,796,357	8/8/11	5/31/19	4%
Preference and Effectiveness of Symptom Based Adjustment of Inhaled Corticosteroid Therapy	PCORI	\$ 310,805	2/1/14	1/31/17	3%
ICAC 3 (UM1AI114271)	NIH/NIAID > University of Wisconsin	\$ 7,904,973	8/5/14	7/31/21	19%
Upper Respiratory Tract and Fecal Microbiomes and Recurrent Wheezing Following RSV Bronchiolitis (PD-II-2015-476)	Children's Discovery Institute	\$ 450,000	2/1/15	1/31/19	3%
Vitamin D to Prevent Severe Asthma Exacerbations in High-Risk Children – CCC (U01HL119952)	NIH > Pittsburgh	\$ 657,251	6/15/15	5/31/20	1%
AsthmaNet Ancillary Study (R01HL123385)	NIH/NHLBI > University of Colorado	\$ 15,855	7/1/15	7/31/17	0%
Azithromycin to Prevent Recurrent Wheezing Following Severe RSV Bronchiolitis (R01HL130876)	NIH/NHLBI	\$ 2,777,129	5/1/16	2/28/21	5%
ORBEX: Primary Prevention of Asthma and Wheezing in Children-CCC (U01HL130045)	NIH/NHLBI > University of Arizona	\$ 3,092,848	5/4/16	4/30/21	10%
CONTROLLING AND PREVENTING ASTHMA PROGRESSION AND SEVERITY IN KIDS (CASK) PARK (U01AI126614)	NIH/NIAID > Boston Children's Hospital	\$ 708,349	7/20/16	6/30/23	9%
Systems Biology of Airways Disease (P01HL132825)	NIH/NHLBI	\$ 243,160	9/1/16	7/31/19	3%

CHILDREN'S RESPIRATORY AND ENVIRONMENTAL WORKGROUP (CREW) (UG3OD023282)	NIH/OD > University of Wisconsin	\$ 1,458,153	9/21/16	8/31/23	12%
MULTI-OMIC APPROACHES TO MECHANISMS OF VITAMIN D, ENVIRONMENTAL INFLUENCES, AND THE MICROBIOME ON ASTHMA (VDAART ECHO) (UG3OD023268)	NIH/OD > Brigham and Women's Hospital	\$ 1,059,880	9/21/16	8/31/23	1%
ECHO Coordinating Center (U2COD023375)	NIH/OD > Duke University	\$ 23,550	6/1/19	8/31/20	0%
University of Kansas' Precision Biologic Interventions for Severe Exacerbation Prone Asthma (PRECISE) Clinical Center (UG1HL139119)	NIH/NHLBI > KUMC	\$ 38,751	9/1/19	6/30/23	5%
Airways Clinical Research Center (Y8C000K0)	American Lung Association > KUMC	\$ 15,632	9/16/19	6/30/20	5%
Human epidemiology and response to SARS-CoV2 (HEROS) (3UM1AI114271-06S1)	NIH/NIAID > University of Wisconsin	\$ 54,834	4/30/20	7/31/20	10%

PUBLICATIONS AND PRESENTATIONS:

Articles in refereed journals:

1. **Bacharier LB**, Jabara H, Geha RS. Molecular mechanisms of IgE regulation. International Archives of Allergy and Immunology 1998;115:257-69.
2. **Bacharier LB**, Geha RS. Regulation of IgE synthesis: the molecular basis and implications for clinical modulation. Allergy and Asthma Proceedings 1999;20:1-8.
3. Zeiger RS, Dawson C, Weiss S for the Childhood Asthma Management Program (CAMP) Research Group (**Bacharier LB**, Co-investigator). Relationships between duration of asthma and asthma severity among children in the Childhood Asthma Management Program (CAMP). J Allergy Clin Immunol 1999;103:37687.
4. Childhood Asthma Management Program Research Group (**Bacharier LB**, Co-investigator). Recruitment of participants in the Childhood Asthma Management Program (CAMP). I. Description of Methods. J Asthma 1999;36:217-37.

5. Nelson HS, Szeffler SJ, Jacobs J, Huss K, Shapiro G, Sternberg AL for the Childhood Asthma Management Program (CAMP) Research Group (**Bacharier LB**, Co-investigator). The relationships among environmental allergen sensitization, allergen exposure, pulmonary function, and bronchial hyperresponsiveness in the Childhood Asthma Management Program. *J Allergy Clin Immunol* 1999;104:775-85.
6. Morio T, Hanissian SH, **Bacharier LB**, Teraoka H, Nonoyama S, Seki M, Kondo J, Nakano H, Lee SK, Geha RS, Yata J. Ku in the cytoplasm associates with CD40 in human B cells and translocates into the nucleus following incubation with IL-4 and anti-CD40 mAb. *Immunity* 1999;11(3):339-48.
7. **Bacharier LB**, Geha RS. Molecular mechanisms of IgE regulation. *J Allergy Clin Immunol* 2000; 105:S547-58.
8. Annett RD, Aylward EH, Lapidus J, Bender BG, DuHamel T for the Childhood Asthma Management Program (CAMP) Research Group (**Bacharier LB**, Co-investigator). Neurocognitive functioning in children with mild and moderate asthma in the Childhood Asthma Management Program. *J Allergy Clin Immunol* 2000;105:717-24.
9. Weiss ST, Van Natta ML, Zeiger RS for the Childhood Asthma Management Program (CAMP) Research Group (**Bacharier LB**, Co-investigator). Relationships between increased airway responsiveness and asthma severity in the Childhood Asthma Management Program. *Am J Respir Crit Care Med* 2000;162:5056.
10. The Childhood Asthma Management Program Research Group (**Bacharier LB**, Co-investigator). Longterm effects of budesonide or nedocromil in children with asthma. *N Engl J Med* 2000;343:1054-63.
11. **Bacharier LB**, Strunk RC. Vocal cord dysfunction: A practical approach. *J Respir Dis Pediatrician* 2001;3:42-48.
12. Weiss ST, Horner A, Shapiro G, Sternberg AL for the Childhood Asthma Management Program (CAMP) Research Group (**Bacharier LB**, Co-investigator). The prevalence of environmental exposure to perceived asthma triggers in children with asthma: Data from the Childhood Asthma Management Program (CAMP). *J Allergy Clin Immunol* 2001;107:634-40.
13. Strunk RC, Sternberg AL, **Bacharier LB**, Szeffler SJ for the Childhood Asthma Management Program Research Group. Nocturnal awakening due to asthma in children with mild to moderate asthma in the Childhood Asthma Management Program. *J Allergy Clin Immunol* 2002; 110:395-403.
14. Kelly HW, Strunk RC, Donithan M, Bloomberg GR, McWilliams BC, Szeffler S for the Childhood Asthma Management Program Research Group (**Bacharier LB**, Co-investigator). Growth and bone density in children with mild-moderate asthma: A cross-sectional study in children entering the Childhood Asthma Management Program (CAMP). *J Pediatr* 2003;142:286-91.
15. Brodeur SR, Angelini F, **Bacharier LB**, Blom AM, Mizoguchi E, Fujiwara H, Plebani A, Notarangelo LD, Dahlback B, Tsitsikov E, Geha RS. C4b-binding protein (C4BP) activates B cells through the CD40 receptor. *Immunity* 2003;18:837-48.

16. **Bacharier LB**, Dawson C, Bloomberg G, Bender B, Wilson L, Strunk RC for the Childhood Asthma Management Program Research Group. Hospitalization for asthma: Atopic, pulmonary function and psychological correlates among participants in the Childhood Asthma Management Program. *Pediatr* 2003; 112:e85-e92.
17. **Bacharier LB** and Strunk RC. Pets and Childhood Asthma – How Should the Pediatrician Respond to New Information that Pets May Prevent Asthma? *Pediatr* 2003;112: 974-976.
18. Chen E, Fisher EB, **Bacharier LB**, Strunk RC. Socioeconomic status, stress, and immune markers in adolescents with asthma. *Psychosomatic Med* 2003; 65: 984-992.
19. **Bacharier LB**, Raissy HH, Wilson L, McWilliams B, Strunk RC, Kelly HW. The long-term effect of budesonide on hypothalamic-pituitary-adrenal axis function in children with mild to moderate asthma. *Pediatr* 2004; 113: 1693-1699.
20. Guilbert TW, Morgan WJ, Krawiec M, Lemanske RF Jr, Sorkness C, Szeffler SJ, Larsen G, Spahn JD, Zeiger RS, Heldt G, Strunk RC, **Bacharier LB**, Bloomberg GR, Chinchilli VM, Boehmer SJ, Mauger EA, Mauger DT, Taussig LM, Martinez FD. The Prevention of Early Asthma in Kids study: design, rationale and methods for the Childhood Asthma Research and Education network. *Control Clin Trials*. 2004; 25(3):286-310.
21. **Bacharier LB**, Strunk RC, Mauger D, White D, Lemanske RF, Sorkness CA. Classifying Asthma Severity in Children – Mismatch Between Symptoms, Medication Use and Lung Function. *Am J Respir Crit Care Med* 2004; 170: 426-432.
22. Guilbert TW, Morgan WJ, Zeiger RS, **Bacharier LB**, Boehmer SJ, Krawiec M, Larsen G, Lemanske Jr. RF, Liu A, Mauger DT, Sorkness C, Szeffler SJ, Strunk RC, Taussig LM, Martinez FD. Atopic Characteristics of Children with Recurrent Wheezing at High-risk for the Development of Childhood Asthma. *J Allergy Clin Immunol* 2004; 114:1282-7.
23. Bradley J, **Bacharier LB**, Bonfiglio J, Schechtman K, Strunk R, Storch G, Castro M. Severity of Respiratory Syncytial Virus Bronchiolitis is affected by Cigarette Smoke Exposure and Atopy. *Pediatrics* 2005; 115:e7-e12.
24. Szeffler SJ, Phillips BR, Martinez FD, Chinchilli VM, Lemanske RF, Strunk RC, Zeiger RS, Larsen G, Spahn JD, **Bacharier LB**, Bloomberg GR, Guilbert TW, Heldt G, Morgan WJ, Moss MH, Sorkness CA, Taussig LM for the Childhood Asthma Research and Education Network of the National Heart, Lung, and Blood Institute. Characterization of Within-Subject Responses to Fluticasone and Montelukast in Childhood Asthma. *J Allergy Clin Immunol* 2005: 115(2):233-42.
25. Raby BA, Van Steen K, Litonjua AA, Lange C, Weiss ST for the Childhood Asthma Management Program (CAMP) Research Group (**Bacharier LB**, Co-investigator). Paternal history of asthma and airway responsiveness in children with asthma. *Am J Respir Crit Care Med* 2005: 172:552-8.

26. Zeiger RS, Szeffler SJ, Phillips BR, Schatz M, Martinez FD, Chinchilli VM, Lemanske RF Jr, Strunk RC, Larsen G, Spahn JD, **Bacharier LB**, Bloomberg GR, Guilbert TW, Heldt G, Morgan WJ, Moss MH, Sorkness CA, Taussig LM; for the Childhood Asthma Research and Education Network of the National Heart, Lung, and Blood Institute. Response profiles to fluticasone and montelukast in mild-to-moderate persistent childhood asthma. *J Allergy Clin Immunol* 2006;117(1):45-52.
27. Guilbert TW, Morgan WJ, Zeiger RS, Mauger DT, Boehmer SJ, Szeffler SJ, **Bacharier LB**, Lemanske RF, Strunk RC, Allen DB, Bloomberg GR, Heldt G, Karwicz M, Larsen G, Liu AH, Chinchilli VM, Sorkness CA, Taussig LM, Martinez FD. Two Year Inhaled Corticosteroid Treatment on Subsequent Asthma in High-Risk Toddlers. *New Engl J Med* 2006;354:1985-97.
28. Sorkness CA, Lemanske RF, Mauger DT, Boehmer SJ, Chinchilli VM, Martinez FD, Strunk RC, Szeffler SH, Zeiger RS, **Bacharier LB**, Bloomberg GR, Covar RA, Guilbert TW, Heldt G, Larsen G, Mellon MH, Morgan WJ, Moss MH, Spahn JD, Taussig LM. Long-Term Comparison of Three Controller Regimens for Mild-Moderate Persistent Childhood Asthma: The Pediatric Asthma Controller Trial (PACT). *J Allergy Clin Immunol* 2007; 119: 64-72.
29. Moore WC, Bleecker ER, Curran-Everett D, Erzurum SC, Ameredes BT, **Bacharier L**, Calhoun WJ, Castro M, Chung KF, Clark MP, Dweik RA, Fitzpatrick AM, Gaston B, Hew M, Hussain I, Jarjour NN, Israel E, Levy BD, Murphy JR, Peters SP, Teague WG, Meyers DA, Busse WW, and Wenzel SE, for the National Heart Lung Blood Institute's Severe Asthma Research Program. Characterization of the Severe Asthma Phenotype by the NHLBI Severe Asthma Research Program. *J Allergy Clin Immunol* 2007; 119:405-13. PubMed PMID: 17291857; PubMed Central PMCID: PMC2837934.
30. Horner CC and **Bacharier LB**. Management approaches to intermittent wheezing in young children. *Curr Opin Allergy Immunol* 2007;7:180-4.
31. **Bacharier LB**, Phillips BR, Bloomberg GR, Zeiger RS, Paul IM, Krawiec M, Guilbert T, Chinchilli VM, and Strunk RC, for the Childhood Asthma Research and Education Network of the National Heart, Lung, and Blood Institute. Severe Intermittent Wheezing in Preschool Children: A Distinct Phenotype. *J Allergy Clin Immunol* 2007;119:604-10
32. Elizur A, **Bacharier LB**, Strunk RC. Pediatric asthma admissions: Chronic severity and acute exacerbations. *J Asthma* 2007;44:285-9.
33. The American Lung Association Asthma Clinical Research Centers (**Bacharier LB, Co-Investigator**). Clinical trial of low-dose theophylline and montelukast in patients with poorly controlled asthma. *Am J Respir Crit Care Med* 2007;175:235-42.
34. The American Lung Association Asthma Clinical Research Centers (**Bacharier LB, Co-Investigator**). Randomized Comparison of Strategies for Reducing Treatment in Mild Persistent Asthma. *N Engl J Med* 2007;356:2027-39.
35. **Bacharier LB**, Boner A, Carlsen K-H, Eigenmann PA, Frischer T, Gotz M, Helms PJ, Hunt J, Liu A, Papadopoulos N, Platts-Mills T, Pohunek P, Simons FER, Valvorita E, Wahn U, Wildhaber, The European

Pediatric Asthma Group. Diagnosis and treatment of asthma in childhood: a PRACTALL consensus report. *Allergy* 2008;63:5-34.

36. **Bacharier LB.** Pharmacologic Management of Asthma in Preschool Children with Inhaled Corticosteroids and Leukotriene Receptor Antagonists. *Curr Opin Allergy Clin Immunol* 2008; 8: 158-62.
37. Panettieri RA, Covar R, Grant E, Hillyer EV, **Bacharier L.** Natural History of Asthma: Persistence versus Progression – Does the Beginning Predict the End? *J Allergy Clin Immunol* 2008; 122:607-13.
38. Castro M, Schweiger T, Yin-DeClue H, Ramkumar TP, Christie C, Zheng J, Cohen R, Schechtman KB, Strunk R, **Bacharier LB.** Cytokine response after severe respiratory syncytial virus bronchiolitis in early life. *J Allergy Clin Immunol* 2008; 122:726-33.
39. Szeffler SJ, Mitchell H, Sorkness CA, Gergen PJ, O'Connor GT, Morgan WJ, Kattan M, Pongracic JA, Teach SJ, Bloomberg GR, Eggleston PA, Gruchalla RS, Kerckmar CM, Liu AH, Wildfire JJ, Curry MD, Busse WW (**Bacharier LB**, Co-investigator). Management of asthma based upon exhaled nitric oxide in addition to guideline-based treatment for inner-city adolescents and young adults: a randomized controlled trial. *Lancet* 2008; 372:1065-1072.
40. **Bacharier LB**, Phillips BR, Zeiger RS, Szeffler SJ, Martinez FD, Lemanske RF, Sorkness CA, Bloomberg GR, Morgan WJ, Paul IM, Guilbert T, Krawiec M, Covar R, Larsen G, Mellon M, Moss MH, Chinchilli VM, Taussig LM, Strunk RC. Episodic Use of an Inhaled Corticosteroid or Leukotriene Receptor Antagonist in Preschool Children with Moderate-to-Severe Intermittent Wheezing. *J Allergy Clin Immunol* 2008; 122:1127-1135.
41. Strunk RC, **Bacharier LB**, Phillips BR, Szeffler SH, Zeiger RS, Chinchilli VM, Martinez FD, Lemanske RF, Taussig LM, Mauger DT, Morgan WJ, Sorkness CA, Paul IM, Guilbert T, Krawiec M, Covar R, Larsen G. Azithromycin or Montelukast as Inhaled Corticosteroid-Sparing Agents in Moderate to Severe Childhood Asthma. *J Allergy Clin Immunol* 2008; 122:1138-1144.
42. Horner CC, **Bacharier LB.** Diagnosis and management of asthma in pre-school and school age children: focus on the 2007 NAEPP Guidelines. *Curr Opin Pulm Med* 2009; 15:52-56.
43. Larsen G, Morgan W, Heldt GP, Mauger DT, Boehmer SJ, Chinchilli VM, Lemanske RF, Martinez F, Strunk RC, Szeffler SJ, Zeiger RS, Taussig LM, **Bacharier LB**, Guilbert TW, Radford S, Sorkness CA. Impulse Oscillometry versus Spirometry in a Long-Term Study of Controller Therapy for Pediatric Asthma. *J Allergy Clin Immunol* 2009; 123(4):861-7.
44. Silver E, DeClue H, Schechtman K, Grayson M, **Bacharier LB**, Castro M. Lower levels of plasmacytoid dendritic cells in peripheral blood are associated with a diagnosis of asthma 6 years after severe respiratory syncytial virus bronchiolitis. *Pediatr Allergy Immunol* 2009; 20:471-6 (Dec 2008 Epub ahead of print, PMID: 19140903).
45. Knuffman JE, Sorkness CA, Lemanske RF, Mauger DT, Boehmer SJ, Martinez FD, **Bacharier LB**, Strunk RC, Szeffler SJ, Zeiger RS, Taussig LM. Phenotypic Predictors of Long-Term Response to Inhaled

- Corticosteroids and Leukotriene Modifier Therapies in Pediatric Asthma. *J Allergy Clin Immunol* 2009; 123:411-6.
46. American Lung Association Asthma Clinical Research Centers, Mastronarde JG, Anthonisen NR, Castro M, Holbrook JT, Leone FT, Teague WG, Wise RA (**Bacharier LB, Co-Investigator**). Efficacy of esomeprazole for treatment of poorly controlled asthma. *N Engl J Med* 2009; 360:1487-99.
 47. Rivera-Spoljaric K, Chinchilli VM, Camera LJ, Zeiger RS, Paul IM, Phillips BR, Taussig LM, Strunk RC, **Bacharier LB**. Signs and Symptoms that Precede Wheezing in Children with Moderate-to-Severe Intermittent Wheezing. *J Pediatr* 2009; 154(6):877-81.e4. Epub 2009 Mar 25.
 48. **Bacharier LB**, Guilbert TW, Zeiger RS, Strunk RC, Morgan WJ, Lemanske RF, Moss M, Szeffler SJ, Krawiec M, Boehmer S, Mauger D, Taussig LM, Martinez FD. Patient Characteristics Associated with Improved Outcomes with Use of an Inhaled Corticosteroid in Preschool Children at Risk for Asthma. *J Allergy Clin Immunol* 2009; 123(5):1077-82, 1082.e1-5. Epub 2009 Feb 23.
 49. Strunk RC, Sternberg AL, Szeffler SJ, Zeiger RS, Bender B, Tonascia J; Childhood Asthma Management Program (CAMP) Research Group (**Bacharier LB, Co-Investigator**). Long-term budesonide or nedocromil treatment, once discontinued, does not alter the course of mild to moderate asthma in children and adolescents. *J Pediatr*. 2009 May;154(5):682-7. Epub 2009 Jan 23.
 50. Beigelman A, Mauger DT, Phillips BR, Zeiger RS, Taussig LM, Strunk RC, **Bacharier LB**. Elevated Exhaled Nitric Oxide Levels Increase Risk of Respiratory Tract Illness in Preschool-aged Children with Moderate-to-Severe Wheezing. *Ann Allergy Asthma Immunol* 2009; 103:108-113.
 51. Paul IM, Camera L, Zeiger RS, Guilbert RW, **Bacharier LB**, Taussig LM, Morgan WH, Covar RA, Krawiec M, Bloomberg GR, Mauger DT. Relationship between infant weight gain and later asthma. *Pediatr Allergy Immunol* 2010; 21: 82–89.
 52. **Bacharier LB**. Viral-Induced Wheezing Episodes in Preschool Children – Approaches to Therapy. *Curr Opin Pulm Med* 2010; 16:31–35.
 53. Chen E, Strunk RC, **Bacharier LB**, Chan M, Miller GE. Socioeconomic status associated with exhaled nitric oxide responses to acute stress in children with asthma. *Brain Behav Immun*. 2010 Mar;24(3):444-50. doi: 10.1016/j.bbi.2009.11.017. Epub 2009 Dec 2. PMID: 19961922; PMCID: PMC2826564.
 54. Lemanske RF, Mauger DT, Sorkness CA, Jackson DJ, Boehmer SJ, Martinez FD, Strunk RC, Szeffler SJ, Zeiger RS, **Bacharier LB**, Covar RA, Guilbert TW, Larsen G, Morgan WJ, Moss MH, Spahn JD, Taussig LM. Step-up Therapy for Children with Uncontrolled Asthma Receiving Inhaled Corticosteroids. *New Engl J Med* 2010; 362:975-85. PMID: 20197425. PMCID: PMC2989902.
 55. Simon MR, Chinchilli VM, Phillips BR, Sorkness CA, Lemanske RF Jr, Szeffler SJ, Taussig L, **Bacharier LB**, Morgan W; for the Childhood Asthma Research and Education Network of the National Heart, Lung, and Blood Institute. Forced expiratory flow between 25% and 75% of vital capacity and FEV(1)/forced vital capacity ratio in relation to clinical and physiological parameters in asthmatic children with normal FEV(1) values. *J Allergy Clin Immunol*. 2010; 126(3):491-7. Epub 2010 Jul 31. PMID: 20638110

