**RICHARD A. STEIN, M.D., Ph.D.**

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**Education**

**Ph. D.** **Biochemistry and Molecular Genetics** 1998-2005

University of Alabama at Birmingham

**M. D.** **General Medicine**

"Iuliu Hatieganu" University of Medicine and Pharmacy 1990-1996

Faculty of Medicine, Cluj-Napoca, Romania

* Passed USMLE (US Medical Licensing Examination) steps
* ECFMG Certificate valid indefinitely

**Teaching and Research Experience**

**Adjunct Professor**  2018-present

NYU Tandon School of Engineering

Department of Chemical and Biomolecular Engineering

* Cell and Molecular Biology
* Introduction to Physiology
* Stem cells and development
* Epigenetics

**Genetic Engineering and Biotechnology News** 2007-present

Science writer

**Adjunct Assistant Professor** 2016-present

LaGuardia Community College

Department of Natural Sciences

* Anatomy and Physiology II (advanced)
* Microbiology
* Vertebrate Anatomy and Physiology

**Research Scientist** 2012-2019

New York University School of Medicine

Department of Biochemistry and Molecular Pharmacology

**Adjunct Professor** 2013-2015

Monmouth University

Department of Biology

**Postdoctoral Research Associate** 2008-2012

Princeton University

Department of Molecular Biology

**Assistant Research Scientist**  2006-2008

New York University School of Medicine

Department of Pathology

**Instructor**

Princeton University

Department of Molecular Biology

* Fall Junior Molecular Biology Tutorials 2009-2010
* Summer Undergraduate Research Program 2008-2009

**Research Associate**  2005-2006

University of Wisconsin-Madison

Department of Pediatrics

**Intern, General Internal Medicine** 1996-1998

Municipal Hospital, Satu-Mare, Romania

Division of Internal Medicine

**Published Books**

Richard A. Stein. **Super-Spreading in Infectious Diseases**. ISBN:978-1-63117-295-3. Nova Science Publishers, 2015.

Christine Dodd, Tim Aldsworth, Richard A. Stein, Dean O. Cliver and Hans P. Riemann. **Foodborne Diseases, 3rd Edition**. ISBN: 978-0-12385-007-2. Academic Press, 2017.

**Interviews**

**Dagbladet Information** (Denmark), interviewed by Line Vaaben for “Patient Zero er historien om den onde, dumme smittespreder”,April 2020. Available at: <https://www.information.dk/moti/2020/03/patient-zero-historien-onde-dumme-smittespreder>

**CNN**, interviewed by Jacqueline Howard, for “'Patient zero': The misunderstood stories of how disease spreads”, November 2016. Available at: <http://www.cnn.com/2016/11/08/health/patient-zero-history-super-spreaders/>

**CNN,** interviewed by Jacqueline Howard for “Your flu risk may be linked to the year you were born“, November 2016, available at: <http://www.cnn.com/2016/11/10/health/flu-risk-birth-year/>

**The Wall Street Journal,** interviewed by Sumathi Reddy for “The 20% Who Spread Most Disease: Why Some People Are More Contagious Than Others”, December 2014, Available at: <https://www.wsj.com/articles/the-20-who-spread-most-disease-1418686476>

**EMaxHealth**, interviewed for “Surveillance is key to managing bird flu and other pandemics”, November 2013. Available at: <http://www.emaxhealth.com/1020/how-animal-and-bird-viruses-are-difficult-detect-could-become-pandemic>

**Annals of Internal Medicine**, interviewed for “Lessons from outbreaks of H1N1 Influenza”. Available at: <http://www.annals.org/content/suppl/2009/07/07/151.1.DC1/annals_20090707.mp3>

**Orlando Sun-Sentinel**, April 18, 2010, interviewed for “One year of swine flu: slow healing and lessons learned” by Bob LaMendola. Article subsequently reprinted in Herald & Review ([www.herald-review.com](http://www.herald-review.com)), Richmond Times Dispatch.

**Chemistry and Biology**, July 31 2009, interviewed for “Pandemic paradox: new flu virus keeps researchers and health officials guessing” by Chandra Shenkhar.

