

CURRICULUM VITAE

1. PERSONAL INFORMATION

NAME: Andrea Ferreira-Gonzalez, Ph.D.
OFFICE ADDRESS: Division of Molecular Diagnostics
Pathology Department
Virginia Commonwealth University
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Richmond, VA 23298-0248
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BOARD CERTIFICATION :

Diplomate of American Board of Bioanalysis (ABB)- High Complexity Laboratory Director, 2003-present
Diplomate of the American Board of Bioanalysis (ABB)- Clinical Consultant, 2012-present

3. EDUCATION:

Ph.D. George Washington University, Washington, DC. Graduate School of Arts and Science
Field: Microbiology/Immunology, 1989-1994. Preceptor: Carleton T Garrett, MD, PhD

4. ACADEMIC APPOINTMENTS or OTHER SIGNIFICANT WORK EXPERIENCE:

CLIA Laboratory Director, IQ Genetix Laboratory, Manassas VA, 2022-present

Chair, Division of Molecular Diagnostics, Department of Pathology, Virginia Commonwealth University, 2009-present

Professor with tenure, Department of Pathology, Virginia Commonwealth University, 2005-present

AMP Leadership Award. Given by the Association for Molecular Pathology (AMP) to a member that has significantly made a contribution to the practice of molecular diagnostics and influenced the field of molecular pathology. 2010

IFCC Award for Significant Contributions in Molecular Diagnostics. This award honors an individual who has made unique contributions to promoting and understanding molecular biology and its application in Clinical Chemistry and Laboratory Medicine worldwide. 2020

GRANT SUPPORT:

Principal Investigator:

Cepheid Corporation. Clinical Trial Site Contract. Ferreira-Gonzalez A, PI. Total Direct cost: \$21,450. 15% time and effort. April 2008.

Ipsogen Corporation. Clinical Trial Site contract. Ferreira-Gonzalez PI. Total Direct Cost: \$15,000. 15% Time and effort. May 2008

Roche Molecular Systems. Clinical Trail Site Contract- Ferreira-Gonzalez PI. Total Cost \$156,000. 15% Time and Effort. January 2008- January 2009.

Trimgen Corporation. Clinical Trial Site for Cytochrome P450 2C9 and VKORC1A. Ferreira-Gonzalez PI, Total Cost \$18,478. October 2007

Gentris Corporation. Clinical Trial Site for Cytochrome P450 2C9 and VKORC1A. Ferreira-Gonzalez PI, Total Cost \$15,678. February 2007

Nanogen Corporation. Clinical Trial Site for CF CFTR carrier screening testing. Ferreira-Gonzalez, PI, Total Cost \$18,567, January 2007

Roche Molecular Systems. Clinical Trail Site Contract- Ferreira-Gonzalez PI. Total Cost \$216,000. 15% Time and Effort. January 2006- January 2007.

Roche Molecular Systems. Clinical Trail Site Contract- Ferreira-Gonzalez PI. Total Cost \$197,000. 15% Time and Effort. January 2005- January 2006.

Roche Molecular Systems. Clinical Trail Site Contract- Ferreira-Gonzalez PI. Total Cost \$178,000. 15% Time and Effort. January 2004- January 2005.

Roche Molecular Systems. Clinical Trail Site Contract- Ferreira-Gonzalez PI. Total Cost \$84,346. 10% Time and Effort. July 2004- February 2005.

Nanogen: Clinical Research Study: Nanogen Cystic Fibrosis test, clinical trial protocol. Ferreira-Gonzalez, PI. Total direct cost: \$35,000. 5% Time and effort: September- October 2002.

Roche Molecular Systems: Ampliprep-Amplicor COBAS HCV validation, clinical trail fro FDA submission. Ferreira-Gonzalez PI. Total direct cost: \$33,200. 5% Time and effort: April 2003-July 2003

Co-Investigator

Richmond Eye and Ear. Pharmacogenetics of Glaucoma. Ferreira-Gonzalez Co-PI. Total Direct \$20,000. November 2007-November 2008.

Pfiffer-Personalized Medicine: Anticoagulation Treatment. Ferreira-Gonzalez Co-PI, 5% Time and Effort, direct cost \$32,500. September 2005-September 2007

UO-1 NHI-DK069859-01A1. Molecular signature in Hepatocellular Carcinomas. Ferreira-Gonzalez Co-PI 1% Time and effort. September 2005-2009.

CTRF- State of VA. Cancer Genomics and Microarray. Ferreira-Gonzalez, Co-PI. Total Direct Cost \$,3,000,000. 5% Time and effort. August 2002-2004.

RO1-NR04395PNI-Based Stress Management interventions in HIV Disease.

Nancy McCain, PI; Ferreira-Gonzalez collaborator; total direct cost: \$126,490. 5% Time and effort. September 1 1997- August 31 1999.

RO1-NR 04395 Supplemental: Stress Management and Viral Load in HIV Disease. Co-Principal Investigator: Total cost: \$ 155,201. 10% Time and effort. September 1 1997- August 31 1999.

Roche Molecular Systems: Protocol ID No.20.1. Clinical Research Study: Amplicor HCV test and COBAS Amplicor HCV test, clinical trail for FDA submission, M. Shiffman, PI; Ferreira-Gonzalez co-investigator. Total cost: \$224,948. 5% Time and effort. Spetember 1998- December 1999.