56. Rabinovitch N, Graber NJ, Chinchilli VM, Sorkness CA, Zeiger RS, Strunk RC, **Bacharier LB**, Martinez FD, Szeffler SJ; Childhood Asthma Research and Education Network of the National Heart, Lung, and Blood Institute. Urinary leukotriene E4/exhaled nitric oxide ratio and montelukast response in childhood asthma. *J Allergy Clin Immunol*. 2010;126(3):545-51.e1-4. PMID: 20816189.
57. Lötvall J, Akdis CA, **Bacharier LB**, Bjermer L, Casale TB, Custovic A, Lemanske Jr. RF, Wardlaw AJ, Wenzel SE, Greenberger PA. Asthma endotypes: a new approach to classification of disease entities within the asthma syndrome. *J Allergy Clin Immunol* 2011;127:355-60. PMID: 21281866.
58. Fitzpatrick AM, Teague WG, Meyers DA, Peters SP, Li X, Li H, Wenzel SE, Aujla S, Castro M, **Bacharier LB**, Gaston BM, Bleeker ER, Moore WC. Heterogeneity of Severe Asthma in Childhood: Confirmation by Cluster Analysis of Children in the NIH/NHLBI Severe Asthma Research Program (SARP). *J Allergy Clin Immunol* 2011;127:382-9. PubMed PMID: 21195471; PubMed Central PMCID: PMC3060668.
59. Martinez FD, Chinchilli VM, Morgan WJ, Boehmer SJ, Lemanske RF, Mauger DT, Strunk RC, Szeffler SJ, Zeiger RS, **Bacharier LB**, Bade E, Covar RA, Friedman NJ, Guilbert TW, Heidarian-Raissy H, Kelly HW, Malka-Rais J, Mellon MH, Sorkness CA, Taussig L. Use of beclomethasone dipropionate as rescue treatment for children with mild persistent asthma (TREXA): a randomised, double-blind, placebocontrolled trial. *Lancet* 2011;377:650-7. PMID 21324520.
60. Chipps BE, **Bacharier LB**, Harder JM. Phenotypic expressions of childhood wheezing and asthma: Implications for Therapy. *J Pediatr* 2011;158:878-8. PMID 21429508.
61. Rivera-Spoljaric K, Jaenicke M, Sridhar S, Krauss MJ, Garbutt JM, **Bacharier LB**, Strunk RC. Caregivers report a wide variety of early signs and symptoms of impending asthma exacerbations that are not different between pre-school vs school-age children. *J Allergy Clin Immunol* 2011; 128:1109-11. PMID: 21906791.
62. Horner CC, Mauger D, Strunk RC, Graber NJ, Lemanske RF, Sorkness CA, Szeffler SJ, Zeiger RS, Taussig LM, **Bacharier LB**. Most nocturnal asthma symptoms occur outside of exacerbations and associate with morbidity. *J Allergy Clin Immunol* 2011;128:977-82. PMID: 21855126.
63. **Bacharier LB**. Evaluation of the child with recurrent wheezing. *J Allergy Clin Immunol* 2011;128: 690. PMID: 21878246.
64. Guilbert TW, Mauger ST, Allen DB, Zeiger RS, Szeffler SJ, Strunk RC, **Bacharier LB**, Covar R, Sorkness CA, Taussig LM, Martinez FD. Growth of preschool children at high risk for asthma 2 years after discontinuation of fluticasone. *J Allergy Clin Immunol* 2011; 128:956-63. PMID: 21820163.
65. Zeiger RS, Mauger D, **Bacharier LB**, Guilbert TW, Martinez FD, Lemanske RF Jr, Strunk RC, Covar R, Szeffler SJ, Boehmer S, Jackson DJ, Sorkness CA, Gern JE, Kelly HW, Friedman NJ, Mellon MH, Schatz M, Morgan WJ, Chinchilli VM, Raissy HH, Bade E, Malka-Rais J, Beigelman A, Taussig LM; CARE Network of the National Heart, Lung, and Blood Institute. Daily or intermittent budesonide in preschool children with recurrent wheezing. *N Engl J Med*. 2011 Nov 24;365(21):1990-2001. PMID: 22111718. PMCID: PMC3247621

66. Writing Committee for the American Lung Association Asthma Clinical Research Centers, Holbrook JT, Wise RA, Gold BD, Blake K, Brown ED, Castro M, Dozor AJ, Lima JJ, Mastronarde JG, Sockrider MM, Teague WG (**Bacharier LB**, Co-Investigator). Lansoprazole for children with poorly controlled asthma: a randomized controlled trial. *JAMA*. 2012 Jan 25;307(4):373-81. PMID: 22274684
67. Fitzpatrick AM, Baena-Cagnani CE, **Bacharier LB**. Severe asthma in childhood: recent advances in phenotyping and pathogenesis. *Curr Opin Allergy Clin Immunol*. 2012 Apr;12(2):193-201. PMID: 22249197.
68. **Bacharier LB**. Step-down therapy in asthma: a focus on treatment options for patients receiving inhaled corticosteroids and long-acting beta-agonist combination therapy. *Allergy Asthma Proc*. 2012 Jan;33(1):138. Epub 2011 Dec 14. PMID: 22183083.
69. **Bacharier LB**, Cohen R, Schweiger T, Yin-DeClue H, Christie C, Zheng J, Schechtman KB, Strunk RC, Castro M. Determinants of asthma after severe respiratory syncytial viral bronchiolitis. *J Allergy Clin Immunol* 2012; 130:91-100. PMID: 2244510. PMC3612548.
70. **Bacharier LB** and Guilbert TW. Diagnosis and management of early asthma in preschool children. *J Allergy Clin Immunol* 2012; 130(2):287-96. Epub 2012 Jun 2. PMID: 22664162
71. Papadopoulos NG, Arakawa H, Carlsen KH, Custovic A, Gern J, Lemanske R, Le Souef P, Mäkelä M, Roberts G, Wong G, Zar H, Akdis CA, **Bacharier LB**, Baraldi E, van Bever HP, de Blic J, Boner A, Burks W, Casale TB, Castro-Rodriguez JA, Chen YZ, El-Gamal YM, Everard ML, Frischer T, Geller M, Gereda J, Goh DY, Guilbert TW, Hedlin G, Heymann PW, Hong SJ, Hossny EM, Huang JL, Jackson DJ, de Jongste JC, Kalayci O, Ait-Khaled N, Kling S, Kuna P, Lau S, Ledford DK, Lee SI, Liu AH, Lockey RF, Lødrup-Carlsen K, Lötvall J, Morikawa A, Nieto A, Paramesh H, Pawankar R, Pohunek P, Pongracic J, Price D, Robertson C, Rosario N, Rossenwasser LJ, Sly PD, Stein R, Stick S, Szeffler S, Taussig LM, Valovirta E, Vichyanond P, Wallace D, Weinberg E, Wennergren G, Wildhaber J, Zeiger RS. International consensus on (ICON) pediatric asthma. *Allergy*. 2012; 67(8):976-97 [Jun 15. Epub ahead of print] PubMed PMID: 22702533.
72. Beigelman A, Strunk RC, Garbutt JM, Schechtman KB, Jaenicke MW, Stein JS, **Bacharier LB**. Clinical and laboratory factors associated with negative oral food challenges. *Allergy and Asthma Proceedings*. 2012; 2012 Nov;33(6):467-73. PMID: 23394503
73. Beigelman A, **Bacharier LB**. The role of early life viral bronchiolitis in the inception of asthma. *Curr Opin Allergy Clin Immunol*. 2013 Apr;13(2):211-6. PubMed PMID: 23385289.
74. Newton LP, Osei-Akosa Y, Strunk RC, Krauss M, **Bacharier LB**, Garbutt JM, Rivera-Spoljaric K. Nonrespiratory symptoms before loss of asthma control in children. *J Allergy Clin Immunol: In Practice*: 2013;304-6. PubMed PMID: 24565492.
75. Beigelman A, King TS, Mauger D, Zeiger RS, Strunk, RC, Kelly HW, Martinez FD, Lemanske RF, Rivera-Spoljaric K, Jackson DJ, Guilbert T, Covar R, **Bacharier LB**, CARE Network of the National Heart, Lung, and Blood Institute. Do oral corticosteroids reduce the severity of acute lower respiratory tract illnesses in preschool children with recurrent wheezing? *J Allergy Clin Immunol* 2013; 131(6):1518152. PMID: 23498594.

76. Luhmann SJ, Sucato DJ, **Bacharier L**, Ellis A, Woerz C. Intraoperative anaphylaxis secondary to intraosseous gelatin administration. *J Pediatr Orthop*. 2013 Jul-Aug;33(5):e58-60. PubMed PMID: 23752162.
77. Litonjua AA, Lange NE, Carey VJ, Brown S, Laranjo N, O'Connor GT, Sandel M, Strunk RC, **Bacharier LB**, Zeiger RS, Schatz M, Hollis BW, Weiss ST. The Vitamin D Antenatal Asthma Reduction Trial (VDAART): Rationale, design, and methods of a randomized, controlled trial of vitamin D supplementation in pregnancy for the primary prevention of asthma and allergies in children. *Contemp Clin Trials*. 2014 Mar 7. [Epub ahead of print] PubMed PMID: 24614387.
78. Wandalsen GF, Chong-Neto HJ, de Souza FS, Solé D, **Bacharier LB**. Early weight gain and the development of asthma and atopy in children. *Curr Opin Allergy Clin Immunol*. 2014 Apr;14(2):126-30. PubMed PMID: 24451911.
79. Beigelman A, Weinstock GM, **Bacharier LB**. The relationships between environmental bacterial exposure, airway bacterial colonization, and asthma. *Curr Opin Allergy Clin Immunol*. 2014 Apr;14(2):137-42. PubMed PMID: 24451910.
80. Rabinovitch N, Mauger DT, Reisdorph N, Covar R, Malka J, Lemanske RF Jr, Morgan WJ, Guilbert TW, Zeiger RS, **Bacharier LB**, Szeffler SJ. Predictors of asthma control and lung function responsiveness to step 3 therapy in children with uncontrolled asthma. *J Allergy Clin Immunol*. 2013 Sep 28. pii: S00916749(13)01212-8. doi: 10.1016/j.jaci.2013.07.039. [Epub ahead of print] PubMed PMID: 24084071.
81. Bousquet J, Gern JE, Martinez FD, Anto JM, Johnson CC, Holt PG, Lemanske RF Jr, Le Souëf PN, Tepper RS, von Mutius ER, Arshad SH, **Bacharier LB**, Becker A, Belanger K, Bergström A, Bernstein DI, Cabana MD, Carroll KN, Castro M, Cooper PJ, Gillman MW, Gold DR, Henderson J, Heinrich J, Hong SJ, Jackson DJ, Keil T, Kozyrskyj AL, Lødrup Carlsen KC, Miller RL, Momas I, Morgan WJ, Noel P, Ownby DR, Pinart M, Ryan PH, Schwaninger JM, Sears MR, Simpson A, Smit HA, Stern DA, Subbarao P, Valenta R, Wang X, Weiss ST, Wood R, Wright AL, Wright RJ, Togias A, Gergen PJ. Birth cohorts in asthma and allergic diseases: Report of a NIAID/NHLBI/MeDALL joint workshop. *J Allergy Clin Immunol*. 2014 Jun;133(6):1535-46. Epub 2014 Mar 15. PubMed PMID: 24636091.
82. Beigelman A, **Bacharier LB**. Infection-induced wheezing in young children. *J Allergy Clin Immunol*. 2014 Feb;133(2):603-4. PubMed PMID: 24636478.
83. Beigelman A, Zeiger RS, Mauger D, Strunk RC, Jackson DJ, Martinez FD, Morgan WJ, Covar R, Szeffler SJ, Taussig LM, **Bacharier LB**; Childhood Asthma Research and Education (CARE) Network of the National Heart, Lung, and Blood Institute. The association between vitamin D status and the rate of exacerbations requiring oral corticosteroids in preschool children with recurrent wheezing. *J Allergy Clin Immunol*. 2014 May;133(5):1489-92, 1492.e1-3. Epub 2014 Apr 1. PubMed PMID: 24698320.
84. Castro M, King TS, Kunselman SJ, Cabana MD, Denlinger L, Holguin F, Kazani SD, Moore WC, Moy J, Sorkness CA, Avila P, **Bacharier LB**, Bleecker E, Boushey HA, Chmiel J, Fitzpatrick AM, Gentile D, Hundal M, Israel E, Kraft M, Krishnan JA, LaForce C, Lazarus SC, Lemanske R, Lugogo N, Martin RJ,

- Mauger DT, Naureckas E, Peters SP, Phipatanakul W, Que LG, Sheshadri A, Smith L, Solway J, Sullivan-Vedder L, Sumino K, Wechsler ME, Wenzel S, White SR, Sutherland ER; National Heart, Lung, and Blood Institute's AsthmaNet. Effect of vitamin D3 on asthma treatment failures in adults with symptomatic asthma and lower vitamin D levels: the VIDA randomized clinical trial. *JAMA*. 2014 May 28;311(20):2083-91. PubMed PMID: 24838406. PMCID: PMC4217655.
85. Lynch SV, Wood RA, Boushey H, **Bacharier LB**, Bloomberg GR, Kattan M, O'Connor GT, Sandel MT, Calatroni A, Matsui E, Johnson CC, Lynn H, Visness CM, Jaffee KF, Gergen PJ, Gold DR, Wright RJ, Fujimura K, Rauch M, Busse WW, Gern JE. Effects of early-life exposure to allergens and bacteria on recurrent wheeze and atopy in urban children. *J Allergy Clin Immunol*. 2014 Sep;134(3):593-601.e12. Epub 2014 Jun 4. PubMed PMID: 24908147; PubMed Central PMCID: PMC4151305.
 86. Witt CA, Sheshadri A, Carlstrom L, Tarsi J, Kozlowski J, Wilson B, Gierada DS, Hoffman E, Fain SB, Cook-Granroth J, Sajol G, Sierra O, Giri T, O'Neill M, Zheng J, Schechtman KB, **Bacharier LB**, Jarjour N, Busse W, Castro M; NHLBI Severe Asthma Research Program (SARP). Longitudinal changes in airway remodeling and air trapping in severe asthma. *Acad Radiol*. 2014 Aug;21(8):986-93. PubMed PMID: 25018070; PubMed Central PMCID: PMC4100072.
 87. Dinakar C, Oppenheimer J, Portnoy J, **Bacharier LB**, Li J, Kercksmar CM, Bernstein D, Blessing-Moore J, Khan D, Lang D, Nicklas R, Randolph C, Schuller D, Spector S, Tilles SA, Wallace D; Joint Task Force on Practice Parameters; Practice Parameter Workgroup; American Academy of Allergy, Asthma and Immunology; American College of Allergy, Asthma and Immunology. Management of acute loss of asthma control in the yellow zone: a practice parameter. *Ann Allergy Asthma Immunol*. 2014 Aug;113(2):143-59. PubMed PMID: 25065350.
 88. Guilbert TW, **Bacharier LB**, Fitzpatrick AM. Severe asthma in children. *J Allergy Clin Immunol Pract*. 2014 Sep-Oct;2(5):489-500. PubMed PMID: 25213041.
 89. Beigelman A, Isaacson-Schmid M, Sajol G, Baty J, Rodriguez OM, Leege E, Lyons K, Schweiger TL, Zheng J, Shechtman KB, Castro M, **Bacharier LB**. Randomized trial to evaluate azithromycin's effects on serum and upper airway IL-8 levels, and subsequent recurrent wheezing in infants with RSV bronchiolitis. *J Allergy Clin Immunol* May;135(5):1171-1178.e1. PubMed PMID: 25458910; PubMed Central PMCID: PMC4426225.
 90. Gerald JK, Gerald LB, Vasquez MM, Morgan WJ, Boehmer SJ, Lemanske RF Jr, Mauger DT, Strunk RC, Szeffler SJ, Zeiger RS, **Bacharier LB**, Bade E, Covar RA, Guilbert TW, Heidarian-Raissy H, Kelly HW, Malka-Rais J, Sorkness CA, Taussig LM, Chinchilli VM, Martinez FD. Markers of Differential Response to Inhaled Corticosteroid Treatment Among Children With Mild Persistent Asthma. *J Allergy Clin Immunol Pract*. 2015 Mar 14. [Epub ahead of print] PubMed PMID: 25783161.
 91. Smith LJ, Kalhan R, Wise RA, Sugar EA, Lima JJ, Irvin CG, Dozor AJ, Holbrook JT; American Lung Association Asthma Clinical Research Centers (**Bacharier LB, Co-Investigator**). Effect of a soy isoflavone supplement on lung function and clinical outcomes in patients with poorly controlled asthma: a randomized clinical trial. *JAMA*. 2015 May 26;313(20):2033-43. PubMed PMID: 26010632.

92. Coverstone A, **Bacharier LB**, Fitzpatrick AM. Severe asthma in school-age children: evaluation and phenotypic advances. *Curr Allergy Asthma Rep.* 2015 May;15(5):20. doi: 10.1007/s11882-015-0521-5. PubMed PMID: 26134431.
93. Strunk RC, Colvin R, **Bacharier LB**, Fuhlbrigge A, Forno E, Arbelaez AM, Tantisira KG; Childhood Asthma Management Program Research Group. Airway Obstruction Worsens in Young Adults with Asthma Who Become Obese. *J Allergy Clin Immunol Pract.* 2015 Sep-Oct;3(5):765-771.e2. doi: 10.1016/j.jaip.2015.05.009. Epub 2015 Jul 9. PubMed PMID: 26164807; PubMed Central PMCID: PMC4568157.
94. Beigelman A, **Bacharier LB**, Baty J, Buller R, Mason S, Schechtman KB, Sajol G, Isaacson-Schmid M, Castro M, Storch GA. Does azithromycin modify viral load during severe respiratory syncytial virus bronchiolitis? *J Allergy Clin Immunol.* 2015 Jul 24. pii: S0091-6749(15)00859-3. doi: 10.1016/j.jaci.2015.06.011. [Epub ahead of print] PubMed PMID: 26215052.
95. Beigelman A, Chipps BE, **Bacharier LB**. Update on the utility of corticosteroids in acute pediatric respiratory disorders. *Allergy Asthma Proc.* 2015 Sep;36(5):332-8. doi: 10.2500/aap.2015.36.3865. PubMed PMID: 26314814; PubMed Central PMCID: PMC4548893.
96. Beigelman A, Castro M, Schweiger TL, Wilson BS, Zheng J, Yin-DeClue H, Sajol G, Giri T, Sierra OL, Isaacson-Schmid M, Sumino K, Schechtman KB, **Bacharier LB**. Vitamin D Levels Are Unrelated to the Severity of Respiratory Syncytial Virus Bronchiolitis Among Hospitalized Infants. *J Pediatric Infect Dis Soc.* 2015 Sep;4(3):182-8. doi: 10.1093/jpids/piu042. Epub 2014 Jun 5. PubMed PMID: 26336601; PubMed Central PMCID: PMC4554201.
97. Torgerson DG, Giri T, Druley TE, Zheng J, Huntsman S, Seibold MA, Young AL, Schweiger T, YinDeClue H, Sajol GD, Schechtman KB, Hernandez RD, Randolph AG, **Bacharier LB**, Castro M. Pooled Sequencing of Candidate Genes Implicates Rare Variants in the Development of Asthma Following Severe RSV Bronchiolitis in Infancy. *PLoS One.* 2015 Nov 20;10(11):e0142649. doi: 10.1371/journal.pone.0142649. eCollection 2015. PubMed PMID: 26587832.
98. **Bacharier LB**, Guilbert TW, Mauger DT, Boehmer S, Beigelman A, Fitzpatrick AM, Jackson DJ, Baxi SN, Benson M, Burnham CA, Cabana M, Castro M, Chmiel JF, Covar R, Daines M, Gaffin JM, Gentile DA, Holguin F, Israel E, Kelly HW, Lazarus SC, Lemanske RF Jr, Ly N, Meade K, Morgan W, Moy J, Olin T, Peters SP, Phipatanakul W, Pongracic JA, Raissy HH, Ross K, Sheehan WJ, Sorkness C, Szeffler SJ, Teague WG, Thyne S, Martinez FD; National Heart, Lung, and Blood Institute's AsthmaNet. Early Administration of Azithromycin and Prevention of Severe Lower Respiratory Tract Illnesses in Preschool Children With a History of Such Illnesses: A Randomized Clinical Trial. *JAMA.* 2015 Nov 17;314(19):2034-44. doi: 10.1001/jama.2015.13896. PubMed PMID: 26575060. PubMed Central PMCID: PMC4757487.
99. Dillon MB, Schulten V, Oseroff C, Paul S, Dullanty LM, Frazier A, Belles X, Piulachs MD, Visness C, **Bacharier L**, Bloomberg GR, Busse P, Sidney J, Peters B, Sette A. Different Bla-g T cell antigens dominate responses in asthma versus rhinitis subjects. *Clin Exp Allergy.* 2015 Dec;45(12):1856-67. doi: 10.1111/cea.12643. PubMed PMID: 26414909; PubMed Central PMCID: PMC4654660.

100. **Bacharier LB.** The recurrently wheezing preschool child - benign or asthma in the making? *Ann Allergy Asthma Immunol.* 2015 Dec;115(6):463-70. doi: 10.1016/j.anai.2015.09.019. Review. PubMed PMID: 26653278.
101. Reid B, Girodet P-O, Boomer JS, Abdel-Gadir A, Zheng K, Wechsler ME, **Bacharier LB**, Kunselman SJ, King TS, Israel E, Castro M, Cernadas M, Green JM. Vitamin D3 treatment of vitamin D insufficient asthmatics does not alter immune cell function. *J Allergy Clin Immunol.* 2016 Jul;138(1):286-289.e9. doi: 10.1016/j.jaci.2015.11.030. Epub 2016 Feb 10. PMID: 26874367; PMCID: PMC4931954.
102. Litonjua AA, Carey VJ, Laranjo N, Harshfield BJ, McElrath TF, O'Connor G, Sandel M, Iverson RE, Lee-Paritz A, Strunk RC, **Bacharier LB**, Macones GA, Zeiger RS, Schatz M, Hollis BW, Hornsby E, Hawrylowicz C, Wu AC, Weiss ST. Effect of prenatal supplementation with vitamin D on asthma or recurrent wheezing in offspring by age 3: the VDAART randomized clinical trial. *JAMA.* 2016 Jan 26;315(4):362-70. doi: 10.1001/jama.2015.18589. PubMed PMID: 26813209.
103. Jiao J, King TS, McKenzie M, **Bacharier LB**, Dixon AE, Codispoti CD, Dunn RM, Grossman NL, Lugogo NL, Ranratnam SK, Traister RS, Wechsler ME, Castro M. Vitamin D3 therapy in subjects with asthma complicated by sinonasal disease: Secondary analysis of the VIDA trial. *J Allergy Clin Immunol.* 2016 Aug;138(2):589-592.e2. doi: 10.1016/j.jaci.2015.12.1329. Epub 2016 Mar 11. PMID: 26971692; PMCID: PMC4976042.
104. Wandalsen GF, Solé D, **Bacharier LB.** Identification of infants and preschool children at risk for asthma: predictive scores and biomarkers. *Curr Opin Allergy Clin Immunol.* 2016 Jan 22. [Epub ahead of print] PubMed PMID: 26807784.
105. Beigelman A, **Bacharier LB.** Management of Preschool Children with Recurrent Wheezing: Lessons from the NHLBI's Asthma Research Networks. *J Allergy Clin Immunol Pract.* 2016 Jan-Feb;4(1):1-8. doi: 10.1016/j.jaip.2015.10.003. PubMed PMID: 26772922; PubMed Central PMCID: PMC4715860.
106. Beigelman A, **Bacharier LB.** Early-life respiratory infections and asthma development: role in disease pathogenesis and potential targets for disease prevention. *Curr Opin Allergy Clin Immunol.* 2016 Apr;16(2):172-8. doi: 10.1097/ACI.0000000000000244. PubMed PMID: 26854761.
107. Kitcharoensakkul M, **Bacharier LB**, Yin-Declue H, Boomer JS, Burgdorf D, Wilson B, Schechtman K, Castro M. Temporal biological variability in dendritic cells and regulatory T cells in peripheral blood of healthy adults. *J Immunol Methods.* 2016 Feb 6. pii: S0022-1759(16)30021-7. doi: 10.1016/j.jim.2016.02.006. [Epub ahead of print] PubMed PMID: 26859243.
108. Reid B, Girodet PO, Boomer JS, Abdel-Gadir A, Zheng K, Wechsler ME, **Bacharier LB**, Kunselman SJ, King TS, Israel E, Castro M, Cernadas M, Green JM. Vitamin D3 treatment of vitamin D-insufficient asthmatic patients does not alter immune cell function. *J Allergy Clin Immunol.* 2016 Feb 10. pii: S00916749(16)00033-6. doi: 10.1016/j.jaci.2015.11.030. [Epub ahead of print] PubMed PMID: 26874367.

