

CURRICULUM VITAE

1. PERSONAL INFORMATION

1.1 NAME: Andrea Ferreira-Gonzalez, Ph.D.

1.2 PLACE OF BIRTH:

1.3 VISA STATUS:

1.4 SOCIAL SECURITY #:

1.5 HOME ADDRESS:

1.9 OFFICE ADDRESS: Molecular Diagnostics Division
Pathology Department
Virginia Commonwealth University
403 North 13th St
Clinical Support Center Room 247
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2. LICENSURE :

2.1 BOARD CERTIFICATION :

Diplomate of American Board of Bioanalysis (ABB)- High Complexity Laboratory Director, 2003

3. EDUCATION:

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

National University of Cordoba, Cordoba, Argentina. School of General Chemistry
MS in Clinical Biochemistry, 1985.

4. ACADEMIC APPOINTMENTS or OTHER SIGNIFICANT WORK EXPERIENCE:

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

Associate Professor on Tenure Track, Department of Pathology, Virginia Commonwealth University,

2003-2004

Associate Professor, Department of Pathology, Virginia Commonwealth University, 2000-2003

Assistant Professor, Department of Pathology, Virginia Commonwealth University, 1994-2000

5. MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS

American Association for Cancer Research
Association for Molecular Pathology
Women in Cancer Research
American Association Clinical Chemistry

6. SPECIAL AWARDS, FELLOWSHIPS AND OTHER HONORS:

6.1 AWARDS

- 1994 **Mary Louise Robbins Graduate Student Award** for originality and independence of work. Department of Microbiology, George Washington University.
- 2003 **NCI- PAR 03-098 & 03-099, “Cancer Prognosis” study section.** Ad Hoc member

6.2 FELLOWSHIPS

- 1981-1982 **Teaching Assistant.** Department of General Chemistry. School of General Chemistry. National University of Cordoba.
- 1983 **Junior Scholarship.** Central Clinical Laboratory, University Hospital, School of Medicine. National University of Cordoba, Cordoba, Argentina.
- 1984 **Senior Scholarship.** Central Clinical Laboratory, University Hospital, School of Medicine, National University of Cordoba, Cordoba, Argentina.
- 1985-1986 **Fellowship.** Virology Institute. School of Medicine. National University of Cordoba, Cordoba, Argentina.
- 1986 **Teaching Assistant.** Department of Immunology. School of General Chemistry. National University of Cordoba, Cordoba, Argentina.

6.3 GRANT SUPPORT:

Current:

Principal Investigator:

Roche Molecular Systems. Clinical Trail Site Contract- Ferreira-Gonzalez PI. Total Direct Cost

\$84,346. 10% Time and Effort. July 2004- February 2005.

Past:

Principal Investigator:

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-Amplisor 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

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 direct 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 direct 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 direct cost: \$224,948. 10% Time and effort. June 2001- February 2002

6.4 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-weeks post-graduate workshop held each month during February to July 1993.

Pathology Practicum: Diagnostic Molecular Pathology. Virginia Commonwealth University, Richmond VA. Director. Two-weeks 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. AACCC 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.
- 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

7. MAJOR COMMITTEES:

7.1 NATIONAL COMMITTEES:

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| 1997 | Task Force on Advisability of Creating a Certifying Examination in Clinical Molecular Diagnostics. American Association Clinical Chemistry, Member. |
| 1997-2001 | Subcommittee in Quantitative Molecular Methods in Infectious Disease (MM-6). National Committee for Clinical Laboratory Standards (NCCLS).Member |
| 1997-1998 | Clinical Practice Committee, Delegate for Genetics Subsection. Association for Molecular Pathology |

