8/17/2016 3:40 PM CURRICULUM VITAE

**Madhavan P.N. Nair, Ph.D., C.N.S., F.A.C.N., F.A.A.A.1.**

**NIH Merit Awardee**

**Academic Address:**

Madhavan Nair, Ph.D.

Distinguished Professor and Chair,Dept of Immunology

Director: Institute of NeuroImmune Pharmacology and

Center for Personalized Nanomedicine

Herbert Wertheim College of Medicine

Associate Dean of Bio- Medical Research

**Office Address:** Florida International University

11200 SW 8th ST

AHC-I 418A

Miami FL 33199

**Office Telephone:** 305-348-1493

**E-mail:** [Nairm@fiu.edu](mailto:nairm@fiu.edu)

**Home Address:** 820, Tangier Street, Coral Gables, Florida, USA-33134

**Personal Cell Phone:** 305- 458-1803

**Nationality:** U.S.A.

**Education:**

1. M.S., Bombay University, India
2. Ph.D., Bombay University, India

1994 CNS (US Board Certified Clinical Nutritionist)

**Graduate Training:**

1966-1969 V.P. Chest Institute, University of Delhi, New Delhi, India

Research Assistant, Department of Virology

1969-1973 Cancer Research Institute, Bombay, India

Research Assistant, Department of Applied Biology

1973-1977 Cancer Research Institute, Bombay, India

Researcher, Division of Immunology

**Honors and Awards**

1. Distinguished Research Scientist Award, University of Michigan, **1990**
2. Exceptional Scholar Award, State University of New York, **2005**
3. Excellence in Faculty Scholarship Award, Florida International University, **2008**
4. Finalist, NIH Avante Garde Innovative Award, **2008**.
5. NIH Merit Awardee, **2008**--
6. Presidential Leadership Operational Excellence Award, Florida International University, **2009**
7. Recipient of FIU’s Top Research Scholar Award, **2010**
8. Honorary Charter Member, Florida International University, National Academy of Inventors **2012**.
9. Best of Miami (Miami Today) May **2013**.
10. The Wybran Award, Society on NeuroImmune Pharmacology, **2014**
11. FIU Research Recognition Award, **2014**
12. Finalist: Health Care Heroes Award: Greater Miami Chamber of Commerce ,**2015**

**Professional Certification:**

Board Certified Clinical Nutrition Specialist (CNS), August **1994**

**Academic Appointments:**

**1977**-**1979** Postdoctoral Scholar

Memorial Sloan-Kettering Cancer Center, NY City

**1979** -**1981** Associate Member

Dental Research Institute

The University of Michigan

**1979** -**1982** Postdoctoral Scholar

Department of Pediatrics

The University of Michigan

**1982** -**1984** Research Investigator

Department of Pediatrics

The University of Michigan

**1984** -**1989** Assistant Research Scientist

Departments of Pediatrics, Epidemiology and Psychiatry

The University of Michigan

**1988** -**1990** Director, AIDS Research Laboratory

Department of Psychiatry

The University of Michigan

**1989** -**1992** Associate Research Scientist

Departments of Pediatrics, Psychiatry and Epidemiology

The University of Michigan

**1992 – 2004**  Director, Research Laboratory

Division of Allergy, Immunology and Rheumatology

Departments of Medicine and Microbiology

State University of New York at Buffalo

**1992** - **1994** Associate Research Professor

State University of New York at Buffalo

Departments of Medicine and Microbiology

**1994 – 2006** Associate Member, Witesbsky Center for Immunology

State University of New York at Buffalo

**1994**- **2004** Research Professor

**2004**- **2006** Professor, Departments of Medicine and Microbiology SUNY Med school

**2006- Present**  Professor and Chair, Dept:Immunology, College of Medicine,

Florida International University

**2008- Present** Director, Institute for Neuro-immune Pharmacology,

Director **,**Center for Personalized NanoMedicine

Florida International University

**2006-**  **Present**  Associate Dean, Bio-Medical Research,

Florida International University, Miami

**2014- Present**  Distinguished Professor

Florida International University School of Medicine

**2014- Present**  Faculty Row Professor (America'sTopProfessors) [http://facultyrow.com](https://urldefense.proofpoint.com/v2/url?u=http-3A__facultyrow.com&d=AwMFaQ&c=1QsCMERiq7JOmEnKpsSyjg&r=BaxlLv_ala1u5Zy2wK2d0Q&m=0vB-DB3RqFVBMrigvyFr2APp2y4tw_lLX22dlNc4UII&s=NHgbOLAFwcHNwmm51XwGEhK95uh-PnWG_yWG6aSpiXw&e=)

**Professional Memberships and Activities:**

Review Member, BRAIN initiative, ZMHI ERL R **2014, 2015**

Review Member, ZDA1 JXR-G CEBRA **2014**

Review Member, IAS – NIDA **2013**

Review Member, NIH/ZRG1 AARR-K, **2013**

Review Member, NIH/ZRG1 MOSS-C, **2013**

Review Member, NIMH (E) ERB-F(05). MARCH **2011**.

Review Member, NIH/STRB/NCRR, MARCH **2011**.

Review Member, NIH/T-RO1, MARCH **2011**.

Review Member, NIH/ ZRG1 AARR-D, MARCH **2011**.

Review Member, NIAAA, SEP, ZAAI(01), APRIL **2011**.

Review Member, Systems Biology, HIV/AIDS, and Substance Abuse, July **2010**

Review Member, Nano -M (01) Review Group (NIH) **2010**-

Review Member, Neuro AIDS and other End-Organ Disease Study Section (NAED) **2006**-**2010**

Review Member, ZDA1 GXM-A (35) Special Emphasis Panel (K99/R00) July **2007**

Review Member, NIH STRB, NCRR Biomedical & Behavioral Research Facilities Board, **1998**-

Review member, ZCA1 SRRB-3 (CI) NCI, **2005**.

Review member, ZRGI AARR-A (40), **2005**.

Review member, AIDS Immunology & Pathogenesis (AIP) **2005**-**2006** (adhoc)

Review Member, HIV and Psychiatric Comorbidity RFA-MH-05-010, **2005**

Chair Review Group, ZRGI AARR-A (07), July **2005**

Chair Review Group, ZRGI ACE 06 Special Emphasis Panel July **2003**

Review Member, ZRGI ACE 02M, Special Emphasis Panel, August **2003**

Review Member, ZRGI ACE V, Special Emphasis Panel **2003**.

Review Member, NIH ZRG-1 Special Emphasis Panel (AARR-6 (51) **2002**.

Review Member, NIH STRB , NCRR Biomedical & Behavioral Research Facilities Board, **1998**-

Review Member NIDA AIDS Related Research Review Group AARR-6/ACE [V]/API/Special Emphasis

Panel. Adhoc/Permanent basis since **1988**.