**Peer-Reviewed Publications and Book Chapters – Basic Research**

# Stein RA, Smith JA, and Rose MD. An Amphiphysin-like Domain in Fus2p is Required for Rvs161p Interaction and Cortical Localization. G3 (Bethesda) 6(2): 337-349, 2015.

\*Nemetski SM, \*Stein RA, Buscaglia CA, Nussenzweig V and Cardozo TJ. The actin-aldolase interaction in *Plasmodium*. Manuscript under re-submission.

Ydenberg CA, Stein RA, and Rose MD. Cdc42p and Fus2p Act Together Late in Yeast Cell Fusion. *Mol. Biol. Cell* 23(7): 1208-1218, 2012. **Cover Figure.**

Brandhorst TT, Gauthier GM, Stein RA, and Klein BS. Calcium binding by the essential virulence factor BAD-1 of *Blastomyces dermatitidis*. *J. Biol. Chem.* 280(51): 42156-42163, 2005.

Deng S, Stein RA and Higgins NP. Reorganization of chromosome structure by transcription. *Mol. Microbiol.* 57(6): 1511-1521, 2005. **Cover Figure.**

Higgins NP, Deng S, Stein RA, and Manna D. Supercoil loop domain formation in bacterial chromosomes. *J. Biomol. Struct. Dyn.* 22 (6): 853-854, 2005.

Stein RA, Deng S, and Higgins NP. Measuring chromosome dynamics on different timescales using resolvases with varying half-lives. *Mol. Microbiol.* 56(4): 1049-1061, 2005.

Higgins NP, Deng S, Pang X, Stein RA, Champion K, and Manna D. Domain behavior and supercoil domains in bacterial chromosomes. **Book Chapter** in *The Bacterial Chromosome*, pp. 133-153, ASM Press, Washington, DC, 2004.

Deng S, Stein RA, and Higgins NP. Transcription-induced barriers to supercoil diffusion in the *Salmonella* *typhimurium* chromosome. *Proc. Natl. Acad. Sci. USA* 101(10): 3398-3403, 2004.

Rigden DJ, Setlow P, Setlow B, Bagyan I, Stein RA, and Jedrzejas MJ. PrfA protein of *Bacillus* species: prediction and demonstration of endonuclease activity on DNA. *Protein Sci.* 11(10): 2370-2381, 2002.

Kelly SJ, Stein RA, Bagyan I, Setlow P, and Jedrzejas MJ. Structural characterization of penicillin-binding protein-related factor A (PrfA) from *Bacillus* species. *J. Struct. Biol.* 131(2): 90-95, 2000.

Xing J, Wriggers W, Jefferson GM, Stein R, Cheung HC, and Rosenfeld SS. Kinesin has three nucleotide-dependent conformations. Implications for strain-dependent release. *J. Biol.* *Chem.* 275(45): 35413-35423, 2000.

**Peer-Reviewed Publications and Book Chapters – Public Health**

Katz A, Pachtman Shetty S, and Stein RA. Social, ethnic, and environmental determinants of obesity. Book chapter in: *Obesity and Obstetrics*, 2nd Ed. Tahir Mahmood, Sabaratnam Arulkumaran, and Frank Chervenak (Eds). **ISBN:** 9780128179215, Elsevier, 2020.

Stein RA and Young LM. COVID-19: Structural predictors of viral success. *Int. J. Clin. Pract,* in press

Stein RA and Ometa O. When public health crises collide: social disparities and COVID-19. *Int. J. Clin. Pract,* in press

Stein RA. COVID-19 and rationally layered social distancing. *Int. J. Clin. Pract.,* e13501, 2020.

Stein RA. COVID-19: Risk groups, mechanistic insights, and challenges. *Int. J. Clin. Pract.,* e13512, 2020.

Stein RA. The 2019 coronavirus: learning curves, lessons, and the weakest link. *Int. J. Clin. Pract.,* 4(4):e13488, 2020.

Stein RA. Hypoxic respiratory failure in measles-associated pneumonia. *Int. J. Clin. Pract.,* 4(2):e13456, 2020.

Stein RA. Should we launder our money? *Int. J. Clin. Pract.*, *in press*, 2020.