1999-2000	Clinical Practice Committee, Delegate for Genetics Subsection. Association for Molecular Pathology
1999-2002	Clinical Laboratory Improvement Advisory Committee (CLIAC). Member advisory committee to Secretary of HHS.
2001-2003	Chair, Professional Relations Committee. Association for Molecular Pathology
2002	Nominating Committee. Molecular Diagnostics Subdivision. American Association for Clinical Chemistry
2003	Nominating Committee. Molecular Diagnostics Subdivision. American Association for Clinical Chemistry
2004-present	Professional Relations Committee. Member. Association for Molecular Pathology
2004	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
2004-2007	Molecular and Clinical Genetics Devices Panel of the Medical Devices Advisory Committee, Center for Devices and Radiological Health, FDA. Member
2005-2006	Annual Meeting Organizing Committee 2006, American Association for Clinical Chemistry. Member
2006	Chair, Nominating Committee, American Association for Clinical Chemistry
2006	President elect. Association for Molecular Pathology
2007	President. Association for Molecular Pathology
2008	Past President. Association for Molecular 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-present	Department of Pathology Space Committee, VCU
1997-2000	VCU, Internal Review Board (alternate), Member.
1998	Department of Pathology, Search Committee for Department of Pathology Administrator,
1999	Department of Pathology, Search Committee for Blood Bank Director. Member
1999-present	VCU Task Force on Biochips. Member. Virginia Commonwealth University
2000	VCU Internal Review Board. Member Exempt Research Committee. Virginia Commonwealth University.
2000-present	VCU Internal Review Board. Member. Virginia Commonwealth University
2001	VCU Internal Review Board. Ad-Hoc Committee on Tissue and DNA Banking
2001-present	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-present	Department of Pathology, Compensation Committee. Member

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-present. Committee member

MS Students

Leslie Filicky. MS Biostatics. 2004 Committee Member

8.2 Post-doctoral trainees

Valeria Mas. Molecular Diagnostics Trainee. 1999

Arlene Buller, Ph.D. Molecular Genetics Post-Doctoral Trainee. 1998-2000. Current position: Associate 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. GeneLogic, Gaithersburg, MD

Catherine Dumur, Ph.D. Post Doctoral Trainee. 2000-2004. Current position: Assistant Professor, Virginia Commonwealth University. Richmond, VA

Valeria Mas, Ph.D. Post-Doctoral Trainee. 2001-2003. Current position: Assistant Professor of Surgery, Virginia Commonwealth University

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.

1995 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. On going 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 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.
- 2004-2205 Pathology 507. Lecturer. Translational research. Department of Pathology, Virginia Commonwealth University.

8.4 REVIEWER FOR JOURNALS AND GRANTING INSTITUTIONS

MEMBER EDITORIAL BOARDS

1998-present Journal Clinical Laboratory Analysis. R. Mc Pherson, Ed in Chief

AD HOC REVIEWER:

Journal Molecular Diagnostics
Journal Molecular Pathology
Clinical Chemistry
Molecular Diagnosis
Modern Pathology
Human Pathology
Transplantation
Biotechniques

GRANTS REVIEWS:

2003 NCI- PAR 03-098 & 03-099, “Cancer Prognosis” study section. Ad Hoc member

8.5 CONSULTING WORK:

- 1996: 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-present CDC-CAREC. Development of a Molecular Diagnostics Laboratory. Laboratory design, QA/QC programs, test validation, etc.
- 2002-2004 Nanogen. Scientific Advisory Board member
- 2003-present Roche Molecular Systems- Scientific Advisory Board member
- 2003-present Roche Diagnostics-Consultant
- 2004-2005 Trailblazer Health Enterprises Inc, Virginia. Consultant

8.6 CLINICAL ACTIVITIES

- 1996-present **Director Molecular Diagnostics Laboratory**, Molecular Diagnostics Laboratory, Division of Molecular Diagnostics, Department of Pathology.
- 1994-1996 **Molecular Diagnostics Specialist**. Molecular Diagnostics Laboratory, Division of Molecular Diagnostics, Department of Pathology