Review Member, National Institute of Drug Abuse AIDS Training Program Special Review Committee

**1989**-**1990**

Review Member, Evaluation of NIDA AIDS Training Program", August **1990**

**Special Recognition / Mention**

* + Training Fellowship in Advance Studies in Tissue Culture and Virology (Indian Council of Medical
  + Research, New Delhi, India)
  + Twenty-third Training Course Award on Radiation (Department of Atomic Energy, Government of India, Bombay)
  + Diploma in Public Speaking (Indo-American Society, Bombay, India)
  + Listed in International Who's Who in Science and Engineering, First Edition, **1992-1993**
  + Listed in Who’s Who in Science and Engineering, Second Edition, **1994**-**1995**
  + Listed in Who’s Who in the Midwest, 24th Edition, **1994**-**1995**
  + Listed in Who’s Who in the East, 25th Edition, **1995**
  + Listed in Who’s Who in the East, 26th Edition, **1996**
  + Listed in Who’s Who in Science and Engineering, Third Edition, **1996**-**1997**
  + Listed in Who’s Who in Science and Engineering, Fourth Edition, **1998**
  + Listed in Who’s Who in the World, 16th Edition, **1999**
  + Listed in Outstanding people of the 20th Century, Cambridge, England, **1999**
  + Listed in Who’s Who in America, 56th Edition, September **2001**
  + Established Faculty with Significant New Funding-NIH R01 Award, February **2015**

**Association and Editorial Board:**

**President**: Society for Personalized NanoMedicine (SPNM) (www.s-pnm.org)                 <http://www.s-pnm.org/our-society.html>

**Editor in Chief**: Journal of Personalized NanoMedicine (JPNM) ([http://jpnmjournal.org/editorial-board.php](https://urldefense.proofpoint.com/v2/url?u=http-3A__jpnmjournal.org_editorial-2Dboard.php&d=AwMFaQ&c=1QsCMERiq7JOmEnKpsSyjg&r=BaxlLv_ala1u5Zy2wK2d0Q&m=Y-Urc6MsSE1lvZNxhxGeKVkqp1mp59z0qOuzjqkWeX8&s=88xyrIfbIeawDItWbxSBhutijk-Pynv5OieLyDHAwi8&e=)

Editorial Board of Indian Journal Laboratory Microbiology, **2000** to present

Editorial Board of Journal of Neuroimmune Pharmacology, **2005** to present

Editorial Board of Journal ISRN Virology, **2012**- Present

Editorial Board Member of JSciMed Central Annals of Virology & Research, **2014**-present

Editorial Board of the Journal of Clinical Immunolgy and Immunotherapy (CIIT), **2014**-present

Editorial member of the International journals in Biochemistry and Biotechnology

Editorial member of the Journal Current Trend in Biotechnology and Pharmacy

Editorial member of the [Journal of Clinical & Cellular Immunology](http://omicsonline.org/jccihome.php)

Editorial Board member of the ISRN Virology

Executive Editorial member of the [Journal of](file:///C:\Users\nairm\AppData\Local\Microsoft\Windows\Temporary%20Internet%20Files\Content.Outlook\JY2A1VM4\Nair%20Stuff\kydela\AppData\Local\Microsoft\Windows\Temporary%20Internet%20Files\Content.Outlook\QZVGMRNQ\goog_366048550) [Clinical Research in HIV AIDS and Prevention](http://openaccesspub.org/journals/index.php?jid=1)

Editorial Board Member of the [Journal](http://www.nobleresearch.org/Journals/JAT/JAThome.aspx) of Aids and Therapy (JAT)

**University Service (Faculty/School):**

* Director, Institute for Neuro-immune Pharmacology
* Professor and Chair, Immunology, College of Medicine
* Research Professor, Departments of Medicine and Microbiology
* Director of Research Laboratory, Division of Allergy, Immunology and
* Rheumatology, Department of Medicine
* Associate Member, Witebsky Center for Immunology
* Lecturer, Core Lecture Series, Division of Allergy, Immunology and
* Rheumatology, Department of Medicine