CA-66535-06: AIDS Malignancy Bank. Barbara Amaker, PI; Ferreira-Gonzalez Co-PI; total direct cost: \$56,490. 5% Time and effort. August 1 1998- July 3 2002.

GenProbe: Clinical Research Study: GenProbe HCV test, clinical trail protocol for FDA submission, M. Shiffman, PI; Ferreira-Gonzalez co-PI. Total cost: \$224,948. 10% Time and effort. June 2001- February 2002

INVITED SEMINARS

Clinical Biotechnology II: Recombinant DNA and Polymerase Chain Reaction (PCR) methods in the diagnosis of microbial and neoplastic Disease. Center for Advanced Training in Cell and Molecular Biology. Catholic University of America, Washington, DC. Laboratory Instructor and Lecturer. June 18-22 1991.

Clinical Biotechnology II: Recombinant DNA and PCR technology in the diagnosis of neoplastic and infectious disease. Center for Advanced Training in Cell and Molecular Biology. Catholic University of America, Washington, DC. Coordinator, Laboratory Instructor and Lecturer. June 17-21 1992.

Clinical Biotechnology II. Recombinant DNA and PCR technology in the diagnosis of neoplastic and infectious disease. Center for Advanced Training in Cell and Molecular Biology. Catholic University of America, Washington, DC. Co-coordinator, Laboratory Instructor and Lecturer. June 21-25 1993.

College of American Pathologist, Pathology Practicum: Diagnostic Molecular Pathology. George Washington University, Washington, DC. Co-coordinator, Lecturer and Laboratory Instructor. Two-week post-graduate workshop held each month during February to July 1993.

Pathology Practicum: Diagnostic Molecular Pathology. Virginia Commonwealth University, Richmond VA. Director. Two-week post-graduate workshop held each month July 1994-present.

Molecular Pathology Oncology Diagnostics. Future impact of molecular pathology, CAP-ASCP Workshop, CAP Spring National Meeting, Chicago, IL, April 1997.

The Role of PCR in the diagnosis of infectious disease of the lung, I International Symposium of Infectious Lung Disease, Latin-American and Argentinean Society of Infectious Disease, Cordoba, Argentina, March 24, 1997.

Pulmonary Tuberculosis: Role of the molecular diagnostics laboratory, Round Table in Tuberculosis: where are we now? I International Symposium of Infectious Lung Disease, Latin-American and Argentinean Society of Infectious Disease, Cordoba, Argentina, March 25 1997.

Minimal Residual Disease: from the research bench to the bedside. Keynote speaker, MD/Ph.D. program annual retreat, Medical College Campus of Virginia Commonwealth University, Richmond, VA, September 1997.

Validation of in-house and commercial diagnostics tests. Workshop on Standards for Nucleic Acid Diagnostic Applications. National Institute of Standards (NIST), March 15-18, 1998

Quantitative RT-PCR for HIV and HCV. Virginia Pathology Society, Spring Meeting, Richmond, VA May 2, 1998

Validation of a quantitative PCR method for detection and monitoring of CMV disease in transplant patients. Pathology Ground Rounds, Pathology Department, Medical College Campus of Virginia Commonwealth University, Richmond, VA, May 29, 1998.

CMV viral load for diagnosis and monitoring CMV disease in bone marrow and solid organ transplant patients. Grand Rounds, Division of Critical Care and Pulmonary Medicine, Internal Medicine, Medical College Campus of Virginia Commonwealth University, Richmond, VA, June 10, 1998.

CMV viral load for diagnosis and monitoring CMV disease in bone marrow and solid organ transplant patients. Grand Rounds, Division of Infectious Disease, Internal Medicine, Medical College Campus of Virginia Commonwealth University, Richmond, VA, March 23, 1998.

Practical issues when establishing a molecular diagnostics laboratory. Clinical Laboratory Management Association Annual Meeting, Philadelphia, PA, August 21, 1998.

Molecular Biology and Infectious Disease. Infectologia 98. Symposium in Prevention, Diagnosis and Treatment of Infectious Disease. Cordoba, Argentina, August 27, 1998.

The impact of Molecular Biology in the diagnosis of Tuberculosis. Infectologia 98. Symposium

in Prevention, Diagnosis and Treatment of Infectious Disease. Cordoba, Argentina, August 27, 1998.

CMV viral load for diagnosis and monitoring CMV disease in bone marrow and solid organ transplant patients. Moon Conference, Division of Transplant Surgery, Surgery Department, Medical College Campus of Virginia Commonwealth University, Richmond, VA, September 1, 1998.

Molecular Pathology Oncology Diagnostics. Future Impact of Molecular Pathology, CAP-ASCP Workshop, CAP Fall National Meeting, Washington DC, October 21, 1998.

Automation in the PCR Clinical Laboratory. Roche Diagnostics Pre-meeting Corporate Workshop, Annual Meeting Association for Molecular Pathology, Crystal City, Virginia, November 5, 1998

Troubleshooting issues and validating protocols: HCV and CMV. Infectious Disease Workshop. Annual Meeting Association for Molecular Pathology, Crystal city, November 7, 1998.