Stein RA, Skumial MA, Graur F. Epigenetics of environmental exposures. In: Encyclopedia of Environmental Health, 2nd Ed., Vol. 2, Jerome Nriagu (Ed.), 686-698, 2019.

Stein RA. Lyme disease. In: Encyclopedia of Environmental Health, 2nd Ed., Vol. 4, Jerome Nriagu (Ed.), 150-157, 2019.

Stein RA. Group B streptococci in pregnancy: new perspectives for old challenges. *Int. J. Clin. Pract.* 73: e13340, 2019. **Editor’s Choice.**

Stein RA. Predicting infections in chronic leg ulcers: A step ahead. *Int. J. Clin. Pract.* 73(2): e13304, 2019.

Stein RA. The golden age of anti-vaccine conspiracies. *GERMS.* 7(4):168-170, 2017.

Stein RA. Mugs of the bugs: the most wanted ones. *Int. J. Clin. Pract.* 71(7), 2017.

Stein RA and Katz, DE. *Escherichia coli*, cattle and the propagation of disease. *FEMS Microbiol Lett* 364(6), 2017.

Stein RA. Hopes and challenges for the common cold. *Int. J. Clin. Pract.* 71(2), 2017. **Editor’s Choice**.

Stein RA. Colistin: revival in times of hardship. *Int. J. Clin. Pract.* 70(9), 703-705, 2016. **Editor’s Choice**.

Stein RA. Zika: where it has been, where it is going, and how to stop it. *Int. J. Clin. Pract.* 70(3), 182-185, 2016. **Editor’s Choice**.

Stein RA. What is Ebola? *Int. J. Clin. Pract.* 69(1), 49-58, 2015. **Editor’s Choice**.

Stein RA and Ionescu AC. Social Inequaliy. In: SAGE Encyclopedia of World Poverty, 1425-1429. SAGE Inc., 2015.

Stein RA. When talking and texting get dirty: beware of *mobile bacterial zoos*. *Int. J. Clin. Pract.* 68(9), 1050-1052, 2014.

Stein RA. H7N9 influenza and beyond: international political frameworks. *Int. J. Clin. Pract.*, 68(1), 2-3, 2014. **Editor’s Choice**.

Stein RA and Chirila M. Pathogenesis and virulence. Encyclopedia of Food Safety, 166-182. Yasmine Motarjemi (Ed.), Elsevier, 2014.

Stein RA and Chirila M. Drug resistant pathogens. Encyclopedia of Food Safety, 196-207. Yasmine Motarjemi (Ed.), Elsevier, 2014.

Stein RA. Invasive pneumococcal disease in children: cross-disciplinary frameworks. *Int. J. Clin. Pract.*, 68(1):2-3, 2014.

Stein RA and Chirila M. Infectious diseases – policies. Encyclopedia of School Health, David C. Wiley and Amy C. Cory (Eds.), 223-335, SAGE Publication Inc., 2013.

Stein RA and Chirila M. Infectious diseases – school closures. Encyclopedia of School Health, David C. Wiley and Amy C. Cory (Eds.), 338-341, SAGE Publication Inc., 2013.

Stein RA. Infectious diseases – role of super-spreaders. Encyclopedia of School Health, David C. Wiley and Amy C. Cory (Eds.), 337-338, SAGE Publication Inc., 2013.

Stein RA. *Streptococcus infantarius* and carcinogenesis: a new chapter in colorectal pathology. *Int. J. Clin. Pract.*,67(12), 1220-1224, 2013.

Stein RA. H7N9 influenza: something old, something new…*Int. J. Clin. Pract.*, 67(10), 935-938, 2013.

Stein RA. Switch and gain: sequential moxifloxacin therapy. *Int. J. Clin. Pract.*, 67(9), 819-820, 2013.

Stein RA. Infectious diseases in the multidisciplinary era – a call for manuscripts. *Int. J. Clin. Pract.*, 67(2), 99-103, 2013.

Stein RA. Locking out the bugs: the first retrospective study on daptomycin lock therapy for catheter-related bloodstream infections. *Int. J. Clin. Pract.* 66(3), 229-233, 2012.