**Research Mentor for the following Students:**

1. Mary Chiu, University of Michigan Interflex Student, University of Michigan
2. Susan Moore, Predoctoral Graduate Student, Cellular and Molecular Biology, University of Michigan
3. Mary Riedy, Graduate Student, Department of Epidemiology, University of Michigan
4. Marjan Vaghayenega, Undergraduate in Chemistry, University of Michigan
5. Danae Bixler, M.D., Postdoctoral Fellow, Hematology/Oncology, Internal Medicine, University of Michigan
6. Michael Simon, M.D., Postdoctoral Fellow, Hematology/Oncology, Internal Medicine, University of Michigan
7. David Rosenthal, Undergraduate, Pre-Medicine, University of Michigan
8. Hassan Taki, M.D., H.O. III, Department of Pediatrics, Hurley Medical Center, Flint, Michigan
9. Vina Patel, M.D., H.O. II, Department of Pediatrics, Hurley Medical Center, Flint, Michigan
10. Suresh Anne, M.D., H.O. II, Department of Pediatrics, Hurley Medical Center, Flint, Michigan
11. Aruna Kumar, 3rd year Interflex Student, University of Michigan
12. Kenneth Toft, Undergraduate Student, University of Michigan
13. John Tonkin, 3rd Year Medical Student, University of Michigan
14. Myles Spar, 2nd Year Medical Student, University of Michigan
15. Kameshwari Konduri, House Officer, Wayne State University, Detroit, Michigan
16. Keith Agisim, Honors Research Program, University of Michigan, Michigan
17. Chris Vallorosi, Undergraduate Medicine, University of Michigan
18. John Seavite, Undergraduate Program, University of Michigan
19. David Yue, Undergraduate Program, University of Michigan
20. Mark Schwartz, Second Year Medical Student, University of Michigan
21. Paul Kim, Undergraduate Program, University of Michigan
22. Ati Yates, Third Year Medical Student, Michigan State University, East Lansing
23. Sonia Thimotheose, Undergraduate Program, University of Michigan
24. Neal Waechter, Third Year Medical Student, University of Michigan
25. Suresh Anne, M.D., Fellow, Allergy & Immunology, Department of Medicine, SUNY at Buffalo,**1992**
26. Ravinder Agarwal M.D., Fellow, Allergy & Immunology, Department of Medicine, SUNY at Buffalo, **1993**
27. Mutee Abdeljabber, M.D., Fellow, Allergy & Immunology, Department of Medicine, SUNY at Buffalo, **1994**
28. Manishaw, H.O., Department of Medicine, Buffalo General Hospital, SUNY at Buffalo
29. Tang, X., M.D., WHO Trainee from Republic of China, **1993**-**1994**
30. Monaco, G., M.D., Ph.D., Research Trainee from University of Naples, Italy, **1992**-**1994**
31. Daniel Abbey, M.S., Student from Roswell /SUNY at Buffal, **1994**-**1995**
32. Ravi Polanasi, M.D., Fellow, Allergy & Immunology, Department of Medicine, SUNY at Buffalo, **1996**
33. Walter Ryan, M.D., Fellow, Allergy & Immunology, Department of Medicine, SUNY at Buffalo, **1997**-**1998**
34. Priya Chadha B.S., Student, SUNY at Buffalo, NY, **1998**-**1999**(summer sessions)
35. Santhosh Pillai, High school senior, Warren, Michigan
36. Ming Lee, Ph.D., Associate Professor, (for training in advanced immunology techniques), Taipai, Taiwan
37. Logan Quinisha Kayon, Undergraduate (Minority Program), New Orleans, LA
38. Anupriya Sharma, MS, Student, University of Connecticut, **2002**
39. Lawrence Niti, Undergraduate, Mc**Nair** Programs for Minority Students, SUNY at Buffalo, **2002**
40. Kathrina Washington, Undergraduate Student from Florida, Minority Training Program of Children’s Hospital, University at Buffalo, **2002**
41. Maggie Echavarria, Roswell Park Cancer Institute, High School Program, **2002**
42. Harikrishnan **Nair**, High School Student, Dr. Elliott Middleton, Jr. Research Fellow, **2002**
43. Raji **Nair**, Post Doctoral Research Fellow, SUNY at Buffalo, **2001**-**2002**
44. Bindukumar B. Doctoral Research Fellow, SUNY at Buffalo, **2002**
45. Norman McCulloch, First year medical student. Mc**Nair** Programs for Minority Students, University at Buffalo, **2003**
46. Christine Murekeyisoni. First year Undergraduate, Florida. Recruited through Mc**Nair** Programs for Minority Students, University at Buffalo, **2003**
47. Karintha Holifield, High school student. Participating Minority Training Program of Children’s Hospital, University at Buffalo, **2003**
48. Yin –Shear-Lio, Summer training, Undergraduate from Wash, **2003**
49. Mai Jua Xiong, University of Wisconsin-Milwaukee, NHLBI- Summer Program at UB, **2004**
50. Stephanie Antoine, New York University, NHLBI- Summer Program, University at Buffalo, **2004**
51. Aarti Gupta, University of Buffalo School of Medicine and Biomedical Sciences, NIH Summer research Candidate to University of Buffalo School of Medicine, **2004**
52. Jessica Reynolds PhD, Post Doctoral Fellow, Allergy, Immunology and Rheumatology, Dept of Medicine, SUNY at Buffalo, **2004**
53. Stephanie Andrus, First year Medical student, University of Buffalo School of Medicine and Biomedical Sciences, NIH Summer research Candidate to University of Buffalo School of Medicine, **2005**
54. Nathan Kumar, High School Student, Nazareth High School, PA, **2005**
55. Tolu Dada BS, Florida International University, **2007**-**2008**
56. K.V.K Rao PhD, visiting Professor, Tata Cancer Research Institute(ACTREC), **2007**-**2009**, **2012**- Present
57. Dakshayani Babu, PhD, Post doc , Andhra University, **2007**-**2009**
58. Samikkannu Thangavel, PhD, Post doc, University of Madras (India), **2007**-present
59. Zainulabedin Saiyed PhD, Post doc from Kemin Nutritional Technologies (India), **2007**-present
60. Nimisha Gandhi, MS, Trainee from Reddy’s Lab, Hyderabad, (India), **2008**-present
61. Marisela Agudelo, PhD, Post doc, University of South Florida, **2009**-present
62. Vijaya Pichili, PhD, Post doc, University of Hyderabad (India), **2009**-present
63. Jessica Napuri, Undergraduate Student, Florida International University, **2009**-present
64. Sofia Reyes-Hadsall, Terra Florida International University Intern, **2010**
65. Donald Nwankwo, PhD, Assistant Professor, **2010**-**2011**
66. Pradnya Khatavkar, MS, Research Coordinator.
67. Adriana Yndart Arias, BS, Research Assistant & Lab Manager, **2010** - Present
68. Sudheesh Pilakka Kanthikeel, PhD, Post Graduate Institute of Medical Education and Research, India, **2011**- Present
69. Venkata Subba Rao Atluri, PhD, Post Doctoral Research Fellow, Post Graduate Institute of Medical Education and Research, India, **2011**- Present
70. Marisol Urdaneta Morrison, Undergraduate student, Florida International University, **2011**-present
71. Elena Santiago, Research assistant. **2011**- Present
72. Vidya Sagar, post-doc, **2012**- Present
73. Rahul Dev Jayant, post doc, **2013**- Present
74. Ajeet Kaushik, post doc , **2013**- Present
75. Sneham Tiwari,Graduate student **2014**-present

**Departmental Services**:

**Founding Chair**, Immunology, HW College of Medicine, Florida International University

Coordinator, Research Seminar Series/Prostate Cancer Research, Division of Allergy, Immunology and Rheumatology

**Courses Taught and Other Teaching Activities:**

Immunology Core Lecturer, Division of Allergy, Immunology and Rheumatology

Coordinator, Lecture Series for Williamsville School on “Drugs and Food”

Lecturer, Research Seminar Series, Division of Allergy, Immunology and Rheumatology

**Mentor for McNair and other Programs for Minority Students, University at Buffalo,**

Lawrence Niti, Undergraduate, Mc**Nair** Programs for Minority Students, University at Buffalo, **2002**

Kathrina Washington, Undergraduate, Mc**Nair** Programs for Minority Students from Florida, Children’s Hospital of Buffalo, University at Buffalo, **2002**

Norman McCulloch, First Year medical student, Mc**Nair** Programs for Minority students, SUNY, Buffalo **2002**-present

Bibiana Cletus, Hutch-Tech HS, Buffalo, NY July–August **2005**

Eletha Thompson, Hutch-Tech HS, Buffalo, NY July–August **2005**

Kyle Blackman, Hutch-Tech HS, Buffalo, NY July–August **2005**

**Patents**

(1) **Nair, M.P.N.**, Saiyed ZM. Magnetic Nanodelivery of Therapeutic Agents across the Blood Brain Barrier. **2009**; PCT/US**2009**/055295 (Global)

(2) **Nair, M.P.N.**, Saiyed ZM, Gandhi NH. Plant-Derived Formulations for Treatment of HIV. Provisional Application Filed **2010**; (29171/45382)

(3) **Nair, M.P.N.**, Saiyed ZM, Kumar N. Cells and Uses Thereof. Provisional Application Filed **2010**; (29171/45404)

(4) Nair N, **Nair, M.P.N.**, Pilakka Kanthikeel S. Nanosilicone particles: **Implications** in breast implants and other silicone based devises. Provisional Application Filed **2012**

(5) Rahul Dev Jayant and **Nair M.P.N** Sustained Release of Antivirals for Treatment and Prevention of HIV-AIDS (filed **2015**)

(6) Sakhrat Khizroev, **Nair M.P.N.**, Ping Laing, Carolyn Runowicz, Rakesh Guduru. On – demand drug release using magneto – electric nanoparticles. 2015; PCT/US **2013**/068698.

**Local Community and International works representing UB and FIU**

1. I have been actively representing UB in the local community by arranging seminars in schools and in the international arena by coordinating UB-sponsored international scientific and pharmaceutical business meetings.
2. Arranged a series of Seminars in **1994** at Williamsville School District entitled “Battle Against Drugs” for school children.

Position: Coordinator

1. UB-Sponsored “International Symposium on Recent Advances in Molecular Biology. Allergy and Immunology” held at M.S.University, Vadodara 3rd-5th September **2001**. Financed by Sun Pharma, Vadodara, India.

Position: Coordinator and Chairman. Proceedings have been published.

1. UB-Sponsored “IInd International Symposium on Molecular Medicine” held at M.S. University, Vadodara 20th – 23rd January **2002**. Financed by Sun Pharma, Vadodara, India.

Position: Coordinator and Chairman. Proceedings have been published.

1. UB-Sponsored IIIrd International Symposium on Molecular Medicine held at M.S.University, Vadodara 26th – 27th December **2003**.

