

Curriculum Vitae & Bibliography



Shyam S. Mohapatra, MS, PhD, FAAAAI
University of South Florida College of Medicine,
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USF Affiliation:

Mabel & Ellsworth Simmons Professor, Department of Internal Medicine, Division of Allergy & Immunology

Director of Basic Research, Division of Allergy and Immunology and the Joy McCann Culverhouse Airway Disease Center,

Director (Basic Sciences), University of South Florida-Health, Signature Interdisciplinary Program on Allergy, Immunology and Infectious Diseases

VA Affiliation:

VA Senior Career Scientist & Principal Investigator, Research Service, James A Haley VA Medical Center, 13000 Bruce B Downs Blvd, Tampa, FL 33612 - Ph: (813) 972 -7631, Fax: (813) 972- 7623

Moffitt Affiliation:

2003 Faculty, Thoracic Oncology, H. Lee Moffitt Cancer Center and Research Institute

2002 Member of Moffitt Cancer Biology PhD program

1997 Member of H. Lee Moffitt Cancer Center and Research Institute

Adjunct Appointments with:

Department of Pediatrics and Department of Molecular Medicine, USF – College of Medicine

Department of Environmental and Occupational Health, USF – College of Public Health

University of South Florida – College of Nursing

International Adjunct Appointments

2008-2012 Adjunct Professor, Xi'an Jiaotong University, Xi'an, China

Education and Professional Training:

1999 MBA, University of South Florida

1993 Visiting Professor, Allergy & Clinical Immunology, University of Florence, Italy

1993 Visiting Scientist, Immunology, Mayo Clinic, Rochester, Minnesota

1986-87 Research Associate, Biology, McGill University, Montreal

1984-85 Alexander Von Humboldt Research Fellow, Genetics, University of Bielefeld, Germany

1984 Ph.D. (Genetics) Australian National University, Canberra

1978 MS, GB Pant University of Agril & Technology, Pantnagar, India

1976 BS, Orissa University of Agril and Technology, Bhubaneswar, India

Faculty Positions held:

2007 Tenured Professor of Internal Medicine, University of South Florida – College of Medicine

2000 Professor of Internal Medicine, University of South Florida – College of Medicine

1997 Director of Basic Research, J.M. Culverhouse Airway Disease Research Center

1996-99 Associate Professor, Internal Medicine, University of South Florida, Tampa

1996-99 Associate Professor, Medical Microbiology & Immunology, University of South Florida,

1992-95 Associate Professor (with tenure), Immunology, University of Manitoba, Winnipeg

1988-91 Assistant Professor, Immunology, University of Manitoba, Winnipeg

Specialization (specify)

- (i) Main field: Immunology and Inflammation, Molecular biology of viral infection
 - Molecular Biology and Genetics of IgE responsiveness
- (ii) Current research interests:
 - Molecular mechanisms of virus infection
 - Development of prophylactic/therapeutic gene transfer
 - Development of Genetic antivirals
 - Molecular basis of genetic predisposition to inflammatory diseases.
 - Development of nanotechnology and its application to diagnosis and therapy
- (iii) Technical discipline: Molecular biology, cell biology, immunology, microbiology, gene therapy, nanotechnology

Honors, Awards, Fellowships:

- 2009 Member, Study Section for American Institute of Biological Sciences, July 15, 2009
- 2009 Member, Study Section, NIH on Nanotechnology, June 15, 2009
- 2008 Excellence in Innovation Award, University of South Florida, November 7, 2008
- 2008 Member, Study section on NCI-F manpower & Training Grants, May 19, 2008
- 2008 "International Business Person of the Year" Award by the Indo-US Chamber of Commerce of Tampa Bay, Tampa
- 2008 Senior VA Career Scientist Award
- 2008 *Chairman and Member*, NIH-SEP on "Innovations in Nanotechnology, NHLBI
- 2007 Guest Lecturer to NIH-Recombinant DNA Advisory Committee on "Nanotechnology Applications to Gene Therapy".
- 2007 Finalist, Health Care Hero's Award, Tampa Bay Business Journal on Health Care Innovation and Research.
- 2007 Member, NIH-SEP on "Respiratory infections and asthma".
- 2007 Member, NIH-SEP on "Asthma and Allergic Diseases Cooperative Research Centers".
- 2007 Chairman, American Heart Association Scientific Review Panel.
- 2007-08 Chair, NIH Study Section– Nanotechnology in Heart, Lung & Blood: National Heart, Lung Blood Institute
- 2007 Fellow, USF Health Leadership Institute
- 2007 Member, NIH-SEP on "Respiratory infections and asthma".
- 2007 VA Career Scientist Award
- 2006 Chairman, Committee of Signature Program Directors, University of South Florida –
- 2006 Member, Advisory Board, NIPER-NANO-2006 Conference - Nanotechnology in Advanced Drug Delivery, National Institute Pharmaceutical Education and Research, Chandigarh, India, Feb 17-18, 2006.
- 2006 Co-Chair/Chair for American Heart Association Scientific Review Panel.
- 2006 Director (Basic Sciences) University of South Florida – Health Signature Program on Allergy, Immunology and Infectious Diseases, Tampa.
- 2005 University of South Florida Outstanding Faculty Research Achievement Award, Tampa.
- 2005 Member, NIH Study Section (SEP on NCI's Nanotechnology Platforms for Cancer).
- 2005 Member, NIH Study Section (SEP on NIAID "Leadership in Clinical trials for HIV/AIDs).
- 2005 Outstanding Biotech Achievement Award, University of South Florida-Health Science Center, Tampa.
- 2005 Sigma Xi 2004-05 Outstanding Faculty Researcher Award, Tampa Bay Chapter, Tampa.
- 2004 Outstanding Biotechnology Recognition Award, University of South Florida, Health Science Center.
- 2004 Outstanding Biotechnology Recognition Award, University of South Florida, Health Science Center.
- 2004 Chairman of NIH Study Section (SEP on Signaling of the Immune System).
- 2004 Chairman, Scientific Advisory Board of TransGenex Nanobiotech Inc, Tampa.
- 2003 Member, NIH Study Section (SEP on ancl Asthma and Allergic Diseases Research
- 2003 "Editor-in-chief" of the online Journal: "Genetic Vaccines and Therapy."
- 2002-03 Study Section of American Heart Association Scientific Review Panel

2002-03 Member of NIH-Special Emphasis Panel on Asthma and Allergy Disease Center
2002-03 Member of NIH-SEP on Innate Immunity and Bioterrorism Related Grants
2000 Named with biography in the distinguished AMERICAN WHO's WHO,
2000 Member of American Thoracic Society Advisory Board on Education 2001 Edition.
2000 Member, INTERNATIONAL WHO' S WHO Association, NC.
1999 Veteran Administration Merit Review Award, 1999-2004.
1999 American Heart Association, Florida Affiliate, Research Grant Award, 1999-2001.
1998 American Lung Association of Florida Career Development Award.
1998-02 Member of the American Lung Association Research Grant review Committee.
1997-pres *Ad hoc* Member of the NIH-NIAID Scientific Review Panel, on AIDS, vaccines and Immunology of Aging, June,
1997 Presidential Honored Research Faculty Recognition, University of South Florida.
1997 Research and Creative Scholarship Award, University of South Florida.
1993 Named to the World Health Organization Expert Panel on Recombinant Allergens, Geneva.
1993 Medical Research Council (MRC) Visiting Scientist Award.
1992 Pharmacia Allergy Research Foundation Award, Paris, for excellence in research on IgE mediated reactions. [*A major International Award in the field of Allergy*]
1992 Univ. of Manitoba Merit Award for excellence in research and creative activities
1989 Canadian Society of Immunology Travel Award
1988-91 Research Scholar, Manitoba Health Research Council, Winnipeg
1988 St. Boniface Research Foundation Scholarship, (Declined)
1984-85 Alexander von Humboldt (AvH) Research Award, AvH Foundation, Bonn, Germany
1980-83 ANU Post-Graduate International Research Award, tenable in the Australian National University, Canberra for Ph.D. research, 1980-83.