CMV viral load for diagnosis and monitoring CMV disease in solid organ transplant patients. Grand Rounds, Division of Infectious Disease, Department of Internal Medicine, Medical College Campus of Virginia Commonwealth University, Richmond, VA, August, 1999.

DNA Array-Based Detection of Nucleic Acids in Molecular Oncology and Microbiology. Advances in nucleic acid detection and quantification workshop. CAP-ASCP workshop. CAP Spring Meeting, Boston, MA April 10, 2000.

Increased oversight for genetic testing. Genetic Workshop. VII Annual Meeting Association for Molecular Pathology, Philadelphia, PA November 2001.

Regulatory update. Genetics Lecture Series. Nanogen Inc., San Diego, CA March 6-7 2002

Microarray and prostate cancer analysis. AACC Edutrak 3402. Oncogenomics: a focus on prostate cancer. American Association for Clinical Chemistry, Orlando, FL 2002

ASR and Laboratory Developed Assays in the Nanogen Molecular Biology Workstation. Corporate Workshop. American Association for Clinical Chemistry, Orlando, FL 2002.

Genetic Workshop-Case Presentation. Association for Molecular Pathology, Dallas, TX, 2002

CF ASR and user developed applications. Corporate workshop. American Association for Clinical Chemistry, Philadelphia, July 2003

Role of HIV viral load and HIV genotyping in clinical practice. ASCP Teleconference Series. October 2003

ASR Working Group Recommendations- FDA-IVD Professional Round Table-Washington DC, October 21 2003.

- Third Party Payer (non) Reimbursement of Molecular Pathology Testing. Annual Meeting Association for Molecular Pathology, Orlando, FL 2003
- Reimbursement for Genetic Tests: A laboratorian's perspective. Secretary's Advisory Committee on Genetic Health and Society. Department of Health and Human Services. March 2, 2004. Washington DC
- Molecular Diagnostics of Viral Infections in Transplant Patients. ASCP Teleconference Series. March 15 2004.
- Assay Validation and Quality Control in Molecular Diagnostics. XI Annual Meeting of the Mexican Association for Clinical Biochemistry. Mexico City, Mexico, March 2005.
- Quality Control and Quality Assurance in the Era of Microarray. Grand Rounds. Department of Pathology. University of Virginia, Charslostville. May 15 2004
- Quality Control and Quality Assurance in the Era of Microarray. American Association for Chemical Chemistry 2005 Annual Meeting, July 15 2005
- Molecular Diagnostics of BKV Viral Infection in Transplant Patients. American Association for Chemical Chemistry 2005 Annual Meeting, July 17 2005
- Quality Control and Quality Assurance in the Era of Microarray. Cool Tools for Nucleic Acids, American Association for Chemical Chemistry 2006 San Diego Meeting, March 2006
- Reimbursement in Molecular Diagnostics. Annual Meeting American Association for clinical Chemistry, Chicago July 2006
- Managing Information for a Molecular Diagnostic Laboratory. Cerner HealthCare Conference, Florida, October 2006
- Managing Information for a Molecular Diagnostic Laboratory. G2-Conference-Integrating MDx Into Your Lab. Florida, February 2007.
- Laboratory Workflow Automation at Virginia Commonwealth University. Personalized Healthcare Workgroup. June 2007. Webcast. HHS.
- Reimbursement in Molecular Diagnostics. Annual Meeting American Association for Clinical Chemistry, Chicago July 2007
- Essential Principles of Amplification Technologies. IVD Technology Webcast, September 24, 2007.
- Secretary's Advisory Committee on Genetics, Health and Society Oversight on Genetic Testing Report- An update. CLIAC Atlanta, GA September 6 2007.
- Secretary's Advisory Committee on Genetics, Health and Society Oversight on Genetic Testing Report- An update. Advisory Committee on Heritable Disorders and Genetic Diseases in

Newborns and Children. Washington DC September 21, 2007.

Regulatory Update. Secretary's Advisory Committee on Genetics, Health, and Society: Draft Report on the U.S. System of Oversight of Genetic Testing. Annual Meeting Association for Molecular Pathology, Los Angeles, CA November 2007.

Integrating Microarray Technology in the Clinical Laboratory. Drug Information Association, Washington DC, December 13 2007

Regulatory Update. Secretary's Advisory Committee on Genetics, Health, and Society: Draft Report on the U.S. System of Oversight of Genetic Testing. AdvaMed Annual Meeting, Washington DC, February 2008

Laboratory Perspective of Multiplex Assays. American College of Medical Genetics Annual Meeting, March 2008, Phoenix AZ

Regulatory Update. Secretary's Advisory Committee on Genetics, Health, and Society: Draft Report on the U.S. System of Oversight of Genetic Testing. American Association for Clinical Chemistry. Webcast. Washington DC, March, 2008

Case Study: Hospital and Academic Medical Center Lab Molecular Strategy. Business & Financial Strategies for Molecular Diagnostics – G2 Conference, April 1 2008, Cambridge, MA

Laboratory organization, regulation, and reimbursement in molecular pathology. Principles and practices of molecular diagnostics. AMP and AACC review course. Baltimore, May 2008.

Laboratory organization, regulation, and reimbursement in molecular pathology. Principles and practices of molecular diagnostics and pharmacogenomics. Annual Meeting American Association for Clinical Chemistry, Washington DC July 2008.