109. Kaiser S, Huynh T, **Bacharier L**, Rosenthal J, Bakel L, Parkin P, Cabana M. Preventing Exacerbations in Preschoolers with Recurrent Wheeze: A Meta-Analysis. *Pediatrics*. 2016 Jun;137(6). pii: e20154496. doi:10.1542/peds.2015-4496. PubMed PMID: 27230765.
110. Kakumanu S, Jaffee K, Visness CM, Dresen A, Burger M, Witter FR, O'Connor GT, Cruikshank WW, Shreffler WG, **Bacharier LB**, Gern JE. The influence of atopy and asthma on immune responses in innercity adults. *Immun Inflamm Dis*. 2016 Feb 26;4(1):80-90. doi: 10.1002/iid3.96. eCollection 2016 Mar. PubMed PMID: 27042305.
111. Jiao J, King TS, McKenzie M, **Bacharier LB**, Dixon AE, Codispoti CD, Dunn RM, Grossman NL, Lugogo NL, Ramratnam SK, Traister RS, Wechsler ME, Castro M; National Heart, Lung, and Blood Institute's AsthmaNet. Vitamin D(3) therapy in patients with asthma complicated by sinonasal disease: Secondary analysis of the Vitamin D Add-on Therapy Enhances Corticosteroid Responsiveness in Asthma trial. *J Allergy Clin Immunol*. 2016 Mar 10. pii: S0091-6749(16)00197-4. doi: 10.1016/j.jaci.2015.12.1329. [Epub ahead of print] PubMed PMID: 26971692.
112. Zhou Y, **Bacharier LB**, Isaacson-Schmid M, Baty J, Schechtman KB, Sajol G, Wylie K, Storch GA, Castro M, Beigelman A. Azithromycin therapy during respiratory syncytial virus bronchiolitis: Upper airway microbiome alterations and subsequent recurrent wheeze. *J Allergy Clin Immunol*. 2016 May 18. pii:S0091-6749(16)30288-3. doi: 10.1016/j.jaci.2016.03.054. [Epub ahead of print] PubMed PMID: 27339392.
113. Horner CC, Dula C, **Bacharier LB**, Garbutt JM, Gonzalez C, Deych E, Shannon WD, Strunk RC. Daily global stress is associated with nocturnal asthma awakenings in school-age children. *J Allergy Clin Immunol*. 2016 Apr 21. pii: S0091-6749(16)30093-8. doi: 10.1016/j.jaci.2016.01.054. [Epub ahead of print] PubMed PMID: 27246525.
114. Sheehan WJ, Mauger DT, Paul IM, Moy JN, Boehmer SJ, Szeffler SJ, Fitzpatrick AM, Jackson DJ, **Bacharier LB**, Cabana MD, Covar R, Holguin F, Lemanske RF Jr, Martinez FD, Pongracic JA, Beigelman A, Baxi SN, Benson M, Blake K, Chmiel JF, Daines CL, Daines MO, Gaffin JM, Gentile DA, Gower WA, Israel E, Kumar HV, Lang JE, Lazarus SC, Lima JJ, Ly N, Marbin J, Morgan WJ, Myers RE, Olin JT, Peters SP, Raissy HH, Robison RG, Ross K, Sorkness CA, Thyne SM, Wechsler ME, Phipatanakul W; NIH/NHLBI AsthmaNet. Acetaminophen versus Ibuprofen in Young Children with Mild Persistent Asthma. *N Engl J Med*. 2016 Aug 18;375(7):619-30. doi: 10.1056/NEJMoa1515990. PubMed PMID: 27532828.
115. Denlinger LC, Phillips BR, Ramratnam S, Ross K, Bhakta NR, Cardet JC, Castro M, Peters SP, Phipatanakul W, Aujla S, **Bacharier LB**, Bleecker ER, Comhair SA, Coverstone A, DeBoer M, Erzurum SC, Fain SB, Fajt M, Fitzpatrick AM, Gaffin J, Gaston B, Hastie AT, Hawkins GA, Holguin F, Irani AM, Israel E, Levy BD, Ly N, Meyers DA, Moore WC, Myers R, Opina MT, Peters MC, Schiebler ML, Sorkness RL, Teague WG, Wenzel SE, Woodruff PG, Mauger DT, Fahy JV, Jarjour NN; National Heart Lung and Blood Institute's Severe Asthma Research Program-3 Investigators. Inflammatory and CoMorbidity Features of Patients with Severe Asthma and Frequent Exacerbations. *Am J Respir Crit Care Med*. 2016 Aug 24. [Epub ahead of print] PubMed PMID: 27556234.

116. Fitzpatrick AM, Jackson DJ, Mauger DT, Boehmer SJ, Phipatanakul W, Sheehan WJ, Moy JN, Paul IM, **Bacharier LB**, Cabana MD, Covar R, Holguin F, Lemanske RF Jr, Martinez FD, Pongracic JA, Beigelman A, Baxi SN, Benson M, Blake K, Chmiel JF, Daines CL, Daines MO, Gaffin JM, Gentile DA, Gower WA, Israel E, Kumar HV, Lang JE, Lazarus SC, Lima JJ, Ly N, Marbin J, Morgan W, Myers RE, Olin JT, Peters SP, Raissy HH, Robison RG, Ross K, Sorkness CA, Thyne SM, Szeffler SJ; NIH/NHLBI AsthmaNet.. Individualized Therapy for Persistent Asthma in Young Children. *J Allergy Clin Immunol*. 2016 Oct 21. pii: S0091-6749(16)31217-9. doi: 10.1016/j.jaci.2016.09.028. [Epub ahead of print] PubMed PMID: 27777180.
117. Sordillo JE, Zhou Y, McGeachie MJ, Ziniti J, Lange N, Laranjo N, Savage JR, Carey V, O'Connor G, Sandel M, Strunk R, **Bacharier L**, Zeiger R, Weiss ST, Weinstock G, Gold DR, Litonjua AA. Factors Influencing the Infant Gut Microbiome at Age 3-6 months: Findings from the ethnically diverse Vitamin D Antenatal Asthma Reduction Trial (VDAART). *J Allergy Clin Immunol*. 2016 Oct 13. pii:S00916749(16)31134-4. doi: 10.1016/j.jaci.2016.08.045. [Epub ahead of print] PubMed PMID: 27746239.
118. Pongracic JA, Krouse RZ, Babineau DC, Zoratti EM, Cohen RT, Wood RA, Khurana Hershey GK, Kercksmar CM, Gruchalla RS, Kattan M, Teach SJ, Johnson CC, **Bacharier LB**, Gern JE, Sigelman SM, Gergen PJ, Togias A, Visness CM, Busse WW, Liu AH. Distinguishing characteristics of difficult-to-control asthma in inner-city children and adolescents. *J Allergy Clin Immunol*. 2016 Oct;138(4):10301041. doi:10.1016/j.jaci.2016.06.059. PubMed PMID: 27720017.
119. Mirzakhani H, Litonjua AA, McElrath TF, O'Connor G, Lee-Parriz A, Iverson R, Macones G, Strunk RC, **Bacharier LB**, Zeiger R, Hollis BW, Handy DE, Sharma A, Laranjo N, Carey V, Qiu W, Santolini M, Liu S, Chhabra D, Enquobahrie DA, Williams MA, Loscalzo J, Weiss ST. Early pregnancy vitamin D status and risk of preeclampsia. *J Clin Invest*. 2016 Nov 14. pii: 89031. doi: 10.1172/JCI89031. [Epub ahead of print] PubMed PMID: 27841759.
120. Phipatanakul W, Mauger DT, Sorkness RL, Gaffin JM, Holguin F, Woodruff PG, Ly P, **Bacharier LB**, Bhakta NR, Moore WC, Bleecker ER, Hastie AT, Meyers DA, Castro M, Fahy J, Fitzpatrick A, Gaston BM, Jarjour NN, Levy BD, Peters SP, Teague WG, Fajt M, Wenzel SE, Erzurum SC, Israel E; and the Severe Asthma Research Program. Effects of Age and Disease Severity on Systemic Corticosteroid Responses in Asthma. *Am J Respir Crit Care Med*. 2016 Dec 14. [Epub ahead of print] PubMed PMID: 27967215.
121. Beigelman A, **Bacharier LB**. Management of preschool recurrent wheezing and asthma: a phenotypebased approach. *Curr Opin Allergy Clin Immunol*. 2017 Apr;17(2):131-138. Doi: 10.1097/ACI.0000000000000344. PubMed PMID: 28118241.
122. Gern JE, Calatroni A, Jaffee KF, Lynn H, Dresen A, Cruikshank WW, Lederman HM, Sampson HA, Shreffler W, **Bacharier LB**, Gergen PJ, Gold DR, Kattan M, O'Connor GT, Sandel MT, Wood RA, Bloomberg GR. Patterns of immune development in urban preschoolers with recurrent wheeze and/or atopy. *J Allergy Clin Immunol*. 2017 Jan 13. pii: S0091-6749(17)30030-1. doi: 10.1016/j.jaci.2016.10.052. [Epub ahead of print] PubMed PMID: 28089873.

123. Lee-Sarwar KA, **Bacharier LB**, Litonjua AA. Strategies to alter the natural history of childhood asthma. *Curr Opin Allergy Clin Immunol*. 2017 Apr;17(2):139-145. doi: 10.1097/ACI.0000000000000340. PubMed PMID: 28079559.
124. Wolsk HM, Harshfield BJ, Laranjo N, Carey VJ, O'Connor G, Sandel M, Strunk RC, **Bacharier LB**, Zeiger RS, Schatz M, Hollis BW, Weiss ST, Litonjua AA. Vitamin D supplementation in pregnancy, prenatal 25(OH)D levels, race, and subsequent asthma or recurrent wheeze in offspring: Secondary analyses from the Vitamin D Antenatal Asthma Reduction Trial. *J Allergy Clin Immunol*. 2017 Mar 9. pii:S0091-6749(17)30217-8. doi: 10.1016/j.jaci.2017.01.013. [Epub ahead of print] PubMed PMID: 28285844.
125. Ehlers A, Xie W, Agapov E, Brown S, Steinberg D, Tidwell R, Sajol G, Schutz R, Weaver R, Yu H, Castro M, **Bacharier LB**, Wang X, Holtzman MJ, Haspel JA. BMAL1 links the circadian clock to viral airway pathology and asthma phenotypes. *Mucosal Immunol*. 2017 Apr 12. doi: 10.1038/mi.2017.24. [Epub ahead of print] PubMed PMID: 28401936.
126. Kwong CG, **Bacharier LB**. Microbes and the Role of Antibiotic Treatment for Wheezy Lower Respiratory Tract Illnesses in Preschool Children. *Curr Allergy Asthma Rep*. 2017 May;17(5):34. doi: 10.1007/s11882017-0701-6. Review. PubMed PMID: 28456910.
127. Mirzakhani H, O'Connor G, **Bacharier LB**, Zeiger RS, Schatz MX, Weiss ST, Litonjua AA. Asthma control status in pregnancy, body mass index, and maternal vitamin D levels. *J Allergy Clin Immunol*. 2017 Jun 9. pii: S0091-6749(17)30928-4. doi: 10.1016/j.jaci.2017.03.053. [Epub ahead of print] PubMed PMID: 28606587.
128. Savage JH, Lee-Sarwar KA, Sordillo J, Bunyavanich S, Zhou Y, O'Connor G, Sandel M, **Bacharier L**, Zeiger R, Sodergren E, Weinstock GM, Gold DR, Weiss ST, Litonjua AA. A prospective microbiomewide association study of food sensitization and food allergy in early childhood. *Allergy*. 2017 Jun 20. doi: 10.1111/all.13232. [Epub ahead of print] PubMed PMID: 28632934.
129. Ramratnam SK, **Bacharier LB**, Guilbert TW. Severe Asthma in Children. *J Allergy Clin Immunol Pract*. 2017 Jul - Aug;5(4):889-898. doi: 10.1016/j.jaip.2017.04.031. PubMed PMID: 28689839.
130. Teague WG, Phillips BR, Fahy JV, Wenzel SE, Fitzpatrick AM, Moore WC, Hastie AT, Bleecker ER, Meyers DA, Peters SP, Castro M, Coverstone AM, **Bacharier LB**, Ly NP, Peters MC, Denlinger LC, Ramratnam S, Sorkness RL, Gaston BM, Erzurum SC, Comhair SAA, Myers RE, Zein J, DeBoer MD, Irani AM, Israel E, Levy B, Cardet JC, Phipatanakul W, Gaffin JM, Holguin F, Fajt ML, Aujla SJ, Mauger DT, Jarjour NN. Baseline Features of the Severe Asthma Research Program (SARP III) Cohort: Differences with Age. *J Allergy Clin Immunol Pract*. 2017 Aug 30. pii: S2213-2198(17)30526-3. doi: 10.1016/j.jaip.2017.05.032. [Epub ahead of print] PubMed PMID: 28866107.
131. Rota AP, **Bacharier LB**, Jaffee K, Visness CM, Kattan M, O'Connor GT, Wood RA, Gergen PJ, Gern JE, Bloomberg GR. Screen Time Engagement Is Increased in Urban Children With Asthma. *Clin Pediatr (Phila)*. 2017 Oct;56(11):1048-1053. doi: 10.1177/0009922817698801. Epub 2017 Mar 20. PubMed PMID: 28871879.

132. Mirzakhani H, Carey VJ, McElrath TF, Laranjo N, O'Connor G, Iverson RE, Lee-Parritz A, Strunk RC, **Bacharier LB**, Macones GA, Zeiger RS, Schatz M, Hollis BW, Litonjua AA, Weiss ST. The Association of Maternal Asthma and Early Pregnancy Vitamin D with Risk of Preeclampsia: An Observation From Vitamin D Antenatal Asthma Reduction Trial (VDAART). *J Allergy Clin Immunol Pract*. 2017 Sep 8. pii: S2213-2198(17)30543-3. doi: 10.1016/j.jaip.2017.07.018. [Epub ahead of print] PubMed PMID: 28923490.
133. O'Connor GT, Lynch SV, Bloomberg GR, Kattan M, Wood RA, Gergen PJ, Jaffee KF, Calatroni A, **Bacharier LB**, Beigelman A, Sandel MT, Johnson CC, Faruqi A, Santee C, Fujimura KE, Fadrosch D, Boushey H, Visness CM, Gern JE. Early-life home environment and risk of asthma among inner-city children. *J Allergy Clin Immunol*. 2017 Sep 12. pii: S0091-6749(17)31204-6. doi: 10.1016/j.jaci.2017.06.040. [Epub ahead of print] PubMed PMID: 28939248.
134. Lee-Sarwar K, Hauser R, Calafat AM, Ye X, O'Connor GT, Sandel M, **Bacharier LB**, Zeiger RS, Laranjo N, Gold DR, Weiss ST, Litonjua AA, Savage JH. Prenatal and Early Life Triclosan and Parabens Exposure and Allergic Outcomes. *J Allergy Clin Immunol*. 2017 Oct 27. pii: S0091-6749(17)31652-4. doi: 10.1016/j.jaci.2017.09.029. [Epub ahead of print] PubMed PMID: 29111213.
135. Lang JE, Fitzpatrick AM, Mauger DT, Guilbert TW, Jackson DJ, Lemanske RF Jr, Martinez FD, Strunk RC, Zeiger RS, Phipatanakul W, **Bacharier LB**, Pongracic JA, Holguin F, Cabana MD, Covar RA, Raissy HH, Tang M, Szeffler SJ; National Institutes of Health/National Heart, Lung and Blood Institute AsthmaNet. Overweight/obesity status in preschool children associates with worse asthma but robust improvement on inhaled corticosteroids. *J Allergy Clin Immunol*. 2017 Dec 8. pii: S0091-6749(17)317384. doi: 10.1016/j.jaci.2017.09.043. [Epub ahead of print] PubMed PMID: 29273557.
136. Altman MC, Whalen E, Togias A, O'Connor GT, **Bacharier LB**, Bloomberg GR, Kattan M, Wood RA, Presnell S, LeBeau P, Jaffee K, Visness CM, Busse WW, Gern JE. Allergen induced activation of NK cells represents an early life immune response in development of allergic asthma. *J Allergy Clin Immunol*. 2018 Mar 5. pii: S0091-6749(18)30307-5. doi: 10.1016/j.jaci.2018.02.019. [Epub ahead of print] PubMed PMID: 29518416.
137. Jackson DJ, **Bacharier LB**, Mauger DT, Boehmer S, Beigelman A, Chmiel JF, Fitzpatrick AM, Gaffin JM, Morgan WJ, Peters SP, Phipatanakul W, Sheehan WJ, Cabana MD, Holguin F, Martinez FD, Pongracic JA, Baxi SN, Benson M, Blake K, Covar R, Gentile DA, Israel E, Krishnan JA, Kumar HV, Lang JE, Lazarus SC, Lima JJ, Long D, Ly N, Marbin J, Moy JN, Myers RE, Olin JT, Raissy HH, Robison RG, Ross K, Sorkness CA, Lemanske RF Jr.; National Heart, Lung, and Blood Institute AsthmaNet. Quintupling Inhaled Glucocorticoids to Prevent Childhood Asthma Exacerbations. *N Engl J Med*. 2018 Mar 8;378(10):891-901. doi:10.1056/NEJMoa1710988. Epub 2018 Mar 3. PubMed PMID: 29504498.
138. Coverstone AM, Wilson BS, Burgdorf D, Schechtman KB, Storch GA, Holtzman MJ, Castro M, **Bacharier LB**, Sumino K. Recurrent Wheezing in Children Following Human Metapneumovirus Infection. *J Allergy Clin Immunol*. 2018 Feb 23. pii: S0091-6749(18)30293-8. doi: 10.1016/j.jaci.2018.02.008. [Epub ahead of print] PubMed PMID: 29481834.
139. Kattan M, **Bacharier LB**, O'Connor GT, Cohen R, Sorkness RL, Morgan W, Gergen PJ, Jaffee KF, Visness CM, Wood RA, Bloomberg GR, Doyle S, Burton R, Gern JE. Spirometry and Impulse

- Oscillometry in Preschool Children: Acceptability and Relationship to Maternal Smoking in Pregnancy. *J Allergy Clin Immunol Pract.* 2018 Feb 13. pii: S2213-2198(18)30015-1. doi: 10.1016/j.jaip.2017.12.028. [Epub ahead of print] PubMed PMID: 29449165.
140. Chandra S, Wingender G, Greenbaum JA, Khurana A, Gholami AM, Ganesan AP, Rosenbach M, Jaffee K, Gern JE, Wood R, O'Connor G, Sandel M, Kattan M, **Bacharier L**, Togias A, Horner AA, Kronenberg M. Development of Asthma in Inner-City Children: Possible Roles of MAIT Cells and Variation in the Home Environment. *J Immunol.* 2018 Mar 15;200(6):1995-2003. doi: 10.4049/jimmunol.1701525. Epub 2018 Feb 5. PubMed PMID: 29431692; PubMed Central PMCID: PMC5840005.
141. Willen SM, Rodeghier M, Strunk RC, **Bacharier LB**, Rosen CL, Kirkham FJ, DeBaun MR, Cohen RT. Aeroallergen sensitization predicts acute chest syndrome in children with sickle cell anaemia. *Br J Haematol.* 2018 Feb;180(4):571-577. doi:10.1111/bjh.15076. Epub 2018 Jan 24. PubMed PMID: 29363738.
142. Chipps BE, **Bacharier LB**, Farrar JR, Jackson DJ, Murphy KR, Phipatanakul WG, Szeffler SJ, Teague WG, Zeiger RS. The pediatric asthma yardstick: practical recommendations for a sustained step-up in asthma therapy for children with inadequately controlled asthma. *Ann Allergy Asthma Immunol.* 2018 Apr 10; Jun;120(6):559-579. pii:S1081-1206(18)30253-9. doi: 10.1016/j.anai.2018.04.002. PubMed PMID: 29653238.
143. DeBoer MD, Phillips BR, Mauger DT, Zein J, Erzurum SC, Fitzpatrick AM, Gaston BM, Myers R, Ross KR, Chmiel J, Lee MJ, Fahy JV, Peters M, Ly NP, Wenzel SE, Fajt ML, Holguin F, Moore WC, Peters SP, Meyers D, Bleecker ER, Castro M, Coverstone AM, **Bacharier LB**, Jarjour NN, Sorkness RL, Ramratnam S, Irani AM, Israel E, Levy B, Phipatanakul W, Gaffin JM, Gerald Teague W. Effects of endogenous sex hormones on lung function and symptom control in adolescents with asthma. *BMC Pulm Med.* 2018 Apr 10;18(1):58. doi: 10.1186/s12890-018-0612-x. PubMed PMID: 29631584; PubMed Central PMCID: PMC5891903.
144. Dy T, Lewis EM, Murugan V, Gehlert S, Taylor J, Garbutt J, **Bacharier LB**, Castro M, Sumino K. Caregiver and pediatric provider perspectives on symptom-based inhaled corticosteroid therapy in asthma. *Respir Med.* 18 Apr;137:201-205. doi: 10.1016/j.rmed.2018.03.001. Epub 2018 Mar 5. PubMed PMID: 29605205.
145. Lee-Sarwar K, Kelly RS, Lasky-Su J, Moody DB, Mola AR, Cheng TY, Comstock LE, Zeiger RS, O'Connor GT, Sandel MT, **Bacharier LB**, Beigelman A, Laranjo N, Gold DR, Bunyavanich S, Savage JH, Weiss ST, Brennan PJ, Litonjua AA. Intestinal microbial-derived sphingolipids are inversely associated with childhood food allergy. *J Allergy Clin Immunol.* 2018 May 2. pii: S0091-6749(18)30628-6. doi:10.1016/j.jaci.2018.04.016. [Epub ahead of print] PubMed PMID: 29729303.
146. Krishnan S, Dozor AJ, **Bacharier L**, Lang JE, Irvin CG, Kaminsky D, Farber HJ, Gerald L, Brown M, Holbrook JT, Wise RA, Ryu J, Bose S, Razan Y, Saams J, Henderson RJ, Teague WG. Clinical characterization of children with resistant airflow obstruction, a multicenter study. *J Asthma.* 2018 May 17:1-25. doi:10.1080/02770903.2018.1477956. [Epub ahead of print] PubMed PMID: 29771599.
147. Jackson DJ, **Bacharier LB**, Lemanske RF Jr. Inhaled Glucocorticoids in Asthma. *N Engl J Med.* 2018 May 24;378(21):2051. doi: 10.1056/NEJMc1804801. PubMed PMID: 29791825.