Membership of Honored /Professional Societies:

1999 Member, American Thoracic Society.
1998 Elected as Fellow of the American Academy of Allergy, Asthma and Clinical Immunology
1998 Elected as Honorary Member of the Mexican Society of Allergy and Immunology
1993 Member, American Academy of Allergy and Clinical Immunology
1992 Member, Pharmacia Allergy Research Foundation, Uppsala, Sweden
1992 Member, American Association of Immunologists
1990-95 Member, Canadian Society of Allergy and Immunology
1990-95 Member, European Academy of Allergology and Clinical Immunology
1988-95 Member, Canadian Society of Immunology

Membership of Committees/Review Panels:

2005-pres Member, American Thoracic Society AAI Program Committee,
2004-pres AAAAI Workshop Representative for MAAI Interest Section,
2004 AAAAI Workshop Committee Vice Representative, MAAI Interest Section,
2004 Member, Protocol Committee, American Lung Assoc-Asthma Clinical Research Center Network
2002 NIH Study section-Centers of Excellence on Allergy and Asthma,
2001 Member of Scientific Review Panel, American Heart Association, Southern Cons,
1999 Member of the Cells & Cytokine Committee, American Academy of Allergy, Asthma and Immunology,
1998 Member of Scientific Review Panel, American Lung Association, New York,
1998 Member of the Molecular Biology and Genetics Committee, American Academy of Allergy, Asthma, and Immunology,
1998 Molecular Biology and Genetics Committee, American Academy of Allergy, Asthma, and Immunology,
1997 Member of Review Panel for Student Research, University of South Florida-Faculty of Medicine and VA.
1997 Member of Interview Committee for admission of Medicine Students, University of South Florida-Faculty of Medicine,
1993-95 Member of Operating Grants Panel of the Manitoba Health Research Council, Winnipeg, Canada,

- 1994 Member of Faculty of Medicine Research Awards Committee, College of Medicine,
- 1994 Member of the International Scientific Board, 5th International Symposium of Aerobiology, Bangalore, India, University of Manitoba,
- 1993 Member of World Health Organization Expert Panel on Recombinant Allergens and Epitopes, Geneva, Feb 22-24,
- 1993 Member of the Cytokine committee, American Academy of Allergy and Immunology.
- 1992 Member of the IUIS/WHO Expert Panel for the nomenclature and development of
- 1990-92 Member, International Collaborative Study on HLA Association of Allergies,
- 1990 Member, International Committee on Genetics of Asthma Study, guidelines for treatment of allergies using recombinant allergens,
- 1990-93 Member, Interview Committee for the Admission of Students to the Undergraduate Program, University of South Florida-Faculty of Medicine,
- 1989 Member, International Committee-at-large for Allergen Nomenclature,

Chair/Moderator, Scientific sessions:

- 2009 Plenary lecture "Short interference RNA (siRNA): Potential therapy for allergy and asthma" World Allergy Organization Symposium, Buenos Argentina (Invited), December
- 2009 Plenary lecture "Nanomedicine: Applications in diagnosis and therapy", World Allergy Organization Symposium, Buenos Argentina (Invited) December
- 2009 Plenary lecture "Anti-viral therapy. What is new" World Allergy Organization (invited) December
- 2008 Plenary on 'Designer Antibodies' in World Allergy Organization Symposium at the American Academy of Allergy, Asthma and Immunology, Philadelphia, March
- 2008 Plenary lecture on "siRNA in allergic disease" in AAAAI Course on Molecular Biology, What's hot: Novel applications to allergic disease. American Academy of Allergy, Asthma and Immunology, Philadelphia, March
- 2008 Moderator, "Molecular Links: RSV and asthma" American Academy of Allergy, Asthma and Immunology, Philadelphia, March
- 2008 Plenary lecture on "Mesenchymal stem cells and asthma " in Pulmonary stem cells: Role in Pathogenesis and protection." American Academy of Allergy, Asthma and Immunology, Philadelphia, March
- 2007 Discussion Leader in Advanced Seminar, "Nanotechnology, Drug Delivery and Asthma". American Academy of Allergy, Asthma and Immunology, San Diego, California, February 23-27
- 2007 Discussion Leader in Advanced Seminar, "What is the Optimal Treatment for Virus Induced Wheezing and Asthma" February 23-27
- 2007 Discussion Leader in Advanced Seminar, "The Beginning of Asthma: Role Natriuretic Peptides" February 23-27
- 2007 Chairman, Signature Conference "Advances in Immune Regulation" Embassy Suites Hotel, University of South Florida, Tampa, FL, May, 2007.
- 2006 Chairman, Advanced Conference on "Advances in Nanotechnology: Biomedical Applications", University of South Florida, Tampa, FL, December, 2006.
- 2006 Co-Moderator, Advanced Seminar on "Nanotechnology and applications to Allergy and Asthma" American Academy of Allergy, Asthma and Immunology, Miami, Florida (March).
- 2006 Co-organizer, NIPER-NANO-2006 Conference - Nanotechnology in Advanced Drug Delivery, National Institute Pharmaceutical Education and Research, Chandigarh, India. (Feb 17-18, 2006)
- 2005 Co-organizer, 8th International Congress on Emerging Technologies on Drug and Gene-based Therapeutics, Crete, Greece. (Sept 3-10)
- 2002 Plenary lecturer in International RSV conference, Washington DC.
- 2002 Plenary lecturer in Symposium, American Academy of Allergy, Asthma and Immunology on "IFN- γ Gene Therapy Against Allergy and Asthma" New York, New York. (March)
- 2001 Plenary lecturer in Workshop, American Academy of Allergy, Asthma and Immunology on 'Effects of Adjuvant's in Vaccines and Allergies" New Orleans, Louisiana.
- 2001 Moderator, Breakfast Seminar, American Academy of Allergy, Asthma and Immunology on "IL-4 Receptor and Immunomodulation of Atopic Response" New Orleans, Louisiana.

- 2000 Moderator, Breakfast Seminar, American Academy of Allergy, Asthma and Immunology on "IL-4 Receptor and Immunomodulation of Allergic Response" San Diego, California.
- 1997 Moderator, American Academy of Allergy, Asthma and Immunology Mini Symposium on "Allergen Characterization", San Francisco, California.
- 1997 Moderator, American Academy of Allergy, Asthma and Immunology Mini Symposium on "Molecular Biology of Allergic Response", San Francisco, California.
- 1997 Moderator, Symposium on 'Allergy and Asthma in the Year 2000 and Beyond', University of South Florida.
- 1996 Moderator, AAAI advanced Seminar on "New Therapies for Allergic Disease: Peptide Immunotherapy.", 52nd Annual Meeting of AAAI, New Orleans.
- 1995 Moderator, AAAI advanced Seminar on "New Therapies for Allergic Disease: Peptide Immunotherapy and the Induction of T-cell Anergy", 51st Annual Meeting of AAAI, New York, New York.
- 1994 Chair and Organizer, Symposium on Molecular Characterization of Aeroallergens, 5th International Symposium of Aerobiology, Bangalore, India.
- 1994 Chair, Scientific Session of Allergenic Cross-Reactions. 15th International Congress of Allergology and Clinical Immunology, Stockholm, Sweden.
- 1994 Chair, International Symposium on Immunopathology and Immunomodulation of Atopy and Asthma, Winnipeg, Canada.
- 1992 Moderator, Advance Seminar on "T-cell Epitopes of Allergens", American Academy of Allergy and Immunology.
- 1992 Chair, Scientific Session on Grass Pollen Allergens, International Symposium on Molecular Biology and Immunology of Allergens, Vienna, Italy.
- 1991 Chair, Scientific Session on HLA and Allergy Workshop, San Francisco, California.