Laboratory Testing in Personalized Medicine: Regulatory and Legislative Issues from the Laboratory Perspective. The 2009 Personalized Medicine Conference, Baltimore, MD April 2009

Laboratory Testing in Personalized Medicine: Regulatory and Legislative Issues from the Laboratory Perspective. Molecular Diagnostics: Expert Opinion - Clinical Human Genetic Testing Clinical Laboratory Management Association. Tampa FL, May 4 2009

SACGHS Report on Genetics Testing oversight in the USA. Institute of Medicine (IOM). June 6 2009

Laboratory organization, regulation, and reimbursement in molecular pathology. Principles and practices of molecular diagnostics and pharmacogenomics. Annual Meeting American Association for Clinical Chemistry, Chicago July 2009.

Oversight of genetic testing in the United States of America. Direct to consumer genetic testing: a cross academies workshop. National Academies of Science, August 2009.

Basics of Nucleic Acid Technology. Annual Meeting American Association for Clinical Chemistry, Anaheim, CA July 2010.

Navigating the Future of Personalized Medicine. Duchema Meeting, Frankfurt, Germany February 3 2011.

Next Generation Sequencing in Clinical Practice and Public Health Practices. Annual meeting, College of medical Genetics, March 15 2011, Vancouver Canada

Case Study: Molecular Diagnostics at VCU. Molecular Diagnostics 2011 Spring Conference G2 Intelligence, Boston MA April 13-15, 2011

FDA's History of Oversight of Laboratory Developed Tests. 27th Clinical Virology Symposium, Daytona Beach, FL May 2011

Basics of Nucleic Acid Technology. Annual Meeting American Association for Clinical Chemistry, Atlanta GA, July 2011.

Next Generation Sequencing in Clinical Practice. Annual Meeting American Association of Clinical Chemistry, Atlanta GA July 2011

Update in Molecular Diagnostics. Annual Meeting of Association of Pathology Chairs, Monterrey CA July 2011.

Introduction to Sanger Sequencing in Clinical Practice. Third Annual Next Generation Diagnostics Summit. Cambridge Health Institute. Washington DC, August 2011

Clinical Studies and Validation of Molecular Diagnostics. Third Annual Next Generation Diagnostics Summit. Cambridge Health Institute. Washington DC, August 2011.

Next Generation Pathogens for Immunocompromised Patient. Third Annual Next Generation Diagnostics Summit. Cambridge Health Institute. Washington DC, August 2011

Regulatory Update. Annual Meeting Association for Molecular Pathology. Dallas, TX November 2011.

Molecular Diagnostics for the Practicing Physician. Bon Secours Health System Continuing Education, Richmond VA November 2011

Molecular Diagnostics- Workshop on Principles and Practices. International Federation of Clinical Chemistry, Guatemala City, Guatemala, December 12-18, 2011

Laboratory-Developed Tests in the genomic medicine era: validation, regulation and challenges face by new technologies and clinical applications. Biomarker world Congress. Philadelphia May 2012

Laboratory-Developed Tests in the genomic medicine era: validation, regulation and challenges

face by new technologies and clinical applications. Massachusetts General Hospital, Harvard Medical School, Department of Pathology Grand Rounds. Boston, MA May 23, 2012

Next Generation Sequencing in Clinical Practice. Annual Meeting American Association of Clinical Chemistry, Los Angeles July 2012

Laboratory-Developed Tests in the genomic medicine era: validation, regulation and challenges face by new technologies and clinical applications. Biomarker world Congress. Philadelphia May 2012

Sequencing Methods in Diagnostic Laboratory Medicine. IV Annual Next Generation Diagnostics Summit. Washington DC August 21-22, 2012

Laboratory-Developed Tests in the genomic medicine era: validation, regulation and challenges face by new technologies and clinical applications. ADAPT 2012, Washington DC, September 19, 2012

Navigating the future of Molecular Diagnostics. Annual Association for Molecular Pathology, Los Angeles, California, October 2012

Molecular Diagnostics- Workshop on Principles and Practices. International Federation of Clinical Chemistry, Kuala Lumpur, Malaysia, November 16-21, 2012

Laboratory developed tests in the genomic era: validation, regulation, and challenges faced by new technologies and clinical applications. Biomarkers and Diagnostics World Congress 2013. Philadelphia, PA May 2013.

Next Generation Sequencing in Clinical Practice. Annual Meeting American Association of Clinical Chemistry, Houston TX July 2013

Molecular Diagnostics- Workshop on Principles and Practices. International Federation of Clinical Chemistry, Cape Town, South Africa, July 12-19, 2013

Laboratory-Developed Tests in the genomic medicine era: validation, regulation and challenges face by new technologies and clinical applications. ADPAT Congress. Boston November 2013

Regulatory Issues Facing Laboratory-Developed Tests. Annual meeting of the Association for Molecular Pathology, Phoenix AZ, November 2013

Practical issues in Molecular Diagnostic practice. American Association for Clinical Chemistry, Washington DC May 2014.

Next Generation Sequencing in Clinical Practice. Annual Meeting American Association of Clinical Chemistry, Chicago IL July 2014

Molecular Diagnostics- in the era of genomic medicine. International Federation of Clinical

Chemistry. Santiago de Chile, Chile August 6, 2014

Automation in Molecular Diagnostics. Annual meeting Association for Molecular Pathology, Washington DC, November 12-16 2014.