Financed by Comed Biotech Co, Vadodara.India.

Position: Coordinator and Chairman. Proceedings have been published.

1. UB-Sponsored first Global Bio-Pharmaceutical Group (GBPCG) meeting at Mumbai, India, Taj Lands End Hotel, September 14-17, **2004** on “Emerging Issues, Challenges and Opportunities in the New Millennium for Biologicals, Pharmaceuticals, Clinical and Diagnostics”.

Financed by GBPCG (Non-Profit Organization consisting of Academicians, Scientists and Business Executives). (pl see the web; www.gbpcg.com,)

Position: Coordinator and Chairman.

Plenary Session Keynote speaker: Dr Bruce Holm (Senior Vice Provost, SUNY)

1. UB and International American University sponsored Meeting at St Lucia on “HIV infection and Drug Use” June 25th St Lucia, West Indies.

Position: Coordinator and Chairman.

1. UB and FIU Sponsored Second Global Bio-Pharmaceutical Group (GBPCG) meeting at Hyderabad, India, November 9-12, **2006** on “East-West Synergy and Regulatory Interphase in Pharmaceutical, CMC, Product Development & Manufacturing, Biogenerics and Clinical Trials Executive Business Forum”.

Financed by GBPCG (Non Profit Organization consisting of Academicians, Scientists and Business Executives).

Position: Coordinator and Chairman.

1. UB, FIU and St: Lucia Medical College sponsored Symposium on Molecular Medicine, HIV-1 and Other Infectious Diseases. Kovalam Beach, Trivandrum, India, November 6-7, **2006**.

Position: Coordinator and Chairman.

**Recent Scientific Meetings/Symposia/Sessions Chaired:**

International Immunology Meeting, Delhi, India, **1998**

International Apoptosis Meeting, Chandigragh, India, **1998**

International Meeting on” “Proteomic and Genomic and Infectious Disease” **2001**, Baroda, India

International Symposium on Recent Advances in Molecular Biology, Allergy and Immunology, Baroda, India

College for Prevention of Drug Dependency Symposium (CPDD), Scottsdale, AZ, 63rd Annual Meeting, **2001**

College for Prevention of Drug Dependency Symposium (CPDD), Quebec City, 64th Annual Meeting, **2002**

College for Prevention of Drug Dependency Symposium (CPDD) Bal Harbor, Miami

65th Annual Meeting, **2003** (Symposium on Neuro-AIDS: Role of recreational drugs)

Annual Conference on Society on NeuroImmune Pharmacology (SNIP), Santa Fe, NM, March 24-28, **2004** (Symposium on Chemokines, Chemokines receptors and HIV”)

College for Prevention of Drug Dependency Symposium (CPDD), 68th meeting, Scottsdale princess, Scottsdale, Arizona, June 17-22, **2006** (Symposium co-chair/speaker)

College for Prevention of Drug Dependency Symposium CPDD 73rd Annual Meeting •, June 18-23, **2011** Hollywood, Florida.

4th Annual Nanoscience Technology Symposium, Nanoflorida - **2011**, Florida International University, Miami, September 30th **2011**. (Symposium Session Chair)

Symposium on Drugs of Abuse – HIV Infection and NeuroAIDS: A Global Perspective, during the 3rd World Congress on Biotechnology Hyderabad, India, 13–15 September **2012**

**Symposium Panelist /Speaker** (**Since** **1997**)

5th Annual Symposium on Drugs of Abuse, Immunomodulation and AIDS, Nashville, TN,

**1997**

American College of Nutrition, Washington, DC, **1998**

International Meeting on AIDS and Infectious Disease, Nepal, India, **2000**

Recent Advances in Allergy and Infectious Diseases, Manipal, India, **2000**

Symposium on Challenges in Allergy and Infectious Diseases, Delhi University, **2000**

Neuroimmune Circuits, Drugs of Abuse and Infectious Disease Symposium, Atlanta, GA, **2001**

Neuroimmune Circuits and Infectious Disease Symposium, Atlanta, GA, **2001**

63rd Annual Meeting of CPDD, Scottsdale, AZ, **2001**

9th Annual Conference on Society on NeuroImmune Pharmacology (SNIP), Clearwater Beach, Florida, Oct. 2-6, **2002**

College for Prevention of Drug Dependency Symposium (CPDD) Bal Harbor, Miami

65th Annual Meeting, **2003**

NIH sponsored “Molecular Markers and Mechanisms of HIV-induced Nervous System Disease” Conference. Washington DC, June, **2004**

International Neurovirology Conference, Sardinia, Italy, September, **2004**

College for Prevention of Drug Dependency Symposium (CPDD) Bal Harbor, Miami

66th Annual Meeting, Symposium on “Drugs of abuse and HIV expression”, Puerto Rico June, **2004**

Annual Conference on Society on NeuroImmune Pharmacology (SNIP), Clearwater Beach, Florida April 6-10, **2005**

College for Prevention of Drug Dependency Symposium (CPDD) Orlando, Florida

67th Annual Meeting, **2005**, June 18-23, **2005**

International American University/SUNY (Buffalo) Sponsored “HIV AIDS and Recreational Drugs” Symposium, June, 25, **2005**

American Association of Pharmaceutical Scientists (AAPS), Drug Metabolism Focus group: NIDA sponsored, Nashville, TN November 4-5, **2005**

Indian Association of Cancer Research, Silver Jubilee Symposium, February 15-18, **2006**, Invited Speaker

Temple University, PA: Drugs of Abuse and HIV -1 infection; December 11, **2007**

University of Caribe, Puerto Rico: Molecular studies on the role of Methamphetamine in HIV-1 Disease, January, **2007**

Society of Neuroimmune pharmacology annual meeting **2008**, Invited Speaker

International Society of NeuroImmunology, **2009**, Invited Speaker

NIH Symposium: Mother to Child transmission of HIV and Drugs of Abuse. October 26-27, **2009**, Invited Speaker

Society of NeuroImmune pharmacology annual meeting **2010**, Invited Speaker

International Conference on Opportunistic Pathogens Meeting, India, **2010**, Invited Speaker

International Conference on Molecular Medicine Meeting, India, **2011**, Invited Speaker

Nano & regenerative medicine opportunities and challenges for Indian entrepreneurs”, Mumbai, India – **2011**. Invited Speaker

Society of NeuroImmune pharmacology annual meeting, Hawaii, **2012**, Invited Speaker

College for Prevention of Drug Dependency Symposium CPDD 74th Annual Meeting. June 9-14, **2012** [California](http://www.laquintaresort.com) – Invited Speaker

Drug Delivery Partnerships Conference. January 27-29, **2014**. Boca Raton, FL. – Invited Speaker

MDC-FIU STEM at Miami-Dade College. February 12, **2014**. Miami, FL. – Invited Speaker

2nd Cane Search event at the University of Miami. February 20, **2014**. Miami, FL. – Invited Speaker

INSPIRE (Interdisciplinary Seminar on PaIn research) at University of Miami. March 5, **2014.** Miami, FL. – Invited Speaker

SNIP (Society for Neuroimmune Pharmacology) 21st Annual symposium; Chair: session entitled “Therapeutic Challenges in HIV Infection and Drug Addiction” April 22-25, **2015** Miami

Chair: NIAAA sponsored Symposium: “Alcohol and Neuroimmune effects”; April 21, **2015, Hyatt** Miami.