Stein RA and Davis DL. Environmental exposures and health. In: *Encyclopedia of Lifestyle Medicine and Health,* James Rippe (Ed.), 406-411, SAGE Publications, Inc., 2012.

Stein RA and Davis DL. Nutrition and Epigenetics. In: *Encyclopedia of Lifestyle Medicine and Health,* James Rippe (Ed.), 759-764, SAGE Publications, Inc., 2012.

Stein RA and Davis DL. Epigenetics: A Fascinating Field with Profound Research, Clinical, and Public Health Implications. *American Biology Teacher*, April 2012. **Feature Article.**

Stein RA. DNA methylation profiling: a promising tool and a long road ahead for clinical applications. *Int. J. Clin. Pract.* 65(12), 1212-1213, 2011.

Stein RA. Epigenetics and environmental exposures. *J. Epidemiol. Comm. Health* 66, 8-13, 2012. **Editor’s Choice**.

Stein RA. Vaccination: a public health intervention that changed history and is changing with history. *The American Biology Teacher*. 73(9), 513-519, 2011. **Feature Article.**

Stein RA and Ionescu AC. *Leadership in Vaccination*. In: Leadership in Science and Technology, William Sims Bainbridge (Ed.), SAGE Publications, Inc., 804-812, 2012, ISBN: 978-1412976886.

Stein RA. Epigenetics - the Link Between Infectious Diseases and Cancer. *JAMA* 305(14): 1484-1485, 2011. (Article featured on GenomeWeb and EMaxHealth).

Stein RA. Super-spreaders in infectious diseases. *Int. J. Infect. Dis.*, 15(8), e510-3, 2011.

Stein RA. *Direct-to-consumer genetic testing*. In: Genomics and Bioethics: Interdisciplinary Perspectives, Technologies and Advancements. Soraj Hongladarom (Ed.), 51-84, 2011.

Stein RA. *Family health and genetic testing*. In: Encyclopedia of Family Health, MarthaCraft-Rosenberg and Shelley-Rae Pehler (Eds.), Volume 1, 552-560, SAGE Publications, Inc., 2011.

Stein RA. *Origin of Pandemics*. In: Encyclopedia of Science and Technology Communication. Susan Hornig Priest (Ed.), Sage Publications, Inc., ISBN 978-1412959209, 2010.

Stein RA. *Nutrigenomics*. In: Encyclopedia of Science and Technology Communication. Susan Hornig Priest (Ed.), Sage Publications, Inc., 527-530, ISBN 978-1412959209, 2010.

Stein RA. *The Human Genome Project*. In: Encyclopedia of Science and Technology Communication. Susan Hornig Priest (Ed.), Sage Publications, Inc., 374-378, ISBN 978-1412959209, 2010.

Stein RA. *Nuclear Plant Disasters*. In: World History Encyclopedia. Vol. 19, 723-724, ABC-CLIO, 2011.

Stein RA. *History of plague*. In: World History Encyclopedia. Vol. 14, 59-61, ABC-CLIO, 2011.

Stein RA. Editorial: Human Activities and the Emergence of Pathogens. *American Biology Teacher*, 72(8): 475, 2010.

Vijeyarasa R and Stein RA. HIV and human trafficking-related stigma: health interventions for trafficked populations. *JAMA* 304(3):344-345, 2010.

Stein RA and Anghelina, D. Duets beyond music: tackling the flu, seasonal and pandemic vaccines. *Int. J. Clin. Pract.* 64(4):414-415, 2010.

Stein RA. HIV: the hidden face of human trafficking. *World Medical & Health Policy,* 2(1):7, 2010.

Stein RA. Lyme Disease. In: *Encyclopedia of Environmental Health*, Nriagu J.O. (Ed.), Volume 3, 528-534, Burlington: Elsevier, 2011.

Stein RA. Infectious diseases and anthropology. In: 21st Century Handbook of Anthropology, H. James Birx (Ed.), Volume 2, 340-349, SAGE Publications, Inc., 2010.

Stein RA. Lessons from outbreaks of H1N1 influenza. *Ann. Int. Med.* 151(1):59-62, 2009.