148. **Bacharier LB**, Covar RA, Haselkorn T, Iqbal A, Alvarez C, Mink DR, Chen H, Zeiger RS. Consistently Very Poorly Controlled Asthma is Associated with Greater Activity and School Impairment in Children with Severe or Difficult-to-Treat Asthma. *J Allergy Clin Immunol Pract*. 2018 Jun 5. pii: S2213-2198(18)30348-9. doi: 10.1016/j.jaip.2018.05.026. [Epub ahead of print] PubMed PMID: 29883753.
149. **Bacharier LB**, Beigelman A, Calatroni A, Jackson DJ, Gergen PJ, O'Connor GT, Kattan M, Wood RA, Sandel MT, Lynch SV, Fujimura KE, Fadrosch DW, Santee CA, Boushey H, Visness CM, Gern JE; NIAID sponsored Inner-City Asthma Consortium. Longitudinal Phenotypes of Respiratory Health in a High-Risk Urban Birth Cohort. *Am J Respir Crit Care Med*. 2018 Aug 4. doi: 10.1164/rccm.201801-0190OC. [Epub ahead of print] PubMed PMID: 30079758.
150. Lee-Sarwar K, Kelly RS, Lasky-Su J, Kachroo P, Zeiger RS, O'Connor GT, Sandel MT, **Bacharier LB**, Beigelman A, Laranjo N, Gold DR, Weiss ST, Litonjua AA. Dietary and plasma polyunsaturated fatty acids are inversely associated with asthma and atopy in early childhood. *J Allergy Clin Immunol Pract*. 2018 Aug 23. pii: S2213-2198(18)30515-4. doi: 10.1016/j.jaip.2018.07.039. [Epub ahead of print] PubMed PMID: 30145365.
151. Fitzpatrick AM, **Bacharier LB**, Guilbert TW, Jackson DJ, Szeffler SJ, Beigelman A, Cabana MD, Covar R, Holguin F, Lemanske RF Jr, Martinez FD, Morgan W, Phipatanakul W, Pongratic JA, Zeiger RS, Mauger DT; NIH/NHLBI AsthmaNet. Phenotypes of Recurrent Wheezing in Preschool Children: Identification by Latent Class Analysis and Utility in Prediction of Future Exacerbation. *J Allergy Clin Immunol Pract*. 2018 Sep 26. pii: S2213-2198(18)30593-2. doi: 10.1016/j.jaip.2018.09.016. [Epub ahead of print] PubMed PMID: 30267890.
152. Cardet JC, Codispoti CD, King TS, **Bacharier L**, Carr T, Castro M, Chinchilli V, Dunn R, Holquing F, Engle L, Nelson K, Ortega VE, Peters M, Ramratnam S, Krishnan JA, Wechsler ME, Israel E; National Heart, Lung, and Blood Institute Asthmanet. Predictors of inhaled corticosteroid taper failure in adults with asthma. *J Allergy Clin Immunol Pract*. 2018 Sep 19. pii: S2213-2198(18)30581-6. doi: 10.1016/j.jaip.2018.05.039. [Epub ahead of print] PubMed PMID: 30240889.
153. Savage JH, Lee-Sarwar KA, Sordillo JE, Lange NE, Zhou Y, O'Connor GT, Sandel M, **Bacharier LB**, Zeiger R, Sodergren E, Weinstock GM, Gold DR, Weiss ST, Litonjua AA. Diet during Pregnancy and Infancy and the Infant Intestinal Microbiome. *J Pediatr*. 2018 Aug 30. pii: S0022-3476(18)30975-2. doi: 10.1016/j.jpeds.2018.07.066. [Epub ahead of print] PubMed PMID: 30173873
154. Glesner J, Filep S, Vailes LD, Wünschmann S, Chapman MD, Birrueta G, Frazier A, Jeong KY, Schal C, **Bacharier L**, Beigelman A, Busse P, Schulten V, Sette A, Pomés A. Allergen content in German cockroach extracts and sensitization profiles to a new expanded set of cockroach allergens determine in vitro extract potency for IgE reactivity. *J Allergy Clin Immunol*. 2018 Aug 28. pii: S0091-6749(18)31204-1. doi: 10.1016/j.jaci.2018.07.036. [Epub ahead of print] PubMed PMID: 30170124.
155. Mirzakhani H, Carey VJ, McElrath TF, Qiu W, Hollis BW, O'Connor GT, Zeiger RS, **Bacharier L**, Litonjua AA, Weiss ST. Impact of Preeclampsia on the Relationship of Maternal Asthma with Offspring Asthma: An Observation from the VDAART Clinical Trial. *Am J Respir Crit Care Med*. 2018 Aug 28. doi:

- 10.1164/rccm.201804-0770OC. [Epub ahead of print] PubMed PMID: 30153046.
156. Karvonen AM, Sordillo JE, Gold DR, **Bacharier LB**, O'Connor GT, Zeiger RS, Beigelman A, Weiss ST, Litonjua AA. Gut microbiota and overweight in 3-year old children. *Int J Obes (Lond)*. 2018 Dec 19. doi: 10.1038/s41366-018-0290-z. [Epub ahead of print] PubMed PMID: 30568265.
157. Chipps BE, **Bacharier LB**, Murphy KR, Lang D, Farrar JR, Rank M, Oppenheimer J, Zeiger RS. The Asthma Controller Step-down Yardstick. *Ann Allergy Asthma Immunol*. 2018 Dec 11. pii: S10811206(18)31504-7. doi: 10.1016/j.anai.2018.12.004. [Epub ahead of print] PubMed PMID: 30550809.
158. Lang JE, Bunnell HT, Hossain MJ, Wysocki T, Lima JJ, Finkel TH, **Bacharier L**, Dempsey A, Sarzynski L, Test M, Forrest CB. Being Overweight or Obese and the Development of Asthma. *Pediatrics*. 2018 Dec;142(6). pii: e20182119. doi:10.1542/peds.2018-2119. PubMed PMID: 30478238.
159. Mirzakhani H, Carey VJ, Zeiger R, **Bacharier LB**, O'Connor GT, Schatz MX, Laranjo N, Weiss ST, Litonjua AA. Impact of Parental Asthma, Prenatal Maternal Asthma Control and Vitamin D Status on Risk of Asthma and Recurrent Wheeze in 3-Year Old Children. *Clin Exp Allergy*. 2018 Nov 21. doi: 10.1111/cea.13320. [Epub ahead of print] PubMed PMID: 30461089.
160. Togias A, Gergen PJ, Hu JW, Babineau DC, Wood RA, Cohen RT, Makhija MM, Khurana Hershey GK, Kercsmar CM, Gruchalla RS, Liu AH, Wang E, Kim H, Lamm CI, **Bacharier LB**, Pillai D, Sigelman SM, Gern JE, Busse WW. Rhinitis in children and adolescents with asthma: Ubiquitous, difficult to control, and associated with asthma outcomes. *J Allergy Clin Immunol*. 2018 Sep 11. pii: S0091-6749(18)31282-X. doi: 10.1016/j.jaci.2018.07.041. [Epub ahead of print] PubMed PMID: 30213627.
161. Wheatley LM, Wood R, Nadeau K, Liu A, Zoratti E, **Bacharier L**, Brittain E, Calderon M, Casale T, Chipps B, Cox L, Creticos PS, Desai M, Dreborg S, Durham S, Gergen PJ, Gruchalla R, Nelson H, O'Hehir RE, Plaut M, Schwaninger JM, Tilles S, Vickery B, Wittenberg KM, Togias A. Mind the gaps: clinical trial concepts to address unanswered questions in aeroallergen immunotherapy. An NIAID/AHRQ Workshop. *J Allergy Clin Immunol*. 2019 Feb 4. pii: S0091-6749(19)30189-7. doi:10.1016/j.jaci.2019.01.032. [Epub ahead of print] PubMed PMID: 30731123.
162. Guilbert TW, **Bacharier LB**, Mauger DT, Phipatanakul W, Szeffler SJ, Boehmer S, Beigelman A, Fitzpatrick AM, Jackson DJ, Baxi SN, Benson M, Burnham CD, Cabana MD, Castro M, Chmiel JF, Covar R, Daines M, Gaffin JM, Gentile DA, Holguin F, Israel E, Kelly HW, Lazarus SC, Lemanske RF Jr, Ly N, Meade K, Morgan W, Moy J, Olin JT, Peters SP, Pongratic JA, Raissy HH, Ross K, Sheehan WJ, Sorkness C, Teague WG, Thyne S, Martinez FD; National Heart, Lung, and Blood Institute's AsthmaNet. Challenges in assessing the efficacy of systemic corticosteroids for severe wheezing episodes in preschool children. *J Allergy Clin Immunol*. 2019 Jan 17. pii: S0091-6749(19)30032-6. doi: 10.1016/j.jaci.2018.10.071. [Epub ahead of print] PubMed PMID: 30660645.
163. Kwong CG, **Bacharier LB**. Phenotypes of wheezing and asthma in preschool children. *Curr Opin Allergy Clin Immunol*. 2019 Jan 10. doi: 10.1097/ACI.0000000000000516. [Epub ahead of print] PubMed PMID: 30640211.

164. Fitzpatrick AM, Gillespie SE, Mauger DT, Phillips BR, Bleecker ER, Israel E, Meyers DA, Moore WC, Sorkness RL, Wenzel SE, **Bacharier LB**, Castro M, Denlinger LC, Erzurum SC, Fahy JV, Gaston BM, Jarjour NN, Larkin A, Levy BD, Ly NP, Ortega VE, Peters SP, Phipatanakul W, Ramratnam S, Teague WG. Racial disparities in asthma-related health care use in the National Heart, Lung, and Blood Institute's Severe Asthma Research Program. *J Allergy Clin Immunol*. 2019 Jan 8. pii:S0091-6749(18)31732-9. doi: 10.1016/j.jaci.2018.11.022. [Epub ahead of print] PubMed PMID: 30635198.
165. Kitcharoensakkul M, Kau AL, **Bacharier LB**, Goss CW, Beigelman A. Using only a subset of pneumococcal serotypes is reliable for the diagnosis of specific antibody deficiency in children: A proof-of-concept study. *Pediatr Allergy Immunol*. 2019 Jan 25. doi: 10.1111/pai.13026. [Epub ahead of print] PubMed PMID: 30681739.
166. Schulten V, Frazier A, Calatroni A, Kattan M, **Bacharier LB**, O'Connor GT, Sandel MT, Wood RA, Wheatley LM, Togias A, Visness CM, Dresen A, Gern JE, Sette A. The association of allergic sensitization patterns in early childhood with disease manifestations and immunological reactivity at 10 years of age. *Clin Exp Allergy*. 2019 May 2. doi: 10.1111/cea.13406. [Epub ahead of print] PubMed PMID: 31046157.
167. Altman MC, Gill MA, Whalen E, Babineau DC, Shao B, Liu AH, Jepson B, Gruchalla RS, O'Connor GT, Pongratic JA, Kercksmar CM, Khurana Hershey GK, Zoratti EM, Johnson CC, Teach SJ, Kattan M, **Bacharier LB**, Beigelman A, Sigelman SM, Presnell S, Gern JE, Gergen PJ, Wheatley LM, Togias A, Busse WW, Jackson DJ. Transcriptome networks identify mechanisms of viral and nonviral asthma exacerbations in children. *Nat Immunol*. 2019 May;20(5):637-651. doi: 10.1038/s41590-019-0347-8. Epub 2019 Apr 8. PubMed PMID: 30962590; PubMed Central PMCID: PMC6472965.
168. Lee-Sarwar KA, Kelly RS, Lasky-Su J, Zeiger RS, O'Connor GT, Sandel MT, **Bacharier LB**, Beigelman A, Laranjo N, Gold DR, Weiss ST, Litonjua AA. Integrative analysis of the intestinal metabolome of childhood asthma. *J Allergy Clin Immunol*. 2019 Mar 23. pii: S0091-6749(19)30406-3. doi: 10.1016/j.jaci.2019.02.032. [Epub ahead of print] PubMed PMID: 30914378.
169. Sordillo JE, Korrick S, Laranjo N, Carey V, Weinstock GM, Gold DR, O'Connor G, Sandel M, **Bacharier LB**, Beigelman A, Zeiger R, Litonjua AA, Weiss ST. Association of the Infant Gut Microbiome With Early Childhood Neurodevelopmental Outcomes: An Ancillary Study to the VDAART Randomized Clinical Trial. *JAMA Netw Open*. 2019 Mar 1;2(3):e190905. doi: 10.1001/jamanetworkopen.2019.0905. PubMed PMID: 30901046.
170. Birrueta G, Frazier A, Pomés A, Glesner J, Filep S, Schal C, Jeong KY, McMurtrey C, Vander Schans T, Hildebrand WH, Busse P, Beigelman A, **Bacharier LB**, Peters B, Sette A, Schulten V. Variability in German Cockroach Extract Composition Greatly Impacts T Cell Potency in Cockroach-Allergic Donors. *Front Immunol*. 2019 Feb 27;10:313. doi: 10.3389/fimmu.2019.00313. eCollection 2019. PubMed PMID: 30891032; PubMed Central PMCID: PMC6413722.
171. Wheatley LM, Wood R, Nadeau K, Liu A, Zoratti E, **Bacharier L**, Brittain E, Calderon M, Casale T, Chipps B, Cox L, Creticos PS, Desai M, Dreborg S, Durham S, Gergen PJ, Gruchalla R, Nelson H, O'Hehir RE, Plaut M, Schwaninger JM, Tilles S, Vickery B, Wittenberg KM, Togias A. Mind the gaps: Clinical trial

- concepts to address unanswered questions in aeroallergen immunotherapy-An NIAID/AHRQ Workshop. *J Allergy Clin Immunol*. 2019 Feb 5. pii: S0091-6749(19)30189-7. doi:10.1016/j.jaci.2019.01.032. [Epub ahead of print] PubMed PMID: 30731123.
172. Reddel HK, FitzGerald JM, Bateman ED, **Bacharier LB**, Becker A, Brusselle G, Buhl R, Cruz AA, Fleming L, Inoue H, Ko FW, Krishnan JA, Levy ML, Lin J, Pedersen SE, Sheikh A, Yorgancioglu A, Boulet LP. GINA 2019: a fundamental change in asthma management: Treatment of asthma with shortacting bronchodilators alone is no longer recommended for adults and adolescents. *Eur Respir J*. 2019 Jun 27;53(6). pii: 1901046. doi: 10.1183/13993003.01046-2019. Print 2019 Jun. PubMed PMID: 31249014.
173. Pomés A, Glesner J, Calatroni A, Visness CM, Wood RA, O'Connor GT, Kattan M, **Bacharier LB**, Wheatley LM, Gern JE, Busse WW; NIAID-funded Inner-City Asthma Consortium. Cockroach allergen component analysis of children with or without asthma and rhinitis in an inner-city birth cohort. *J Allergy Clin Immunol*. 2019 Jun 12. pii: S0091-6749(19)30759-6. doi: 10.1016/j.jaci.2019.05.036. [Epub ahead of print] PubMed PMID: 31201891.
174. Gern JE, Jackson DJ, Lemanske RF Jr, Seroogy CM, Tachinardi U, Craven M, Hwang SY, Hamilton CM, Huggins W, O'Connor GT, Gold DR, Miller R, Kattan M, Johnson CC, Ownby D, Zoratti EM, Wood RA, Visness CM, Martinez F, Wright A, Lynch S, Ober C, Khurana Hershey GK, Ryan P, Hartert T, **Bacharier LB**. The Children's Respiratory and Environmental Workgroup (CREW) birth cohort consortium: design, methods, and study population. *Respir Res*. 2019 Jun 10;20(1):115. doi: 10.1186/s12931-019-1088-9. PubMed PMID: 31182091; PubMed Central PMCID: PMC6558735.
175. Lazarus SC, Krishnan JA, King TS, Lang JE, Blake KV, Covar R, Lugogo N, Wenzel S, Chinchilli VM, Mauger DT, Dyer AM, Boushey HA, Fahy JV, Woodruff PG, **Bacharier LB**, Cabana MD, Cardet JC, Castro M, Chmiel J, Denlinger L, DiMango E, Fitzpatrick AM, Gentile D, Hastie A, Holguin F, Israel E, Jackson D, Kraft M, LaForce C, Lemanske RF Jr, Martinez FD, Moore W, Morgan WJ, Moy JN, Myers R, Peters SP, Phipatanakul W, Pongratic JA, Que L, Ross K, Smith L, Szeffler SJ, Wechsler ME, Sorkness CA; National Heart, Lung, and Blood Institute AsthmaNet. Mometasone or Tiotropium in Mild Asthma with a Low Sputum Eosinophil Level. *N Engl J Med*. 2019 May 23;380(21):2009-2019. doi: 10.1056/NEJMoa1814917. Epub 2019 May 19. PubMed PMID: 31112384.
176. Krings JG, McGregor MC, **Bacharier LB**, Castro M. Biologics for Severe Asthma: Treatment-Specific Effects Are Important in Choosing a Specific Agent. *J Allergy Clin Immunol Pract*. 2019 May - Jun;7(5):1379-1392. doi: 10.1016/j.jaip.2019.03.008. Review. PubMed PMID: 31076056.
177. Mirzakhani H, Carey VJ, McElrath TF, Hollis BW, O'Connor GT, Zeiger RS, **Bacharier L**, Litonjua AA, Weiss ST. Maternal Asthma, Preeclampsia and Risk of Childhood Asthma at Age Six. *Am J Respir Crit Care Med*. 2019 May 6. doi: 10.1164/rccm.201901-0081LE. [Epub ahead of print] PubMed PMID: 31059286.
178. Sumino K, **Bacharier LB**, Taylor J, Chadwick-Mansker K, Curtis V, Nash A, Jackson-Triggs S, Moen J, Schechtman KB, Garbutt J, Castro M. A Pragmatic Trial of Symptom-Based Inhaled Corticosteroid Use in African-American Children with Mild Asthma. *J Allergy Clin Immunol Pract*. 2019 Jul 29. pii: S22132198(19)30602-6. doi: 10.1016/j.jaip.2019.06.030. [Epub ahead of print] PubMed PMID: 31371165.

179. Wechsler ME, Szeffler SJ, Ortega VE, Pongracic JA, Chinchilli V, Lima JJ, Krishnan JA, Kunselman SJ, Mauger D, Bleecker ER, **Bacharier LB**, Beigelman A, Benson M, Blake KV, Cabana MD, Cardet JC, Castro M, Chmiel JF, Covar R, Denlinger L, DiMango E, Fitzpatrick AM, Gentile D, Grossman N, Holguin F, Jackson DJ, Kumar H, Kraft M, LaForce CF, Lang J, Lazarus SC, Lemanske RF Jr, Long D, Lugogo N, Martinez F, Meyers DA, Moore WC, Moy J, Naureckas E, Olin JT, Peters SP, Phipatanakul W, Que L, Raissy H, Robison RG, Ross K, Sheehan W, Smith LJ, Solway J, Sorkness CA, Sullivan-Vedder L, Wenzel S, White S, Israel E; NHLBI AsthmaNet. Step-Up Therapy in Black Children and Adults with Poorly Controlled Asthma. *N Engl J Med*. 2019 Sep 26;381(13):1227-1239. doi: 10.1056/NEJMoa1905560. PubMed PMID: 31553835.
180. Kanchongkittiphon W, Kabil N, **Bacharier LB**, Kitcharoensakkul M. Ecallantide: An Alternative Treatment of Refractory Angioedema in Adolescents with Systemic Lupus Erythematosus. *J Allergy Clin Immunol Pract*. 2019 Sep 18. pii: S2213-2198(19)30777-9. doi: 10.1016/j.jaip.2019.08.052. [Epub ahead of print] PubMed PMID: 31541765.
181. Grossman NL, Ortega VE, King TS, Bleecker ER, Ampleford EA, **Bacharier LB**, Cabana MD, Cardet JC, Carr TF, Castro M, Denlinger LC, Denson JL, Fandino N, Fitzpatrick AM, Hawkins GA, Holguin F, Krishnan JA, Lazarus SC, Nyenhuis SM, Phipatanakul W, Ramratnam SK, Wenzel S, Peters SP, Meyers DA, Wechsler ME, Israel E. Exacerbation-Prone Asthma in the Context of Race and Ancestry in Asthma Clinical Research Network Trials. *J Allergy Clin Immunol*. 2019 Sep 11. pii: S0091-6749(19)31180-7. doi: 10.1016/j.jaci.2019.08.033. [Epub ahead of print] PubMed PMID: 31520679.
182. Lee-Sarwar KA, Kelly RS, Lasky-Su J, Zeiger RS, O'Connor GT, Sandel MT, **Bacharier LB**, Beigelman A, Rifas-Shiman SL, Carey VJ, Harshfield BJ, Laranjo N, Gold DR, Weiss ST, Litonjua AA. Fecal shortchain fatty acids in pregnancy and offspring asthma and allergic outcomes. *J Allergy Clin Immunol Pract*. 2019 Sep 5. pii: S2213-2198(19)30759-7. doi: 10.1016/j.jaip.2019.08.036. [Epub ahead of print] PubMed PMID: 31494295.
183. **Bacharier LB**, Mori A, Kita H. Advances in Asthma, ACO, and Related Biologics in 2018. *J Allergy Clin Immunol*. 2019 Aug 30. pii: S0091-6749(19)31114-5. doi: 10.1016/j.jaci.2019.08.021. [Epub ahead of print] PubMed PMID: 31476323.
184. Lang JE, Bunnell HT, Lima JJ, Hossain MJ, Wysocki T, **Bacharier L**, Dempsey A, Ulrich L, Test MR, Forrest CB. Effects of age, sex, race/ethnicity, and allergy status in obesity-related pediatric asthma. *Pediatr Pulmonol*. 2019 Aug 30. Doi 10.1002/ppul.24470. [Epub ahead of print] PubMed PMID: 31469258.
185. Coverstone AM, **Bacharier LB**, Wilson BS, Fitzpatrick AM, Teague WG, Phipatanakul W, Wenzel SE, Gaston BM, Bleecker ER, Moore WC, Ramratnam S, Jarjour NN, Ly NP, Fahy JV, Mauger DT, Schechtman KB, Yin-DeClue H, Boomer JS, Castro M. Clinical significance of the bronchodilator response in children with severe asthma. *Pediatr Pulmonol*. 2019 Aug 19. doi: 10.1002/ppul.24473. [Epub ahead of print] PubMed PMID: 31424170.
186. Fitzpatrick AM, Szeffler SJ, Mauger DT, Phillips BR, Denlinger LC, Moore WC, Sorkness RL, Wenzel SE,

