**Pranita Sarangi, BVSc & AH, PhD.**

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**Education**

**2003-2008** **PhD**. College of Veterinary Medicine, University of Tennessee, USA

Major: Comparative and Experimental Medicine (Immunology)

* 1. **BVSc&AH**. Orissa Veterinary College, Orissa University of Agriculture and Technology, Bhubaneswar, India.

Professional History

3/14-present Assistant Professor, Department of Biotechnology, Indian Institute of techjnology Roorkee, Uttarakhand, India

Research Area: cell matrix interaction in inflammation, sepsis, cell migration, integrin signaling

**07/11-02/14** Research Fellow, Laboratory of Cell and Developmental Biology, Molecular Biology Section, NIDCR/National Institute of Health, Bethesda, MD, USA

Project: Role of adhesion protein TM14/Fibulin 7 in immuno-inflammation.

**04/08-06/11** Post-Doctoral Research Associate, Center for Vaccine Biology and Immunology, School of Medicine and Dentistry, University of Rochester, Rochester, NY, USA

Project: Neutrophil recruitment in human and murine sepsis.

**08/03-03/08** Research Assistant, University of Tennessee, Knoxville, TN

Project 1: Role of immunoregulatory (IL-10, Tregs) and inflammatory (Cytokines, chemokines, TLRs) mechanisms in the pathogenesis of Herpetic Stromal Keratitis (HSK)

Project 2: Efficacy of CD200:Fc and Non mitogenic anti-CD3 (Fab)2 mAb in alleviating HSK pathology.

**02/03-07/03** Junior Veterinary Officer, Directorate of Animal Husbandry and Fisheries, Government of Orissa, Cuttack, India

**02/02-01/03** Veterinary Extension Officer, Heifer Project International/India, Orissa Task Force Office, Bhubaneswar, Orissa, India.

**Honor and Awards**

2013 “Bio-CARe”, Women Scientist Research Fellowship, from DBT/Govt. of India.

2010 Early investigator Travel Grant Award, 33rd Annual conference on Shock, Oregon.

2007 Travel Award (Second position) for oral presentation, University of Tennessee.

2006 NIAID Biodefense Fellowship, Keystone Symposium, Viral Immunity, Colorado.

2003-2008 Research Assistantship for doctoral studies at the university of Tennessee, USA.

1996-2001 University Merit Scholarship, for undergraduate education by Government of India.

Peer Reviewed Research articles

1. **Pranita P Sarangi**, Ambatipudi KS, Vega, S, Wahl L, and Yamada Y. Fibulin-7, a member of the extracellular matrix fibulin family regulates immune cell migration and function**. (Submitted)**
2. Lerman YV, Hyun YM, Falkner LK, Sonnenberg A, Lacy-Hulbert A, Pietropaoli A, \*Sarangi PP, \*Kim M. Exacerbated tissue homing of hyper-inflammatory neutrophils during sepsis is mediated by integrin VLA-3 (CD49c/CD29). (Under Revision- Blood) \*Co-Corresponding author

1. \*Sarangi PP, Hyun YM, Lerman Y LermanV, Pietropaoli A, \*Kim M. 2012. Essential Role of integrin β in tissue homing of neutrophils during sepsis. Shock. Aug;38(3):281-7\*Co-Corresponding author
2. Hyun, YM, Ronen Sumagin, Sarangi PP, Elena Lomakina E, Overstreet MG, Baker C, Fowell DJ, Waugh R, Sarelius IG, Kim M. 2012. Uropod Elongation is a common final step in leukocyte extravasation from inflamed vessels. Journal of Experimental Medicine. Jul 2;209(7):1349-62
3. \*Elphick GF, \*Sarangi PP, Hyun Y, Hollenbaugh JA, Ayala A, Biffl WL, Chung H, Rezaie AR, McGrath JL, Topham DJ, Reichner JS, Kim M. 2009. Recombinant human activated protein C inhibits integrin-mediated neutrophil migration. Blood. 113(17):4078-85 \*Co-First Author. *Cited in Nature’s Scibx Journal*
4. Sarangi PP, Woo SR, Rouse BT. 2009. Modulation of herpes virus induced ocular immunopathology by anti-CD200R:Fc treatment. Clinical Immunology. 131(1):31-40
5. Sarangi PP, Kim B, Rouse BT. 2008. Modulation of herpes virus induced ocular immunopathology by non-mitogenic anti-CD3 monoclonal antibody treatment. ****Investigative Ophthalmology & Visual Science**.** 49(12):5425-33
6. Sarangi PP, Sehrawat S, Suvas S, Rouse BT. 2008. IL-10 and natural regulatory T cells: Two independent anti-inflammatory mechanisms in HSV induced ocular immunopathology. Journal of Immunology. 180(9):6297-306
7. **Sehrawat** S, Suvas S, Sarangi PP, Shuryawanshi A, Rouse BT. 2008. **In vitro generated antigen specific CD4+CD25+Foxp3+ regulatory T cells control the severity of virus induced immunoinflammatory lesion.** Journal of Virology. 82(14):6838-51
8. \*Kim B, \*Sarangi PP, Ahmet Kursat Azkur, Deshpande Kaistha S, Rouse BT. 2008. Enhanced viral immunoinflammatory lesions in mice lacking IL-23 responses. Microbes and infections. 10(3):302-312 \* Co-First Author.
9. Sarangi PP, Kim B., Kurt-Jones E, Rouse BT. 2007. Innate recognition network driving the HSV induced corneal immunopathology: Role of Toll Pathway in the early inflammatory events in Stromal Keratitis. Journal of Virology. 81(20):11128-38
10. Kim B, Sarangi PP, Y Lee Deshpande Kaistha S, Lee S, Rouse BT. 2006. Depletion of MCP-1 increases development of herpetic stromal keratitis by innate immune modulation. Journal of Leukocyte Biology. 80(6):1405-15 *Recommended in Faculty1000*
11. Kim B, Suvas S, Sarangi PP, Lee S, Reisfield RA, Rouse BT. 2006. Vascular endothelial growth factor receptor2-based DNA immunization delays development of herpetic stromal keratitis by antiangiogenic effects. Journal of Immunology. 177(6):4122-31
12. Suvas S, Kim B, Sarangi PP, Tone M, Waldmann, H, Rouse BT. 2005. In vivo kinetics of GITR and GITR ligand expression and their functional significance in regulating viral immunopathology. Journal of Virology. 79(18):11935-42