Stein RA, Goetz RM, Ganea GM. Ceftobiprole - a new β-lactam antibiotic *Int. J. Clin. Pract.* 63(6):930-943, 2009.

Stein RA. Methicillin-resistant *Staphylococcus aureus-* the new zoonosis. *Int. J. Infect. Dis.* 13:299-301, 2009.

Stein RA. A new antibiotic: lessons and perspectives. *Int. J. Clin. Pract*. 62(12):1836-1837, 2008.

Stein RA. When less is more: high dose, short duration antibiotic regimens and antibiotic resistance. *Int. J. Clin. Pract*. 62(9):1304-1305, 2008.

Stein RA. Memory transience, medical history and insurance. *Int. J. Clin. Pract.* 62(6):850-851, 2008.

Stein RA. Judicious antibiotic prescribing and beyond. *Ann. Family. Med.,* Invited Commentary,2008. (http://www.annfammed.org/cgi/eletters/6/3/206)

**Posters and Presentations**

Stein RA, Rose MD. Understanding the function of Fus2p-Rvs161p during *S. cerevisiae* mating. Poster presented at the 50th Annual Meeting of the American Society for Cell Biology, Philadelphia, December 11-15, 2010.

Stein RA, Rose MD. Understanding cell-cell fusion during *Saccharomyces cerevisiae* mating. Poster presented at the 26th Annual Departmental Retreat, Department of Molecular Biology, Princeton University, Princeton, NJ, October 2010.

Stein RA, Ydenberg CA, Arnaudo AM, Cristea IM and Rose MD. Understanding the protein interaction network involved in *S. cerevisiae* cell-cell fusion. Oral presentation at the 25th Annual Departmental Retreat, Department of Molecular Biology, Princeton University, October 9-10, 2009.

\*Nemetski SM, \*Stein RA, Buscaglia CA, Nussenzweig V and Cardozo TJ. Modeling the actin-aldolase interface of the malarial motor complex. Poster presented at the Cambridge Healthtech Institute Structure-Based Drug Design Conference, June 25-27, 2008, Boston, MA.

Stein RA and Higgins NP. 2004. Site-specific recombination as a tool to examine bacterial chromosome structure and dynamics. American Society for Microbiology General Meeting Poster H-168, May 23-27, 2004, New Orleans, LA.

Higgins NP, Deng S, Stein RA and Manna D. Supercoiling domains respond to transcription and influence transposition. Poster 236 presented at the Keystone Symposium on Bacterial Chromosomes (B4), February 7-12, 2004, Santa Fe, NM.

Stein RA and Higgins NP. Bacteria have 400 chromosomal domains in log phase. Poster 337 presented at the Keystone Symposium on Bacterial Chromosomes (B4), February 7-12, 2004, Santa Fe, NM.

Stein RA and Higgins NP. An assay of the *Salmonella typhimurium* supercoil diffusion with γδ resolvases of various half-lives. National Graduate Student Symposium, St. Jude Children’s Research Hospital, May 7-11, 2003, Memphis, TN (abstract accepted for oral presentation).

Stein RA and Higgins NP. Assaying *Salmonella typhimurium* supercoil diffusion with γδ resolvases of various half-lives. American Society for Microbiology 2003 General Meeting, May 18-22, 2003, Washington, DC.

Stein RA and Higgins NP. An assay for the study of supercoil diffusion in the *Salmonella typhimurium* chromosome. American Society for Microbiology 2002 General Meeting, May 19-23, 2002, Salt Lake City, UT.

**Invited Book Reviews (selected list)**

Stein RA. Bacterial infections of humans. *JAMA* 305(14): 1488-1489, 2011.

Stein RA. Emergency management of infectious diseases. *JAMA* 303(13):1312-1313, 2010.

Stein RA. Human Origins: What Bones and Genomes Tell Us About Ourselves. *Am. J. Phys. Anthrop*., 143(1): 165, 2010.

Stein RA and Cosmineanu C. Pneumococcal vaccines. *JAMA* 301(6):673-674, 2008.

Stein RA and Katz DE. Infections causing human cancer. *JAMA* 299(7): 837-838, 2008.