**Active Grant Support:**

1. **Agency** NIH/NIDA

**Title** Multifunctional Nanocarrier to Eradicate HIV from latently infected CNS cells and Meth Addiction

**Grant Number** 1R01DA037838-01

**P.I.** **Madhavan** P.N.**Nair**

**Project Period** 4/1/14 – 3/31/19

1. **Agency** NIH/NIDA

**Title** Cocaine in the Neuropathogenesis of HIV Infection: Role of HDAC2

**Grant Number** 1R01DA034547-01

**P.I.** **Madhavan** P.N.**Nair**

**Project Period** 3/1/13 – 12/31/18

1. **Agency** NIH-NIMH

**Title** Mechanisms of Neuro-AIDS by HIV 1B and C Clades

**Grant Number** R01 MH085259

**P.I.** **Madhavan** P.N.**Nair**

**Project Period** 07/05/10-04/30/16

**Cost** $1,653,789

1. **Agency** NIH/ NIDA

**Title** Role of Cocaine in Neuro-AIDS by HIV-1B and C Clades

**NIH Merit Award**

**Grant Number** R0137DA025576

**P.I.** **Madhavan** P.N.**Nair**

**Project Period** 09/15/08-9/15/16

**Cost** $1,670,402

1. **Agency** NIH/ NIDA

**Title** Polydrug Nanocarrier to Treat Opiate Addiction and HIV Disease

**Grant Number** 1R01DA027049

**P.I.** **Madhavan** P.N. **Nair**

**Project Period** 08/01/2009-05/31/2016

**Cost** $2,984,784

1. **Agency** NIH/ NIDA

**Title** Polydrug Nanocarrier to Treat Opiate Addiction and HIV Disease

**Grant Number** 3R01DA027049-04S1 **(supplement)**

**P.I.** **Madhavan** P.N. **Nair**

**Project Period** 08/01/2009-05/31/2016

**Cost** $179,800

1. **Agency: NIH**

**Title:** Novel Magneto Nanodelivery of Drugs to Eradicate HIV from

CNS

**Grant Number** 1R21MH101025-01

**PI:** **Madhavan** P.N. **Nair**

**Project Period:** 4/22/13 - 03/31/16

1. **Agency**: **NIH/NIDA**: Nano-delivery of methanandamide across BBB to

block cannabinoid induced effects in HIV-1 infection.

**Grant Number** 1R01DA040537-01

**P.I:**  **Madhavan P.N Nair**

**Project Period:** 06/01/2015 -05/31/2020( at first submission, a Percentile score of 24 was received and funding decision pending ) ($2,929,011.00)

**Previous Grant Support:**

1. **Agency** NIH/NIDA

**Title**  Immunopathogenesis of HIV-1 Infection: Role of Methamphetamine

**Grant Number** 5R01DA021537

**P.I.** **Madhavan** P.N.**Nair**

**Project Period** 9/1/06 - 08/31/14

1. **Agency** NIH/ NIDA

**Title** Immunopathogenesis of HIV-1 Infection: Role of Methamphetamine

**Grant Number** 5R01DA021537

**P.I.** **Madhavan** P.N. **Nair**

**Period** 6/01/06-8/31/11

**Costs**  $ 1,899,640

1. **Agency** NIH

**Title** Platelets Mediating Alcohol and HIV Damage

**Grant Number** 5RO1AA018095-2

**P.I.** Maria Miguez Perez

**Co. P.I.** **Madhavan** P.N. **Nair**

**Period** 08/10/2009-05/31/2012

1. **Agency** NIH

**Title** Intervening with HIV+ alcohol abusers: Influence of Neuro-Behavioral factors

**Grant Number** 5RO1AA017405-04

**P.I.** Robert Malow

**Co. P.I.** **Madhavan** P.N. **Nair**

**Period** 09/30/2007-06/30/2012

1. **Agency** NIH/ NIDA

**Title** Cocaine in the Immuno-and Neuropathogenesis of HIV Infections

**Grant Number** 5R01DA012366-11

**P.I.** **Madhavan** P.N. **Nair**

**Period** 7/01/04-6/30/09

**Costs** $1,948,250.00

1. **Agency** NIH/ NIDA

**Title**: Cocaine in the Immuno-and Neuropathogenesis of HIV Infections

**Grant Number** 5R01DA012366-11 (Supplement)

**P.I.** **Madhavan** P.N. **Nair**

**Period** 7/01/05-6/30/09

**Costs** $317,000.00

NIH/ NIDA Post-Doctoral stipends for Jessica Reynolds (Mentor Dr. Nair)

$41,796/year for 2 years 2008

1. **Agency:** NIH/ NIDA RO1 115628-01

**Title:** AIDS Encephalopathy and Non Progressive HIV Disease: Role of Opioids

**P.I.** **Madhavan** P.N. **Nair**

**Period:** 8/1/02- 7/31/09

**Costs (TDC):** $1,764,000.00

1. **Agency:** NIH/NIDA RO1 NS14218-01

**Title:** Heroin and AIDS Encephalopathy

**P.I.** **Madhavan** P.N. **Nair**

**Period:** 4/1/01- 3/31/09

**Costs (TDC):** $1,732,500.00

1. **Agency:** The Kaleida Health Foundation Margaret Duffy & Robert Cameron Troup Memorial Fund

**Title:** Development of a Center for excellence in Tumor Immunology: Regulation of Angiogenesis in Prostate Cancer.

**P.I.** Stanley A.Schwartz

**Co-P.I.** **Madhavan** P.N. **Nair**

**Period:** 01/01/01-12/31/06

**Costs (TDC):** $469,705.00

1. **Agency:** National Institute of Health/NIDA

**Title:** Cocaine Associated Encephalopathy in AIDS

**P.I.** **Madhavan** P.N. **Nair**

**Period:** 4/1/97- 3/31/99

**Costs (TDC):** $150,388.00

1. **Agency:** National Institute of Health/NIDA

**Title:** Molecular Mechanisms of Opioids as Co-factors in AIDS

**P.I.** Stanley A.Schwartz

**Co-P.I. Madhavan** P.N. **Nair**

**Period:** 4/1/98-3/31-04

**Costs (TDC):** $173,1410.00

1. **Agency:** The Kaleida Health Foundation Margaret Duffy & Robert Cameron Troup Memorial Fund

**Title:** Inhibition of Prostate Cancer Specific Stem cell antigen (PSCA) with Specific Antisense Nucleotides

**P.I.** **Madhavan** P.N. **Nair**

**Period:** 01/01/02-12/31/02

**Costs (TDC):** $48,140.00

1. **Agency:** National Institute of Health/NIMH

**Title:** Perinatal HIV Infections: Prevention of CNS Pathology

**P.I.** Stanley A.Schwartz

**Co-P.I. Madhavan** P.N. **Nair**

**Period:** 8/1/1990-7/31/00

**Costs (TDC):** $ 169,603.00

1. **Agency:** National Institute of Health/NIDA

**Title:** Cocaine Associated Encephalopathy in AIDS

**P.I.** **Madhavan** P.N. **Nair**

**Period:** 4/1/97-3/31/99

**Costs (TDC):** $150,388.00

1. **Agency:** The Kaleida Health Foundation Margaret Duffy & Robert Cameron Troup Memorial Fund

