

CLAFLIN UNIVERSITY
SC CENTER FOR BIOTECHNOLOGY
DR. OMAR BAGASRA
SELECTED PUBLICATIONS

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** and LJ Forman. 1989. Functional analysis of lymphocyte subpopulations in experimental cocaine abuse. I. Dose dependent activation of lymphocyte subsets. *Clin. Expt. Immun.* 77:289-93.
4. Raphael SA, L Price, HW Lischner, W Grover, **O Bagasra**. 1991. Inflammatory demyelinating polyneuropathy in a child with symptomatic HIV-1 infection. *J. Peds.* 118:242-248.
5. **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.
6. **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. *NEJM.* 326:1385-1391.
7. 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.
8. **Bagasra O**, T Seshamma et al. 1993. Polymerase chain reaction in situ: Intracellular amplification and detection of HIV-1 proviral DNA and other specific genes. *J. Immunol. Meth.* 158:131-145.
9. 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.
10. 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.* 92:4857-62.
11. **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.
12. **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.
13. **Bagasra, O**, Lavi, E, et al. 1996. Cellular reservoirs of HIV-1 in the central nervous system of infected-individuals: Identification by the combination of in situ PCR and immunohistochemistry. *AIDS.* 10:573-585.
14. 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.

15. Neville LF, G. Mathiak and **O. Bagasra**. 1997. The immunobiology of Interferon- α induced protein 10kD (IP-10): A novel pleiotropic membrane of the α -chemokine superfamily. *Cytokine & Growth Factor Reviews* 8:207-219.
16. Dornadula G, H Zhang, **O. Bagasra**, et al. 1997. Natural endogenous reverse transcriptase (NERT) of simian immuno- deficiency virus (SIV) *Virology* 227: 260-267.
17. Sullivan DE, L.E Bobroski, **O. Bagasra** and M Finney. 1997. Self-seal reagent: Evaporation control for molecular histology procedure without chambers, clips or fingernail polish. *BioTechniques*. 23:320-225.
18. 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.
19. Bobroski, L., Alexander U. Bagasra, Deepa Patel, P. Saikumari, Matthew Memoli, Maureen V. Abbey, Charles Wood, Carlos Sosa, and **O. Bagasra, et al.** 1998. Localization of human herpes virus type 8 (HHV-8) in the Kaposi's Sarcoma tissues and the semen specimens of HIV-1 infected and uninfected individuals by utilizing in situ polymerase chain reaction. *Eur. J. Reprod. Immunol.* 41:149-160.
20. **Bagasra O.** 1998. Potent inhibition of HIV-1 replication by an intracellular anti-rev single chain antibody. *Proc. Natl. Acad. Sci. (USA)* 95: 10344 (Let).
21. **Bagasra O.** 1998. Workshop on HIV-1 and Gametes (Editorial). *Eur J. Reproductive Immunology* 41:373-377.
22. **Bagasra O.** 1999. **HIV and Molecular Immunity: Prospect for AIDS Vaccine.** Eaton Publishing, MA.
23. 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.
24. Bobroski, L., A.U. Bagasra, D. Patel, P. Saikumari, M. Memoli, C. Wood, C. Sosa, and **O. Bagasra.**1999. Mechanism of Vertical Transmission of HIV-1: Role of Intervillous Space. *Applied Immunochem and Molecular Morphology* 7:271-279.
25. **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.
26. **Bagasra O, L Bobroski, M. Amjad,.** 2001. In situ PCR in cancer biology. In "Morphology Methods: Cell and Molecular Biology Techniques", Ed Ricardo V. Llyod, MD., Mayo Clinic. (Humana Press).
27. Ewida, A.S., Raphael, S.A., Abbasi, J.A., Geslani, G.P., **O. Bagasra.** 2002. Evaluation of Th-1 and Th-2 immune responses in the skin lesions of patients with Blau syndrome. *Applied Immunochem. Mol. Morphol.* 10: 171-177.
28. Rishi I, R. Bullard-Dillard, JA Abbasi, A. Balla, R. Tubbs, **O Bagasra.** 2003. Down-regulation of *hZIP1* and *hZIP2* zinc transporters in the prostate cancer tissues from African decent as compared to Caucasian men **Applied Immunochem and Molecular Morphology:** 11:253-260
29. **Bagasra O,** and Kiley R. Prilliman. 2004. RNA Interference: The Molecular Immune System: *J Mol Histology* 35:545-553.
30. Mohammed I. Alhatou, J T. Sladky, **O. Bagasra,** and Jonathan D. Glass. 2004. Mitochondrial Abnormalities in Dermatomyositis: Characteristic Pattern of Neuropathology. *J Mol. Histology* 35:615-619.
31. **Bagasra, O.** 2005. Citrate Sours the Malignant Intent of Prostate Epithelia (editorial) *Mitochondria* 4:339-341.
32. **Bagasra, O** and L Bobroski. 2005. In Situ PCR: An Update. In **Frontiers of Molecular Morphology Series.** Ed. Professor GH Hacker & Tubbs). CRC Press Chapter 12, pg 179-198..