9. BIBLIOGRAPHY:

9.1 PAPERS PUBLISHED

1. Zapata, M., **Ferreira-Centeno, A.**: Antibody prevalence to human Polyomavirus BK in general population and dialyzed patients in the city of Cordoba. Argentine Magazine of Microbiology, 17: 85-88, 1985.
2. Nates, S., **Ferreira-Centeno, A.**, Marques, A., Zapata, M.: A rapid method for determining specific IgM in primary rubella infection. Argentine Magazine of Microbiology, 19: 153-156, 1987.
3. Rodriguez, ER. Nasim, S., Hsia, J., Sandin, RL., **Ferreira, A.**, Hilliard, BA., Ross, AM., Garrett, CT.: Human immunodeficiency virus in cardiac myocytes and dendritic cells individually microdissected from right ventricular endomyocardial biopsy tissue: detection by multiplex, nested polymerase chain reaction (PCR). American J. Cardiology, 68: 1511-1520, 1991.
4. Kimmel, P.L., Phillips, T.M., **Ferreira-Centeno, A.**, Farkas-Szallasi, T., Abraham, A.A., Garrett, C.T.: Idiopathic IgA nephropathy in patients with human immunodeficiency virus infection. New England Journal of Medicine, 327: 702-706, 1992.
5. Garrett, C.T., **Ferreira-Centeno, A.**, Nasim, S.: Molecular Diagnostics: issues of utilization,

- regulation and organization. *Clin Chimica Acta*, 217: 85-103, 1993.
6. Kimmel, P.L., **Ferreira-Centeno, A.** Garrett, C.T.: Viral DNA in microdissected renal biopsy tissue from HIV infected patients with nephrotic syndrome. *Kidney International*, 43: 1347-1352, 1993.
 7. Kimmel, P.L., Phillips, T.M., **Ferreira-Centeno, A.**, Abraham, A.A., Garrett, C.T.: HIV-associated immune-mediated renal disease. *Kidney International*, 44: 1-14, 1993.
 8. Shivapurkar, N., Tang, Z., **Ferreira, A.**, Nasim, S., Garrett, C.T., Alabaster, O.: Sequential analysis of K-ras mutation in aberrant crypt foci and colonic tumors induced by azoxymethane in Fisher-344 rats on high risk diet. *Carcinogenesis*, 15(4): 776-778, 1994.
 9. Garrett, C.T., Weymouth, L., **Ferreira-Gonzalez, A.**: Molecular diagnostics testing: the rough road to acceptance. *CAP Today*, October: 54-55, 1994
 10. **Ferreira-Gonzalez, A.**, DeAngelo, A.B., Garrett, C.T.: Ras oncogene activation during hepatocarcinogenesis of the B6C3F1 male mice by dichloroacetic and trichloroacetic acid. *Carcinogenesis*, 16(3): 495-500, 1995.
 11. McPherson, R.A.; **Ferreira-Gonzalez, A.**; Fisher, L. M.; Garrett, C.T.: Detection of activated protein C resistance by polymerase chain reaction/restriction fragment polymorphism. *Molecular Pathology Check Sample*, ASCP, December 1995.
 12. **Ferreira-Gonzalez, A.**, Garrett, C.T.: Molecular Diagnostics: from the research bench to the clinical bench. *Clinical Laboratory Management Review*, 9(3):231-239, 1995.
 13. **Ferreira-Gonzalez, A.** Garrett, C.T. Pitfalls in establishing a molecular diagnostics laboratory. *Human Pathology*, 27(5): 437-440, 1996.
 14. **Ferreira-Gonzalez, A.**, Shiffman, ML, Lofland, DH, Langley, MR, Gainey, DW, Garrett, C.T.: Assessing clinical utility of hepatitis C virus quantitative RT-PCR data: implications for identification of responders among α interferon-treated patients. *Molecular Diagnosis*, 1(2): 1-11, 1996.
 15. Garrett, C.T., **Ferreira-Gonzalez, A.**: FDA Regulation of Analyte Specific Reagents (ASRs)- Implications for the nucleic acid-based molecular testing. *Diagnostics Molecular Pathology*, 5(3):151-153, 1996.
 16. **Ferreira-Gonzalez, A.**, Fisher, L, Lehman C, Langley, MR, Lofland DH, Xia, Q, Nguyen, N, Modesto D, Willoughby, J, Wilkinson, D.S., Garrett C.T.: Molecular detection of resistance to activated protein C due to a common mutation in the coagulation factor V gene causing hereditary predisposition to thrombosis. *J Clin Lab Analysis*, 11: 328-335, 1997.
 17. Shiffman, ML, Hofman, CM, Thompson, EB, Koshy A, **Ferreira-Gonzalez, A.**, Contos, MJ, Luketic, VA, Sanyal, AJ, Mills, AS, and Garrett, C.T.: Treatment of chronic hepatitis C with interferon: Histologic response is associated with a decline in HCV-RNA titer. *Hepatology*: 26(3):780-785, 1997.