Invited Reviews

1. Rouse BT, Sarangi PP, Suvas S. 2006. Regulatory T cells in virus infections. Immunological Reviews. 212:272-86
2. Sarangi PP, Lee Hyun-wook and Kim M. 2010. Activated Protein C action in inflammation. British Journal of Hematology. 148(6):817-33

Book chapters:

1. Sarangi PP, Rouse BT. Herpetic Keratitis. 2009. Levin and Albert Ocular Disease: Mechanisms and Management, Elsevier, Chapter 12

**Invited Talk:**

2013 International Conference on Hematology & Blood Disorders (Hematology-2013) Raleigh, USA

Title: Exacerbated tissue homing of hyper-inflammatory neutrophils during sepsis is mediated by integrin VLA-3 (CD49c/CD29)

Peer Reviewed Scientific Conference Presentations:

2013 Oral Presentation- NIDCR Annual Retreat, Maryland

Title: Fibulin-7 active as a immunomodulator

2013 **Poster Presentation**- Immunology (AAI), Honolulu

Title: **F**ibulin-7, a member of the extracellular matrix fibulin family, regulates immune cell migration and function

2012 Poster Presentation- NIDCR Annual Retreat, Rockey Gap, Maryland

Title: Fibulin-7 a new member of the extra cellular matrix fibulin family of proteins is involved in adhesion, angiogenesis and inflammation

2011 **Poster presentation**- Thirty-fourth Annual Conference on Shock, Norfolk, Virginia

Title: Exacerbated tissue homing of hyper-inflammatory neutrophils during sepsis is mediated by integrin VLA-3 (CD49c/CD29)

2010 **Oral Presentation** -Thirty-third Annual Conference on Shock, Portland, Oregon.

Title: A peptide analog of the RGD (Arg-Gly-Asp) motif improves sepsis survival & bacterial clearance via regulation of local neutrophils recruitment

2008 **Poster Presentation** - Keystone Symposium, Keystone, Colorado

Title: Modulation of herpes virus induced ocular immunopathology by non-mitogenic anti-CD3 monoclonal antibody treatment. Poster presentation

2007 **Poster Presentation** - Immunology (AAI), Miami, Florida

Title: IL-10 and natural regulatory T cells: Two independent anti inflammatory mechanisms in HSV induced ocular immunopathology

2007 **Poster and Oral Presentation** - Annual Research Symposium, Univ. of Tennessee, TN

Title: IL-10 and natural regulatory T cells: Two independent anti inflammatory mechanisms in HSV induced ocular immunopathology.

2006 **Poster Presentation** - Keystone Symposium, Colorado

Title: Roll of Toll-like Receptors in clinical herpetic stromal keratitis

Professional Training and Workshops

2013 Management in academic environment workshop, NIH.

2012 Management Boot Camp, NIH.

2012 Scientists Teaching Science Term Course, NIH.

2011 Workplace Dynamics, NIH.

2011 Certificate Course in Principles of Clinical Pharmacology, NIH.

2008 Phlebotomy training program. University of Rochester, NY.

**Service to the Immunology Community**

Serving as reviewer for several peer-reviewed Immunological Journals (Clinical Immunology, Journal of Biological regulators & Homeostatic Agents, Critical Care, Journal of Biological Inorganic Chemistry, Inflammation, Journal of Inflammation, International Journal of Medical Sciences, Investigative Ophthalmology and Visual Sciences, International journal of Nanomedicine. Editorial Review Board Member- International Journal of Immunology Research

Membership in Professional Societies

American Association of Immunologists

Shock Society

Indian immunology Society

Odisha Vigyan Academy (Life Member)

Orissa Veterinary Association (Life Member)