**Title:** Detection of Early Rejection Markers in Human Allograft Transplantation

**P.I.** **Madhavan** P.N. **Nair**

**Period:** 1/l/97-12/3l/98

**Costs (TDC):** $30,000.00

1. **Agency:** SUNY at Buffalo, Office of Vice President for Research

**Title:** Evaluation of Immunologic Tolerance in Solid Organ Transplantation

**P.I.** Julian L. Ambrus, Jr.

**Co-P.I. Madhavan** P.N. **Nair**

**Period:** **1997**

**Costs (TDC):** $15,000.00

1. **Agency:** Buffalo General Hospital Margaret Duffy and Robert Cameron Troup Award

**Title:** Bioflavonoid and Oral cancer: Studies on Apoptosis

**P.I.** **Madhavan** P.N. **Nair**

**Period:** 7/l/96-12/3l/97

**Costs (TDC):** $28,000.00

1. **Agency:** SUNY at Buffalo, Office of Vice President for Research

**Title:** Studies on Pathogenesis and Immunity in Hanta Virus Infections

**P.I.** **Madhavan** P.N. **Nair**

**Period:** 5/1/95-10/30/97

**Costs (TDC):** $19,650

1. **Agency:** The Junior Board of the Buffalo General Hospital

**Title:** Early markers for Cellular Rejection, Role of In situ PCR Gene

**P.I.** **Madhavan** P.N. **Nair**

**Period:** July 1, **1997**

**Costs (TDC):** $8,100 (Dedicated funds for the purchase of PCR gene amplification system)

1. **Agency:** National Institutes of Health/NIAAA

**Title:** Alcoholism and the Aged: Central Nervous System Effects

**P.I.** John F. Greden

**Co-P.I. Madhavan** P.N. **Nair**

**Period:** 9/1/92-7/31/93

**Costs (TDC):** $38,177.00

1. **Agency:** American Diabetes Association - Michigan Affiliate (ADA-M)

**Title:** Lymphokine Activated Killer Cells in Type I Diabetes

**P.I.** **Madhavan** P.N. **Nair**

**Period:** 1/1/88-12/31/89

**Costs (TDC):** $ 24,905.00

1. **Agency:** National Institutes of Health

**Title:** Suppressor Cells in Cancer and Immunodeficiencies

**P.I.** Stanley A Schwartz

**Co-P.I.** **Madhavan** P.N. **Nair**

**Period:** 8/1/88-7/31/91

**Costs (TDC):** $ 310,612.00

1. **Agency:** Hoffman LaRoche, Inc.

**Title:** Cellular Cytotoxic Response to Virulent and Attenuated Influenza Type A Infections in Ferrets

**P.I.** **Madhavan** P.N. **Nair**

**Period:** 11/1/88-10/31/91

**Costs (TDC):** $ 36,840.00

1. **Agency:** National Institutes of Health/NIMH

**Title:** Cellular Immunity in Depressive Illness

**P.I.** Ziad A. Kronfol

**Co-P.I. Madhavan** P.N. **Nair**

**Period:** 8/1/87-7/30/90

**Costs (TDC):** $274,183.00

1. **Agency:** Biomedical Research Support Grant

University of Michigan

**Title:** Cellular Cytotoxic Responses to Virulent and Attenuated Influenza Type A Infection in Ferrets

**P.I.** **Madhavan** P.N. **Nair**

**Period:** 5/1/87-12/30/88

**Costs (TDC):** $ 8,800.00

1. **Agency:** University of Michigan Cancer Research Institute

**Title:** Immunoregulation of Natural Killer Cells in Down's Syndrome

**P.I.** **Madhavan** P.N. **Nair**

**Period:** 11/1/85-10/31/86

**Costs (TDC):** $ 4,985.00

1. **Agency:** Children's Leukemia Foundation of Michigan

**Title:** Role of Natural and Antibody Dependent Cellular Cytotoxicity in Preleukemia and Leukemia

**P.I.** **Madhavan** P.N. **Nair**

**Period:** 5/84-4/86

**Costs (TDC):** $ 30,000.00

1. **Agency:** University of Michigan Faculty Research Grant

**Title:** Evaluation of Natural Immune Responses in an Area of High Background Radiation in Coastal Kerala, India

**P.I.** **Madhavan** P.N. **Nair**

**Period:** 11/1/85-10/31/86

**Costs (TDC):** $3,154.00

1. **Agency:** Michigan Diabetes Research Training Center (MDRTC)

University of Michigan

**Title:** Role of Cellular Cytotoxicity in Prediabetes and Diabetes

**P.I.** **Madhavan** P.N. **Nair**

**Period:** 9/83-8/85

**Costs (TDC):** $ 27,892.00

1. **Agency:** National Institutes of Health/NIMH

**Title:** INAPEN Repository and Laboratory Project

**P.I.** David Ostrow

**Co-P.I. Madhavan** P.N. **Nair**

**Period:** 1/1/88-9/30-90

**Costs (TDC):** $26,960.00

**PUBLICATIONS:**

**Chapters in Books:**

1. Schwartz, S.A. and **Nair, M.P.N.** Characterization of soluble suppressor factors produced by unstimulated normal human lymphocytes. In "Mechanisms of Cytotoxicity by NK Cells", Herberman, R.B. (ed.). Academic Press, p. 453-464, **1985**.
2. **Nair, M.P.N.:** Cyclic Neutropenia, In "Birth Defects Encyclopedia", Buyse, M.L. (ed.). Blackwell scientific publications. Cambridge, MA **1990**.
3. Schwartz, S.A. and **Nair, M.P.N.**: Role of histamine in the immunoregulation of cellular cytotoxicity. In "Histamine Type II Antagonists in Immunodeficient States", Rocklin, R.E. (ed.). Marcel Dekker, Inc., New York, pp. 65-79, **1990**.
4. **Nair, M.P.N.** and Schwartz, S.A.: Immunopathogenesis of HIV infections. CNS-immune interactions. In "Neuropsychologyf HIV infection: Grant, I. and Martin, A. (Eds) Oxford University Press, pp 41-55, **1994**.
5. **Nair.M.P.N**, Schwartz, S.A and Z.A Kronfol. Alcohol, Aging, infections and Immunity. In “Alcohol and aging” T.Beresford and E.Gomberg (Eds) Oxford University Press, PP 128-135, **1995**.
6. Schwartz, S.A., **Nair, M.P.N.** and Ludwig, L.B.: Biological activities of HIV-specific peptides. In “Immunology of HIV Infection”, S.Gupta (Eds). Plenum Publishers, New York, pp.161-179, **1996**.
7. **Nair, M.P.N.** and Schwartz S.A: Immunopathogenesis of HIV infection. Role of alcohol and HIV peptides. In” AIDS, Drugs of Abuse and the Neuroimmune Axis”. H.Friedman (Eds) Plenum Publishers, New York, **1996**.
8. Kumar, N., Rabadi, M., Dong, L., **Nair, M.P.N.,** Schwartz, S.A and Lwebuga-Mukasa, J.S.: HIV-1 derived peptides regulate proliferative response of A549 cells, a human lung carcinoma cell line. In “Proceeding, XV1 International Cancer Congress (Eds) Rao, R.S, Deo, M.G and Sanghvi, L.D, India.**1998**.
9. Kronfol, Z., **Nair, M.P.N.**: Psychoneuroimmunology-Basic Principles in “Textbook of Biological Psychiatry”, H.D.’Haenan, J.A. Den Boer, H. Westenberg, P. Miller (Eds), **2002**
10. Saxena SK, Tiwari S, Saxena R, Mathur A & **Nair, M.P.N.** (**2011**) Japanese Encephalitis: an Emerging and Spreading Arbovirosis: In Encephalitis (Book), ISBN 979-953-307-775-7
11. **Nair, M.P.N.** and Saiyed ZM. Nanomedicine and HIV- associated neurocognitive disorder (HAND). The Neurology of AIDS. 3rd Edition. Eds. Gendeleman H, Everall IP Fox H, Gelbard H, Gant I, Lipton S, Swindells S. Oxford University Press, NY. **2012** ISBN 978-0-19-539934-9.
12. **Nair, M.P.N.**, Saiyed ZM. Antiretroviral Nanotherapies. In “The Neurology of AIDS”. Eds. Gendelman HE, Everall IP, Fox H, Gelbard H, Grant I, Lipton S, Swindells S. 3rd Edition Oxford University Press Inc. page 999-1004, **2012.**
13. Saxena S.K.†, Tiwari S, & **Nair, M.P.N.** NeuroAIDS: Mechanisms, Causes, Prevalence, Diagnostics and Social Issues (DOI: 10.5772/55100). In Current Perspectives in HIV Infection (Book), (Ed.), ISBN 978-953-51-1057-6, InTech, Croatia (European Union), 109-124. **2013.**
14. Rao KVK, Shailendra K. Saxena1, Sneham Tiwari1, Rakhi Saxena1, Asha Mathur2, **Nair, M.P.N.** Japanese Encephalitis Virus: The Complex Biology of an Emerging Pathogen, ISBN 978-953-51-0925-9, Published: January 9, 2013.