Stein RA. When size matters: from bacteria to blue whales. *Am. J. Phys. Anthrop.* 135(4):490-491, 2008.

Stein RA and Cosmineanu C. HIV. *JAMA* 300(5):584-585, 2008.

Stein RA. Smith’s recognizable patterns of human malformation. *Arch. Dis. Child.* 92:562, 2007.

Stein RA. Gene sharing and evolution: the diversity of protein functions. *JAMA* 298:1335-1336, 2007.

Stein RA. Biodefense: Principles and Pathogens. *J. Infect.* 54:105-106, 2007.

Stein RA. Genetics and life insurance. *Am. J. Bioethics* 7(4):88-91, 2007.

Stein RA. Malaria: genetic and evolutionary aspects. *Am. J. Phys. Anthrop.* 134:135-136, 2007.

Stein RA. Glimpses into the embryo: between advancements and controversies. *Trends Endocrinol. Metab.* 18(5):175-176, 2007.

Stein RA. Measuring hormones - past, present and future. *Trends Endocrinol. Metab.* 18(5):176-177, 2007.

Stein RA. Molecular imagining: FRET microscopy and spectroscopy. *J. Chem. Neuroanat.*, 32(2-4), 217-8, 2006.

Stein RA. Delicate beginnings: fetal programming under the microscope. *Trends Endocrinol. Metab.* 17(7): 260, 2006.

Stein RA. Molecular Diversity: Form and Function in Prokaryotes. *British*

*Society for Cell Biology Newsletter*, Summer 2006

Stein RA. Molecular Infection Biology: Interactions Between Microorganisms and Cells. *British Society for Cell Biology Newsletter*, Summer 2006

Stein RA. Antiviral drug discovery for emerging diseases and bioterrorism threats. *Ann. Biomed. Eng*., 34(9), 1503-1504.

Stein RA. Green fluorescent proteins: properties, applications, and protocols. *Ann. Biomed. Eng*., 34(8): 1370-1371, 2006.

Stein RA. Sage of Science. *JAMA* 295(21): 2542, 2006.

Stein RA. Genome, transcriptome and proteome analysis. *Ann. Biomed. Eng*., 34(7): 1236-1237, 2006.

Stein RA. The Myth of Syphilis. *J. Comp. Human Biol*. 57: 111-112, 2006.

Stein RA. Molecular Mechanisms of Genetic Diseases. *NEJM* 354(1): 101, 2006.

Stein RA. Molecular Medicine: An Introductory Text. *Clin. Inf. Dis.* 42: 310-311, 2006.

Stein RA. From DNA to Diversity: Molecular Genetics and the Evolution of Animal Design. *British Society for Cell Biology Newsletter*, Winter 2005

Stein RA. The Nucleolus. *British Society for Cell Biology Newsletter*, Winter 2005

Stein RA. Yersinia molecular and cellular biology. *Biochemist* 42: December 2005.

Stein RA.When cells die II. A comprehensive evaluation of apoptosis and programmed cell death. *Ann. Biomed. Eng*. 33(7): 985-986, 2005.

Stein RA.Stroke genomics: methods and reviews. *J. Chem. Neuroanat.* 29(4): 297, 2005.

Stein RA. Biography of a germ. *Physics in Canada*. 61(1): 46, 2005.

Stein RA.The writing life of James D. Watson. *JAMA* 293: 1394-1395, 2005.

Stein RA.Pheochromocytoma: from genetics to clinical medicine. *Trends Endocrinol. Metab.* 16(2): 36-37, 2005.

Stein RA. Molecular cancer therapeutics: strategies for drug discovery and development. *Ann. Biomed. Eng.* 33(2): 255-256, 2005.

Stein RA. Learning from HIV and AIDS. *Am. J. Phys. Anthrop.* 128:700-701, 2005.

Stein RA. Protein Structure and Function. *Ann. Biomed. Eng.*, 33(12): 1831-1832, 2005.

Stein RA. An important update at the molecular level. *Trends Endocrinol. Metab.* 16(5): 205-206, 2005.

Stein RA.Welcome to the genome. *Ann. Biomed. Eng.* 33(4): 554-555, 2005.