Ad Hoc Reviewer for:

- 2009 Member, NIH Study Section on Nanotechnology
- 2008 Israel Science Research Foundation, Israel
UK Research Foundation
Swish Research Foundation
- 2007 National Heart, Lung and Blood Association
American Lung Association
American Heart Association
Member, NIH Study Section (SEP on Leadership for HIV/AIDS Clinical Trials Networks)
Member, NIH Study Section (SEP on NCI Nanotechnology Platforms)
- 2005-pres Singapore National Research Council
- 2004 Chairman of NIH Study Section (SEP on Signaling of the Immune System).
- 2003 Member, NIH Study Section (SEP on ancl Asthma and Allergic Diseases Research Centers: innate immunity, bioterrorism)
- 2001 National Asthma Campaign, London, England
- 2002 Asthma Foundation of Netherlands, Amsterdam
- 1997 Study Section on AIDS and Vaccine Development
- 1997 VA Merit Review Application, JAH VA Hospital
- 1995 NATO collaborative grant.
- 1995 NSF collaborative grant
- 1995 British Columbia Health Research Council Operating Grants
- 1993 Medical Research Council of Canada Operating and Scholarship grants
- 1992-95 Manitoba Health Research Council, Winnipeg, Canada
- 1991-96 NSERC, Canada -Operating and Strategic Grants
- 1991-96 NSERC, Canada- Independent Investigator Research Programs

Manuscripts:

- 2008 Gene Therapy (Nature Journals), *Editor*
- 2007 Clinical and Developmental Immunology, (*Associate Editor*)
- 2003 Genetic Vaccines and Therapy, *Editor-in-Chief*
- 2004 Clinical and Molecular allergy, *Associate Editor*

1998 Journal of Allergy and Clinical Immunology
 1997 American Medical association Asthma Web
 1997 Biodrugs
 1996 Immunology Today
 1996 Journal of Clinical Investigations
 1993 International Journal of Cancer
 1993 Allergy
 1992 Journal of Immunology
 1991 Journal International Archives of Allergy and Immunology
 1989 Journal of Cellular and Molecular Biochemistry,
 Vaccine
 American J Crit Care Medicine
 Gene Therapy
 Molecular Therapy
 Human gene therapy
 European Respiratory Journal

Thesis Examination:

2008 Examiner, PhD Thesis, Modulation of Monocyte-Derived Dendritic Cell Maturation and Function by Cigarette Smoke Condensate in a Bronchial Epithelial Cell Co-Culture Model Alison Jones Montpetit, College of Nursing, University of South Florida, Tampa.
 2008 Examiner, PhD thesis, Surface and interface magnetism in nanostructures and thin films. By Natalie A Frey, University of South Florida, Tampa.
 2008 Examiner, PhD thesis, Supercritical fluid aided microencapsulation of dry powders. By Raquel Carvallo, University of South Florida, Tampa.
 2004 Examiner, PhD thesis, Role of PKC-alpha in Respiratory Syncytial Virus Infection of human epithelial cells. University of South Florida, Tampa.
 1994 External Examiner, PhD thesis, Characterization of Tropomyosin as the Major Allergen of Shrimp, by Shanti, K.N., Indian Institute of Science, Bangalore, India.
 1994 External Examiner, PhD thesis, "Molecular Characterization of Dust Mite Allergens" by Dilworth, M., University of Western Australia.
 1993 Examiner, Ph.D. thesis, "Developmental and Molecular Characterization of Allergen Cognates in Barley" by Astwood, J., University of Manitoba.
 1993 Examiner, Ph.D. thesis, "Downregulation of Antigen Specific Antibody Responses by CDR3 Peptides of Antigen Receptors of CD8 Positive Suppressor T-cells" by Mohapatra, SS, University of Manitoba.
 1992 Examiner M.Sc. thesis, "In Vivo and In-vitro Study of Murine Cytokine Gene Expression via RNA and Protein Analysis" by Wang, H., University of Manitoba.
 1992 Examiner, Ph.D. thesis, "Characterization of Ovalbumin-Specific Suppressor T-cells and Their Suppressor Factors Induced by Tolerogenic conjugates of Ovalbumin and Monomethoxy Polyethylene Glycol", by Chen, Y., University of Manitoba.
 1991 External Examiner, Ph.D. thesis "B cell Epitope Analysis of Recombinant House Dust Mite

Professional Communications:

Plenary lecturer in important national/ international symposia:

2008 Webinar, International Asthma Congress, Monte Carlo, November 5-8, 2008.
 2008 Paul-Ehrlich Symposium-II, Nuenberg, Germany, October 3-5, 2008.
 2008 World Cancer Congress, Sanghai, China, June 2008
 2008 Panel discussion, The Future Medical Forum, Tampa, 2008
 2008 Co-Organizer Indo-US Workshop on Adolescent HIV/AIDS, Vadodara, India
 2008 Plenary on 'Designer Antibodies' in World Allergy Organization Symposium at the American Academy of Allergy, Asthma and Immunology, Philadelphia, March (Invited)
 2008 Plenary lecture on "siRNA in allergic disease" in AAAAI Course on Molecular Biology, What's hot: Novel applications to allergic disease. American Academy of Allergy, Asthma and Immunology, Philadelphia, March (Invited)

- 2008 Moderator, "Molecular Links: RSV and asthma" American Academy of Allergy, Asthma and Immunology, Philadelphia, March (Invited)
- 2008 Plenary lecture on "Mesenchymal stem cells and asthma " in Pulmonary stem cells: Role in Pathogenesis and protection." American Academy of Allergy, Asthma and Immunology, Philadelphia, March (Invited)
- 2007 Lecture, "A critical role for atrial natriuretic peptide receptor signaling in allergic disease", World Allergy Congress, Bangkok, Thailand (Invited speaker)
- 2007 Lecture, "Atrial natriuretic peptide receptor (NPRA) signaling in human dendritic cells controls treg development, World Allergy Congress, Bangkok, Thailand (Invited speaker)
- 2007 Symposium on "What is the Optimal Treatment for Virus Induced Wheezing and Asthma", *Topic: Molecular Approaches to Antiviral Therapy: What's in the Horizon.* American Academy of Allergy, Asthma and Immunology, San Diego, California, (February 23-27).
- 2007 Invited lecture, Workshop "Nanotechnology and Asthma", American Academy of Allergy, Asthma and Immunology, San Diego, California, (February 23-27).
- 2007 Invited Lecture, Workshop on "The Beginning of Asthma: Role of Natriuretic Pathway", *Topic: ANP Pathway: Modulation of Innate and Adaptive Immunity*", American Academy of Allergy, Asthma and Immunology, San Diego, California, (February 23-27).
- 2006 Invited Lecture on "Nanotechnology Applications to Allergy and Asthma", University of Manitoba, St. John's, Antigua (November 19-22)
- 2006 Plenary Lecture on RSV Infection and Asthma, XIV Latin American Congress of Allergy, Asthma and Immunology, Buenos Aires, Argentina, (August 16-19).
- 2006 Plenary Lecturer, Florida Association of Allergy, Asthma and Immunology. Florida (June)
- 2006 Plenary Lecturer, Symposium on Nanoparticles and Gene Therapy, Congress on Particles, Orlando, Florida (May).
- 2006 Plenary Lecturer: Pittsburg Annual International Lung Symposium, Pennsylvania (April 2-4).
- 2006 Invited Lecture, workshop on "Nanotechnology Applications to Allergy and Asthma", American Academy of Allergy, Asthma and Immunology, Miami, Florida, (March 3-7).
- 2006 Invited Lecture, workshop on "Regulation of Allergic Inflammation by Hormonal Peptides", American Academy of Allergy, Asthma and Immunology, Miami, Florida (March 3-7).
- 2006 Discussion Leader and Lecture, advanced seminar on "Nanotechnology and Asthma", American Academy of Allergy, Asthma and Immunology, Miami, Florida (March 3-7).
- 2006 Invited Lecture, workshop on "Regulation of Allergic Inflammation by Hormonal Peptides", American Academy of Allergy, Asthma and Immunology, Miami, Florida (March 3-7).
- 2006 Plenary Lecturer, NIPER-NANO-2006 Conference "Nanotechnology in Advanced Drug Delivery, National Institute Pharmaceutical Education and Research", Chandigarh, India, (Feb 17-18).
- 2005 Plenary Lecturer: Annual Meeting of the American College of Chest Physicians, Montreal, Canada (October 29-Nov 3) (invited)
- 2005 Plenary Lecturer in 8th International Congress on Gene and Drug Therapeutics, (Sept 3-10) Crete, Greece.
- 2005 Plenary Lecturer in workshop on "Benefits and Harmfulness of Infections in Allergy and Asthma", World Allergy Congress, Munich.
- 2002 Plenary Lecturer in major symposium of Annual Meeting of the American Academy of Allergy, Asthma and Immunology, New York (March).
- 2001 Plenary lecturer in major Symposium of Annual Meeting of the American Chest Physician's Foundation, Philadelphia, June, 2001.
- 2001 Plenary lecturer in major Symposium of International asthma Congress, Chicago, 2001.
- 2000 Plenary lecturer as external professor: Annual training Course for Pediatricians, Jalisco, Guadalajara, May 15-19, 2000.
- 2000 *Advanced Seminar: 56th Annual Meeting of the American academy of Allergy Asthma and Immunology, San Diego, CA, March 2000 (invited)*
- 1999 Plenary lecturer as external professor: 50th Annual Congress of the Indian College of Allergy and Immunology, Chandigarh, November 1999.
- 1999 Plenary lecturer as external professor: 53rd Mexican Congress of Allergy and Immunology, Porte Vallarta, Mexico.
- 1998 Invited Speaker, International Congress of Immunology, Workshop on Allergens and allergic reactions, New Delhi, October 1998.

