



Omar Bagasra, M.D., Ph.D.

CURRICULUM VITAE

1964-66: Bachelor of Sciences with Honor, Biology, Karachi University, Pakistan

1966-1970: Masters of Science in Biochemistry, Karachi University, Pakistan

1976-1979: Doctor of Philosophy, Microbiology & Immunology, emphasis cellular & Molecular Immunology, University of Louisville, KY, USA.

1979-81: Post doctoral Fellow, Albany Medical College, Union University, Albany, NY, USA.

1981-1987: Assistant Professor/Associate Professor, Dept of Medicine, Div of Infectious Diseases, and Department of

Pathology, Hahnemann University, Philadelphia, PA.

1987-1990-Associate Professor of Microbiology, University of Medicine & Dentistry of New Jersey Camden, NJ 08103-1505.

1990-1998- Associate Professor/Full Professor of Medicine
Director of the Molecular Retrovirology Laboratory
Section Chief, Molecular Diagnostics
Center for Human Virology
Section Chief
Molecular Diagnostics,
Center for Human Virology
Thomas Jefferson University
Philadelphia, PA

1990-1998 Adjunct Associate Professor
Department of Pediatrics

1998-2001 Professor of Biology, Director
Laboratories of Transgenic & Recombinant Vaccines
Lincoln University, PA 19352

2001-present Professor of Biology (with Tenure)
Director, South Carolina Center for Biotechnology
400 Magnolia Street,
Claflin University, Orangeburg, SC 29115, USA

2005-present Clinical Professor of Pathology, Microbiology and Immunology,
University of South Carolina
School of Medicine
Columbia, SC 29208.

2003-present Adjunct Professor.
Department of Epidemiology & Biostatistics
School of Public Health, Univ. of South Carolina
Columbia, SC 29208, USA

Residencies and Fellowships

Residency (1992-93) **Pathology**
Department of Pathology
Temple University School of Medicine

Residency (1986-87)	Philadelphia, PA 19133 Pathology Department of Pathology & Laboratory Medicine Hahnemann University Philadelphia, PA 19102
Fellowship (1985-86)	Clinical Laboratory Immunology Department of Pediatrics, Saint Christopher's Hospital for Children, Temple University, Front & Erie Streets Philadelphia, PA 19134
Fellowship (1980-81)	Infectious Disease Department of Clinical Microbiology & Department of Medicine Division of Infectious Disease, Albany Medical College, Albany, NY 12208

Major Awards and Honors:

- 1995: Nominated for the "King Faisal Award in Medicine"**
- 1996: Awarded the first patent on *in situ* PCR Technology by the US Patent Office**
- 2002: Received AACR Faculty Scholar Award in Cancer Research**
- 2003: Invited to be the guest co-editor for the Journal of Molecular Histology**
- 2004: Nomination for the 2005 Governor's Awards for Excellence in Science**
- 2005: Received the Outstanding Teacher Award by Claflin University.**
- 2005: Elected "member of the Nominating Committee for the 2005-2006 AACR-MICR-Jane Cook Wright Lectureship."**
- 2006: Co-Winner of the South Carolina Governor's Award for Science Awareness (with Dr. Rebecca Bullard-Dillard).**
- 2006: Winner of the Link Award**
- 2007: Keynote Speaker, at the Microbiology Golden Jubilee Celebration. 6th International Biennial Conference of Microbiology, March 18-21, Islamabad, Pakistan.**
- 2007: Awarded the Exemplary Teacher Award by the General Board of Higher Education and Ministry of The United Methodist Church and By Claflin University President.**
- 2007: Elected Associate Editor of the Libyan Journal of Medicine**
- 2007: Elected in the Editorial Board, Journal of Infection in Developing Countries.**
- 2007: Awarded the outstanding Teacher Award from the SC Independent Colleges and Universities.**
- 2007: Recognized and Awarded "Leadership in Research" by the Claflin University, Center for Excellence.**

MEMBERSHIPS

American Association of Immunologist (elected, 1983)
 American Society for Advancement of Science (1985)
 American Society for Clinical Immunology (elected, 1987)
 American Society of Microbiology (elected, 1994)
 Reticuloendothelial Society (elected, 1981)

International AIDS Society (1988)
 Research Society of Alcoholism (elected, 1989)
 American Society of Clinical Pathology (elected, 1993)
 American Society of Surgical Pathology (elected, 1993)
 American Board of Forensic Examiners (elected, 1994)
 American Medical Association (elected, 1993)
 American Society of Microbiology (ASM: elected, 1994)
 American College of Forensic Examiners (1995)
 American Board of Forensic Medicine (1995)
 American Society of Molecular Pathologists (1997)
 International Society of Analytical & Molecular Morphology (elected 1998)
 American Association of Cancer Research (2001)
 SC Cancer Research Network (2002)
 SC Cancer Alliance (2003)

Publication: Selected peer-reviewed publications (Selected from 160 Peer-reviewed Articles, 30 Book Chapters & Books)