**BOOKS EDITED:**

1. Immunology of HIV Infection (Eds) **Nair, M.P.N.** & Schwartz SA Research Sign post Publications, **2003**
2. Proceedings of the First International Symposium on Molecular Medicine, Allergy and Immunology. Allied Publications (P) Ltd **2003** (Ed) B Pilo, **Nair, M.P.N.**,MS Patel and CN Ramchand, p 167-172, **2003**.
3. Proceedings of the Second International Symposium on Molecular Medicine, Allergy and Immunology. Allied Publications (P) Ltd **2005**. (Ed) Bonny Pilo, **Nair, M.P.N.**, Mulchand Patel, CN Ramchand.

**PEER REVIEWED PUBLICATIONS:**

**URL of published work**

<http://www.ncbi.nlm.nih.gov/sites/myncbi/madhavan.nair.1/bibliography/40806444/public/?sort=date&direction=ascending>

1. **Nair, M.P.N.** **(1968).** Tissue culture: A brief review. *Indian J. Med.* Tech, 1:8-13.
2. Gangal, S.G., Agashe, S.S., **Nair, M.P.N.,** Rao, R.S. and Ranadive, K.J. **(1973).** Response of lymphocytes from patients with oral cancer to autochthonous tumor antigen. *Indian J. Med. Res,* 63:416-421.