- 1998 Plenary lecturer: XV Colombian Congress of Internal Medicine, Cartagena de Indias, October 08-11, 1998. Topics: Application of molecular biology to allergic disease, and Animal models of Asthma.
- 1998 Plenary lecturer as external professor: 52nd Mexican Congress of Allergy and Immunology, Zacatecas, Mexico. Topics: The nature versus nurture: Spotlight on asthma, DNA Vaccine: Applications in allergy and asthma, RSV infection and asthma: is there a link?
- 1998 Plenary lecturer as external professor: VII Workshop on Advances in Clinical Immunology and Allergy, Topic: "Advances in treatment of asthma" Mexico city.
- 1997 53rd American Academy of Allergy, Asthma and Immunology Mini Symp. on "Allergen Characterization", San Francisco.
- 1997 53rd American Academy of Allergy, Asthma and Immunology Mini Symp. on "Molecular Biology of Allergic Response", San Francisco,
- 1997 Symposium on "Allergy, Asthma and Clinical Immunology in the Year 2000 and Beyond", University of South Florida.
- 1996 American Academy of Allergy, Asthma and Immunology Advanced Seminar on "New therapies for allergic disease: Peptide immunotherapy.", 52 Ann. Meeting of AAI, New Orleans.
- 1995 50th Mexican Society of Allergy and Immunology, Guadalajara, Mexico, October 1995. Topic: Role of adhesion molecules in allergy and asthma.
- 1995 Interasthma-95, Guadalajara, Mexico, October 1995. Symposium on Immunotherapy, Topic: Basic aspects of specific Immunotherapy
- 1995 North Central Allergy Conference, Minneapolis, U.S.A. Topic: Advances in Peptide Immunotherapy: potential and implications
- 1994 15th International Congress of Allergology and Clinical Immunology and European Academy of Allergology and Clinical Immunology, Stockholm June 1994. "Meet the Professor Luncheon Seminar" with Prof. D. Kraft. Topic: "treatment of allergies with peptides: the future?"
- 1994 15th International Congress of Allergology and Clinical Immunology and European Academy of Allergology and Clinical Immunology, Stockholm June 1994. "Symposium on Basic Allergy: IgE regulation and therapy". Topic: "Therapy of IgE mediated reaction with recombinant allergens and epitopes".
- 1994 5th International Congress of Aerobiology and Health, Bangalore (India) August 1994. Topic : "Treatment of pollen allergies and asthma with recombinant allergens and peptides".
- 1994 International Asthma Symposium, Winnipeg, April 8-9, 1994 "Peptide Immunotherapy: Principles and Potential"
- 1994 49th Mexican Society of Allergy and Immunology, Manzanillo, Mexico, October 1994. Topics: Genetics and regulation of IgE response, Immunotherapy: past, present and future and participant in Round Table discussions on "Controversies on immunotherapy".
- 1994 Second Annual Congress of British Society of Immunology Meeting, Harrogate, December, 1994 topic: "Downregulation of specific Immune responses with TCR peptides vaccination."
- 1993 International Symposium on Molecular Biology and Immunology of Allergens, February 1993, Vienna. "Intra- and inter-species cross-reactivities among pollen allergens".
- 1993 Fourth International Allergy 2000 Symposium (by Schering-Plough International): "Role of T cells and T cell cytokines in allergic disorders", Vienna, December, 1993.
- 1993 3rd International Workshop on Suppression, La Jolla, CA, June 1993. Topic: Downregulation of antigen-specific Immune responses with TCR peptides".
- 1993 International Symposium on Recent Advances in Allergology and Clinical Immunology, Taiwan, May 1993.
- 1993 International Symposium Workshop on "Molecular and cellular basis of allergy and autoimmunity" held in Bangalore under the aegis of the 19th Annual Congress of the Indian society of Immunology, January, 1993 (declined)
- 1992 Seventh International Symposium on Immunobiology of Proteins and Peptides, "Recombinant allergens and their potential use in immunotherapy", Lake Louis, Canada, October 1-5, 1992
- 1992 Gatlinburg Symposium, June 1992, Knoxville, Tennessee. "Molecular characterization of a novel abscisic acid responsive gene family".
- 1992 Nineteenth Annual Symposium of the Collegium Internationale Allergologicum. May 1992, Capri, Italy. "Therapeutic potential of recombinant allergens".

- 1992 Moderator and Speaker, American Academy of Allergy and Immunology, March 1992, Orlando, Florida. "T cell epitopes of allergens".

Other Selected Speaking Invitations (Mini symposia, workshops etc):

- 2000 Workshop on MAPKs, ATS Meeting, 2000, Toronto, April 5-10, 2000.
- 1995 Workshop on regulation of IgE response. 51st Amer. Acad. Allergy and Immunol., New York, 1995. "Inheritance of IgE Immune responsiveness in mice".
- 1995 Workshop on Immunotherapy of allergic diseases. 8th Int. Congress of Immunology, San Francisco, July 1995. "Recombinant allergens and peptides: implications in immunotherapy".
- 1995 Workshop on allergens and allergy. 8th Int. Congr. Immunology, San Francisco, July 1995. "Failure to induce IgE antibody in SJL mice is not due to a defect in IL-4 production".
- 1994 Workshop on "aeroallergens", 50th American academy of Allergy and immunology, Anaheim, 1994. "Identification of a novel highly cross-reactive allergen of plant pollens"
- 1993 Workshop on "Cytokines in allergic inflammation", 50th American academy of Allergy and Immunology, Chicago, 1993. "Differential expression of IL-2, IL-4 and IFN- after primary sensitization with allergens".
- 1992 Mohapatra, S.S., Mohapatra, S., Chen, Y., Takata, M. and Sehon, A.H. (1992) Predominant use of particular chains of TCR in suppressor T cell clones induced by tolerogenic Ag-mPEG conjugates of diverse specificities. Abstracts 8th Int. **Congr. Immunol.** #90-26, p.555.
- 1992 Mohapatra, S., Y. Chen, M. Takata, S.S. Mohapatra and A.H. Sehon (1992) A unique family of V genes encode TCR chains of cloned suppressor T (Ts) cells, induced by tolerogenic Ag(mPEG)_n conjugates. **FASEB J.** 6:A1140.
- 1992 Chen, Y., S. Mohapatra, S.S. Mohapatra and A.H. Sehon (1992) Cytokine gene expression of cloned CD8⁺ suppressor T (Ts) cells. **FASEB J.** 6:A1416.
- 1992 Zhang, L., Sehon, A.H. and Mohapatra, S.S. (1992) Antigen- and isotype-specific antibody responses to a recombinant antigen-allergen chimeric (RAAC) protein. **J. Allergy Clin. Immunol.** 89:321.
- 1992 Yang, M., Olsen, E. and Mohapatra, S. (1992) IgE and IgG antibody reactivities to a major Kentucky Bluegrass allergen Poa p IX. **J.Allergy Clin. Immunol.** 89: 319.
- 1992 Ansari, A.A., Alexander, E. L., Plitt, J.R. and Mohapatra, S.S. (1992) PCR analysis of the MHC class II associated invariant chain for structural and expression studies in Diabetes mellitus and other autoimmune diseases. **J. Allergy Clin. Immunol.** 89:255.
- 1991 Glaxo Workshop on HLA and Allergy Association Study, San Francisco, 1991. "HLA-D typing by rDNA technology"
- 1991 Workshop on "Pollen Allergy". XIV Int. Congr. Allergol. Clin. Immunol., Kyoto, 1991. "T cell cross-reactivity among grass pollen allergens (GPA): Characterization GPA-specific T cell clones".
- 1991 Workshop on "Pollen Allergy", XIV Int. Congr. Allergol. Clin. Immunol., Kyoto, 1991. "The major epitopes of Poa pratensis IX allergens are localized on a conserved carboxy-terminal region".
- 1991 Workshop on "Modulation", XIV Int. Congr. Allergol. Clin. Immunol., Kyoto, 1991. "Molecular characterization of T cell receptors (TCR) of antigen-specific cloned suppressor T (Ts) cells".
- 1991 Workshop on "Pollen Allergy" XIV Int. Congr. Allergol. Clin. Immunol., Kyoto, 1991. "Development of a peptide expression strategy for the determination of epitopes on allergens".
- 1991 Workshop on "immunomodulation", 11th Int. Histocompatibility Workshop and Conference, Yokohama, 1991. "T cell receptor gene usage of antigen-specific cloned suppressor T (Ts) cells". (unable to attend due to unavoidable circumstances)
- 1990 Joint Workshop on HLA and Allergy Association Studies and the Allergen Database (ALBE), Johns Hopkins Asthma and Allergy Center, Baltimore, 1990. "TCR V genes".