Stein RA. Right hand, left hand. The origins of asymmetry in brains, bodies, atoms and cultures. *The American Biology Teacher* 67(4): 249-250, 2005.

Stein RA. From sex and gender to hormones, behavior and culture. *Trends Endocrinol. Metab.* 16(1): 3, 2005.

Stein RA.Novel vaccination strategies. *Ann. Biomed. Eng.* 32(12): 1744-1145, 2004.

**Editorial Activities**

**Senior Editor**

*International Journal of Clinical Practice* (Wiley-Blackwell) (01/2020-present)

**Associate Editor-Infectious Diseases**

*International Journal of Clinical Practice* (Wiley-Blackwell) (09/2009-12/2019)

**Editorial Board Member**

*Biologicals* (Elsevier) (2010-2013)

*European Journal of Internal Medicine* (06/2005-12/2011)

*American Journal of Infection Control* (01/2006-12/2009)

*International Journal of Clinical Practice* (02/2008-09/2009)

**Reviewer for Conferences**

Judge, Annual Biomedical Research Conference for Minority Students (ABRCMS)

* Student Travel Awards Judge, 2019

Judge, BioRad, ProteON Competition, July-September 2010

Judge, Annual Biomedical Research Conference for Minority Students (ABRCMS)

* November 4-7 2009, Phoenix, AZ
* November 13-16 2013, Nashville, TN
* November 11-14 2015, Seattle, WA

Judge, NJAS (New Jersey Academy of Sciences)

* Junior Grants-in-Aid Program, 2007 and 2008
* Student Oral Presentations, 2009

Reviewer, Annual Biomedical Research Conference for Minority Students (ABRCMS)

* 2006
* 2007
* 2013

Judge, eHealthcare Leadership Award, Strategic Health Care Communications, 2007-2014

Reviewer, Canadian Public Health Association (CPHA) Annual Meeting

* 2009
* 2010
* 2011

Reviewer, 2009 American Public Health Association (APHA) Meeting

* Epidemiology Section
* Genomics Forum Section
* International Health Section

**Reviewer for Journals**

American Journal of Health Behavior

Infections in Medicine

The American Biology Teacher

Canadian Family Physician

American Journal of Tropical Medicine and Hygiene

Journal of Epidemiology and Community Health

Emerging Infectious Diseases

The American Journal of Obstetrics and Gynecology

Lung

Indian Journal of Microbiology

Tropical Medicine and International Health

Medical Journal of Australia

Texas Science Teacher

Clinical Infectious Diseases

International Journal of Antimicrobial Agents

Environmental Toxicology and Pharmacology

Annals of Internal Medicine

Occupational and Environmental Medicine

American Journal of Public Health

International Journal of Biochemistry and Cell Biology

Journal of Nutritional and Environmental Medicine

Ophthalmology

Acta Physiologica

Biologicals

Epidemiology and Infection

Clinical Medicine and Research

Epidemiology

Regulatory Peptides

The Cleft Palate-Craniofacial Journal

European Journal of Applied Physiology

Health Risk and Society

Scandinavian Journal of Immunology

Primary Prevention Insights (Libertas Academica, NZ)

World Medical and Health Policy

**Writer, *Genetic Engineering and Biotechnology News* (GEN)(selected)**

Get a solid grasp on tissue RNA analysis. GEN38(5), Mar 1, 2018.

Peptide therapeutics near the sweetest spot. GEN 38(7), Apr 1, 2018.

Managing biosimilars is like herding copycats. GEN 38(10), May 15, 2018.

The expanding CRISPR-Cas toolbox. GEN 38(11), May 1, 2018.

Taming the transcriptome with RNA-seq. GEN 38(2), Jan 15, 2018.

The rise of systems biology. GEN 33(21), Dec 1, 2013.

Gene expression enters transformative times. GEN 33(20), Nov 15, 2013.

CNV strategies get a rethink. GEN 33(17), Oct 1, 2013.

Progress in protein expression technology. GEN 33(15), Sept 15, 2013.

Manipulating methodologies for reprogramming cells. GEN 33(15), Sept 1, 2013.

Diving deep with array CGH. GEN 33(14), Aug 1, 2013.