- Gergen PJ, Bleecker ER, Castro M, Erzurum SC, Fahy JV, Gaston BM, Israel E, Levy BD, Meyers DA, Teague WG, **Bacharier LB**, Ly NP, Phipatanakul W, Ross KR, Zein J, Jarjour NN. Development and initial validation of the Asthma Severity Scoring System (ASSESS). *J Allergy Clin Immunol*. 2019 Oct 8. pii: S0091-6749(19)31254-0. doi: 10.1016/j.jaci.2019.09.018. [Epub ahead of print] PubMed PMID: 31604088.
187. Ross KR, Gupta R, DeBoer MD, Zein J, Phillips BR, Mauger DT, Li C, Myers RE, Phipatanakul W, Fitzpatrick AM, Ly NP, **Bacharier LB**, Jackson DJ, Celedón JC, Larkin A, Israel E, Levy B, Fahy JV, Castro M, Bleecker ER, Meyers D, Moore WC, Wenzel SE, Jarjour NN, Erzurum SC, Teague WG, Gaston B. Severe asthma during childhood and adolescence: A longitudinal study. *J Allergy Clin Immunol*. 2019 Oct 14. pii: S0091-6749(19)31318-1. doi: 10.1016/j.jaci.2019.09.030. [Epub ahead of print] PubMed PMID: 31622688.
188. Zhou Y, Jackson D, **Bacharier LB**, Mauger D, Boushey H, Castro M, Durack J, Huang Y, Lemanske RF Jr, Storch GA, Weinstock GM, Wylie K, Covar R, Fitzpatrick AM, Phipatanakul W, Robison RG, Beigelman A. The upper-airway microbiota and loss of asthma control among asthmatic children. *Nat Commun*. 2019 Dec 16;10(1):5714. doi: 10.1038/s41467-019-13698-x. PubMed PMID: 31844063; PubMed Central PMCID: PMC6915697.
189. Kitcharoensakkul M, **Bacharier LB**, Yin-Declue H, Boomer JS, Sajol G, Leung MK, Wilson B, Schechtman KB, Atkinson JP, Green JM, Castro M. Impaired tumor necrosis factor- α secretion by CD4 T cells during respiratory syncytial virus bronchiolitis associated with recurrent wheeze. *Immun Inflamm Dis*. 2020 Jan 4. doi: 10.1002/iid3.281. [Epub ahead of print] PubMed PMID: 31901157.
190. Pincheira MA, **Bacharier LB**, Castro-Rodriguez JA. Efficacy of Macrolides on Acute Asthma or Wheezing Exacerbations in Children with Recurrent Wheezing: A Systematic Review and Meta-analysis. *Paediatr Drugs*. 2020 Jan 14. doi:10.1007/s40272-019-00371-5. [Epub ahead of print] Review. PubMed PMID: 31939108.
191. Jackson DJ, **Bacharier LB**, Calatroni A, Gill MA, Hu J, Liu AH, Wheatley LM, Gern JE, Gruchalla RS, Khurana Hershey GK, Kattan M, Kerckmar CM, Kim H, O'Connor GT, Patel S, Pongratic JA, Wood RA, Busse WW; NIAID Inner City Asthma Consortium. Serum IL-6: A Biomarker in Childhood Asthma? *J Allergy Clin Immunol*. 2020 Jan 28. pii: S0091-6749(20)30110-X. doi: 10.1016/j.jaci.2020.01.021. [Epub ahead of print] PubMed PMID: 32004524.
192. Litonjua AA, Carey VJ, Laranjo N, Stubbs BJ, Mirzakhani H, O'Connor GT, Sandel M, Beigelman A, **Bacharier LB**, Zeiger RS, Schatz M, Hollis BW, Weiss ST. Six-Year Follow-up of a Trial of Antenatal Vitamin D for Asthma Reduction. *N Engl J Med*. 2020 Feb 6;382(6):525-533. doi: 10.1056/NEJMoa1906137. PubMed PMID: 32023372.
193. Stokes JR, **Bacharier LB**. Prevention and Treatment of Recurrent Viral-Induced Wheeze in the Preschool Child. *Ann Allergy Asthma Immunol*. 2020 May 23:S1081-1206(20)30353-7. doi: 10.1016/j.anai.2020.05.018. Epub ahead of print. PMID: 32454096.

194. Ober C, McKennan CG, Magnaye KM, Altman MC, Washington C 3rd, Stanhope C, Naughton KA, Rosasco MG, **Bacharier LB**, Billheimer D, Gold DR, Gress L, Hartert T, Havstad S, Khurana Hershey GK, Hallmark B, Hogarth DK, Jackson DJ, Johnson CC, Kattan M, Lemanske RF, Lynch SV, Mendonca EA, Miller RL, Naureckas ET, O'Connor GT, Seroogy CM, Wegienka G, White SR, Wood RA, Wright AL, Zoratti EM, Martinez FD, Ownby D, Nicolae DL, Levin AM, Gern JE; Environmental Influences on Child Health Outcomes-Children's Respiratory Research Workgroup. Expression quantitative trait locus fine mapping of the 17q12-21 asthma locus in African American children: a genetic association and gene expression study. *Lancet Respir Med*. 2020 May;8(5):482-492. doi: 10.1016/S2213-2600(20)30011-4. PMID: 32380068.
195. Jackson DJ, Busse WW, **Bacharier LB**, Kattan M, O'Connor GT, Wood RA, Visness CM, Durham SR, Larson D, Esnault S, Ober C, Gergen PJ, Becker P, Togias A, Gern JE, Altman MC. Association of respiratory allergy, asthma, and expression of the SARS-CoV-2 receptor ACE2. *J Allergy Clin Immunol*. 2020 Apr 22:S0091-6749(20)30551-0. doi: 10.1016/j.jaci.2020.04.009. Epub ahead of print. PMID: 32333915; PMCID: PMC7175851.
196. He M, Mirzakhani H, Chen L, Wu R, Litonjua AA, **Bacharier L**, Weiss ST, Nelson DM. Vitamin D Sufficiency Has a Limited Effect on Placental Structure and Pathology: Placental Phenotypes in the VDAART Trial. *Endocrinology*. 2020 Jun 1;161(6):bqaa057. doi: 10.1210/endo/bqaa057. PMID: 32270179.
197. Fitzpatrick AM, **Bacharier LB**, Jackson DJ, Szeffler SJ, Beigelman A, Cabana M, Covar R, Guilbert T, Holguin F, Lemanske RF, Martinez FD, Morgan W, Phipatanakul W, Pongratic JA, Raissy HH, Zeiger RS, Mauger DT. Heterogeneity of Mild to Moderate Persistent Asthma in Children: Confirmation by Latent Class Analysis and Association with 1-Year Outcomes. *J Allergy Clin Immunol Pract*. 2020 Mar 7:S2213-2198(20)30231-2. doi: 10.1016/j.jaip.2020.02.032. Epub ahead of print. PMID: 32156610.
198. Mathioudakis AG, Custovic A, Deschildre A, Ducharme FM, Kalayci O, Murray C, Garcia AN, Phipatanakul W, Price D, Sheikh A, Agache I, **Bacharier L**, Bonini M, Castro-Rodriguez JA, De Carlo G, Craig T, Diamant Z, Feleszko W, Ierodiakonou D, Gern JE, Grigg J, Hedlin G, Hossny EM, Jartti T, Kaplan A, Lemanske RF, Le Souef P, Makela MJ, Matricardi PM, Miligkos M, Morais-Almeida M, Pite H, Pitrez PMC, Pohunek P, Roberts G, Sanchez-Garcia S, Tsiligianni I, Turner S, Winders TA, Wong G, Xepapadaki P, Zar HJ, Papadopoulos NG. Research Priorities in Pediatric Asthma: Results of a Global Survey of Multiple Stakeholder Groups by the Pediatric Asthma in Real Life (PeARL) Think Tank. *J Allergy Clin Immunol Pract*. 2020 Mar 4:S2213-2198(20)30147-1. doi: 10.1016/j.jaip.2020.01.059. Epub ahead of print. PMID: 32146166.
199. Forno E, **Bacharier LB**, Phipatanakul W, Guilbert TW, Cabana MD, Ross K, Covar R, Gern JE, Rosser FJ, Blatter J, Durrani S, Han YY, Wisniewski SR, Celedón JC. Effect of Vitamin D3 Supplementation on Severe Asthma Exacerbations in Children With Asthma and Low Vitamin D Levels: The VDKA Randomized Clinical Trial. *JAMA*. 2020 Aug 25;324(8):752-760. doi: 10.1001/jama.2020.12384. PMID: 32840597.
200. Lu M, Litonjua AA, O'Connor GT, Zeiger RS, **Bacharier L**, Schatz M, Carey VJ, Weiss ST, Mirzakhani H. Effect of early and late prenatal vitamin D and maternal asthma status on offspring asthma or recurrent

- wheeze. *J Allergy Clin Immunol*. 2020 Aug 18:S0091-6749(20)31164-7. doi: 10.1016/j.jaci.2020.06.041. Epub ahead of print. PMID: 32822692.
201. Papadopoulos NG, Custovic A, Deschildre A, Mathioudakis AG, Phipatanakul W, Wong G, Xepapadaki P, Agache I, **Bacharier L**, Bonini M, Castro-Rodriguez JA, Chen Z, Craig T, Ducharme FM, El-Sayed ZA, Feleszko W, Fiocchi A, Garcia-Marcos L, Gern JE, Goh A, Gómez RM, Hamelmann EH, Hedlin G, Hossny EM, Jartti T, Kalayci O, Kaplan A, Konradsen J, Kuna P, Lau S, Le Souef P, Lemanske RF, Mäkelä MJ, Morais-Almeida M, Murray C, Nagaraju K, Namazova-Baranova L, Garcia AN, Yusuf OM, Pitrez PMC, Pohunek P, Pozo Beltrán CF, Roberts GC, Valiulis A, Zar HJ; Pediatric Asthma in Real Life Collaborators. Impact of COVID-19 on Pediatric Asthma: Practice Adjustments and Disease Burden. *J Allergy Clin Immunol Pract*. 2020 Jun 17:S2213-2198(20)30599-7. doi: 10.1016/j.jaip.2020.06.001. Epub ahead of print. PMID: 32561497; PMCID: PMC7297686.
202. McKennan C, Naughton K, Stanhope C, Kattan M, O'Connor GT, Sandel MT, Visness CM, Wood RA, **Bacharier LB**, Beigelman A, Lovinsky-Desir S, Togias A, Gern JE, Nicolae D, Ober C. Longitudinal data reveal strong genetic and weak non-genetic components of ethnicity-dependent blood DNA methylation levels. *Epigenetics*. 2020 Sep 30:1-15. doi: 10.1080/15592294.2020.1817290. Epub ahead of print. PMID: 32997571.
203. Ivanova A, Israel E, LaVange LM, Peters MC, Denlinger LC, Moore WC, **Bacharier LB**, Marquis MA, Gotman NM, Kosorok MR, Tomlinson C, Mauger DT, Georas SN, Wright RJ, Noel P, Rosner GL, Akuthota P, Billheimer D, Bleecker ER, Cardet JC, Castro M, DiMango EA, Erzurum SC, Fahy JV, Fajt ML, Gaston BM, Holguin F, Jain S, Kenyon NJ, Krishnan JA, Kraft M, Kumar R, Liu MC, Ly NP, Moy JN, Phipatanakul W, Ross K, Smith LJ, Szeffler SJ, Teague WG, Wechsler ME, Wenzel SE, White SR. The precision interventions for severe and/or exacerbation-prone asthma (PrecISE) adaptive platform trial: statistical considerations. *J Biopharm Stat*. 2020 Sep 17:1-12. doi: 10.1080/10543406.2020.1821705. Epub ahead of print. PMID: 32941098.
204. Phipatanakul W, Mauger DT, Guilbert TW, **Bacharier LB**, Durrani S, Jackson DJ, Martinez FD, Fitzpatrick AM, Cunningham A, Kunsel S, Wheatley LM, Bauer C, Davis CM, Geng B, Kloepfer KM, Lapin C, Liu AH, Pongratic JA, Teach SJ, Chmiel J, Gaffin JM, Greenhawt M, Gupta MR, Lai PS, Lemanske RF, Morgan WJ, Sheehan WJ, Stokes J, Thorne PS, Oettgen HC, Israel E; PARK Study Team. Preventing asthma in high risk kids (PARK) with omalizumab: Design, rationale, methods, lessons learned and adaptation. *Contem Clin Trials* 2020 Nov 23. PMID: 33242697
205. Jaeger N, McDonough RT, Rosen AL, Hernandez-Leyva A, Wilson NG, Lint MA, Russler-Germain EV, Chai JN, **Bacharier LB**, Hsieh CS, Kau AL. Airway microbiota-host interactions regulate secretory leukocyte protease inhibitor levels and influence allergic airway inflammation. *Cell Rep*. 2020 Nov 3. PMID: 33147448
206. Kitcharoensakkul M, **Bacharier LB**, Schweiger TL, Wilson B, Goss CW, Lew D, Schechtman KB, Castro M. Lung function trajectories and bronchial hyperresponsiveness during childhood following severe RSV bronchiolitis in infancy. *Pediatr Allergy Immunol* 2020 Oct 24. PMID: 33098584
207. Choi T, Devries M, **Bacharier L**, Busse W, Camargo CA Jr, Cohen R, Demuri GP, Evans MD, Fitzpatrick AM, Gergen PJ, Grindle K, Gruchalla R, Hartert T, Hasegawa K, Khurana Hershey GK, Holt P, Homil K,

- Jartti T, Kattan M, Kerckmar C, Kim H, Laing IA, LeBeau P, Lee KE, Le Souëf PN, Liu A, Mauger DT, Ober C, Pappas T, Patel SJ, Phipatanakul W, Pongracic J, Seroogy C, Sly PD, Tisler C, Wald ER, Wood R, Gangnon R, Jackson DJ, Lemanske RF Jr, Gern JE, Bochkov YA; program collaborators for Environmental influences on Child Health Outcomes. Enhanced Neutralizing Antibody Responses to Rhinovirus C and Age-Dependent Patterns of Infection. *Am J Respir Crit Care Med*. 2020 Dec 24. doi: 10.1164/rccm.202010-3753OC. Epub ahead of print. PMID: 33357024.
208. Coverstone AM, Boomer JS, Lew D, **Bacharier LB**, Castro M; Severe Asthma Research Program (SARP) Investigators. Type 2 inflammation in the sputum of adolescents with asthma. *Ann Allergy Asthma Immunol*. 2020 Dec 2:S1081-1206(20)31221-7. doi: 10.1016/j.anai.2020.11.018. Epub ahead of print. PMID: 33276117.
209. Mosnaim G, Safiotti G, Brown R, DePietro M, Szeffler SJ, Lang DM, Portnoy JM, Bukstein DA, **Bacharier LB**, Merchant RK. Digital Health Technology in Asthma: A Comprehensive Scoping Review. *J Allergy Clin Immunol Pract*. 2021 Feb 27:S2213-2198(21)00233-6. doi: 10.1016/j.jaip.2021.02.028. Epub ahead of print. PMID: 33652136.
210. Calderón MA, **Bacharier LB**. Sublingual Allergen Immunotherapy And Allergic Asthma: A Pro And Con Review. *J Allergy Clin Immunol Pract*. 2021 Feb 27:S2213-2198(21)00234-8. doi: 10.1016/j.jaip.2021.02.029. Epub ahead of print. PMID: 33652134.
211. Pomés A, Schulten V, Glesner J, da Silva Antunes R, Sutherland A, **Bacharier LB**, Beigelman A, Busse P, Frazier A, Sette A. IgE and T Cell Reactivity to a Comprehensive Panel of Cockroach Allergens in Relation to Disease. *Front Immunol*. 2021 Feb 10;11:621700. doi: 10.3389/fimmu.2020.621700. PMID: 33643303; PMCID: PMC7902920.
212. Krings JG, Goss CW, Lew D, Samant M, McGregor MC, Boomer J, **Bacharier LB**, Sheshadri A, Hall C, Brownell J, Schechtman KB, Peterson S, McEleney S, Mauger DT, Fahy JV, Fain SB, Denlinger LC, Israel E, Washko G, Hoffman E, Wenzel SE, Castro M; National Heart Lung and Blood Institute's (NHLBI's) Severe Asthma Research Program (SARP) Investigators. Quantitative CT metrics are associated with longitudinal lung function decline and future asthma exacerbations: results from SARP-3. *J Allergy Clin Immunol*. 2021 Feb 9:S0091-6749(21)00176-7. doi: 10.1016/j.jaci.2021.01.029. Epub ahead of print. PMID: 33577895.
213. Clougherty JE, Kinnee EJ, Cardet JC, Mauger D, **Bacharier L**, Beigelman A, Blake KV, Cabana MD, Castro M, Chmiel JF, Covar R, Fitzpatrick A, Gaffin JM, Gentile D, Israel E, Jackson DJ, Kraft M, Krishnan JA, Kumar HV, Lang JE, Lazarus SC, Lemanske RF Jr, Lima J, Martinez FD, Morgan W, Moy J, Myers R, Naureckas ET, Ortega VE, Peters SP, Phipatanakul W, Pongracic JA, Ross K, Sheehan WJ, Smith LJ, Solway J, Sorkness CA, Wechsler ME, Wenzel S, White SR, Holguin F. Geography, generalisability, and susceptibility in clinical trials. *Lancet Respir Med*. 2021 Feb 1:S2213-2600(21)00046-1. doi: 10.1016/S2213-2600(21)00046-1. Epub ahead of print. PMID: 33539731.
214. Knihtilä HM, Stubbs BJ, Carey VJ, Laranjo N, Chu SH, Kelly RS, Zeiger RS, **Bacharier LB**, O'Connor GT, Lasky-Su J, Weiss ST, Litonjua AA. Low gestational vitamin D level and childhood asthma are related

- to impaired lung function in high-risk children. *J Allergy Clin Immunol*. 2021 Jan 22:S00916749(21)00085-3. doi: 10.1016/j.jaci.2020.12.647. Epub ahead of print. PMID: 33485958.
215. Israel E, Denlinger LC, **Bacharier LB**, LaVange LM, Moore WC, Peters MC, Georas SN, Wright RJ, Mauger DT, Noel P, Akuthota P, Bach J, Bleecker ER, Cardet JC, Carr TF, Castro M, Cinelli A, Comhair SAA, Covar RA, Alexander LC, DiMango EA, Erzurum SC, Fahy JV, Fajt ML, Gaston BM, Hoffman EA, Holguin F, Jackson DJ, Jain S, Jarjour NN, Ji Y, Kenyon NJ, Kosorok MR, Kraft M, Krishnan JA, Kumar R, Liu AH, Liu MC, Ly NP, Marquis MA, Martinez FD, Moy JN, O'Neal WK, Ortega VE, Peden DB, Phipatanakul W, Ross K, Smith LJ, Szeffler SJ, Teague WG, Tulchinsky AF, Vijayanand P, Wechsler ME, Wenzel SE, White SR, Zeki AA, Ivanova A. PrecISE: Precision Medicine in Severe Asthma An Adaptive Platform Trial with Biomarker Ascertainment. *J Allergy Clin Immunol*. 2021 Mar 2:S00916749(21)00352-3. doi: 10.1016/j.jaci.2021.01.037. Epub ahead of print. PMID: 33667479.
216. **Bacharier LB**, Guilbert TW, Jartti T, Saglani S. Which Wheezing Preschoolers Should be Treated for Asthma? *J Allergy Clin Immunol Pract*. 2021 Mar 4:S2213-2198(21)00250-6. doi: 10.1016/j.jaip.2021.02.045. Epub ahead of print. PMID: 33677078.
217. LeBeau P, Lockhart A, Togias A, Sandel MT, Gereige JD, **Bacharier L**, Lovinsky- Desir S, Wood RA, James R, Busse WW, Gern JE, Altman MC; National Institute of Allergy and Infectious DiseasesSponsored Inner-City Asthma Consortium. Cockroach-induced IL9, IL13, and IL31 expression and the development of allergic asthma in urban children. *J Allergy Clin Immunol*. 2021 Mar 9:S00916749(21)00167-6. doi: 10.1016/j.jaci.2021.01.022. Epub ahead of print. PMID: 33712279.
218. Ramratnam S, Lockhart A, Visness CM, Calatroni A, Jackson DJ, Gergen PJ, **Bacharier LB**, O'Connor GT, Sandel MT, Kattan M, Wood RA, Gern JE; Inner City Asthma Consortium. Maternal Stress and Depression are Associated with Respiratory Phenotypes in Urban Children. *J Allergy Clin Immunol*. 2021 Mar 10:S0091-6749(21)00370-5. doi: 10.1016/j.jaci.2021.03.005. Epub ahead of print. PMID: 33713764.
219. Altman MC, Calatroni A, Ramratnam S, Jackson DJ, Presnell S, Rosasco MG, Gergen PJ, **Bacharier LB**, O'Connor GT, Sandel MT, Kattan M, Wood RA, Visness CM, Gern JE; Inner City Asthma Consortium. Endotype of Allergic Asthma with Airway Obstruction in Urban Children. *J Allergy Clin Immunol*. 2021 Mar 10:S0091-6749(21)00373-0. doi: 10.1016/j.jaci.2021.02.040. Epub ahead of print. PMID: 33713771.
220. Altman MC, Flynn K, Rosasco MG, Dapas M, Kattan M, Lovinsky-Desir S, O'Connor GT, Gill MA, Gruchalla RS, Liu AH, Pongracic JA, Khurana Hershey GK, Zoratti EM, Teach SJ, Rastrogi D, Wood RA, **Bacharier LB**, LeBeau P, Gergen PJ, Togias A, Busse WW, Presnell S, Gern JE, Ober C, Jackson DJ; NIAID Inner City Asthma Consortium. Inducible expression quantitative trait locus analysis of the MUC5AC gene in asthma in urban populations of children. *J Allergy Clin Immunol*. 2021 May 18:S00916749(21)00806-X. doi: 10.1016/j.jaci.2021.04.035. Epub ahead of print. PMID: 34019912.
221. Ryan PH, Brokamp C, Blossom J, Lothrop N, Miller RL, Beamer PI, Visness CM, Zanobetti A, Andrews H, **Bacharier LB**, Hartert T, Johnson CC, Ownby D, Lemanske RF, Gibson H, Requia W, Coull B, Zoratti EM, Wright AL, Martinez FD, Seroogy CM, Gern JE, Gold DR. A distributed geospatial approach to describe community characteristics for multisite studies. *J Clin Transl Sci*. 2021 Feb 5;5(1):e86. doi: 10.1017/cts.2021.7. PMID: 34007469; PMCID: PMC8111696.