Research Seminars and Invited Guest Lectures:

- 2008 Univ of Colorado & National Jewis Hospital, Denver, CO
- 2008 University of Carabobo, Valencia, Venezuela
- 2008 Peking Medical Union College Division of Allergy and Immunology, Beijing, China
- 2008 Xi'an Jiaotong University College of Medicine, Xian, China
- 2008 Pennington Biomedical Research Foundation, April 2008
- 2007 Johns Hopkins University, Baltimore, July, 2007

2007 University of Pennsylvania, Pennsylvania, June, 2007
 2006 Nanobiotech World Congress, Boston, MA
 2006 University of West Virginia, Morgantown, WV
 2006 Rush University Medical Center, Chicago, IL
 2005 Creighton University, Omaha, NE
 2005 Institute of Molecular Medicine, San Diego
 2005 Galena Corporation, MA,
 2000 Boehringer Ingelheim, CT,
 2000 Curagen Inc, CT,
 1999 Pasteur Institute, Paris,
 1999 European Molecular Biology Organization, Heidelberg, Germany.
 1999 University of Bielefeld-Institute of Genetics, Bielefeld, Germany.
 1998 Johns Hopkins Asthma and Allergy Center, Baltimore, MD.
 1996 Bristol Myer Squibb Pharmaceutical Research Institute, Seattle, WA
 1996 Australian National University, John Curtin School of Medical Research, Canberra
 1996 University of Sydney, Westmead Hospital, Institute of Immunology and Allergy Research, Sydney, Australia.
 1996 Research Round, Department of Pediatrics and Child Health, University of Manitoba, Winnipeg.
 1995 University of Montreal , Montreal, CANADA
 1994 University of Sheffield, Sheffield, UK.
 1994 Department of Animal Science, Univ. of Manitoba, Winnipeg, CANADA
 1994 Department of Human Genetics, Univ. of Manitoba, Winnipeg, CANADA
 1994 National Institute of Immunology, New Delhi, INDIA
 1993 Guy's Hospital, London, England.
 1993 La Jolla Institute for Allergy and Immunology, La Jolla, CA
 1993 Max-Planck Institute for Immunobiology, Freiberg, Germany.
 1993 Department of Pathobiology, University of Minnesota, St Paul Campus, MN
 1993 Department of Allergy and clinical Immunology, University of Minnesota, MN
 1992 Department of Genetics, University of Bielefeld, Bielefeld, GERMANY.
 1992 Johns Hopkins Asthma and Allergy Center, Baltimore, MD.
 1992 University of Florence, Division of Allergology and Clinical Immunology, Florence, ITALY
 1992 International Institute of Genetics and Biophysics, Naples, ITALY.
 1992 Pharmacia Allergy Research Foundation Award Lecture, In: XVth European Congress of Allergology and Clinical Immunology, Paris May 9-15, 1992.
 1992 Lofarma Allergeni, Milano, ITALY.
 1992 Connaught Center for Biotechnology Research, Toronto, CANADA.
 1992 Department of Microbiology and Immunology, University of Calgary, Calgary, CANADA.
 1992 Department of Chemistry, University of Manitoba, Winnipeg, CANADA.
 1992 Mayo Clinic, Department of Immunology, Rochester, MN.
 1991 Department of Biochemistry and Molecular Biology, University of Manitoba, Winnipeg.
 1991 ImmuLogic Corporation, Boston, MA.
 1991 Indian Institute of Science, Bangalore, India.
 1990 Department of Botany, University of Toronto, CANADA.

Graduate Students

2008-pres	Terriane Wong, BSc	PhD (2010) (candidate)
2007-pres	Yvonne Davis, BS	PhD (2009) (candidate)
2005-pres	Xiaoqin Wang, MS (China)	PhD (2009) (candidate)
2005-pres	Shawna Shirley, B.Sc	Ph.D. 2008 (candidate)
2005-2008	Alison Jones-Montpetit, R.N.	Ph.D. 2008
2001-2005	Homero San-juan, MD	PhD. 2004

Member of Dissertation Committee:

2007 Natalie Frey, Department of Physics, University of South Florida, Tampa.
 2007 Raquel Carvallo, Dept of Chemical Engineering, University of South Florida, Tampa.

Research Supervision of Graduate (MD, PhD, MD/PhD):

Clinical Fellows

1997-2001	Kevin Rosenbach, MD: Mechanism of aspirin-induced asthma.”
1997-2000	Demetrios Theodoropoulos, MD: Detection of respiratory syncytial virus in sputum
1999-2002	Daniel Reichmuth, MD: Genetic basis of asthma
1999-2001	Giana N-Kasti, MD: Effect of dexamethazone on epithelial cells.
2000-2002	Nina Ramirez, MD: Respiratory Infection
2000-2003	Richard Crockett, MD: Role of antibiotics in asthma
2001-2003	Jose Arias, MD General Laboratory Research Training
2002-2004	Sean McKnight, MD General laboratory Research Training
2003-2005	Patrick DeMarco, MD: General laboratory Research Training
2003-2005	John Ramey, MD: General laboratory Research Training
2004-2006	Alexander Vu, MD: General laboratory Research Training
2004-2006	Denise Kearney, MD: Role of Steroids in RSV infection
2005-2007	Steven Cole, MD: General laboratory Research Training
2005-2007	Thomas Chacko, MD: General laboratory Research Training
2006-2008	B Shin, MD: Viral Infections and siRNA nanoparticles

Research faculty

2005-pres	Mark Glaum, MD, PhD, Assistant Professor, Role of ANP signaling in mast cells.
2006-pres	Weidong (Wilson) Xu, PhD Asst Professor, HIV infection and ovarian cancer
2004-pres	PK Jena, PhD, Research Instructor, Regulation of ANP gene expression
2006-pres	Arun Kumar, PhD, Research Instructor, Nanotechnol. &diagnostic applications
2005-pres	Weidong Zhang, MD, Research Instructor, siRNA inhibition of virus infection
2007-pres	Jia-wang Wang, PhD Research Associate, microRNA and regulation of asthma

Post-doctoral fellows

1997-2000	Hiroto Matsuse, MD, PhD Post doctoral Fellow, on the project “Adjuvant role of IL12 as a vaccine adjuvant”
1996-2003	Mukesh Kumar, PhD, Post doctoral training Fellow, on the project “ Development of DNA Vaccines.”
1997-2003	Aruna K Behera, PhD, Post-doctoral Fellow, On the project “Molecular changes in epithelial cells following infection with respiratory syncytial virus.”
1999-2001	Gary Hellermann, PhD, Post-doctoral Fellow on the project, Role of IL-9 receptor in asthma.
2000-2002	Geoff Patton, PhD Development of Animal Model of RSV infection.
2002-2004	Raji Singam, PhD Respiratory Syncytial Virus Infection
2004-2006	Dong-won Lee, PhD , Post-doc, Chitosan nanoparticles and gene transfer
2003-2005	Weidong Zhang, MD, Post-doc, siRNA inhibition of Dengue virus infection and respiratory syncytial virus infection
2005-06	Biswabhusan saho, PhD, Post-doc, Chemical synthesis of polymeric nanoparticles
2007-pres	Basu Nagarelli, PhD, Post-doc, Optimization of Thin Film for Bilingual Drug delivery and Development of Multifunctional Nanoparticles for Nonspecific Binding.