Molecular Diagnostics- Workshop on Principles and Practices. International Federation of Clinical Chemistry, Manila, Philippines December 12-19, 2014

Next Generation Sequencing in Clinical Practice. Personalized Medicine Coalition. Seminar on Personalized Medicine. Northwestern University, Chicago IL, May 2015

Molecular Diagnostics- Workshop on Principles and Practices. International Federation of Clinical Chemistry, Vilnius, Lithuania July 10-18 2015

Next Generation Sequencing in Clinical Practice. Annual Meeting American Association of Clinical Chemistry, Atlanta, GA July 2015

Advances in Molecular Diagnostics of Infectious Disease. Innovation in Molecular Diagnostics. XXII Latin American Congress of Clinical Biochemistry and Laboratory Medicine, COLABIOCLI 2015. Quito, Peru, September 2015

The Future of LDT and NGS Oversight. Lab Institute 2016. G2 Intelligence. Washington DC. October 2015

Health Systems Infrastructure and Information Challenges Related to Personalized Medicine. Personalized Medicine Coalition/ BIO Solutions Summit. Washington DC. October 2015.

Future Trends in Molecular Diagnostics Testing. Analyst Day. Association for Molecular Pathology annual meeting. Austin, TX. November 2015.

Laboratory-Developed Tests in the Genomic Medicine Era: Validation, Regulation and Challenges Faced by New Technologies and Clinical Applications. Biomarker World Congress, Cambridge Health Institute. Philadelphia PA March 18-20, 2016

Next Generation Sequencing in Clinical Practice. Annual Meeting American Association of Clinical Chemistry, Philadelphia, PA, August 2016.

Biomarker Tests for Molecularly Targeted Therapies: Key to Unlocking Precision Medicine. 4th Joint EFLM-UEMS Congress. Warsaw, Poland September 21-24, 2016.

An NGS Inter-Laboratory Study to Assess Performance and QC. Next Generation Dx Summit. Cambridge Health Institute. Washington, DC August 23-25, 2016.

Molecular Diagnostics- Workshop on Principles and Practices MDx. International Federation of Clinical Chemistry, Targu Mures, Romania December 9-16 2016

Utility of Implementing Clinical NGS Assays as Standard of Care in Oncology. Molecular Medicine Tri-Conference February 11-16, San Francisco, CA

Next Generation Sequencing: Clinical Laboratory Applications. AACC Middle East, Abu Dhabi, UE March 22-24, 2017

Practical Considerations for Realizing Precision Oncology in Clinical Laboratories. AACC Middle East, Abu Dhabi, UE March 22-24, 2017

Next Generation Sequencing in Clinical Practice. AACC Webinar May 17, 2017. Washington, DC

Practical Considerations for Realizing Precision Oncology in Clinical Laboratories. AACC annual meeting, August 2, 2017 San Diego, CA

The State of Genomics Guided Clinical Decision Support, PMWC 2018, January 22-25, 2018, San Francisco CA.

Molecular Diagnostics- Workshop on Principles and Practices MDx. International Federation of Clinical Chemistry (IFCC), Martin, Slovakia, February 18-25, 2018

Next Generation Sequencing in Clinical Practice. The Best of AACC in the Middle East. Abu Dhabi March 22-24, 2018

Next Generation Sequencing in Clinical Oncology. The Best of AACC in the Middle East. Abu Dhabi, United emirates. March 22-24, 2018.

Precision Medicine and Molecular Tumor Boards. Annual meeting German Society Clinical Pathology. Mannheim, Germany. May 14-16, 2018.

Quality Control in the era of Next Generation Sequencing. Annual meeting American Association of Clinical Chemistry. Chicago, US. August 2018.

Real World Applications in Solid Tumor, Genetics, Infectious Disease, and Hematopathology disciplines Association for Molecular Pathology Global Congress, Hong Kong May 2019

The molecular tumor board as imperative for integrating blood-based cancer testing into clinical decision making. EuroMedLab Barcelona, Spain 2019

Quality Control in the era of Next Generation Sequencing. Annual meeting American Association of Clinical Chemistry. Anaheim, CA, US. August 2019.

Precision Medicine: yesterday, today, and tomorrow. Annual meeting Brazilian Association of Laboratory Medicine. September 2019, Rio de Janeiro, Brazil.

Non-Invasive Prenatal Testing and its clinical implications. The Best of American Association of Clinical Chemistry in the Middle East. Dubai, United Emirates. October 2019.

Precision Medicine in clinical practice. The Best of American Association of Clinical Chemistry

in the Middle East. Dubai, United Emirates. October 2019.

Molecular Diagnostics- Advanced Workshop on Principles and Practices MDx. International Federation of Clinical Chemistry (IFCC), Kuala Lumpur, Malaysia, January 31-February 10, 2020.

Molecular Point of Care Testing in Developing Countries. 110th Annual meeting USCAP. Los Angeles, CA. February 28-March 4, 2020.

Molecular Diagnostics- Workshop on Principles and Practices MDx. International Federation of Clinical Chemistry (IFCC). La Paz, Bolivia, March 1-9, 2020.