222. Rabha AC, Fernandes FR, Solé D, **Bacharier LB**, Wandalsen GF. Asthma is associated with lower respiratory tract involvement and worse clinical score in children with COVID-19. *Pediatr Allergy Immunol*. 2021 May 9. doi: 10.1111/pai.13536. Epub ahead of print. PMID: 33966294.
223. Permaul P, Peters MC, Petty CR, Cardet JC, Ly NP, Ramratnam SK, Ross K, Fitzpatrick A, Israel E, **Bacharier LB**, Phipatanakul W; National Heart, Lung, and Blood Institute Severe Asthma Research Program-3 Investigators. The association of plasma IL-6 with measures of asthma morbidity in a moderate-severe pediatric cohort aged 6-18 years. *J Allergy Clin Immunol Pract*. 2021 Mar 23:S22132198(21)00290-7. doi: 10.1016/j.jaip.2021.02.047. Epub ahead of print. PMID: 33771493.
224. Rosser FJ, Han YY, Forno E, **Bacharier LB**, Phipatanakul W, Guilbert TW, Cabana MD, Ross K, Blatter J, Durrani S, Luther J, Wisniewski SR, Celedón JC. Effect of vitamin D supplementation on total and allergen-specific IgE in children with asthma and low vitamin D levels. *J Allergy Clin Immunol*. 2021 Jun 9:S0091-6749(21)00902-7. doi: 10.1016/j.jaci.2021.05.037. Epub ahead of print. PMID: 34118248.
225. Lovinsky-Desir S, Lussier SJ, Calatroni A, Gergen PJ, Rivera-Spoljaric K, **Bacharier LB**, De A, O'Connor GT, Sandel MT, Wood RA, Arteaga-Solis E, Gern JE, Kattan M. Trajectories of Adiposity Indicators and Association with Asthma and Lung Function in Urban Minority Children. *J Allergy Clin Immunol*. 2021 Jun 21:S0091-6749(21)00972-6. doi: 10.1016/j.jaci.2021.06.015. Epub ahead of print. PMID: 34166677.
226. Chen YS, Mirzakhani H, Lu M, Zeiger RS, O'Connor GT, Sandel MT, **Bacharier LB**, Beigelman A, Carey VJ, Harshfield BJ, Laranjo N, Litonjua AA, Weiss ST, Lee-Sarwar KA. The association of prenatal vitamin D sufficiency with aeroallergen sensitization and allergic rhinitis in early childhood. *J Allergy Clin Immunol Pract*. 2021 Jun 21:S2213-2198(21)00674-7. doi: 10.1016/j.jaip.2021.06.009. Epub ahead of print. PMID: 34166843.
227. Srinivasan M, **Bacharier LB**, Goss CW, Zhou Y, Boomer J, Bram S, Burgdorf D, Burnham CA, Casper T, Castro M, Coverstone A, Haslam M, Kanchongkittiphon W, Kuklinski C, Lian Q, Schechtman K, Storch GA, True K, Wallace MA, Yin-DeClue H, Ahrens E, Wang J, Beigelman A. The azithromycin to prevent wheezing following severe RSV bronchiolitis-II clinical trial: Rationale, study design, methods, and characteristics of study population. *Contemp Clin Trials Commun*. 2021 Jun 9;22:100798. doi: 10.1016/j.conctc.2021.100798. PMID: 34189338; PMCID: PMC8219746.
228. Mathioudakis AG, Miligkos M, Boccabella C, Alimani GS, Custovic A, Deschildre A, Ducharme FM, Kalayci O, Murray C, Garcia AN, Phipatanakul W, Price D, Sheikh A, Agache IO, **Bacharier L**, Beloukas A, Bentley A, Bonini M, Castro-Rodriguez JA, De Carlo G, Craig T, Diamant Z, Feleszko W, Felton T, Gern JE, Grigg J, Hedlin G, Hossny EM, Ierodiakonou D, Jartti T, Kaplan A, Lemanske RF, Le Souëf PN, Mäkelä MJ, Mathioudakis GA, Matricardi P, Mitrogiorgou M, Morais-Almeida M, Nagaraju K, Papageorgiou E, Pité H, Pitrez PMC, Pohunek P, Roberts G, Tsiligianni I, Turner S, Vijverberg S, Winders TA, Wong GW, Xepapadaki P, Zar HJ, Papadopoulos NG. Management of asthma in childhood: study protocol of a systematic evidence update by the Paediatric Asthma in Real Life (PeARL) Think Tank. *BMJ Open*. 2021 Jul 2;11(7):e048338. doi: 10.1136/bmjopen-2020-048338. PMID: 34215609; PMCID: PMC8256789.

229. Han YY, Forno E, **Bacharier LB**, Phipatanakul W, Guilbert TW, Cabana MD, Ross K, Blatter J, Rosser FJ, Durrani S, Luther J, Wisniewski SR, Celedón JC. Vitamin D supplementation, lung function, and asthma control in children with asthma and low vitamin D levels. *Eur Respir J*. 2021 Jul 29:2100989. doi: 10.1183/13993003.00989-2021. Epub ahead of print. PMID: 34326185.
230. Gaietto K, Han YY, Forno E, **Bacharier LB**, Phipatanakul W, Guilbert TW, Cabana MD, Ross K, Blatter J, Acosta-Pérez E, Miller GE, de la Hoz RE, Rosser FJ, Durrani S, Canino G, Wisniewski SR, Celedón JC. Violence-related distress and lung function in two longitudinal studies of youth. *Eur Respir J*. 2021 Sep 29:2102329. doi: 10.1183/13993003.02329-2021. Epub ahead of print. PMID: 34588198.
231. Gereige JD, Morin A, Calatroni A, Visness CM, Wood RA, Kattan M, **Bacharier LB**, Becker P, Altman MC, Gern JE, Ober C, O'Connor GT. 17q12-q21 variants interact with early-life exposures to modify asthma risk in Black children. *Clin Exp Allergy*. 2021 Dec 4. doi: 10.1111/cea.14074. Epub ahead of print. PMID: 34862819.
232. Georas SN, Wright RJ, Ivanova A, Israel E, LaVange LM, Akuthota P, Carr TF, Denlinger LC, Fajt ML, Kumar R, O'Neal WK, Phipatanakul W, Szeffler SJ, Aronica MA, **Bacharier LB**, Burbank AJ, Castro M, Alexander LC, Bamdad J, Cardet JC, Comhair SAA, Covar RA, DiMango EA, Erwin K, Erzurum SC, Fahy JV, Gaffin JM, Gaston B, Gerald LB, Hoffman EA, Holguin F, Jackson DJ, James J, Jarjour NN, Kenyon NJ, Khatri S, Kirwan JP, Kraft M, Krishnan JA, Liu AH, Liu MC, Marquis MA, Martinez F, Mey J, Moore WC, Moy JN, Ortega VE, Peden DB, Pennington E, Peters MC, Ross K, Sanchez M, Smith LJ, Sorkness RL, Wechsler ME, Wenzel SE, White SR, Zein J, Zeki AA, Noel P; PrecISE Study Team. The Precision Interventions for Severe and/or Exacerbation-Prone (PrecISE) Asthma Network: an overview of Network organization, procedures and interventions. *J Allergy Clin Immunol*. 2021 Nov 27:S00916749(21)01819-4. doi: 10.1016/j.jaci.2021.10.035. Epub ahead of print. PMID: 34848210.
233. Ortega VE, Daya M, Szeffler SJ, Bleecker ER, Chinchilli VM, Phipatanakul W, Mauger D, Martinez FD, Herrera-Luis E, Pino-Yanes M, Hawkins GA, Ampleford EJ, Kunselman SJ, Cox C, **Bacharier LB**, Cabana MD, Cardet JC, Castro M, Denlinger LC, Eng C, Fitzpatrick AM, Holguin F, Hu D, Jackson DJ, Jarjour N, Kraft M, Krishnan JA, Lazarus SC, Lemanske RF Jr, Lima JJ, Lugogo N, Mak A, Moore WC, Naureckas ET, Peters SP, Pongratic JA, Sajuthi SP, Seibold MA, Smith LJ, Solway J, Sorkness CA, Wenzel S, White SR, Burchard EG, Barnes K, Meyers DA, Israel E, Wechsler ME; NHLBI AsthmaNet. Pharmacogenetic studies of long-acting beta agonist and inhaled corticosteroid responsiveness in randomised controlled trials of individuals of African descent with asthma. *Lancet Child Adolesc Health*. 2021 Dec;5(12):862-872. doi: 10.1016/S2352-4642(21)00268-6. Epub 2021 Nov 9. PMID: 34762840.
234. Reddel HK, **Bacharier LB**, Bateman ED, Brightling CE, Brusselle GG, Buhl R, Cruz AA, Duijts L, Drazen JM, FitzGerald JM, Fleming LJ, Inoue H, Ko FW, Krishnan JA, Levy ML, Lin J, Mortimer K, Pitrez PM, Sheikh A, Yorgancioglu AA, Boulet LP. Global Initiative for Asthma (GINA) Strategy 2021 - Executive summary and rationale for key changes. *J Allergy Clin Immunol Pract*. 2021 Oct 27:S22132198(21)01064-3. doi: 10.1016/j.jaip.2021.10.001. Epub ahead of print. PMID: 34718211.
235. da Silva Antunes R, Sutherland A, Frazier A, Schulten V, Pomés A, Glesner J, Calatroni A, Altman MC, Wood RA, O'Connor GT, Pongratic JA, Khurana Hershey GK, Kercksmar CM, Gruchalla RS, Gill M, Liu

- AH, Zoratti E, Kattan M, Busse PJ, **Bacharier LB**, Teach SJ, Wheatley LM, Togias A, Busse WW, Jackson DJ, Sette A. Heterogeneity of magnitude, allergen immunodominance, and cytokine polarization of cockroach allergen-specific T cell responses in allergic sensitized children. *Clin Transl Allergy*. 2021 Oct 13;11(8):e12073. doi: 10.1002/ct2.12073. PMID: 34691392; PMCID: PMC8514843.
236. Reddel HK, **Bacharier LB**, Bateman ED, Brightling CE, Brusselle GG, Buhl R, Cruz AA, Duijts L, Drazen JM, FitzGerald JM, Fleming LJ, Inoue H, Ko FW, Krishnan JA, Levy ML, Lin J, Mortimer K, Pitrez PM, Sheikh A, Yorgancioglu AA, Boulet LP. Global Initiative for Asthma (GINA) Strategy 2021 - Executive summary and rationale for key changes. *Respirology*. 2021 Oct 19. doi: 10.1111/resp.14174. Epub ahead of print. PMID: 34668278.
237. Reddel HK, **Bacharier LB**, Bateman ED, Brightling CE, Brusselle GG, Buhl R, Cruz AA, Duijts L, Drazen JM, FitzGerald JM, Fleming LJ, Inoue H, Ko FW, Krishnan JA, Levy ML, Lin J, Mortimer K, Pitrez PM, Sheikh A, Yorgancioglu AA, Boulet LP. Global Initiative for Asthma (GINA) Strategy 2021 - Executive summary and rationale for key changes. *Eur Respir J*. 2021 Oct 19:2102730. doi: 10.1183/13993003.02730-2021. Epub ahead of print. PMID: 34667060.
238. Reddel HK, **Bacharier LB**, Bateman ED, Brightling CE, Brusselle GG, Buhl R, Cruz AA, Duijts L, Drazen JM, FitzGerald JM, Fleming LJ, Inoue H, Ko FW, Krishnan JA, Levy ML, Lin J, Mortimer K, Pitrez PM, Sheikh A, Yorgancioglu AA, Boulet LP. Global Initiative for Asthma (GINA) Strategy 2021 - Executive Summary and Rationale for Key Changes. *Am J Respir Crit Care Med*. 2021 Oct 18. doi: 10.1164/rccm.202109-2205PP. Epub ahead of print. PMID: 34658302.
239. Vesper S, Wymer L, Kroner J, Pongracic JA, Zoratti EM, Little FF, Wood RA, Kercksmar CM, Gruchalla RS, Gill MA, Kattan M, Teach SJ, Patel S, Johnson CC, **Bacharier LB**, Gern JE, Jackson DJ, Sigelman SM, Togias A, Liu AH, Busse WW, Khurana Hershey GK. Association of mold levels in urban children's homes with difficult-to-control asthma. *J Allergy Clin Immunol*. 2021 Oct 2:S0091-6749(21)01454-8. doi: 10.1016/j.jaci.2021.07.047. Epub ahead of print. PMID: 34606833.
240. **Bacharier LB**, Maspero JF, Katelaris CH, Fiocchi AG, Gagnon R, de Mir I, Jain N, Sher LD, Mao X, Liu D, Zhang Y, Khan AH, Kapoor U, Khokhar FA, Rowe PJ, Deniz Y, Ruddy M, Laws E, Patel N, Weinreich DM, Yancopoulos GD, Amin N, Mannent LP, Lederer DJ, Hardin M, for the Liberty Asthma VOYAGE investigators. Dupilumab in children with uncontrolled moderate-to-severe asthma. *N Engl J Med*. 2021 Dec 9; 385(24): 2230-2240. doi: 10.1056/NEJMoa2106567. PMID: 34879449
241. Achten NB, van Rossum AMC, **Bacharier LB**, Fitzpatrick AM, Hartert TV. Long- Term Respiratory Consequences of Early-Life Respiratory Viral Infections: A Pragmatic Approach to Fundamental Questions. *J Allergy Clin Immunol Pract*. 2021 Dec 20:S2213-2198(21)01367-2. doi: 10.1016/j.jaip.2021.12.005. Epub ahead of print. PMID: 34942383.
242. Arnold DH, Gong W, Antoon JW, **Bacharier LB**, Stewart TG, Johnson DP, Akers WS, Hartert TV. Prospective Observational Study of Clinical Outcomes After Intravenous Magnesium for Moderate and Severe Acute Asthma Exacerbations in Children. *J Allergy Clin Immunol Pract*. 2021 Dec 13:S22132198(21)01366-0. doi: 10.1016/j.jaip.2021.11.028. Epub ahead of print. PMID: 34915226.

243. McCauley KE, Flynn K, DiMassa V, LaMere B, Fadrosch DW, Lynch KV, Gill MA, Pongracic JA, Khurana Hershey GK, Kercsmar CM, Liu AH, Johnson CC, Kim H, Kattan M, O'Connor GT, **Bacharier LB**, Teach SJ, Gergen PJ, Wheatley LM, Togias A, LeBeau P, Calatroni A, Presnell S, Boushey HA, Busse WW, Gern JE, Jackson DJ, Altman MC, Lynch SV; National Institute of Allergy and Infectious Diseasesponsored Inner-City Asthma Consortium. Seasonal Airway Microbiome and Transcriptome Interactions Promote Childhood Asthma Exacerbations. *J Allergy Clin Immunol*. 2022 Feb 8:S0091-6749(22)00146-4. doi: 10.1016/j.jaci.2022.01.020. Epub ahead of print. PMID: 35149044.
244. Jaeger N, McDonough RT, Rosen AL, Hernandez-Leyva A, Wilson NG, Lint MA, Russler-Germain EV, Chai JN, **Bacharier LB**, Hsieh CS, Kau AL. Airway Microbiota- Host Interactions Regulate Secretory Leukocyte Protease Inhibitor Levels and Influence Allergic Airway Inflammation. *Cell Rep*. 2022 Jan 25;38(4):110324. doi: 10.1016/j.celrep.2022.110324. Erratum for: *Cell Rep*. 2020 Nov 3;33(5):108331. PMID: 35081343.
245. Lee-Sarwar K, Dedrick S, Momeni B, Kelly RS, Zeiger RS, O'Connor GT, Sandel MT, **Bacharier LB**, Beigelman A, Laranjo N, Gold DR, Lasky-Su J, Litonjua AA, Liu YY, Weiss ST. Association of the Gut Microbiome and Metabolome with Wheeze Frequency in Childhood Asthma. *J Allergy Clin Immunol*. 2022 Feb 20:S0091-6749(22)00223-8. doi: 10.1016/j.jaci.2022.02.005. Epub ahead of print. PMID: 35196534.
246. Feleszko W, Jartti T, **Bacharier LB**. Current strategies for phenotyping and managing asthma in preschool children. *Curr Opin Allergy Clin Immunol*. 2022 Apr 1;22(2):107-114. doi: 10.1097/ACI.0000000000000819. PMID: 35197432.
247. Duijts L, Fleming LJ, **Bacharier LB**, Pitrez PM, Reddel HK; authors of "Global Initiative for Asthma (GINA) Strategy 2021 – Executive summary and rationale for key changes". Reply to: GINA 2021: Asthma in Pre-School Children and SABA-Only Treatment. *Am J Respir Crit Care Med*. 2022 Feb 24. doi: 10.1164/rccm.202112-2788LE. Epub ahead of print. PMID: 35202561.
248. Beigelman A, Srinivasan M, Goss CW, Wang J, Zhou Y, True K, Ahrens E, Burgdorf D, Haslam MD, Boomer J, Bram S, Burnham C-AD, Casper TJ, Coverstone AM, Kanchongkittiphon W, Kuklinski C, Storch GA, Wallace MA, Yin-DeClue H, Castro M, Schechtman KB, **Bacharier LB**. Azithromycin to Prevent Recurrent Wheeze Following Severe Respiratory Syncytial Virus Bronchiolitis. *NEJM Evid*. 2022 Apr;1(4):10.1056/evidoa2100069. doi: 10.1056/evidoa2100069. Epub 2022 Feb 27. PMID: 37621674; PMCID: PMC10448891.
249. Seibold MA, Moore CM, Everman JL, Williams BJM, Nolin JD, Fairbanks-Mahnke A, Plender EG, Patel BB, Arbes SJ, **Bacharier LB**, Bendixsen CG, Calatroni A, Camargo CA Jr, Dupont WD, Furuta GT, Gebretsadik T, Gruchalla RS, Gupta RS, Khurana Hershey GK, Murrison LB, Jackson DJ, Johnson CC, Kattan M, Liu AH, Lussier SJ, O'Connor GT, Rivera-Spoljaric K, Phipatanakul W, Rothenberg ME, Seroogy CM, Teach SJ, Zoratti EM, Togias A, Fulkerson PC, Hartert TV; HEROS study team. Risk factors for SARS-CoV-2 infection and transmission in households with children with asthma and allergy: A prospective surveillance study. *J Allergy Clin Immunol*. 2022 Jun 1:S0091-6749(22)00752-7. doi: 10.1016/j.jaci.2022.05.014. Epub ahead of print. PMID: 35660376; PMCID: PMC9155183.

250. Zanobetti A, Ryan PH, Coull B, Brokamp C, Datta S, Blossom J, Lothrop N, Miller RL, Beamer PI, Visness CM, Andrews H, **Bacharier LB**, Hartert T, Johnson CC, Ownby D, Khurana Hershey GK, Joseph C, Yiqiang S, Mendoza E, Jackson DJ, Luttmann-Gibson H, Zoratti EM, Wright AL, Martinez FD, Seroogy CM, Gern JE, Gold DR; Children's Respiratory and Environmental Workgroup (CREW) Consortium. Childhood Asthma Incidence, Early and Persistent Wheeze, and Neighborhood Socioeconomic Factors in the ECHO/CREW Consortium. *JAMA Pediatr.* 2022 May 23:e221446. doi: 10.1001/jamapediatrics.2022.1446. Epub ahead of print. PMID: 35604671; PMCID: PMC9127710.
251. Kitcharoensakkul M, **Bacharier LB**, Yin-Declue H, Boomer JS, Lew D, Goss CW, Castro M. Increased nasal plasmacytoid dendritic cells are associated with recurrent wheezing following severe respiratory syncytial virus bronchiolitis in infancy. *Pediatr Allergy Immunol.* 2022 Oct;33(10):e13869. doi: 10.1111/pai.13869. PMID: 36282129.
252. Washington C 3rd, Dapas M, Biddanda A, Magnaye KM, Aneas I, Helling BA, Szczesny B, Boorgula MP, Taub MA, Kenny E, Mathias RA, Barnes KC; CAAPA, Khurana Hershey GK, Kercksmar CM, Gereige JD, Makhija M, Gruchalla RS, Gill MA, Liu AH, Rastogi D, Busse W, Gergen PJ, Visness CM, Gold DR, Hartert T, Johnson CC, Lemanske RF Jr, Martinez FD, Miller RL, Ownby D, Seroogy CM, Wright AL, Zoratti EM, **Bacharier LB**, Kattan M, O'Connor GT, Wood RA, Nobrega MA, Altman MC, Jackson DJ, Gern JE, McKennan CG, Ober C. African-specific alleles modify risk for asthma at the 17q12-q21 locus in African Americans. *Genome Med.* 2022 Sep 29;14(1):112. doi: 10.1186/s13073-022-01114-x. PMID: 36175932; PMCID: PMC9520885.
253. Chen YS, Lee-Sarwar KA, Mirzakhani H, O'Connor GT, **Bacharier LB**, Zeiger RS, Knihtilä HM, Jha A, Kelly RS, Laranjo N, Fichorova RN, Luu N, Weiss ST, Litonjua AA. The Association of Prenatal CReactive Protein Levels With Childhood Asthma and Atopy. *J Allergy Clin Immunol Pract.* 2022 Sep 13:S2213-2198(22)00928-X. doi: 10.1016/j.jaip.2022.08.044. Epub ahead of print. PMID: 36108928.
254. Lee-Sarwar KA, Chen YC, Chen YY, Kozyrskyj AL, Mandhane PJ, Turvey SE, Subbarao P, Bisgaard H, Stokholm J, Chawes B, Sørensen SJ, Kelly RS, Lasky-Su J, Zeiger RS, O'Connor GT, Sandel MT, **Bacharier LB**, Beigelman A, Carey VJ, Harshfield BJ, Laranjo N, Gold DR, Weiss ST, Litonjua AA. The maternal prenatal and offspring early-life gut microbiome of childhood asthma phenotypes. *Allergy.* 2022 Sep 15. doi: 10.1111/all.15516. Epub ahead of print. PMID: 36107703.
255. Gaffin JM, Petty CR, Sorkness RL, Denlinger LC, Phillips BR, Ly NP, Gaston B, Ross K, Fitzpatrick A, **Bacharier LB**, DeBoer MD, Teague WG, Wenzel SE, Ramratnam S, Israel E, Mauger DT, Phipatanakul W; National Heart, Lung, and Blood Institute's Severe Asthma Research Program-3 Investigators. Determinants of lung function across childhood in the Severe Asthma Research Program (SARP) 3. *J Allergy Clin Immunol.* 2022 Aug 27:S0091-6749(22)01122-8. doi: 10.1016/j.jaci.2022.08.014. Epub ahead of print. PMID: 36041656.
256. Jackson DJ, **Bacharier LB**, Gergen PJ, Gagalis L, Calatroni A, Wellford S, Gill MA, Stokes J, Liu AH, Gruchalla RS, Cohen RT, Makhija M, Khurana Hershey GK, O'Connor GT, Pongracic JA, Sherenian MG, Rivera-Spoljaric K, Zoratti EM, Teach SJ, Kattan M, Dutmer CM, Kim H, Lamm C, Sheehan WJ, Segnitz