1. Gangal, S.G., Agashe, S.S., **Nair, M.P.N.** and Rao, R.S. **(1973).** Cellular immunity in human osteogenic sarcoma. *Indian J. Cancer,* 10:295-301.
2. Rao, R.S., Agashe, S.S., **Nair, M.P.N.** and Gangal, S.G. **(1975).** Cell mediated immunity in osteogenic sarcoma: Role of regional lymph nodes. *Indian J. Cancer,* 12:56-60.
3. Gangal, S.G., Agashe, S.S., **Nair, M.P.N.** and Rao, R.S**. (1975).** Oncofetal cross reactivity between human osteogenic sarcoma and fetal periosteal fibroblasts grown "in vitro". *Indian J. Med. Res,* 63:851-857.
4. Rao, R.S., Gangal, S.G., Agashe, S.S. and **Nair, M.P.N. (1975).** Electrocagulation as a method of immunotherapy. *Pan. Ame. Med,* 17:196-198.
5. Agashe, S.S., **Nair, M.P.N.**, Rao, R.S. and Gangal, S.G. **(1975).** Cell mediated immunity in human osteogenic sarcoma. *Indian J. Cancer,* 12:61-66.
6. **Nair, M.P.N.** and Gangal, S.G. **(1976).** Immunological studies in human oral cancer: Effect of inoculation of small doses of cauterized tumor antigen. *Indian J. Cancer,* 13:64-69.
7. **Nair, M.P.N.** and Gangal, S.G. **(1976).** Studies on histocompatibility antigens in an inbred mouse strain showing spontaneous mammary tumor and leukemia. *Indian J. Cancer*, 13:345-350.
8. **Nair, M.P.N.** and Gangal, S.G. **(1976).** Analysis of histocompatibility antigenic profile of mouse strain inbred and maintained at Cancer Research Institute, Bombay. *Indian J. Cancer,* 13:341-344.
9. Agashe, S.S., Gangal, S.G., **Nair, M.P.N.** and Rao, R.S. **(1976).** The reactivity of regional lymph node cells in human osteogenic sarcoma. *Indian J. Med. Res,* 64:1657-1663.
10. Agashe, S.S., Gangal, S.G., **Nair, M.P.N.** and Rao, R.S. **(1977).** Blocking of oncofoetal cross reactivity in human osteogenic sarcoma with solubilized tumor antigen. *Indian J. Med. Res,* 65:357.
11. **Nair, M.P.N.**, Gangal, S.G., Gothoskar, B.P. and Rao, R.S. **(1978).** Labeled antigen binding by lymphocytes and lymphocyte transformation in response to tumor associated antigen. *Indian J. Cancer*, 15:58-63.
12. Gupta, S., Fernandes, G., **Nair, M.P.N.** and Good, R.A. **(1978).** Subpopulations of human T lymphocytes. IX. Spontaneous and antibody-dependent cell-mediated cytotoxicity by T cell subpopulations. *Proc. Natl. Acad. Sci*, 75:5137-5141.
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14. Fernandes, G., Garrett, T., **Nair, M.P.N.,** Clarkson, B., Good, R.A. and Gupta, S. **(1979).** Antibody-dependent cell-mediated cytotoxicity in leukemia blasts from patients with acute non-lymphoid leukemia. *Blood,* 54:573-580.
15. **Nair, M.P.N.,** Gangal, S.G. and Rao, R.S. **(1979).** Studies on immunotherapy in oral cancer patients with BCG and tumor antigens. *Indian J. Med. Res,* 70:252-262.
16. **Nair, M.P.N.** and Schwartz, S.A. **(1980).** Modulation of natural killer cell (NK) activity and antibody dependent cellular cytotoxicity (ADCC) by human lymphocytes precultured with concanavalin A (Con A). *Clin Res*, 28.
17. **Nair, M.P.N.**, Fernandes, G., Onoe, K., Day, N.K. and Good, R.A. **(1980).** Inhibition of effector cells functions in natural killer cell activity (NK) and antibody dependent cellular cytotoxicity (ADCC) in mice by normal and cancer sera. *Int. J. Cancer,* 25:667-678.
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19. **Nair, M.P.N.,** and Schwartz, S.A. **(1981).** Suppression of natural killer activity and antibody-dependent cellular cytotoxicity by cultured human lymphocytes. *J. Immunol,* 126:2221-2229.
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21. **Nair, M.P.N.** and Schwartz, S.A. **(1982).** Suppression of human natural and antibody-dependent cytotoxicity by soluble factors from unstimulated normal lymphocytes. *J. Immunol,* 129:2511-2518.
22. **Nair, M.P.N.** and Schwartz, S.A. **(1983).** Effect of histamine and histamine antagonists on natural and antibody dependent cellular cytotoxicity of human lymphocytes in vitro. *Cell. Immunol,* 81:45-60.
23. **Nair, M.P.N.** and Schwartz, S.A. **(1983).** Immunoregulation of natural and antibody dependent cellular cytotoxic effector cells in humans. *In "Symposium on immunodeficiency",* p. 25.
24. **Nair, M.P.N.** and Schwartz, S.A. **(1984).** Immunodulatory effects of corticosteroids on natural killer and antibody dependent cellular cytotoxic activities of human lymphocytes. *J. Immunol,* 132:2876-2882.
25. **Nair, M.P.N.** and Schwartz, S.A. **(1984).** Association of decreased T-cell mediated natural cytotoxicity and interferon production in Down's Syndrome. *Clin. Immunol. and Immunopathol,* 33:412-424.
26. Kurup, V.P., **Nair, M.P.N.**, Schwartz, S.A. and Fink, J.N. **(1985).** Serum antibodies and their role in antibody-dependent cell-mediated cytotoxicity in aspergillosis. *Immunobiol,* 169:362-371.
27. **Nair**, **M.P.N.**, Schwartz, S.A., Johnson, M.Z., Quebbeman, J.F. and Beer, A.E. **(1985).** Comparison of cellular cytotoxic activities of colostral lymphocytes and maternal peripheral blood lymphocytes. *J. Rep. Immunol, 7:199-213.*
28. **Nair**, **M.P.N.**, Schwartz, S.A. and Menon, M. **(1985).** Association of decreased cellular cytotoxicity and production of natural killer cytotoxic factor and interferon in neonates. *Cell. Immunol,* 94:159-171.
29. **Nair**, **M.P.N.**, Laing, T.J. and Schwartz, S.A. **(1986).** Decreased natural and antibody dependent cellular cytotoxic activities in intravenous drug abusers. *Clin. Immunol. and Immunopathol,* 38:68-78.
30. **Nair**, **M.P.N.**, Cilik, J. and Schwartz, S.A. **(1986).** Histamine-induced suppressor factor inhibition of NK cells. Reversal with interferon and interleukin-2. *J. Immunol,* 136:2456-2462.
31. **Nair**, **M.P.N.**, Lewis, E.W. and Schwartz, S.A. **(1986).** Immunoregulatory dysfunctions in type I diabetes. *J. Clin Immunol*, 6:363-372.
32. **Nair**, **M.P.N.**, Pottathil, R., Heimer, E.P. and Schwartz, S.A. **(1988).** Immunoregulatory activities of human immunodeficiency virus proteins. I. Effect of HIV recombinant and synthetic peptides on immunoglobulin synthesis and proliferative responses by normal lymphocytes. *Proc. Natl. Acad. Sci. U.S.A.,* 85:6498-6502.
33. **Nair**, **M.P.N.** and Schwartz, S.A. **(1988).** Immunoregulation of human natural killer cells by corticosteroids. Inhibitory effects of culture supernates. *J. Allergy Clin. Immunol,* 82:1089-1098.
34. Kronfol, Z.A., **Nair**, **M.P.N.**, Goodson, J., Goel, K. and Schwartz, S.A. **(1989).** Natural killer cell activity in depressive illness: preliminary report. *Biol. Psych,* 26:753-756.
35. Kronfol, Z.A., Goodson, J., Goel, K., **Nair, M.P.N.** and Grunhaus, L. **(1989).** Acute effects of ECT on natural killer cell activity. *Soc. Biol. Psych,* Abst. #184.
36. Kronfol, Z.A., **Nair, M.P.N.**, Haskett, R. and Schwartz, S.: Lymphokine activated killer cell activity in depressive illness. Soc. Biol. Psych. 25:3A, Abst #6.
37. Kronfol, Z.A., Young, E. and **Nair, M.P.N. (1989).** Stress and natural killer cell activity in adrenelectomized rats. *Soc. Biol. Psych,* Abst #182.
38. **Nair**, **M.P.N.**, Reidy, M.C. and Schwartz, S.A. **(1990).** Lymphocyte phenotype changes associated with IL2 activation of LAK cells. *Life Science Advances*, 9:11-19.
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40. **Nair**, **M.P.N.**, Schwartz, S.A., Kronfol, Z.A., Heimer, E.P., Pottathil, R. and Greden, J.F. **(1990).** Immunoregulatory effects of alcohol on lymphocyte responses to human immunodeficiency virus proteins. *Progress in Clinical and Biological Research,* 325:221-230.
41. Kumar A., **Nair, M.P.N.**, Schwartz, S.A., Heimer, E.P., and Pottathil, R. **(1990).** Immunoregulatory activities of envelope peptide (env 647-659) of the human immunodeficiency virus on normal lymphocytes. *Clin. Res,* 37:906A.
42. Taki, H.N., **Nair, M.P.N.**, and Schwartz, S.A. **(1990).** Immunoregulatory activities of human immunodeficiency virus (HIV) protein. Comparison of the effect of cord blood and adult lymphocytes. *Clin. Res., Midwestern Soc. Ped. Res. and National Meeting of the Am. Acad. of Pediatrics.*
43. **Nair**, **M.P.N.**, Schwartz, S.A., Kronfol, Z.A., Pottathil, R., Heimer, E.P. and Greden, J.F. **(1991).** Suppressive effect of alcohol on normal lymphocyte proliferative response to immunodeficiency virus (HIV) antigens. *In Psychiatry and Biological Factors, Kurstak, E. (ed.)* 269-273.
44. **Nair**, **M.P.N.** **(1991).** Alcohol and AIDS, *Science Matters,* 1:27.
45. Kronfol, Z.A., **Nair**, **M.P.N.**, Goel, K. and Schwartz, S.A. **(1991).** Lymphokine-activated killer cell activity in psychiatric illness. *In Psychiatry and Biological Factors. Krustak, E. (ed) plenum publishing corporation.*  NY. pp 217-221.
46. **Nair**, **M.P.N.**, Schwartz S.A, Kronfol Z.A, Saravolaz, L.A, Heimer, E.P., Pottathil, R. and Greden, J.F. **(1992).** Selective inhibition of natural Killer cell activity of Lymphocytes from AIDS Patients by Alcohol. Immunol and Infect. *Dis,* 2:229-232.
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50. **Nair**, **M.P.N.**, Sweet, A.M. and Schwartz, S.A. **(1993).** Immunoregulation of Tumor Necrosis Factor Production by HIV-1 gp 120 in Neonates and Adults. *Annals NY Acad Sci*, 693: 309-311.
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**ABSTRACTS:**

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