The Roadmap to Recognition of Molecular Professionals as Qualified Healthcare Professionals. Annual meeting Association for Molecular Pathology. November 2020

Quality Control in the era of Next Generation Sequencing. Annual meeting American Association of Clinical Chemistry. Online meeting, US. December 2020.

Applications of Cell free DNA in clinical practice. Annual meeting American Association of Clinical Chemistry. Atlanta, GA July 2021.

Solid Tumor Summit- Comprehensive genomic profiling or targeted NGS panels. Web summit, June 29th, 2021

Exome sequencing in Rare Genetic Disease. Qiagen webinar on demand- March, 2021.

INTERNATIONAL COMMITTEES:

2005-20019	IFCC. Committee on Clinical Molecular Biology Curriculum. Member.
2020-present	IFCC. Committee on Clinical Molecular Biology Curriculum. Advisor Member.

NATIONAL COMMITTEES:

1997	Task Force on Advisability of Creating a Certifying Examination in Clinical Molecular Diagnostics. American Association Clinical Chemistry, Member.
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1997-2001	Subcommittee in Quantitative Molecular Methods in Infectious Disease (MM-6). National Committee for Clinical Laboratory Standards (NCCLS). Member.
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1997-1998	Clinical Practice Committee, Representative for Genetics Subdivision. Association for Molecular Pathology.
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1999-2000	Clinical Practice Committee, Representative for Genetics Subdivision. Association for Molecular Pathology.
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1999-2002	CDC- CLIAC- Clinical Laboratory Improvement Advisory Committee. Member advisory committee to Secretary of HHS.
2001-2003	Professional Relations Committee, Chair. Association for Molecular Pathology.
2002	Nominating Committee. Molecular Pathology Division. Member. American Association for Clinical Chemistry.
2003	Nominating Committee. Molecular Pathology Division. Chair. American Association for Clinical Chemistry.
2004-2016	Professional Relations Committee. Member. Association for Molecular Pathology.
2004-2005	Molecular Pathology Division, Treasurer. American Association for Clinical Chemistry.
2002-2005	Subcommittee in Sequencing Methods (MM-9). National Committee for Clinical Laboratory Standards (NCCLS). Member.
2002-2004	Molecular and Clinical Genetics Devices Panel of the Medical Devices Advisory Committee, Center for Devices and Radiological Health, FDA. Consultant.
2005-2006	Annual Meeting Organizing Committee 2006, American Association for Clinical Chemistry. Member.
2006-2007	Nominating Committee, Chair. American Association for Clinical Chemistry.
2007	President. Association for Molecular Pathology.
2006-2010	Secretary's Advisory Committee on Genetics, Health and Society (SACGHS). Member, advisory committee to Secretary of HHS.
2007-2008	Secretary's Advisory Committee on Genetics, Health and Society (SACGHS) Genetic Testing Oversight Task Force. Chair, Advisory Committee to Secretary of HHS.
2006-2009	Personalized Healthcare Workgroup. Member, advisory committee to Secretary of HHS.
2009-2013	National Cancer Institute's Office of Biorepositories and Biospecimen Research (OBBR), member, Scientific Steering Committee.
2014- 2015	National Commission for Forensic Science. Member. US Department of Justice.

2013-2014	LDT Oversight Working Group. Association for Molecular Pathology. Chair.
2015- present	CLIA Modernization Working Group. Association for Molecular Pathology. Member.
2015-2017	Secretary and Treasurer. Association for Molecular Pathology. Member.
2015-2017	Executive Committee. Member. Association for Molecular Pathology. Member.
2015-2017	Board of Directors. Member. Association for Molecular Pathology. Member.
2015-2017	Strategic Initiatives Committee. Member. Association for Molecular Pathology. Member.
2004-present	Molecular and Clinical Genetics Devices Panel of the Medical Devices Advisory Committee, Center for Devices and Radiological Health, FDA. Member.
2015-present	Economic Affairs Committee. Member. Association for Molecular Pathology.
2015-present	Veterans Affairs (VA) Genomic Medicine Program Advisory Committee to advise the Secretary of Veterans Affairs.
2017-2018	AMP Europe 2018. Chair Organizing Committee. Achieving dramatic insights into precision medicine. Rotterdam, Netherland April 30-May 2, 2018
2018-2019	AMP Global 2019. Member Organizing Committee. Hong Kong, China May 16-18, 2019.
2018-2019	AMP International Pathology Outreach Meeting. Member Organizing Committee. Hong Kong, China May 15, 2019.
2018- present	AACC Molecular Pathology Division. Ad Hoc Board Member.
2019-present	Professional Relations Committee. Member. Association for Molecular Pathology.
2022-present	Policy and External Advisory Core Committee. American Association for Clinical Chemistry. Member

1997-2000	Internal Review Board (alternate), Member.
1999-2005	Task Force on Biochips. Member. Virginia Commonwealth University
1999	Internal Review Board. Member Exempt Research Committee. Virginia Commonwealth University.
2000-2015	Internal Review Board. Member. Virginia Commonwealth University
2005	Search committee for Director Technology Transfer Office, Member
2001	Internal Review Board. Ad-Hoc Committee on Tissue and DNA Banking
2011	SOM Diversity Working Group
2011-2014	VCU Faculty Promotion and Tenure Policies Review Committee
2013-2015	VCU Faculty Senate
2015	School of Medicine Search Committee Chair Radiation Oncology.
2018-2019	VCU Task Force Genomic Core Facilities at VCU
2020-present	VCU Health System COVID-19 Response Task Force.
2020-present	VCU Health System COVID-19 Leadership Committee.
2020-present	VCU Health System. Healthy Workplace/Back to Campus Committee