- RM, Dill-McFarland KA, Visness CM, Becker PM, Gern JE, Sorkness CA, Busse WW, Altman MC; US National Institute of Allergy and Infectious Disease's Inner City Asthma Consortium. Mepolizumab for urban children with exacerbation-prone eosinophilic asthma in the USA (MUPPITS-2): a randomised, double-blind, placebo-controlled, parallel-group trial. *Lancet*. 2022 Aug 13;400(10351):502-511. doi: 10.1016/S0140-6736(22)01198-9. PMID: 35964610.
257. Fulkerson PC, Lussier SJ, Bendixsen CG, Castina SM, Gebretsadik T, Marlin JS, Russell PB, Seibold MA, Everman JL, Moore CM, Snyder BM, Thompson K, Tregoning GS, Wellford S, Arbes SJ, **Bacharier LB**, Calatroni A, Camargo CA, Dupont WD, Furuta GT, Gruchalla RS, Gupta RS, Hershey GK, Jackson DJ, Johnson CC, Kattan M, Liu AH, Murrison L, Oâ Connor GT, Phipatanakul W, Rivera-Spoljaric K, Rothenberg ME, Seroogy CM, Teach SJ, Zoratti EM, Togias A, Hartert TV. Human Epidemiology and RespOnse to SARS-CoV-2 (HEROS): Objectives, Design and Enrollment Results of a 12-City Remote Observational Surveillance Study of Households with Children using Direct-to-Participant Methods. *medRxiv [Preprint]*. 2022 Jul 10:2022.07.09.22277457. doi: 10.1101/2022.07.09.22277457. PMID: 35860216; PMCID: PMC9298141.
258. Lee-Sarwar KA, Chen YC, Lasky-Su J, Kelly RS, Zeiger RS, O'Connor GT, **Bacharier LB**, Jia X, Beigelman A, Gold DR, Laranjo N, Bunyavanich S, Weiss ST, Litonjua AA, Brennan PJ. Early-life fecal metabolomics of food allergy. *Allergy*. 2023 Feb;78(2):512-521. doi: 10.1111/all.15602. Epub 2022 Dec 7. PMID: 36448508.
259. Knihtilä HM, Huang M, Prince N, Stubbs BJ, Carey VJ, Laranjo N, Mirzakhani H, Zeiger RS, **Bacharier LB**, O'Connor GT, Litonjua AA, Weiss ST, Lasky-Su J. Maternal vitamin D status modifies the effects of early life tobacco exposure on child lung function. *J Allergy Clin Immunol*. 2023 Feb;151(2):556-564. doi: 10.1016/j.jaci.2022.10.030. Epub 2022 Nov 16. PMID: 36400177; PMCID: PMC9905288.
260. Wilson NG, Hernandez-Leyva A, Schwartz DJ, **Bacharier LB**, Kau AL. The gut metagenome harbors metabolic and antibiotic resistance signatures of moderate- to-severe asthma. *bioRxiv [Preprint]*. 2023 Jan 17:2023.01.03.522677. doi: 10.1101/2023.01.03.522677. PMID: 36711684; PMCID: PMC9882014.
261. Dapas M, Thompson EE, Wentworth-Sheilds W, Clay S, Visness CM, Calatroni A, Sordillo JE, Gold DR, Wood RA, Makhija M, Khurana Hershey GK, Sherenian MG, Gruchalla RS, Gill MA, Liu AH, Kim H, Kattan M, **Bacharier LB**, Rastogi D, Altman MC, Busse WW, Becker PM, Nicolae D, O'Connor GT, Gern JE, Jackson DJ, Ober C. Multi-omic association study identifies DNA methylation-mediated genotype and smoking exposure effects on lung function in children living in urban settings. *PLoS Genet*. 2023 Jan 13;19(1):e1010594. doi: 10.1371/journal.pgen.1010594. PMID: 36638096; PMCID: PMC9879483.
262. Altman MC, Kattan M, O'Connor GT, Murphy RC, Whalen E, LeBeau P, Calatroni A, Gill MA, Gruchalla RS, Liu AH, Lovinsky-Desir S, Pongracic JA, Kercsmar CM, Khurana Hershey GK, Zoratti EM, Teach SJ, **Bacharier LB**, Wheatley LM, Sigelman SM, Gergen PJ, Togias A, Busse WW, Gern JE, Jackson DJ; National Institute of Allergy and Infectious Disease's Inner City Asthma Consortium. Associations between outdoor air pollutants and non-viral asthma exacerbations and airway inflammatory responses in children and adolescents living in urban areas in the USA: a retrospective secondary analysis. *Lancet Planet Health*. 2023 Jan;7(1):e33-e44. doi: 10.1016/S2542-5196(22)00302-3. PMID: 36608946.

263. Krings JG, Gerald JK, Blake KV, Krishnan JA, Reddel HK, **Bacharier LB**, Dixon AE, Sumino K, Gerald LB, Brownson RC, Persell SD, Clemens CJ, Hiller KM, Castro M, Martinez FD. A Call for the United States to Accelerate the Implementation of Reliever Combination ICS-Formoterol Inhalers in Asthma. *Am J Respir Crit Care Med*. 2022 Dec 20. doi: 10.1164/rccm.202209-1729PP. Epub ahead of print. PMID: 36538711.
264. Calderon MA, Casale TB, Nelson HS, **Bacharier LB**, Bansal P, Bernstein DI, Blaiss M, Corren J, DuBuske L, Fattah S, Gagnon R, Greiwe J, Hoover H, Kolinsky NC, Namazy JA, Phipatanakul W, Plunkett G, Shaker M, Wasserman S, Winders T, Rance K, Nolte H. Extrapolating Evidence-Based Medicine of AIT Into Clinical Practice in the United States. *J Allergy Clin Immunol Pract*. 2022 Nov 4:S2213-2198(22)01135-7. doi: 10.1016/j.jaip.2022.10.033. Epub ahead of print. PMID: 36343885.
265. Morin A, Thompson EE, Helling BA, Shorey-Kendrick LE, Faber P, Gebretsadik T, **Bacharier LB**, Kattan M, O'Connor GT, Rivera-Spoljaric K, Wood RA, Barnes KC, Mathias RA, Altman MC, Hansen K, McEvoy CT, Spindel ER, Hartert T, Jackson DJ, Gern JE, McKennan CG, Ober C; program collaborators for Environmental Influences on Child Health Outcomes and Children's Respiratory and Environmental Workgroup. A functional genomics pipeline to identify high-value asthma and allergy CpGs in the human methylome. *J Allergy Clin Immunol*. 2023 Feb 6:S0091-6749(23)00149-5. doi: 10.1016/j.jaci.2022.12.828. Epub ahead of print. PMID: 36754293.
266. Levy ML, **Bacharier LB**, Bateman E, Boulet LP, Brightling C, Buhl R, Brusselle G, Cruz AA, Drazen JM, Duijts L, Fleming L, Inoue H, Ko FWS, Krishnan JA, Mortimer K, Pitrez PM, Sheikh A, Yorgancıoğlu A, Reddel HK. Key recommendations for primary care from the 2022 Global Initiative for Asthma (GINA) update. *NPJ Prim Care Respir Med*. 2023 Feb 8;33(1):7. doi: 10.1038/s41533-023-00330-1. PMID: 36754956; PMCID: PMC9907191.
267. Wilson NG, Hernandez-Leyva A, Rosen AL, Jaeger N, McDonough RT, Santiago-Borges J, Lint MA, Rosen TR, Tomera CP, **Bacharier LB**, Swamidass SJ, Kau AL. The gut microbiota of people with asthma influences lung inflammation in gnotobiotic mice. *iScience*. 2023 Jan 18;26(2):105991. doi: 10.1016/j.isci.2023.105991. PMID: 36824270; PMCID: PMC9941210.
268. Yorgancıoğlu A, Reddel HK; GINA Board of Directors and GINA Science Committee (**Bacharier LB** member). Global Initiative for Asthma (GINA): 30 years of promoting evidence-based asthma care. *Allergy*. 2023 Mar 18. doi: 10.1111/all.15714. Epub ahead of print. PMID: 36934290.
269. Jackson DJ, **Bacharier LB**, Phipatanakul W, Sher L, Domingo C, Papadopoulos N, Modena B, Li N, Xia C, Kamal MA, Dillon M, Wolfe K, Gall R, Amin N, Mannent LP, Laws E, Rowe PJ, Jacob-Nara JA, Deniz Y, Lederer DJ, Hardin M, Xu C. Dupilumab pharmacokinetics and effect on type 2 biomarkers in children with moderate-to-severe asthma. *Ann Allergy Asthma Immunol*. 2023 Mar 21:S1081-1206(23)00180-1. doi: 10.1016/j.anai.2023.03.014. Epub ahead of print. PMID: 36958470.
270. Yuan H, Liu Z, Dong J, **Bacharier LB**, Jackson D, Mauger D, Boushey H, Castro M, Durack J, Huang YJ, Lemanske RF, Storch GA, Weinstock GM, Wylie K, Covar R, Fitzpatrick AM, Phipatanakul W, Robison RG, Beigelman A, Zhou Y. The Fungal Microbiome of the Upper Airway Is Associated With Future Loss of Asthma Control and Exacerbation Among Children With Asthma. *Chest*. 2023 Mar 30:S00123692(23)00462-2. doi: 10.1016/j.chest.2023.03.034. Epub ahead of print. PMID: 37003356.

271. Papadopoulos NG, Szeffler SJ, **Bacharier LB**, Maspero JF, Domingo C, Fiocchi A, Lee JK, Daizadeh N, Lederer DJ, Hardin M, Gall R, Djandji M, Siddiqui S, Jacob- Nara JA, Deniz Y, Rowe PJ. Assessment of dupilumab in children with moderate-to- severe type 2 asthma with or without evidence of allergic asthma. *Allergy*. 2023 Apr 14. doi: 10.1111/all.15743. Epub ahead of print. PMID: 37059696.
272. Shadid ILC, Brustad N, Lu M, Chawes BL, Bisgaard H, Zeiger RS, O'Connor GT, **Bacharier LB**, Guchelaar HJ, Litonjua AA, Weiss ST, Mirzakhani H. Baseline 25(OH)D, timing of supplementation initiation and prenatal vitamin D supplementation efficacy to prevent offspring asthma or recurrent wheeze. *Am J Clin Nutr*. 2023 Apr 17:S0002-9165(23)46848-7. doi: 10.1016/j.ajcnut.2023.04.019. Epub ahead of print. PMID: 37075847.
273. Shah J, Shadid ILC, Carey VJ, Laranjo N, O'Connor GT, Zeiger RS, **Bacharier L**, Litonjua AA, Weiss ST, Mirzakhani H. Early Life Weight Status and Risk of Childhood Asthma or Recurrent Wheeze in Preterm and Term Offspring. *J Allergy Clin Immunol Pract*. 2023 Apr 21:S2213-2198(23)00416-6. doi: 10.1016/j.jaip.2023.03.059. Epub ahead of print. PMID: 37088369.
274. Rosser FJ, Han YY, Forno E, Guilbert TW, **Bacharier LB**, Phipatanakul W, Goobie GC, Nouraie SM, Martinez M, Celedón JC. Long-Term PM_{2.5} Exposure and Lung Function Change in Children with Asthma Receiving Inhaled Corticosteroids. *Am J Respir Crit Care Med*. 2023 Jun 13. doi: 10.1164/rccm.2023030371LE. Epub ahead of print. PMID: 37311241.
275. Mohan A, Lugogo NL, Hanania NA, Reddel HK, Akuthota P, O'Byrne PM, Guilbert T, Papi A, Price D, Jenkins CR, Kraft M, **Bacharier LB**, Boulet LP, Yawn BP, Pleasants R, Lazarus SC, Beasley R, Gauvreau G, Israel E, Schneider-Futschik EK, Yorgancioglu A, Martinez F, Moore W, Sumino K. Questions in Mild Asthma: An Official American Thoracic Society Research Statement. *Am J Respir Crit Care Med*. 2023 Jun 1;207(11):e77-e96. doi: 10.1164/rccm.202304-0642ST. PMID: 37260227; PMCID: PMC10263130.
276. Lee-Sarwar KA, Fischer-Rasmussen K, Bønnelykke K, Bisgaard H, Chawes B, Kelly RS, Lasky-Su J, Zeiger RS, O'Connor GT, **Bacharier LB**, Carey VJ, Laranjo N, Litonjua AA, Weiss ST. Omega-3 Fatty Acids Interact with *DPP10* Region Genotype in Association with Childhood Atopy. *Nutrients*. 2023 May 22;15(10):2416. doi: 10.3390/nu15102416. PMID: 37242299; PMCID: PMC10223962.
277. Levy ML, Bateman ED, Allan K, **Bacharier LB**, Bonini M, Boulet LP, Bourdin A, Brightling C, Brusselle G, Buhl R, Chakaya MJ, Cruz AA, Drazen J, Ducharme FM, Duijts L, Fleming L, Inoue H, Ko FWS, Krishnan JA, Masekela R, Mortimer K, Pitrez P, Salvi S, Sheikh A, Reddel HK, Yorgancioglu A. Global access and patient safety in the transition to environmentally friendly respiratory inhalers: the Global Initiative for Asthma perspective. *Lancet*. 2023 Jul 19:S0140-6736(23)01358-2. doi: 10.1016/S01406736(23)01358-2. Epub ahead of print. PMID: 37480934.
278. Jha A, Baumann N, Shadid I, Shah J, Chen YS, Lee-Sarwar KA, Zeiger RS, O'Connor GT, **Bacharier LB**, Carey VJ, Laranjo N, Fichorova RN, Litonjua AA, Weiss ST, Mirzakhani H. The relationship of fetal sex and maternal race and ethnicity with early and late pregnancy C-reactive protein and interleukin-8. *Am J Reprod Immunol*. 2023 Aug;90(2):e13746. doi: 10.1111/aji.13746. PMID: 37491932.

279. Gaberino CL, **Bacharier LB**, Jackson DJ. Controversies in Allergy: Are Biologic Treatment Responses in Severe Asthma the Same in Adults and Children? *J Allergy Clin Immunol Pract*. 2023 Jul 28:S22132198(23)00801-2. doi: 10.1016/j.jaip.2023.07.028. Epub ahead of print. PMID: 37517797.
280. Blaiss M, Oppenheimer J, Corbett M, **Bacharier L**, Bernstein J, Carr T, Chipps B, Couillard S, Forno E, Grant T, Lugogo N, May K, Schaubberger E. Consensus of an American College of Allergy, Asthma, and Immunology, American Academy of Allergy, Asthma, and Immunology, and American Thoracic Society workgroup on definition of clinical remission in asthma on treatment. *Ann Allergy Asthma Immunol*. 2023 Sep 8:S1081-1206(23)01218-8. doi: 10.1016/j.anai.2023.08.609. Epub ahead of print. PMID: 37690606.
281. Rosas-Salazar C, **Bacharier L**, Buckley LH, Amaral S, Sirota S, Moore PE. Defining and Promoting Pediatric Pulmonary Health: Leveraging Patient Reported Outcomes. *Pediatrics*. 2023 Sep 1;152(Suppl 2):e2023062292F. doi: 10.1542/peds.2023-062292F. PMID: 37656024; PMCID: PMC10484308.
282. Bochkov YA, Devries M, Tetreault K, Gangnon R, Lee S, **Bacharier LB**, Busse WW, Camargo CA, Choi T, Cohen R, De R, DeMuri GP, Fitzpatrick AM, Gergen PJ, Grindle K, Gruchalla R, Hartert T, Hasegawa K, Khurana Hershey GK, Holt P, Homil K, Jartti T, Kattan M, Kerckmar C, Kim H, Laing IA, Le Souëf PN, Liu AH, Mauger DT, Pappas T, Patel SJ, Phipatanakul W, Pongratic J, Seroogy C, Sly PD, Tisler C, Wald ER, Wood R, Lemanske RF Jr, Jackson DJ, Gern JE; program collaborators for Environmental influences on Child Health Outcomes. Rhinoviruses A and C elicit long-lasting antibody responses with limited cross-neutralization. *J Med Virol*. 2023 Aug;95(8):e29058. doi: 10.1002/jmv.29058. PMID: 37638498; PMCID: PMC10484091.
283. Shadid ILC, Lee-Sarwar K, Lu Z, Yadama A, Laranjo N, Carey V, O'Connor GT, Zeiger RS, **Bacharier L**, Guchelaar HJ, Liu YY, Litonjua AA, Weiss ST, Mirzakhani H. Early life gut microbiome in children following spontaneous preterm birth and maternal preeclampsia. *iScience*. 2023 Oct 28;26(12):108311. doi: 10.1016/j.isci.2023.108311. PMID: 38025771; PMCID: PMC10679898.
284. **Bacharier LB**, Maspero JF, Katelaris CH, Fiocchi AG, Gagnon R, de Mir I, Guilbert TW, Jackson DJ, Staudinger HW, Laws E, Mannent LP, Akinlade B, Maloney J, Tawo K, Khokhar FA, Li N, Hardin M, Abdulai RM, Lederer DJ, Robinson LB; Liberty Asthma EXCURSION Investigators. Assessment of long-term safety and efficacy of dupilumab in children with asthma (LIBERTY ASTHMA EXCURSION): an open-label extension study. *Lancet Respir Med*. 2023 Nov 10:S2213-2600(23)00303-X. doi: 10.1016/S2213-2600(23)00303-X. Epub ahead of print. PMID: 37956679.
285. Clay S, Alladina J, Smith NP, Visness CM, Wood RA, O'Connor GT, Cohen RT, Khurana Hershey GK, Kerckmar CM, Gruchalla RS, Gill MA, Liu AH, Kim H, Kattan M, **Bacharier LB**, Rastogi D, Rivera-Spoljaric K, Robison RG, Gergen PJ, Busse WW, Villani AC, Cho JL, Medoff BD, Gern JE, Jackson DJ, Ober CC, Dapas M. Gene-based association study of rare variants in children of diverse ancestries implicates TNFRSF21 in the development of allergic asthma. *J Allergy Clin Immunol*. 2023 Nov 7:S0091-6749(23)01396-9. doi: 10.1016/j.jaci.2023.10.023. Epub ahead of print. PMID: 37944567.
286. Weiss ST, Mirzakhani H, Carey VJ, O'Connor GT, Zeiger RS, **Bacharier LB**, Stokes J, Litonjua AA. Prenatal vitamin D supplementation to prevent childhood asthma: 15-year results from the Vitamin D Antenatal Asthma Reduction Trial (VDAART). *J Allergy Clin Immunol*. 2023 Oct 16:S0091-6749(23)01254-X. doi: 10.1016/j.jaci.2023.10.003. Epub ahead of print. PMID: 37852328.

Book Chapters and Invited Reviews:

1. **Bacharier LB:** Allergic disorders in the child. *In* Rudolph CD, Rudolph CM, Hostetter MK, Lister G, Siegel NJ (eds) *Rudolph's Pediatrics*, 21st Edition, McGraw-Hill 2003.
2. **Bacharier LB:** Adverse reactions to drugs. *In* Rudolph CD, Rudolph CM, Hostetter MK, Lister G, Siegel NJ (eds) *Rudolph's Pediatrics*, 21st Edition, McGraw-Hill 2003.
3. **Bacharier LB:** Adverse reactions to foods. *In* Rudolph CD, Rudolph CM, Hostetter MK, Lister G, Siegel NJ (eds) *Rudolph's Pediatrics*, 21st Edition, McGraw-Hill 2003.
4. **Bacharier LB:** Allergic rhinitis and conjunctivitis. *In* Rudolph CD, Rudolph CM, Hostetter MK, Lister G, Siegel NJ (eds) *Rudolph's Pediatrics*, 21st Edition, McGraw-Hill 2003.
5. **Bacharier LB:** Anaphylaxis. *In* Rudolph CD, Rudolph CM, Hostetter MK, Lister G, Siegel NJ (eds) *Rudolph's Pediatrics*, 21st Edition, McGraw-Hill 2003.
6. **Bacharier LB:** Serum sickness. *In* Rudolph CD, Rudolph CM, Hostetter MK, Lister G, Siegel NJ (eds) *Rudolph's Pediatrics*, 21st Edition, McGraw-Hill 2003.
7. **Bacharier LB** and Strunk RC: Asthma in the Older Child. *In* Leung DYM, Sampson H, Geha R, Szeffler S (eds) *Pediatric Allergy: Principles and Practice*, 1st Edition, Mosby, 2003.
8. Gern JE, **Bacharier LB**, Lemanske RF. Infections and Asthma. *In* Leung DYM, Sampson H, Geha R, Szeffler S (eds) *Pediatric Allergy: Principles and Practice*, 1st Edition, Mosby, 2003.
9. Patel AC and **Bacharier LB**. Asthma in children. *In* Rakel RE and Bope ET (eds) *Conn's Current Therapy*, 56th Edition, W.B. Saunders, 2004.
10. **Bacharier LB**. Childhood asthma. *Hospital Physician Pediatric Medicine Board Review Manual*. 2004; 2(4): 12-22.
11. MacDowell AL and **Bacharier LB**. Infectious triggers of asthma. *Immunol Allergy Clin N Am* 2005; 25:45-66.
12. Hahn E and **Bacharier LB**. The atopic march. *Immunol Allergy Clin N Am* 2005; 25:231-246.
13. Strunk RC, **Bacharier LB**, Bloomberg GR. Adolescents. *In* Szeffler SJ and Pedersen S (eds) *Childhood Asthma. Lung Biology in Health and Disease Series* (ed Claude Lenfant). Marcell Dekker, Inc, 2005.
14. Patel AC and **Bacharier LB**. Management of Persistent Asthma in Children. *In* Castro M and Kraft M (eds) *Clinical Asthma*, Elsevier Mosby, 2008.

15. **Bacharier L**, Horner CC, Figueroa ED, DeMuth K, Beigelman A, Borgmeyer AE, Gyr P, Silver E, Kertz LC, Thatayatikom S. Allergic Diseases. *In* The Washington Manual of Pediatrics. Lippincott Williams and Wilkins, 2009.
16. Rivera-Spoljaric K and **Bacharier L**. Pulmonary Diseases. *In* The Washington Manual of Pediatrics. Lippincott Williams and Wilkins, 2009.
17. **Bacharier LB** and Strunk RC: Asthma in the Older Child. *In* Leung DYM, Sampson H, Geha R, Szeffler S (eds) Pediatric Allergy: Principles and Practice, 2nd Edition, Mosby, 2010.
18. **Bacharier LB**. Evaluation and Management of Wheezing in Children. First Consult, Reed Elsevier, 2013.
19. **Bacharier LB**. Management of Pediatric Asthma. *In* Bernstein JA and Levy ML (eds). Clinical Asthma: Theory and Practice, 1st Edition, CRC Press, 2014.
20. **Bacharier LB** and Strunk RC: Asthma in the Older Child. *In* Leung DYM, Szeffler S, Bonilla FA, Akdis CA, Sampson H (eds) Pediatric Allergy: Principles and Practice, 3rd Edition, Elsevier, 2016.
21. **Bacharier L**, Beigelman A, Borgmeyer AE, Gyr P, Horner C, Kertz LC. Allergic Diseases and Asthma. *In* The Washington Manual of Pediatrics, 2nd Edition, Wolters Kluwer, 2016.
22. Stokes JR and **Bacharier LB**. Preventing the Development of Asthma: Early Intervention Strategies in Children. *In* Szeffler SJ, Holguin F, Wechsler ME (eds) Personalizing Asthma Management for the Clinician, Elsevier, 2018.
23. Jackson DJ, Lemanske Jr RF, **Bacharier LB**. Management of asthma in infants and children. *In* Burks, W, Holgate S, O’Heier R, Broide DH, **Bacharier LB**, Khurana Hershey G, Peebles RS (eds) Middleton’s Allergy: Principles and Practice, 9th Edition, Elsevier, 2019.
24. Durrani S, **Bacharier LB**, Guilbert TW. Diagnosis of asthma in infants and children. *In* Burks W, Holgate S, O’Heier R, Broide DH, **Bacharier LB**, Khurana Hershey G, Peebles RS (eds) Middleton’s Allergy: Principles and Practice, 9th Edition, Elsevier, 2019.
25. Kwong CG, **Bacharier LB**. Management of Asthma in the Preschool Child. *Immunol Allergy Clin North Am*. 2019 May;39(2):177-190. doi: 10.1016/j.iac.2018.12.003. Review. PubMed PMID: 30954169.
26. Polk BI, **Bacharier LB**. Potential Strategies and Targets for the Prevention of Pediatric Asthma. *Immunol Allergy Clin North Am*. 2019 May;39(2):151-162. doi:10.1016/j.iac.2018.12.010. Review. PubMed PMID: 30954167.
27. Stokes JR and **Bacharier LB**. Asthma in the older child: special considerations. *In* Leung DYM, Akdis CA, **Bacharier LB**, Cunningham-Rundles C, Sicherer SH, Sampson HA (eds) Pediatric Allergy: Principles and Practice, 4th Edition, Elsevier, 2020.