18. Picone, CE, **Gonzalez A**, Cole TJ, Sessler C.: Non-resolving pneumonia. *Chest*: 1998 114(3):923-927.
19. Mas, V, Alvarellos, T, Albano, S, de Boccardo, G, Giraudo, C, Garrett, CT, **Ferreira-Gonzalez, A**. Utility of Cytomegalovirus (CMV) viral load in renal transplant patients in Argentina. *Transplantation*: 1999 67(7): 1-6.
20. Radaeva S, **Ferreira-Gonzalez A**, Sirica AE. Overexpression of c-neu and c-met during rat liver cholangiocarcinogenesis: a link between biliary intestinal metaplasia and mucin-producing cholangiocarcinoma. *Hepatology* 29: (5), 1999.
21. **Ferreira-Gonzalez A**, Fisher RA, Weymouth, LA, Langley, MR, Luke R, Wilkinson DS, Garrett CT. Clinical utility of a Quantitative PCR for diagnosis of Cytomegalovirus disease in solid organ transplant patients. *Transplantation*, 68(7):1-6, 1999
22. Shiffman ML; Hofmann CM; Contos MJ; Luketic VA; Sanyal AJ; Sterling RK; **Ferreira-Gonzalez A**; Mills AS; Garret C. A randomized, controlled trial of maintenance interferon therapy for patients with chronic hepatitis C virus and persistent viremia. *Gastroenterology* 1999; 117(5):1164-72
23. **Ferreira-Gonzalez A**, Yanovich S, Langley MR, Weymouth LA, Wilkinson DS and Garrett CT. Enhanced analytical sensitivity of a quantitative PCR for CMV using a modified nucleic acid extraction procedure. *Journal Clinical Laboratory Analysis*, 2000; 14:32-37.
24. Ben-Ezra, J., Hazelgrove, K., **Ferreira-Gonzalez, A.**, and Garrett, C.T. Can PCR help to distinguish benign from malignant lymphoid aggregates in bone marrow aspirates. *Arch Path Lab Med*, 2000 Apr;124(4):511-5.
25. Barcus, ME, **Ferreira-Gonzalez, A**; Buller A, Wilkinson, DS; Garrett, CT. Genetic Changes in Solid Tumors Seminars. *Seminars in Surgical Oncology*, 2000; 18:358-370.
26. Dechsukhum, C., Ware, J.L., **Ferreira-Gonzalez, A.**, Wilkinson, D.S., and Garrett, C.T. Detection of a Novel Truncated WT1 Transcript in Human Neoplasia. *Mol Diagn*. 2000 Jun;5(2):117-28
27. Buller, A, Pandya, A, Jackson-Cook, C, Bodurtha, J, Tekin, M., Wilkinson, DS, Garrett, CT, **Ferreira-Gonzalez, A**. A multiplex methylation-sensitive PCR assay for the detection Prader-Willi and Angelman syndromes. *Mol Diagn*. 2000 Sep;5(3):239-43.
28. Amaker BH, Ghatak NR, Jibraili SA, **Ferreira-Gonzalez A**, Kornstein MJ. Primary T-cell-rich B-cell lymphoma masquerading as a meningioma. *Arch Pathol Lab Med*. 2000 124(11):1700-3.
29. Tekin M, Jackson-Cook C, Buller A, **Ferreira-Gonzalez A**, Pandya A, Garrett CT, Bodurtha J. Fluorescence in situ hybridization detectable mosaicism for angelman syndrome with biparental methylation. *Am J Med Genet*. 2000 Nov 13;95(2):145-9.
30. Smith BA, Gartner S, Liu Y, Perelson AS, Stilianakis NI, Keele BF, Kerkering TM, **Ferreira-**