Department of Pathology

1996-1998	Total Quality Management Committee. Department of Pathology
1996	Department of Pathology Re-engineering Committee. Member
1996-present	Department of Pathology Grand Rounds Committee. Member
1997	Clinical Pathology Re-engineering Committee, Department of Pathology. Member
1997	Department of Pathology, Faculty Search Committee- Hematopathologist.
1997-1998	Department of Pathology Outcome Research Committee. Member
1997-2010	Department of Pathology Space Committee, VCU
1997	Department of Pathology, Search Committee for Department of Pathology Administrator,
1999	Department of Pathology, Search Committee for Blood Bank Director. Member
2000-present	Department of Pathology Improvement Committee.
2000-present	Department of Pathology Executive Committee
2000-present	Department of Pathology Leadership Committee
2001-2004	Department of Pathology, Faculty Search Committee. Member
2001-present	Department of Pathology Residency Training Committee. Member
2002	Department of Pathology, Search Committee for Director of Microbiology Laboratory. Member
2002-present	Department of Pathology, Clinical Practice Strategic Planning Committee. Member
2003	Department of Pathology, Search Committee for Neuropathologist. Member
2003-2006	Department of Pathology, Compensation Committee. Member
2009	Department of Pathology, Hematology Faculty Search Committee. Member
2011	Department of Pathology, Cytogenetic Faculty Search Committee. Chair
2011-2012	Department of Pathology, Hematology Faculty Search Committee. Member
2008-present	Department of Pathology Executive Committee

2008-present 2012	Department of Pathology Performance Improvement Committee Department of Pathology Search Committee Assistant/Associate Director Cytogenetics. Chair
2014 2014-2015	Promotion Committee. Member. Dr Bachmann Department of Pathology Search Committee Assistant/Associate Director Molecular Diagnostics. Chair
2015-2016	Department of Pathology Search Committee Assistant/Associate Director Hematology. Member
2016-2019	Department of Pathology Search Committee Assistant/Associate Director Cytogenetics Laboratory. Chair.
2016-2019	Department of Pathology Search Committee Assistant/Associate Director Molecular Diagnostics Laboratory. Chair
2017-present	Department of Pathology Search Committee Assistant/Associate Director Hematology. Member
2019	Promotion Committee. Member. Dr Boikos
2020-present	Promotion Committee. Member. Dr Bachmann
2020-present	Promotion Committee. Member. Dr Harrell
2020-present	Promotion Committee. Member. Dr Senthil

8. OTHER SIGNIFICANT SCHOLARLY, RESEARCH OR ADMINISTRATIVE EXPERIENCE

8.1 GRADUATE STUDENTS TRAINED ADVISOR

PhD Students

Mas, Valeria R, Dissertation Project: 1999-2003

COMMITTEE MEMBER

PhD Students

Chavabroon Dechsukhum, MD PhD. Graduate Student. 1997-2001. Committee Member

Culp Stephen, MD, PhD Graduate Student. 1998-2001. Committee Member

Watson Brian, MD, Ph.D Graduate Student. 1998-2001. Committee Member

Natapol Supanatsetakul, Ph.D Graduate Student. 2000-2002. Committee Member

Kanokwan Kittiniyom Ph.D. Graduate Student. 1999-2003. Committee Member

Paulie Papavasaliou, MD PhD Graduate Student. 2004-2009. Committee member

Kelly Ratferod, PhD. Graduate Student. 2015-2019. Committee member

MS Students

Leslie Filicky. MS Biostatics. 2004 Committee Member

Denise Rodier, MS Forensic Sciences. 2006 Committee member

Nichole, MS CLS. 2011-2012 Committee member

Pamela Morris, MS CLS 20-12-2013. Advisor

8.2 Post-doctoral trainees

Valeria Mas, Ph.D.	Molecular Diagnostics Trainee.
Arlene Buller, Ph.D.	Molecular Genetics Post-Doctoral Trainee. Current position: Director Genetics Laboratory, Quest Laboratories. San Capistrano, CA
Mary Barcus, M.D.	Molecular Pathology Post-Doctoral Trainee. 1999-2000. Current position: Pathologist and Research Scientist. NCI. Frederick, MD
Catherine Dumur, Ph.D.	Post Doctoral Trainee. 2000-2004. Current position: Director of Molecular diagnostics, Aurora Diagnostics Bernhardt Laboratories. Jacksonville FL.
Valeria Mas, Ph.D.	Post-Doctoral Trainee. 2001-2003. Current position: Associate Professor of Surgery, University of Virginia
Patrik Viztaka, MD, PhD.	Post-Doctoral Trainee. Current position: Medical Director. GeneDx Reference Laboratory
Jane Juusola, PhD	Post-doctoral trainee. Current position: Director Medical Exome. GeneDx Reference Laboratory
Andreea Popa, PhD	Post-doctoral trainee. Current position: Associate Director Molecular Genetics Laboratory. Human Genetics, Yale University.
Chen Yan	Post-doctoral trainee. Current position: Assistant Director Molecular Genetics Laboratory. Human Genetics, University of Michigan