28. Rivera-Spoljaric K and **Bacharier LB**. Special considerations for the management of preschool wheeze. *In* Forno E and Saglani S (eds) *Severe Asthma in Children and Adolescents*, Springer, 2020.
29. Stokes JR, **Bacharier LB**. Prevention and treatment of recurrent viral-induced wheezing in the preschool child. *Ann Allergy Asthma Immunol*. 2020 Aug;125(2):156-162. doi: 10.1016/j.anai.2020.05.018. Epub 2020 May 23. PMID: 32454096.
30. Jackson DJ, **Bacharier LB**. Inhaled Corticosteroids for the Prevention of Asthma Exacerbations. *Ann Allergy Asthma Immunol*. 2021 Aug 13:S1081-1206(21)00572-X. doi: 10.1016/j.anai.2021.08.014. Epub ahead of print. PMID: 34400314.
31. Gaffin JM, Castro M, **Bacharier LB**, Fuhlbrigge AL. The Role of Comorbidities in Difficult-to-Control Asthma in Adults and Children. *J Allergy Clin Immunol Pract*. 2021 Dec 1:S2213-2198(21)01294-0. doi: 10.1016/j.jaip.2021.11.016. Epub ahead of print. PMID: 34863928.
32. Achten NB, van Rossum AMC, **Bacharier LB**, Fitzpatrick AM, Hartert TV. Long- Term Respiratory Consequences of Early-Life Respiratory Viral Infections: A Pragmatic Approach to Fundamental Questions. *J Allergy Clin Immunol Pract*. 2021 Dec 20:S2213-2198(21)01367-2. doi: 10.1016/j.jaip.2021.12.005. Epub ahead of print. PMID: 34942383.
33. Kanchongkittiphon W and **Bacharier LB**. Asthma. *In* Kau A, Monroy HJM, Polk BI, and Rigell CJ (eds) *Allergy, Asthma, and Immunology Subspecialty Consult*, 3rd Edition, Wolters Kluwer, 2022.
34. Saxena S, Rosas-Salazar C, Fitzpatrick A, **Bacharier LB**. Biologics and severe asthma in children. *Curr Opin Allergy Clin Immunol*. 2022 Nov 25. doi: 10.1097/ACI.0000000000000880. Epub ahead of print. PMID: 36730217.
35. **Bacharier LB**, Jackson DJ. Biologics in the treatment of asthma in children and adolescents. *J Allergy Clin Immunol*. 2023 Jan 24:S0091-6749(23)00006-4. doi: 10.1016/j.jaci.2023.01.002. Epub ahead of print. PMID: 36702649.

Editorials:

1. **Bacharier LB**. “Step-down” therapy for asthma: Why, when, and how? *J Allergy Clin Immunol* 2002;109: 916-9.
2. **Bacharier LB**. Oral food challenges – Are the results predictable? *Ann Allergy Asthma Immunol* 2004; 92:195-7.
3. **Bacharier LB**. Does exhaled nitric oxide measurement help distinguish between wheezing phenotypes in preschool children? *J Allergy Clin Immunol* 2008; 121; 711-2.
4. Guilbert TW and **Bacharier LB**. Controversies in the Treatment of the Acutely Wheezing Infant and Preschool Child. *Am J Respir Crit Care Medicine* 2011; 183:1284-5. PMID 21596826.

5. **Bacharier LB.** Vitamin D status at birth – an important and potentially modifiable determinant of atopic disease in childhood? *J Allergy Clin Immunol* 2014 Jan;133(1):154-5. doi: 10.1016/j.jaci.2013.07.034. Epub 2013 Aug 31. PubMed PMID: 24001801.
6. Beigelman A, Zeiger RS, Kelly HW, **Bacharier LB**; Childhood Asthma Research and Education Network of National Heart, Lung, and Blood Institute. The challenge of treating preschool wheezing episodes: the need for evidence-based approaches. *J Allergy Clin Immunol.* 2014 Apr;133(4):1016-7. doi: 10.1016/j.jaci.2014.01.005. Epub 2014 Feb 14. PubMed PMID: 24529412.
7. **Bacharier LB.** Early-life weight gain, prematurity, and asthma development. *J Allergy Clin Immunol.* 2014 May;133(5):1330-1. doi: 10.1016/j.jaci.2014.03.005. PubMed PMID: 24766877.
8. Castro M, **Bacharier LB.** Treatment for severe eosinophilic asthma-consistent effect of anti-interleukin-5 antibodies? *Lancet.* 2016 Sep 2. pii: S0140-6736(16)31537-9. doi: 10.1016/S0140-6736(16)31537-9. [Epub ahead of print] PubMed PMID: 27609409.
9. **Bacharier LB.** Reducing Exposure to Mouse Allergen Among Children and Adolescents With Asthma Is Achievable, but Is It Enough? *JAMA.* 2017 Mar 6. doi: 10.1001/jama.2016.21181. [Epub ahead of print] PubMed PMID: 28264092.
10. **Bacharier LB,** Szeffler SJ. Pediatric asthma - moving ahead faster than ever. *Curr Opin Allergy Clin Immunol.* 2017 Apr;17(2):96-98. doi: 10.1097/ACI.0000000000000353. PubMed PMID: 28225363.
11. Beigelman A, **Bacharier LB.** Oral corticosteroids in preschool children with severe episodes of virus-associated wheeze: to treat or not to treat? *J Allergy Clin Immunol.* 2018 Jun 29. pii: S0091-6749(18)309357. doi:10.1016/j.jaci.2018.06.025. [Epub ahead of print] PubMed PMID: 29966610.
12. Beigelman A, **Bacharier LB.** Oral corticosteroids in preschool children with severe episodes of virus-associated wheeze: To treat or not to treat? *J Allergy Clin Immunol.* 2018 Aug;142(2):405-406. doi:10.1016/j.jaci.2018.06.025. Epub 2018 Jun 30. PubMed PMID: 29966610.
13. Fitzpatrick AM, **Bacharier LB.** One step forward, 2 steps back: The enigma of preschool wheeze. *J Allergy Clin Immunol.* 2019 Jan 17. pii: S0091-6749(19)30029-6. doi: 10.1016/j.jaci.2019.01.005. [Epub ahead of print] PubMed PMID: 30660640.
14. **Bacharier LB,** Guilbert TW. Key Issues in Pediatric Asthma. *Immunol Allergy Clin North Am.* 2019 May;39(2):xv-xvi. doi:10.1016/j.iaac.2019.02.001. PubMed PMID: 30954179.
15. **Bacharier LB,** Guilbert TW. New Directions in Pediatric Asthma. *Immunol Allergy Clin North Am.* 2019 May;39(2):283-295. doi: 10.1016/j.iaac.2018.12.012. Review. PubMed PMID: 30954177.
16. Coverstone AM and **Bacharier LB.** Airway inflammatory patterns in severe childhood asthma - How might this change general practice? *J Allergy Clin Immunol Pract* 2019 Jul - Aug;7(6):1813-1814. doi: 10.1016/j.jaip.2019.04.017.

17. **Bacharier LB**, Guilbert TW. Preschool Wheezing Phenotypes Exhibit Heterogeneity in Disease Expression and Prognosis. *Ann Am Thorac Soc*. 2019 Jul;16(7):820-822. doi: 10.1513/AnnalsATS.201903-234ED. PubMed PMID: 31259636; PubMed Central PMCID: PMC6600835.
18. Reddel HK, FitzGerald JM, Bateman ED, **Bacharier LB**, Becker A, Brusselle G, Buhl R, Cruz AA, Fleming L, Inoue H, Ko FW, Krishnan JA, Levy ML, Lin J, Pedersen SE, Sheikh A, Yorgancioglu A, Boulet LP. GINA 2019: a fundamental change in asthma management: Treatment of asthma with shortacting bronchodilators alone is no longer recommended for adults and adolescents. *Eur Respir J*. 2019 Jun 27;53(6). pii: 1901046. doi: 10.1183/13993003.01046-2019. Print 2019 Jun. PubMed PMID: 31249014.
19. **Bacharier LB**. Azithromycin During Wheezing Illnesses Among Preschool Children - Does the Airway Microbiota Provide Insights into Mechanism? *Am J Respir Crit Care Med*. 2021 Apr 23. doi: 10.1164/rccm.202104-0842ED. Epub ahead of print. PMID: 33891824.
20. **Bacharier LB**. Asthma Guidelines: Where to next?: A Perspective for *Annals of Allergy, Asthma & Immunology*. *Ann Allergy Asthma Immunol*. 2022 Jan 5:S1081-1206(21)01342-9. doi: 10.1016/j.anai.2021.12.017. Epub ahead of print. PMID: 34998979.
21. Rosas-Salazar C, **Bacharier LB**. The Biologic Asthma Response Score: A Blueprint to Address Biologic Failure in Severe Asthma? *Ann Allergy Asthma Immunol*. 2023 (in press).

Abstracts:

1. **Bacharier LB**, Schneider LC. Peanut anaphylaxis in a patient with the Wiskott-Aldrich syndrome. *Annals of Allergy, Asthma & Immunology* 1997;78:134.
2. **Bacharier LB**, Schneider LC, Twarog FJ. Antibiotic allergy and desensitization in a tertiary care pediatric hospital. *J Allergy Clin Immunol* 1997;99:S430.
3. Stahlman JE, **Bacharier LB**, Schneider LC, Geha RS. Granulocyte colony stimulating factor (G-CSF) corrects neutropenia in X-linked hyper-IgM syndrome (HIGM1). *J Allergy Clin Immunol* 1997;99:S395.
4. Castro M, Robertson L, Jenkerson M, Li Q, Bloch S, Storch G, Chatila T, **Bacharier L**, Strunk R. Respiratory Syncytial Virus (RSV) induces RANTES production in infants – Initial results from the RBEL study – RSV Bronchiolitis in Early Life. *Am J Respir Crit Care Med* 2000;161:A898.
5. Angelini F, **Bacharier L**, Fujiwara H, Brodeur SR, Blom AM, Dahlback B, Tsitsikov E, Geha RS. C4b binding protein (C4BP) binds CD40 and modulates CD40 signaling. *J Allergy Clin Immunol* 2001; 107:S137.
6. **Bacharier LB**, Mauger DT, Lemanske RF, Schend V, Sorkness C, Strunk RC. Classifying asthma severity in children – Is measuring lung function helpful? *J Allergy Clin Immunol* 2002;109:S266

7. Strunk RC, Sternberg AL, **Bacharier LB**, Szeffler SJ. Nocturnal awakening due to asthma in children with mild to moderate asthma in the Childhood Asthma Management Program. *J Allergy Clin Immunol* 2002;109:S352.
8. **Bacharier LB**, Schechtman K, Jenkerson M, Robertson L, Tegtmeier L, White D, Strunk RC, Castro M. Predictors of bronchodilator response after severe Respiratory Syncytial Virus bronchiolitis – Results from the RSV Bronchiolitis in Early Life (RBEL) Study. *Am J Respir Crit Care Med* 2002; 165: A183.
9. Bradley J, Tegtmeier L, Robertson L, Schechtman K, **Bacharier L**, Strunk RC, Castro M. Severity of Respiratory Syncytial Virus bronchiolitis is affected by cigarette smoke exposure and atopy. *Am J Respir Crit Care Med* 2002; 165: A127.
10. Wang H, Rahm A, Bonfiglio J, Schechtman K, **Bacharier L**, Strunk R, Castro M. Immunologic development early in life following severe Respiratory Syncytial Virus bronchiolitis. *J Allergy Clin Immunol* 2004; 113: S268.
11. **Bacharier LB**, Strunk RC, Zeiger RS, Taussig LM, Paul IM, Beiler J, Szeffler SJ on behalf of the National Heart, Lung and Blood Institute's Childhood Asthma Research and Education Network. Early warning signs of wheezing with acute respiratory tract illnesses in children: A survey of Parents. *Am J Respir Crit Care Med* 2004; 169: A148.
12. Elizur A, **Bacharier LB**, Strunk RC. Prevention of Pediatric Intensive Care Unit (PICU) Admissions: Focus on improving asthma care early in acute exacerbations. *J Allergy Clin Immunol* 2005;115: S144.
13. MacDowell AL, **Bacharier LB**. Fungal sinusitis leading to loss of vision in a healthy immunocompetent child. *J Allergy Clin Immunol* 2005;115: S198.
14. Thatayatikom A, **Bacharier LB**, Lee P, Hodgdon KL, Bloomberg GR, Strunk RC. A new off-line model of exhaled nitric oxide (eNO) measurement for preschool children. *J Allergy Clin Immunol* 2005;115: S214.
15. Chiang G, Strunk RC, **Bacharier LB**. Characteristics of pediatric asthma patients with bronchodilator irreversible airflow obstruction. *J Allergy Clin Immunol* 2006;119: S1.
16. Black W, Yin-DeClue H, Schweiger T, Wang H, Bonfiglio J, **Bacharier LB**, Strunk R, Schectman KB, Castro M. Immunologic development 6 years after severe Respiratory Syncytial Virus (RSV) Bronchiolitis in the RBEL Cohort. *Proc Am Thoracic Society* 2006; 3: A782.
17. DeMuth KA, Strunk R, Bloomberg G, Liu A, **Bacharier L**. Effect of age and aeroallergen sensitivities on acquisition of aeroallergen sensitivities among children with asthma in the Childhood Asthma Management Program. *J Allergy Clin Immunol* 2007: 119: S68.
18. Kertz LC, Strunk RC, **Bacharier LB**. Analysis of a system to provide consistent care of patients with fatality prone asthma. *J Allergy Clin Immunol* 2007: 119: S79.

19. Ramukumar TP, Zhang L, Schweiger T, Yin-DeClue H, Black W, Cochran R, Christie C, Schechtman KB, **Bacharier LB**, Castro M. Persistent airway inflammation following RSV bronchiolitis is a predictor of asthma – Results from the RBEL Cohort. *Am J Respir Crit Care Med* 2007; 175: A16.
20. Castro M, **Bacharier LB**, Schweiger T, Yin-DeClue H, Black W, Savchenko OB, Cochran RS, Christie CB, Ramkumar TP, Schechtman KB, Strunk RC. Severe RSV bronchiolitis early in life is associated with persistent airway hyperresponsiveness – Results from the RBEL cohort. *Am J Respir Crit Care Med* 2007; 175: A77.
21. Savchenko O, Yin-DeClue H, Schwieger T, Black W, Cochran R, Christie C, Ramkumar TP, Schechtman KB, **Bacharier LB**, Castro M. Lower levels of plasmacytoid dendritic cells are associated with the development of asthma after severe RSV bronchiolitis - Results from the RBEL cohort. *Am J Respir Crit Care Med* 2007; 175: A308.
22. Beigelman A, Mauger D, Mao J, **Bacharier LB**. Association between fractional concentration of exhaled nitric oxide (FeNO) levels and risk of respiratory tract illness in preschool children with moderate to severe intermittent wheezing. *J Allergy Clin Immunol* 2008; 121: S76.
23. Randolph AG, Weiss ST, Graham DA, Patel K, Black W, **Bacharier LB**, Castro M. Development of asthma after hospitalization for Respiratory Syncytial Virus Bronchiolitis in early life. *Am J Respir Crit Care Med* 2008; 177: A193.
24. DeMartino S, Ramkumar RP, Schweiger T, Aysola R, Black W, Yin-DeClue H, Christie C, **Bacharier L**, Castro M. Development of asthma post viral respiratory tract infection in children may depend on virus type. *Am J Respir Crit Care Med* 2008; 177: A193.
25. Cohen RH, **Bacharier LB**, Black W, Zheng J, Schweiger T, Yin-Declue H, Christie C, Ramkumar TP, Schechtman K, Strunk R, Castro M. Outcomes following severe Respiratory Syncytial Virus Bronchiolitis in infancy: A prospective cohort study. *Am J Respir Crit Care Med* 2008; 177: A193.
26. Silver E, Black W, Schweiger T, Christie C, Yin-Declue H, Ramkumar TP, Schechtman KB, **Bacharier LB**, Castro M. Impulse Oscillometry following severe RSV bronchiolitis - Results from the RSV Bronchiolitis in Early Life (RBEL) cohort. *Am J Respir Crit Care Med* 2008; 177: A55.
27. Ramkumar TP, DeMartino S, **Bacharier L**, Schweiger T, Black W, Yin-Declue H, Castro M. Viral-induced cytokine profile in the upper airway following acute viral RTI is associated with physician diagnosed asthma. *Am J Respir Crit Care Med* 2008; 177: A360.
28. **Bacharier LB**, Black W, Zheng J, Schweiger T, Yin-Declue H, Christie C, Ramkumar TP, Schechtman KB, Strunk RC, Castro M. RSV Asthma Predictive Index (RAPI) – Results from the RBEL cohort. *Am J Respir Crit Care Med* 2008; 177: A192.
29. Win P, Castro M, Price J, Kemper C, Gupta R, Leung M, Yin-Declue H, Schweiger T, **Bacharier LB**, Zheng J, Christie C, Ramkumar TP, Schechtman KB, Atkinson J. T-regulatory cells in the RSV Bronchiolitis in Early Life (RBEL) Cohort. *Am J Respir Crit Care Med* 2008; 177: A75.

30. Beigelman A and **Bacharier, LB**. Verification of the Food-Specific IgE Cutoff Values that Predict Negative Oral Food Challenges. *J Allergy Clin Immunol* 2010; 125, AB88.
31. Horner CC, Garbutt JM, **Bacharier, LB**, Strunk RC. Nocturnal Asthma Symptoms without Awakenings. *J Allergy Clin Immunol* 2010; 125, AB3.
32. Rivera-Spoljaric K, Jaenicke M, Garbutt JM, **Bacharier LB**, Strunk RC. Are There Characteristics That Determine Which Type of Early Signs and Symptoms of Asthma a Patient Will Have? *J Allergy Clin Immunol* 2010; 125, AB97.
33. Newton LT, Strunk RC, **Bacharier LB**, Garbutt JM, Rivera-Spoljaric K. Background Variability During a Well Period of Parent-Identified Respiratory and Non-Respiratory Signs and Symptoms in Children with Asthma *J Allergy Clin Immunol* 2010; 125, AB99.
34. Turner T, Yin-DeClue H, Christie C, Schweiger T, Gregory G, Wilson B, Zheng J, Schechtman KB, **Bacharier L**, Castro M. Peripheral Blood Dendritic Cells in Children Following Rsv Bronchiolitis: Initial Results From the Rsv Bronchiolitis In Early Life-II (RBEL-II) Study. *Am J Respir Crit Care Med* 2011. 183:A4167.
35. Sumino K, Zheng J, Burgdorf D, Schweiger T, Yin-DeClue H, Sajol G, Giri T, Schechtman KB, Storch G, **Bacharier LB**, Holtzman MJ, Castro M. HMPV bronchiolitis is associated with increased risk for subsequent wheezing in early life. *Am J Respir Crit Care Med* 2013, 187:A2530
36. Ma J, **Bacharier LB**, Schweiger T, Gregory G, Zheng J, Schechtman KB, Castro M. Effect Of Indoor Allergen Exposure on Allergic Sensitization And Timing Of Asthma Diagnosis After Severe Respiratory Syncytial Virus Bronchiolitis. *Am J Respir Crit Care Med* 2013, 187:A2519
37. Beigelman A, **Bacharier LB**, Schweiger T, Gregory G, Yin-DeClue HY, Sajol G, Giri T, Sierra O, Isaacson-Schmid M, Wilson B, Zheng J, Schechtman K, Castro M. Vitamin D Levels Are Not Associated With Clinical Outcomes Of Acute Severe RSV Bronchiolitis. *Am J Respir Crit Care Med* 2013, 187:A5895
38. Sajol G, Turkoz A, Wilson B, Zheng J, Schweiger T, Gregory G, Yin-DeClue H, Giri T, Sierra O, **Bacharier L**, Castro M. TSLP Influence On The Severity And Immune Response During RSV Bronchiolitis. *Am J Respir Crit Care Med* 2013, 187:A2588
41. **Bacharier LB**, Coverstone A, Schweiger T, Gregory G, Yin-DeClue HY, Sajol G, Giri T, Atkinson J, Sierra O, Zheng J, Schechtman K, Castro M. Regulatory T Cells in Acute Severe RSV Bronchiolitis. *Am J Respir Crit Care Med* 2013, 187:A5899.
42. Beigelman A, Zhou Y, Castro M, Schweiger T, Zheng J, Yin-DeClue HY, Sajol G, Giri T, Sierra O, Isaacson-Schmid M, Schechtman K, Wylie KM, Storch GA, Weinstock GM, **Bacharier LB**. Upper Airway Microbiome Richness Is Associated With Future Wheezing Among Infants Hospitalized With Respiratory Syncytial Virus Bronchiolitis. *Am J Respir Crit Care Med* 2014, 189:A5116.

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43. Coverstone AM, Zheng J, **Bacharier LB**, Fitzpatrick AM, Teague WG, Meyers DA, Peters SP, Li X, Li H, Wenzel SE, Aujla S, Gaston BM, Bleeker ER, Moore WC, Castro M. Predictors Of Response To Bronchodilators In Children With Severe Asthma. *Am J Respir Crit Care Med* 2014, 189:A3839.
44. Kitcharoensakkul M, **Bacharier LB**, Schweiger T, Yin-DeClue HU, Sajol G, Sierra O, Gregory G, Atkinson J, Wilson B, Zheng J, Schechtman K, Castro M. Impaired Regulatory T Cell Responses Are Associated With Recurrent Wheezing After Acute Severe RSV Bronchiolitis. *Am J Respir Crit Care Med* 2014, 189:A3678.