- Gonzalez A**, Szakal AK, Tew JG, Burton GF. Persistence of infectious HIV on follicular dendritic cells. *J Immunol.* 2001 Jan 1;166(1):690-6.
31. Kaul KL, Leonard DG, **Gonzalez A**, Garrett CT. Oversight of genetic testing an update. *J Mol Diagn* 2001 Aug;3(3):85-91
 32. Nolte FS, Fried MW, Shiffman ML, **Ferreira-Gonzalez A**, Garrett CT, Schiff ER, Polyak SJ, Gretch DR. Prospective multicenter clinical evaluation of AMPLICOR and COBAS AMPLICOR hepatitis C virus tests. *J Clin Microbiol.* 2001 Nov;39(11):4005-12.
 33. Fisher, RA , Saggi,BH, **Ferreira-Gonzalez, A**, Wolfe, L, Posner, MP Prospective Validation of Quantitative Polymerase Chain Reaction for Management of Cytomegalovirus Disease in Solid Organ Transplant Patients. *Transplantation*, 2002, Aug 27;74(4):573-6.
 34. Elmore, LW, Forsythe, HL, **Ferreira-Gonzalez,A**, Garrett,CT, Clark,TM, Holt.SE Real-Time Quantitative Analysis of Telomerase Activity in Breast Tumor Specimens Using a Highly Specific and Sensitive Fluorescent-Based Assay. *Diagnostic Molecular Pathology*, 2002, Sep;11(3):177-85.
 35. Anderson SJ, Bradley JF, **Ferreira-Gonzalez A**, Garrett CT. Human immunodeficiency virus genotype and hypertriglyceridemia. *J Clin Lab Anal.* 2002;16(4):202-8.
 36. Dumur, CI; Deschsukhum, C; Garrett, CT; Wilkinson DS, Ware, JL and **Ferreira-Gonzalez, A**. A Real-Time RT-PCR assay for quantitation of different WT1 transcripts in cancer. *Analytical Biochemistry*, 2002, Oct 1;309(1):127.
 37. Fisher RA, Saggi BH, **Ferreira-Gonzalez A**, Wolfe L, Posner MP. Prospective validation of quantitative polymerase chain reaction for management of cytomegalovirus disease in solid-organ transplant patients. *Transplantation.* 2002 Aug 27;74(4):573-6.
 38. Dumur CI, Wilkinson DS, Ware JL, Garrett CT, **Ferreira-Gonzalez A**. Genome-wide detection of LOH in prostate cancer using human SNP microarray technology. *Genomics.* 2003 Mar;81(3):260-9
 39. MM- 6-A Quantitative Molecular Methods for Infectious Diseases; Approved Guideline. Madej R, Caliendo AM, Day SP, Fernandes H, **Ferreira-Gonzalez A**, Kradjen M, Loeffelholz M, Nolte FS, Pearson JL, Pope L, Ticehurst J. *NCCLS Vol 23 No. 28*, 2003.
 40. McCain NL, Munjas BA, Munro CL, Elswick RK Jr, Robins JL, **Ferreira-Gonzalez A**, Baliko B, Kaplowitz LG, Fisher EJ, Garrett CT, Brigle KE, Kendall LC, Lucas V, Cochran KL. Effects of stress management on PNI-based outcomes in persons with HIV disease. *Res Nurs Health.* 2003 Apr;26(2):102-17.
 41. Shiffman ML, **Ferreira-Gonzalez A**, Reddy KR, Sterling RK, Luketic VA, Stravitz RT, Sanyal AJ, Garrett CT, De Medina M, Schiff ER. Comparison of three commercially available assays for HCV RNA using the international unit standard: implications for management of patients with chronic hepatitis C virus infection in clinical practice. *Am J Gastroenterol.* 2003 May;98(5):1159-66.
 42. Mas VR, Fisher RA, Maluf DG, Wilkinson DS, Garrett CT, **Ferreira-Gonzalez A**. Hepatic artery

- thrombosis after liver transplantation and genetic factors: prothrombin G20210A polymorphism. *Transplantation*. 2003 Jul 15;76(1):247-9.
43. Mas VR, Fisher RA, Contos M, Wilkinson DS, Garrett, CT, **Ferreira-Gonzalez A**. Host genetic factors in cytokine and growth factor genes and acute rejection and recurrence of HCV disease in liver transplantation. *Clinical Genetics* 65: 191-201, 2004.
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