1. **Bagasra O**, H Lischner. 1988. Anti-human immunodeficiency virus activity of dextran sulfate and other polysaccharides. *J. Inf. Dis.* 158:1084-1087.
2. **Bagasra O**, M Freund, et al. 1988. Interaction of human immunodeficiency virus with human sperm in vitro. *J. AIDS* 1:431-435.
3. **Bagasra O**, SP Wright, et al. 1992. CD14 is involved in the control of HIV-1 expression in latently-infected cells by lipopolysaccharide. *Proc. Natl. Acad. Sci. (USA)* 89:6285-6289.
4. **Bagasra O**, SP Hauptman, et al. 1992. The detection by in situ polymerase chain reaction of provirus in mononuclear cells of individuals infected with HIV-1. *New Engl Journal of Medicine.*326:1385-1391.
5. Seshamma T, **O Bagasra**, et al. 1992. A quantitative reverse transcriptase-polymerase chain reaction for HIV-1-specific RNA species. *J. Virol. Meth.* 40:331-346.
6. Seshamma T, **O Bagasra**, D Trono, D Baltimore et al. 1992. Blocked early-stage latency in the peripheral blood cells of certain HIV-1-infected individuals. *Proc. Natl. Acad. Sci. (USA)*. 89:10663-10667.
7. Pereira RF, KW Halford , MD O'Hara, DB Leeper, BP Sokolov, MD Pollard, **O Bagasra** and DJ Prockop. 1995. Cultured stromal cells from marrow serve as stem cells for bone, lung and cartilage in irradiated mice. *Proc. Natl. Acad. Sci. (USA)*. 92:4857-62.
8. **Bagasra O**, F. Michaels, et al. 1995. Activation of the inducible form of nitric oxide synthase in the brains of patients with multiple sclerosis. *Proc. Natl. Acad. Sci. (USA)*. 92:12041-45.
9. **Bagasra O**, Bachman SE et. al. 1996. Increased HIV-1 replication in human peripheral blood mononuclear cells induced by ethanol: Potential immunopathologic mechanisms. *J Infectious Disease.* 173:550-558.
10. Harrington, WJ, **Bagasra, O.** et al. 1996. Human herpes virus type 8 DNA sequences in cell-free plasma and mononuclear cells of Kaposi's sarcoma patients. *J Infectious Disease,* 174: 1101-1105.
11. Hsu T-C, Scott K., T. Seshamma, **O. Bagasra** and PN Walsh. 1998. Molecular cloning of platelet factor XI, an alternative splicing product of the plasma factor XI. *J. Biol. Chem.* 273:13787-93.
12. **Bagasra O.** 1999. **HIV and Molecular Immunity: Prospect for AIDS Vaccine.** Eaton Publishing, MA.
13. Pellett PE, T. Spira, **O. Bagasra**, C Boshoff, L Corey, L Lillis, M-L Huang, J-C Lin, S Matthews, P Monini, P Rimessi, C Sosa, C Wood, and J A Stewart. 1999. Multi-center comparison of polymerase chain reaction detection of human herpes virus 8 DNA in semen. *J. Clin Microbiol.* 37:1293-1301.
14. **Bagasra O**, M. Amjad. 2000. Protection against retroviruses are owing to a different form of immunity: A RNA-based molecular immunity hypothesis. *Applied Immunochem and Molecular Morphology* 8:133-146.

15. **Bagasra O**, and Kiley R. Prilliman. 2004. RNA Interference: The Molecular Immune System: *J Mol Histology* 35:545-553.
16. **Bagasra O**. 2005. RNAi as an anti-HIV therapy. *Expert Opin Biol Ther*. 5(11):1463-74.
17. **Bagasra, O**, Lucia Pirisi-Creek, Kim Creek, Alexander U. Bagasra, and Jeremy S. Lee 2006. Immunity to Lentiviruses Requires Endogenous Small RNAs that Form an Intramolecular Triplex Nucleic Acid Structures with Preintegration Complexes. *Applied Immunochem and Molecular Morphology* 14:166-90.
18. **Bagasra O**. 2006. A unified concept of HIV-1 Latency. *Expert Opin Biol Ther* 6: 1135-1149.

Current Support

UNCFSP/USAID

March 06 to June 2007

Culturally Sensitive HIV/AIDS Reduction, Intervention Training Project in India.

\$100,000 for one year

PI. O. Bagasra

National Institutes of Health, National Center for Research Resources, *INBRE* grant project:

“Development of Biotechnology at Claflin”. Submitted as sub-project as part of the State of South Carolina INBRE consortium grant application. Dr. John Baynes, University of South Carolina P.I.,

Rebecca Bullard-Dillard as Co-PI \$2,213,185.00 as Claflin sub-contract. Co-Investigator: **O. Bagasra**

National Science Foundation, *EPSCoR RII* grant: “Strengthening Bioengineering Research Capacity at Claflin University”, funded by the NSF through the state’s EPSCoR office. Claflin PI: **Omar Bagasra**.

Claflin PD: Rebecca Bullard-Dillard CO-PI, **Total \$13.5 Million**. \$900,000 for Claflin sub-award

Kellogg Pilot Study Program

PI: O. Bagasra

Differential Expression of Zinc Transporters in B-cells from Ethnic Groups.

\$35,000/yr for two yrs.

June 05 to June 07.

Department of Labor

Orangeburg-Calhoun Area Biotechnology Consortium

Role in the Project: Project Coordinator

\$750,000 for 2 yrs

Started date: June 2005

NIH/NIMHD: “EXPORT Center on HIV/AIDS & HPV”, Saundra Glover, University of South Carolina, PD, Rebecca Bullard-Dillard, Co-PD and Administrative Co-PI, Verlie Tisdale, **Omar Bagasra**, and Gemma Geslani, Co-PIs. \$2,000,000.00.

Department of Justice

Establishment of a Certified DNA Forensic Laboratory at Claflin University

Director: O. Bagasra

\$300,000 for year one

June 06 to June 07.