33. Costello, LC, R.B. Franklin, P Feng, M Tan, **O. Bagasra**. 2005. Zinc and Prostate Cancer: A critical scientific, medical and public interest debate! *Cancer Causes and Control* 16:901-15.
34. [Bagasra O](#), [Patel D](#), [Bobroski L](#), [Abbasi JA](#), [Bagasra AU](#), [Baidouri H](#), [Harris T](#), [El-Roeiy A](#), [Lengvarszky Z](#), [Farzadegan H](#), [Wood C](#)..2006. Presence of Human Herpes Virus Type 8 in Human Semen by *in situ* PCR. *J Molecular Histology* DOI 10.1007/s10735-005-9010-9.
35. [Franklin RB](#), [Feng P](#), [Milon B](#), [Desouki MM](#), [Singh KK](#), [Kajdacsy-Balla A](#), [Bagasra O](#), [Costello LC](#). 2005 hZIP1 zinc uptake transporter down regulation and zinc depletion in prostate cancer. *Mol Cancer*. 9;4:32.
36. **Bagasra O**. 2005. RNAi as an anti-HIV therapy. *Expert Opin Biol Ther*. 5:1463-74.
37. [Quraishi I](#), [Collins S](#), [Pestaner JP](#), [Harris T](#), [Bagasra O](#). 2005. Role of zinc and zinc transporters in the molecular pathogenesis of diabetes mellitus. *Med Hypotheses*.;65(5):887-92.
38. **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.
39. **Bagasra O**. 2006. A unified concept of HIV-1 Latency. *Expert Opin Biol Ther* 6: 1135-1149.
40. **Bagasra O**, Harris T. 2006. Latest development in *in situ* PCR. *Methods Mol Biol* 334: 221-40
41. **Bagasra O**, Harris T. 2006. In situ PCR protocols. *Methods Mol Biol*. 334:61-78.
42. Chowdhury K, **Bagasra O**. 2007. Edible vaccine for malaria using transgenic tomatoes of varying sizes shapes and colors to carry different antigens. *Medical Hypotheses* 68:22-30.
43. **Bagasra O**. Protocols for the *in situ* PCR-amplification and detection of mRNA and DNA sequences. *Nature Protocols*. 2007;2(11):2782-95.
44. Hakim S.T., M. Al sayari, A. K. Chaitanya D. C. McLean, **O. Bagasra**. A large number of the primate MicroRNAs target lentiviruses, RE and endogenous retroviruses. *Biochem Biophys Res Commun (BBRC)*, 2008; 369: 357–362.
45. **Bagasra, O**. 2008. In situ polymerase chain reaction and hybridization to detect low-abundance nucleic acid targets. *Curr. Protoc. Mol. Biol*. 82:14.8.1-14.8.
46. Pace G, **O. Bagasra**. NACO is correct in their crackdown on NGOs. 2008. *Nature Medicine*.2008; 14:588.
47. [Mahalingam K](#), **O Bagasra**. *Bioinformatics Tools: Searching for Markers in DNA/RNA Sequences. Proceedings of Computer Science Computer Engineering and Applied Computing*” July 14-21. 2008. Los Vegas, NV.
48. Noorali S, ST Hakim, D McLean, SU. Kazmi, **O Bagasra**. 2008. Prevalence of Hepatitis B virus genotype D in females in Karachi, Pakistan: a review of 180 cases. *Journal of Infection in developing countries (JIDC)* 2008; 2(5): 373-378.
49. Addanki KC, Pace DG, **O Bagasra**. A Practice for All Seasons: Male Circumcision and the Prevention of HIV Transmission. *JIDC* 2008; 2:328-334.
50. Noorali S, Rotar IC, C Lewis, JP Pestaner, DG Pace, A Seson and **O Bagasra**. 2008. Role of HERV-W *syncytian-1* in placentation and maintenance of human pregnancy. *Applied Immunochemistry & Molecular Morphology (In Press)*.
51. **Bagasra. O.**, Pace DG,. 2008. Reassessing HIV Vaccine Design and Approaches: Towards a Paradigm Shift (Submitted for Publication to *Expert Opin Biol Ther*).

52. Aggarwal M, Addanki KC, Alsayari MA, Noorali S, Haynes PN, Kalsum A, Mahalingam K, Panasik N, and **O. Bagasra**. Inhibition of HIV-1 replication by co-infecting HHV-6, HHV-7 or GVB-C viruses: Role of Mutually Homologous miRNAs in Downregulation of Viral Replication. (Submitted for Publication to *PLoSOne*).
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