Visiting Faculty

1997-99	Jianan Hu, MD on the project “IL-12 as an adjuvant in allergen vaccines and allergen immunotherapy”.
2002-2004	Xiang Hu, MD on the project “Identification of genes associated with differential predisposition to IgE immune responsiveness”
2007-pres	Sang-Joon Park, MD, Post-doc, The effect of combined fluticasone and salmeterol on RSV infection in rats
2007-pres	Ruckmani Kandasamy, PhD, Post-doc, Development of lecithin and lipid based nanoparticles to explore the in-vitro release using isatin as a model drug

Technologist and Biological Scientists

1997-98 Alice Zong, BS, on the project, "Identification of genes associated with differential predisposition to IgE immune responsiveness".
1998-99 Nicole Kuderer, MD student at the Univ. of Freiberg, Research project: "Characterization signaling pathways in epithelial cells following their exposure to allergens".
1999-01 Jianan Zhang, MD, MS, Biological Scientist, on the project of human blood groups.
2002-pres Xiaoyuan Kong, MD, MS Senior Biological Scientist
2003-pres Gary Hellermann, PhD, Biological Scientist
2003-2005 Sumita Behera, MS, Technologist
2005-2006 Dongqing Chen, BS Technologist

Undergraduates

1997 Janice Wetherspoon
1997 Gregory Brun
2003 Brian Schroer (medical student)
2007 Omar Syed

University of Manitoba (1988-1996)

Post-Doctoral Fellows/Research Associates

1989-91 Andre Silvanovich, M.Sc. Research Associate (with Dr. R.D. Hill)
1989-91 Egil Olsen, Post-doctoral Fellow
1994 Research Associate
1990-92 Ma Luo, Ph.D. Post-doctoral Fellow
1993-94 Research Associate
1992 Arvinda Kasyap, Ph.D. Post-doctoral Fellow
1994-96 Ming Yang, MD. Research Associate

B.Sc. Med Student

1990 Peter R. Clark B.Sc. (Med)
1994 Allon Davis B.Sc. (Med) (with Dr. Becker)

Served as Major Professor for Dissertation Research:

PhD Students Dissertation Director

1992 Lei Zhang, M.D. Scientist, "Structure-Function analysis of *Poa Pratensis* grass allergen, Poa p 9." Present position: Senior Scientist, Health Canada, Ottawa.
1994 Egil Olsen, Ph.D., Present position: Research Manager Dynabeads & Assoc Prof, Univ. of Oslo & Univ. of Manitoba
1996 Gangur Venugopal, M.V.Sc ,PDF, Univ. of Manitoba

PhD Students Co-Supervised

1992 Youhai Chen, M.D. (with Dr. A. Sehon) Asst. Prof, Univ. of Pittsburg
1993 Subhra Mohapatra, M.Sc. (with Dr. A. Sehon) Research Asst Prof, Moffitt Cancer Center & USF

M.Sc. Students Thesis Director

1992 Ming Yang, M.D.M.Sc., Student, Univ Manitoba
1996 Cao Yanna M.Sc., Res. Associate, Univ. Manitoba
1992 Hui Wang, entitled "*In vivo* and *in vitro* study of murine cytokine gene expression via RNA and protein analysis", University of Manitoba. M.Sc. thesis

B.Sc. Med Student

1990-92 Peter R. Clark B.Sc. (Med)
1993-94 Allon Davis B.Sc. (Med)

Committee Member for Graduate Studies:

1995 Umu Anzala, Ph.D. Candidate, Department of Medical Microbiology
1992-95 Brendan McClarty, summer student

Research Supervision of Graduate (MD, PhD, MD/PhD):

- i) Demitri Theodoropoulos, MD, Clinical Research Fellow, on the project "Detection of respiratory syncytia virus in sputum"
- ii) Giana N-Kasti, MD, Clinical Research Fellow, on the project "Effect of dexamethazone on epithelial cells."
- iii) Kevin Rosenbach, MD, Clinical Research Fellow, on the project "Mechanism of aspirin-induced asthma."
- iv) Mukesh Kumar, PhD, Post doctoral training Fellow, on the project "Development DNA Vaccines."
- v) Aruna K Behera, PhD, Post-doctoral Fellow, On the project "Molecular changes in Epithelial cells following infection with respiratory syncytial virus."
- vi) Xiang Hu, MD on the project "Identification of genes associated with differential predisposition to IgE immune responsiveness"
- vii) Hiroto Matsuse, MD, PhD Post doctoral Fellow, on the project "Adjuvant role of IL12 as a vaccine adjuvant"
- viii) Gary Hellerman, PhD, Post-doctoral Fellow on the project, Role of IL-9 receptor in asthma.
- ix) Geoff Patton, PhD, Instructor, on Development of Animal Model of RSV infection.
- x) Dan Reichmuth, MD, Clin Res Fellow, on "genetic basis of asthma"
- xi) Weidong Zhang, MD, Post-doc, siRNA inhibition of Dengue virus infection and respiratory syncytial virus infection
- xii) PK Jena, PhD, Research Instructor, Regulation of ANP gene expression
- xiii) Dong-won Lee, PhD, Post-doc, Chitosan nanoparticles and gene transfer
- xiv) Arun Kumar, PhD, Research associate, nanotechnology and diagnostic applications
- xv) Biswabhusan sahu, PhD, Post-doc, Chemical synthesis of polymeric nanoparticles
- xvi) Sang-Joon Park, MD, Post-doc, The effect of combined fluticasone and salmeterol on RSV infection in rats
- xvii) Ruckmani Kandasamy, PhD, Post-doc, Development of lecithin and lipid based nanoparticles to explore the in-vitro release using isatin as a model drug
- xviii) Basu Nagarelli, PhD, Post-doc, Optimization of Thin Film for Bilingual Drug delivery and Development of Multifunctional Nanoparticles for Nonspecific Binding

Teaching:

- 2007-08 Teach evidence-based medicine to Med-II students
- 2007 Developed the course curriculum and lecturer for "Clinical Research Methods" for VA/USF residents and fellows and house staff. Course contained the following lectures: (1) Literature Searching, (2) Anatomy & Physiology of Clinical Research (3) Project Management, (4) EBM and Teaching Proficiency, (5) Biostatistics (6) Sample Size and Power in Clinical Research, (7) Basic Epidemiology Study Designs, (8) Reading Epidemiology Literature, (9) Grant and Scientific Writing (10) Compliance, (11) Ethics and Research Integrity, (12) Sponsored Project Finances, (13) Journal Reviewing.
- 2007 Patient oriented Clinical Research Course: SPOR Program Course
- 2006 Patient oriented Clinical Research Course: – SPOR Program Course on Principles of Clinical Research: (1) The Anatomy and Physiology of Clinical Research, (2) The role of Clinical Research in Evidence-Based Medicine, and (3) Meta-Analysis
- 2002, 2005 Developed the course curriculum for "Clinical Research Methods".
- 2001 Co-coordinated lecture series on "Molecular Medicine", College of Medicine
- 1997-pres Fellows and residents at the Division of Allergy and immunology and in Internal Medicine in relation to basic immunology, molecular biology and genetics.
- 1997-pres Participate College of Medicine undergraduate Honors Program
- 1997-pres USF Summer student training program
- 2002-pres Participate in Molecular Cell Biology graduate course
- 2002-pres Participant in Cancer Cell Biology graduate course

USF Summer student training program

- 1997-05 Coordinator of the VA Research seminars sponsored by the Division of Allergy and Immunology

1996-pres Coordinator of the work-in progress seminars for the research
 1998-99 Coordinator of the "Forum in Molecular Medicine" for the Department of Internal Medicine Grand Rounds, and Molecular Medicine: Bench to Bedside.
 1998-04 Coordinator of the Airway Disease Research Center Seminars

Administration:

2007-08 Member of CTSA Planning Group, USF Health
 2006-07 Member of Search Committee, Associate Dean of Graduate and Post-doctoral studies
 2006-07 Member of Search Committee, Chair of Molecular Medicine
 2006-07 Member of University Discipline Committee (selection of USF Health Distinguished Professors)
 2006-pres Chairman, Committee of Signature Program Directors, USF Health, Tampa
 2006-pres Director (Basic Sciences), USF Health Signature Program on Allergy, Immunology and Infectious Diseases, and chairman of the Executive Committee, USF Health & VA, Tampa
 2004-pres Member of Research and Development Committee, VA Hospital
 1999-pres Director of Basic Research, VA/USF Joy McCann Culverhouse Airway Disease and Nanomedicine Research Center
 1998-99: Member of Faculty Senate
 1999-pres Member of Faculty Senate Committee on Convocation and Awards,
 1999-pres Member of Committees on Committee, College of Medicine,
 2003 Member of College Medical Students Interview Committee

Collaborators: (University, National & International)

Univ of South Florida

COM:

<u>Internal Medicine:</u>	Div Allergy & Immunology:	Richard F. Lockey, MD Dennis Ledford, MD Marc Glaum, MD, PhD Dr. Anna Plaas, PhD David Vesely, MD, PhD Jeff Nadler, MD Eknath Naik, MD, PhD William Gower, MD, PhD
	Div Rheumatology:	Gerold Bepler, MD, PhD Scott Antonia, MD, PhD Subhra Mohapatra, PhD
	Endocrinology:	Shekhar Bansali
	Infectious Disease:	Sri Hariharan Stuart Brooks Giovanni Piedemonte, MD Shau-Ku Huang, PhD Kam Leong, PhD Richard Flavell, PhD Raif Geha, MD MNV Ravi Kumar, PhD Gitimoy Kar, PhD Paul Sanberg, PhD

Biochemistry:

Moffitt Cancer Center:

College of Engineering:

Dept Physics :

COPH:

Univ. of West Virginia

Johns Hopkins University

Yale Univ

Harvard Univ

NIPER, India

TGN Inc, Tampa

Saneron-CCEL

Ongoing Research Support:

1. NHLBI-RO1 HL71101-01A2 (Mohapatra:PI) October 2003-August 2009.
Chitosan IFN- γ -pDNA Nanosphere Therapy and Immunopathology of Allergic Asthma.
To investigate the potential and mechanism of chitosan-IFN γ DNA nanospheres in the treatment of allergic asthma. (No cost Extension)
2. NHLBI-1R21088299-02 (Mohapatra: PI) July 2008- June 2010
Association between ANP and NPRA Gene Polymorphisms and Severity of Atopy and Asthma.
3. NIH-1D43TW006793-01A2 (Mohapatra: Co-PI) September 2007-June 2012
Program in Adolescent HIV/AIDS Research Training (PAHRT)
The overall goal of this proposal is to initiate and sustain a Research Training Program in Adolescent HIV/AIDS involving the University of South Florida (USF) in Tampa, Florida, and Vadodara Medical College (VMC) in Gujarat, India.
4. NIH-AI075523 (Mohapatra: Co-Investigator, San Juan Vergara: PI) July 2007-June 2011
Role of Lipid raft in respiratory syncytial virus infection.
5. 1R43AI080431-01 (Mohapatra: PI(USF subcontract), W. Xu:PI) Sept 2008-March 2009
Targeted Delivery of siRNA Nanoparticles to Prevent HIV-1 Transmission (Phase –I, SBIR)
6. VA Merit Review Award (Mohapatra: PI) April 2005-March 2009
James A. Haley VA Hospital SiRNA-based Prophylactics for Respiratory Syncytial Virus Infection
The primary goal of the study is to investigate SiRNA-based prophylactics for RSV infection based on NS1 and NS2 genes.
7. VA Career Scientist (Mohapatra: PI) January 2007 – December 2012
James A. Haley VA Hospital
Salary Support
8. Office of Naval research Award No: N000140810914 (Mohapatra:PI) Sept 2008-Aug 2010
Production of Platelets from Hematopoietic Stem Cells using 3-D Smart Scaffolds
9. Florida Biomedical Team Science Program (Mohapatra: PI) July 2007 – December 2009
Florida Biomedical Research Team Science Project
Engineered Nanoparticles for Diagnostics and Therapeutics of Tobacco-related Diseases.
The primary goal is to investigate the principles and methods of nanoscience and nanotechnology and apply them to the early detection and targeted drug therapy of diverse tobacco-related diseases, including cancer.
10. Phase-II. Department of Army. (Mohapatra, PI of Univ Component)
Development of multifunctional nanoparticles for targeting ovarian Cancers.
The primary goal is to develop and utilize nanogene technology for targeted therapy in collaboration with TransGenex Nanobiotech, Inc. (PI: Weidong Xu, PhD)
11. FHT 09-02 Florida I-4 Corridor Matching Grant 2008-2009
Development of Anti-HIV Nano-Gene Therapy Vectors.
12. Florida I-4 Corridor Matching Grant 2007-2008
Development of nanotechnology diagnostics for ovarian cancer.
13. Pfizer Visiting Professorship Award 2008
Aim: to host Dr. Giovanni Piedimonte, Univ of West Virginia

Completed Research Support

1. Bankhead-Coley Cancer Research Program (Mohapatra:PI) January 2007 – December 2007
Florida Biomedical Research
Nanoparticle-mediated targeting of natriuretic peptide pathway for lung cancer
2. NIH-Institute of Nursing (PI: Alison Jones-Montpetit) 2005-2008
NRSA Pre-doctoral Award to Alison Jones under the mentorship of Dr. S. Mohapatra
3. Phase-I. Department of Army. (Mohapatra, PI of Univ Component)
Development of multifunctional nanoparticles for targeting ovarian Cancers.
The primary goal is to develop and utilize nanogene technology for targeted therapy in collaboration with TransGenex Nanobiotech, Inc. (PI: Weidong Xu, PhD)
4. Florida I-4 Corridor Matching Grant 2005-2007
Development of nanoparticles for asthma and respiratory syncytial virus infection.
5. NIH-1P20RR023516-01 (PI:Ken Zuckerman) Sept. 2006-August 2007
University of South Florida CTSA Planning Grant
6. R41 HL 0769-964-01 (Mohapatra:PI) Sept. 2004-April 2005
NHLBI Chliposome Nanoparticle Prophylactics for Allergic Asthma
The goal is to examine the potential of nanoparticles for the treatment of asthma.
7. NHLBI R41 HL0782-298-01 (Mohapatra:PI) Sept. 2004-April 2005
Chlipoplex Nanoparticle Prophylactics for RSV Infection
The goal is to examine the potential of nanoparticles for the treatment of RSV infection.
8. Glaxo SmithKline (Mohapatra: PI) Dec. 2004-Nov.2005
Glaxo SmithKline
Mechanism of fluticasone propionate and salmeterol combination therapy in a 3-D human epithelial cell culture model
The primary goal of this study is to examine the efficacy and mechanism of combined Therapy using beta-2 agonists and steroids in virus-induced asthma exacerbation in a 3-D epithelial cell culture model.
9. GlaxoSmithKline (Mohapatra: PI) Feb. 2005-Jan. 2006
GlaxoSmithKline
Efficacy and safety of intranasal fluticasone propionate and salmeterol in a rat model of allergen and virus-induced asthma
The primary goal of this study is to examine the efficacy and safety of a combined therapy using a corticosteroid and β -2 agonist in virus-induced asthma exacerbation in a rodent model of allergen and RSV-induced asthma.
10. NIH-Pediatric Clinical Research Center (Mohapatra: PI) Feb. 2005-Jan. 2006
Development Grant All Children's Hospital
Role of Natriuretic Peptide-Cascade in the Genesis and Control of Asthma
The primary goal of this study is to investigate the role of natriuretic peptides in the development of allergic rhinitis and asthma in children and adolescents.

PUBLICATIONS: (selected list)