Unraveling the transcriptome. GEN 33(13), July 1, 2013.

ReGenMed: straight out of Mythology. GEN 33(12), June 15, 2013.

Exposing the exposome. GEN 33(9), May 1, 2013.

Epigenetics opens new avenues for DNA research. GEN 33(7), April 1, 2013.

Querying the cancer transcriptome.GEN 33(7), April 1, 2013.

Genomic data in patients’ hands.GEN 33(4), Feb 15, 2013.

Epigenetics: promising field delivers. GEN 33(2), Jan 15, 2013.

Epigenetics reshapes the therapeutic arena. GEN 32(21), Dec 2012.

Visualizing cell signaling pathways. GEN 32(19), Nov 1, 2012.

RNA analysis unearths valuable insights.GEN 32(18), Oct 15, 2012.

Harnessing the promise of array CGH.GEN 32(14), Aug 1, 2012.

Synthetic biology defined by interdisciplinarity. GEN 32(10), May 15, 2012.

RNA advances reshape prevailing wisdom. GEN 32(6), Mar 15, 2012.

Exploring the role of epigenetics. GEN 32(3), Feb 1, 2012.

Systems biology delivers high-level analysis. GEN 31(21), Dec 1, 2011.

Target enrichment field continues to expand. GEN 31(18), Oct 15, 2011.

Natural progression of synthetic biology.GEN 31(17), Oct 1, 2011.

Recombinant protein expression advances. GEN 31(16), Sept 15, 2011.

Targeted resequencing hits bull’s eyes. GEN31(15), Sept 1, 2011.

DNA cloning expands into new horizons. GEN 31(13), July 1, 2011.

Epigenetics redefining cellular programming. GEN 31(11), June 1, 2011.

Gene expression analysis redefined. GEN 31(7), Apr 1, 2011.

Epigenetics implicated in both health and disease. GEN 31(3), Feb 1, 2011.

Microarrays and sequencing assume supporting roles. GEN 30(20), Nov 15, 2010.

Transitioning toward three-dimensional cell culture. GEN 30(16), Sept 15, 2010.

Next-generation sequencing moves to next-next level. GEN 30(12), June 15, 2010.

CGH delivers insights into cytogenetics. GEN30(10), May 15, 2010.

Insights mount on copy number variants. GEN 30(4), Feb 15, 2010.

Insights accrue on epigenetic modification.GEN 30(3), Feb 1, 2010.

Flow cytometry’s expanding niche. GEN 29(20), Nov 15, 2009.

Single-cell genomics clarifies big picture. GEN 29(11), June 1, 2009.

Practical applications of systems biology. GEN 29(9), May 1, 2009.

Unveiling cellular bioenergetics’ secrets. GEN 29(7), Apr 1, 2009.

Shining a different light on genetic diversity. GEN 29(5), Mar 1, 2009.

Epigenomics rises as a key research tool. GEN 29(3), Feb 1, 2009.

Exploiting advances in image analysis. GEN 28(18), Oct 15, 2008.

Next-generation sequencing update. GEN 28(15), Sept 1, 2008.

**Additional Honors**

**Physician’s Recognition Award, 2003**

American Medical Association

**Travel Award**, 2003 and 2002

Univ. of Alabama at Birmingham, Dept. of Biochemistry and Molecular Genetics

**Cellular and Molecular Biology Fellowship**, 1998

University of Alabama at Birmingham

**Medical Student Fellowship**, 1990-1996

"Iuliu Hatieganu" University of Medicine and Pharmacy, Faculty of Medicine

**Vascular Surgery Scholarship**, 1994

Clinical Hospital of São Paulo (Hospital das Clínicas), Brazil

(Supervisor: Luis Caetano Malavolta, M.D.)

**Language Skills**

English, French, Portuguese, and Spanish

fluent written and spoken

German and Italian

advanced level

Romanian and Hungarian

native languages

**Professional Affiliations**

Sigma Xi Society, full member (2006)

American Society for Microbiology, full member (1996)

New York Academy of Sciences, full member (1998)

American Association for the Advancement of Science (1998)

Biophysical Society (2000)

American Crystallography Association (2000)