8.3 MAJOR TEACHING ASSIGNMENTS

1985-1986	General Virology Course. Lecturer. Virology Institute, School of Medicine, National University of Cordoba, Cordoba, Argentina. Post-graduate course.
1986	Immunology I. Teaching Assistant. Department of Immunology. School of General Chemistry. National University of Cordoba, Cordoba, Argentina. Graduate course.
1993	Diagnostic Molecular Pathology Practicum for Pathology Residents. George Washington University, Washington, DC. Co-coordinator, Lecturer and Laboratory Instructor. Two-weeks workshop held during the months of February, June and July for training Pathology Residents in the field of Molecular Diagnostics. Responsibilities: Curriculum development, co-coordinator of laboratory and lecture activities, lecture in basics of nucleic acid technology, technical and clinical application applications of Polymerase Chain Reaction (PCR), Reverse Transcriptase-PCR, Single Stranded Conformation Polymorphism and DNA Sequencing.
1995	Fourth Year Medical School Elective (Course Number: MIV 0555-Pathology). Preceptor for a 2-month laboratory rotation for MIV in Current Topics in Molecular Diagnostics.
1994	Pathology 521. Lecturer. Special Topics in Pathology: "Molecular Diagnostics in the Clinical Laboratory". Department of Pathology, Virginia Commonwealth University, Richmond, VA. Lecturer
1995-present	Molecular Pathology Practicum. Pathology Department. Medical College of Virginia, Richmond, VA. Co-director, develop curriculum and lecturer. Ongoing two-weeks monthly workshop for training Pathology Residents in the field of Molecular Diagnostics.

- 1999 Fourth Year Medical School Elective (Course Number MIV 4601-Pathology). Molecular Pathology Practicum. Two-week workshop in technical and clinical application of nucleic acid technology in clinical laboratory medicine. Course co-director. Curriculum development, coordination, and lecturer. March 1999
- 1999 Pathology 507. Lecturer. Carcinogenesis. “Molecular Diagnostics in Oncology”. Department of Pathology, Virginia Commonwealth University.
- 2000-2001 Human Genetics 614. Lecturer. “DNA chips in the clinical laboratory”. Department of Human Genetics, Virginia Commonwealth University
- 2001-2002 Clinical Laboratory Sciences 612. Lecturer. “Parentage Testing”, “HIV and HCV viral load in clinical practice”, “HIV and HCV genotyping in clinical practice” and “Pharmacogenomics”. Clinical Laboratory Sciences. Virginia Commonwealth University.
- 2004-present Clinical Laboratory Sciences 602. Lecturer. “Parentage Testing”, “HIV and HCV viral load in clinical practice”, “HIV and HCV genotyping in clinical practice” and “Pharmacogenomics”. Clinical Laboratory Sciences. Virginia Commonwealth University.
- 2004-2005 Pathology 507. Lecturer. Translational research. Department of Pathology, Virginia Commonwealth University.
- 2006-present Medical School MIII-IV Elective- Molecular Pathology and Hematology.
- 2006-present Medical School MIII-IV Elective- Molecular Pathology Practicum
- 2005-2006 BIO 521 Biochemistry II-Pharmacy. Lecturer- Molecular Diagnostics I and II
- 2006-2009 PHAR 672 Advance Topics in Pharmacogenomics. Lecturer: HIV-1 Therapy
- 2008-present CLLS 602 Molecular diagnostics for CLS students.
- 2010-present PATH691 Advance Topics in Pathology
- 2016-present School of Medicine. First Year Medical Students. Introduction to Genetics

CONSULTING WORK:

- 1996-2000: Eastern Virginia Medical School, Norfolk, Virginia. Laboratory design, workflow, CAP Inspection and compliance with CLIA’88.
- 1997: Consolidated State Laboratories, Richmond, VA. Laboratory design, member search committee for Molecular Diagnostics Technical Director.
- 1998-1999 DynaCorp Health Research Services: Development of Quality Assurance and Proficiency Programs for Molecular Genetic Testing for Center for Disease Control and Prevention (CDC). Expert panelist.

2003-2006	CDC-CAREC. Development of a Molecular Diagnostics Laboratory. Laboratory design, QA/QC programs, test validation, etc.
2002-2008	Nanogen. Scientific Advisory Board member
2003-2009	Roche Diagnostics Inc- Scientific Advisory Board member
2003-2010	Roche Molecular Systems -Consultant
2004-2005	Trailblazer Health Enterprises Inc, Virginia. Consultant
2006-2010	Luminex- Scientific Advisory Board member
2009-2013	Cannon Life Sciences, Scientific Advisory Board member
2009-2010	Sentara Health System- Norfolk General. Laboratory design, workflow, CAP accreditation, test menu, training.
2012	INOVA Health System- Fairfax Hospital. Laboratory design, workflow, CAP accreditation, test menu, training
2012	Boston Children's Hospital. Laboratory design, workflow, CAP accreditation, test menu, training.
2017-present	nRichDx. Scientific Advisory Board. Ann Harbor, MI
2017-present	Qiagen. Global Genomics Scientific Advisory Board. Hilden, Germany.
2017-present	Chromecode. Scientific Advisory Board member. San Diego, CA.

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