1. Mohapatra, S.S., Hill, R., Astwood, J., Ekramoddoullah, A.K.M., Olsen, E., Silvanovich, A., Hatton, T., Kisil, F.T. and Sehon, A.H. Isolation and characterization of a cDNA clone encoding an IgE binding protein from Kentucky Bluegrass (*Poa pratensis*) pollen. *Int. Arch. Allergy Appl. Immunol.* 91:362. 1990
2. Mohapatra, S.S., Hill, R.D. and Sehon, A.H. Molecular cloning of allergens: progress and perspectives. *Aerobiologia* 6: 205. 1990.
3. Zhang, L., Kisil, F.T., Sehon, A.H. and Mohapatra, S.S. Allergenic and antigenic cross-reactivities of Group IX grass pollen allergens. *Int. Arch. Allergy Appl. Immunol.* 96:28. 1991.
4. Luo, M., Lihua, L., Hill, R.D. and Mohapatra, S.S. The primary structure of an environmental stress and abscisic acid inducible protein of alfalfa. *Plant Mol. Biol.* 17:1267. 1991.
5. Olsen, E., Zhang, L., Hill, R.D., Kisil, F.T., Sehon, A.H. and Mohapatra, S.S. Identification and characterization of the *Poa* p IX Group of basic allergens of Kentucky Bluegrass pollen. *J.Immunol.* 147:205. 1991. ("Outstanding" citation by Clinical Allergy Digest)
6. Yang, M., Olsen, E., Dolovich, J., Sehon, A. and Mohapatra, S.S. Immunologic characterization of a recombinant Kentucky Bluegrass (*Poa pratensis*) allergenic peptide. *J. Allergy Clin. Immunol.* 87:1096.1991. ("Outstanding" citation by Clinical Allergy Digest)
7. Silvanovich, A., Astwood, J., Zhang, L., Olsen, E., Kisil, F., Sehon, A., Mohapatra, S.S. and Hill, R.D. Nucleotide sequence analysis of three cDNAs coding for *Poa* p IX isoallergens of Kentucky bluegrass pollen. *J. Biol. Chem.* 266:1204. 1991.
8. Zhang, L., Olsen, E., Hill, R., Kisil, F., Sehon, A. and Mohapatra, S.S. Mapping of B cell epitopes of a recombinant *Poa* p IX allergen of Kentucky Bluegrass pollen. *Mol. Immunol.* 29: 1383. 1992.
9. Luo, M., Liu, J.H., Mohapatra, S., Hill, R.D. and Mohapatra, S.S. (1992). Structure and expression of a new gene family of alfalfa encoding environmental stress and abscisic acid inducible proteins. *J. Biol. Chem.* 267:15367. 1992.
10. Zhang, L., Sehon, A.H. and Mohapatra, S.S. Induction of IgE antibodies to recombinant allergens in mice. *Immunology* 76:158. 1992.
11. Mohapatra, S.S. Recombinant allergens and allergen standardization. *J. Allergy Clin. Immunol.* 89:921. 1992.
12. Baskar, S., Parronchi, P., Mohapatra, S. S., Romagnani, S. Ansari, A.A. Human T cell responses to the purified pollen allergens of the grass, *Lolium perenne*: Relationship between structural homology and T cell recognition. *J. Immunology* 148:2378. 1992.
13. Olsen, E. and Mohapatra, S.S. Expression and thrombin cleavage of *Poa* p IX recombinant allergens fused to glutathione-s-transferase. *Int. Arch. Allergy Immunol.* 98:343.1992.
14. Wang, H., Mohapatra, S.S. and Hayglass, K. Evidence for the existence of IL-4 and IFN- γ producing T cells in the naive T cell repertoire. *Immunol. Lett.* 31:169.1992.
15. Mohapatra, S.S. and Sehon, A.H. Therapeutic potential of recombinant allergens. *Int. Arch Allergy Immunol.* 98: 265. 1992.
16. Venugopal G., Mohapatra S., Salo, D., Mohapatra S.S. Multiple mismatch annealing: basis for random amplified polymorphic DNA fingerprinting. *Biochem. Biophys. Res. Comm.* 197:1382.1993.
17. Zhang L., Mohapatra, S.S. Antigen- and isotype-specific immune responses to a recombinant antigen-allergen chimeric (RAAC) protein. *J. Immunol.* 151:791. 1993.
18. Mohapatra, S., Chen, Y., Takata, M., Mohapatra, S.S. Analysis of TCR and chains in cloned suppressor T cells of diverse specificities: Implication of CDR3 in antigen recognition. *J. Immunol.* 151:688. 1993.
19. Chen, Y., Mohapatra, S., Mohapatra, S. S. and Sehon, A.H. Cytokine gene expression of the CD8+suppressor T cells. *Cell. Immunology* 149:409. 1993.
20. Chen Y, Maiti P.K., Masaru T, Mohapatra S, Mohapatra SS, Sehon, AH The suppressor factor of T suppressor cells induced by tolerogenic conjugates of ovalbumin and monomethoxy polyethylene glycol is serologically and physicochemically related to the heterodimer of T cell receptor. *J. Immunol.* 152:3. 1994.
21. Mohapatra, S.S., Mohapatra, S. Yang, M., Ansari, A.A., Parronchi, P., Maggi, E. and Romagnani, S. Molecular basis of cross-reactivity among allergen-specific human T cells: T cell receptor gene usage and epitope structure. *Immunology* 81:15. 1994.
22. Olsen, E. and Mohapatra, S.S. Recombinant allergens and diagnosis of grass pollen allergies. *Ann. Allergy* 72:499, 1994.
23. Mohapatra, S.S. Modulation of allergen-specific responses by T cell based peptide vaccines. *Clin. Rev. Allergy* 12:3, 1994.

24. Venugopal, G., Trivedi, H.N. and Mohapatra, S.S. Arbitrary single short primers identify polymorphic markers that distinguish inbred strains of mice. **Biochem. Biophys. Res. Comm.** 203:659, 1994.
25. Mohapatra, S.S. Determinant spreading: implications for vaccine design of atopic disorders. **Immunol.Today** (Letter) 15: 596, 1994.
26. Mohapatra, S. S. IL-12: possibilities. **Science** (Letter) 269:1499, 1995.
27. Mohapatra, S.S., Nicodemus C.F., Schou C and Valenta R. Recombinant allergens and epitopes. *Allergy & Clin. Immunol. News* 6:45, 1994.
28. Astwood, J., Mohapatra, S.S., Ni, H., Hill, R.D. Barley allergen homologous protein in crop plants. **Clin. Exp. Allergy** 25: 66, 1995.
29. Mohapatra, S.S. Prevention rather than cure of allergies and asthma in twenty first century? **Allergia** 42:18, 1995.
30. Olsen, E., Fallung, A. and Mohapatra, S. S. Characterization of IgE and IgG antibody responses to grass pollen allergens in non-atopic and atopic individuals. **Allergy** 50:734, 1995.
31. Venugopal, G., Yang, M., Luo, Z., Salo, D., Chang, M. and Mohapatra S.S. Analysis of Tcrvb8, II4 and Ifg as genetic predisposition factors for atopic IgE responsiveness in a murine model. **J.Immunol.** 155:5463, 1995.
32. Zhang, L., Yang, M., Chong, P. and Mohapatra, S.S. B- and T- cell epitopes of a Poa p IX allergen rKBG60 using synthetic peptides. **Immunology.** 87:283, 1996.
33. Parronchi, P., Manetti, R., Chong, P., Mohapatra, S.S., Maggi, E., Renz, H. and Romagnani, S. Modulation by IFN of cytokine profile and epitope specificity of allergen-specific T cells. **Eur. J Immunol.** 26:697, 1996.
34. Yang, M., Wang, Y., Zhang, L., Chong P. and Mohapatra S.S. Host genetic and adjuvant factors influence antibody fine specificity to a major recombinant grass allergen. **Int Arch Allergy and Immunol.** 111:173, 1996
35. Mohapatra, S.S. and Mohapatra S. Application of Molecular Biology to diagnosis and treatment of allergic diseases. **Immunol and Allergy Clin of North America**, 16:591, 1996.
36. Mohapatra, S.S. An integrated approach to immune deviation and prevention of allergies and asthma. **Allergy Clin Immunol International**, 8:164, 1996.
37. Mohapatra, S.S. and Knox, R.B. (eds.) Pollen biotechnology: Gene expression and allergen characterization. (Preface) **Chapman and Hall**, New York, 1996.
38. Cao, Y., Luo, Z., Yang, M. and Mohapatra, S.S. Vaccination with a multi-epitopic recombinant allergen (MERA) vaccine induces specific immune deviation via T cell anergy. **Immunology**, 90:46, 1997.
39. Mohapatra, S.S. Is cross-reactivity a real or an imaginary concept? (Correspondence) **J Allergy Clin Immunol** 99:724 , 1997.
40. Tao F, Yang M, Halayko A, Mohapatra SS, Stephens NL. Airway hyperresponsiveness differ in two inbred strains of mouse disparate in IgE and IL-4 production. **Am J Respir Cell Mol Biol**, 17:156, 1997.
41. Behera AK, Kumar M, Matsuse M, Lockey R, Mohapatra SS. Respiratory Syncytial Virus Induces the expression of 5-lipoxygenase and endothelin-1 in bronchial epithelial cells. **Biochem Biophys Res Comm** 251:704-709, 1998.
42. Liu, J.-H., M. Luo, K.-J. Cheng, S. S. Mohapatra and H. D. Hill. (1999) Identification and characterization of a novel barley gene that is ABA-inducible and expressed specifically in embryo and aleurone. **J. Exp. Bot.** 50: 727-728.
43. Kumar M, Behera A, Matsuse H, Lockey R, Mohapatra SS. Intranasal IFN-g transfer of prevents respiratory syncytial virus infection in BALB/c mice. **Vaccine**18:558, 1999.
44. Kumar M, Behera A, Matsuse H, Lockey R, Mohapatra SS. A recombinant BCG vaccine induces immunedeviation of allergic response in mice. **Immunology** 97: 515, 1999.
45. Burne M, Haq M, Matsuse H, Mohapatra SS, Rabb H. Genetic susceptibility to renal ischemia reperfusion injury revealed in a murine model. **Transplantation**; 69: 1023-25, 2000.
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