AIDS in India
A Regional Symposium-Workshop on Research, Trials and Treatment
July 31st to August 6th 2004

Program Book

Venue
Jawaharlal Nehru Centre for Advanced Scientific Research (JNCASR), Bangalore
National Institute for Mental Health and Neurosciences (NIMHANS), Bangalore
AIDS in India – A Regional Symposium-Workshop
Research, Trials and Treatment

July 31st to August 6th 2004

Venue
Jawaharlal Nehru Centre for Advanced Scientific Research (JNCASR), Bangalore
National Institute for Mental Health and Neurosciences (NIMHANS), Bangalore
7/31/04, Saturday
Registration and Laboratory workshop

Venue
Jawaharlal Nehru Centre for Advanced Scientific Research (JNCASR)

8:30 AM   Registration
9:00AM   Welcome
9:30AM   Tea
10:00AM   Laboratory Session 1
Drug susceptibility in HIV
(Instructor: Pheroze Joshi)

12:00 Noon   Laboratory Session 2
Elispot assay
(Instructor: Amara Rama Rao)

1:00 PM   Lunch
2:00PM   Laboratory Session 1b
Drug susceptibility (...continued)

2:30PM   Laboratory Session 2b
Elispot assay (...continued)

3:30PM   Tea
5:00PM   Laboratory Session 3
Detection of M. tuberculosis
(Instructor: Vanaja Kumar)

6:30PM   Dinner
7:15PM   Laboratory Session 4
Use of Reporter cell lines for HIV
(Instructor: Udaykumar Ranga)
8/1/04, Sunday

Registration and Laboratory workshop

A.M. Venue:
National Institute of Mental Health and Neurosciences

8:30AM-1:00PM Laboratory Session 5
Viral Load and CD4 measurements
(Instructor: V. Ravi)

P.M. Venue:
JNCASR

2:00PM Laboratory Session 2c
Elispot assay
(...continued)

3:00PM Laboratory Session 6
Use of retroviral vectors for gene therapy
(Instructor: Ganjam Kalpana)

4:00 PM Tea

5:30PM Laboratory Session 2d/Elispot assay (...continued)

7:00PM Dinner
8/02/04, Monday

Inauguration, Plenary and Symposium
Sessions I and II

Venue:
Jawaharlal Nehru Centre for Advanced Scientific Research (JNCASR)

Inauguration

8:30AM  Welcoming Remarks
         Udaykumar Ranga
         Assistant Professor, Jawaharlal Nehru Centre for Advanced Scientific Research, Jakkur, Bangalore

8:35AM  Introductory Remarks
         Vinayaka R. Prasad
         Program Director, AIDS International Training and Research Program, Albert Einstein College of Medicine, Bronx, NY, USA

8:40AM  Inaugural Address
         Dr. C. N. R. Rao
         Professor, Jawaharlal Nehru Centre for Advanced Scientific Research, Bangalore
9:10AM     Plenary Lecture
          Mark A. Wainberg
          McGill University AIDS Centre,
          Montreal, Canada
          “The Critical Need for HIV/AIDS
          Prevention Research in
          Developing Countries”

Symposium Session I
HIV/AIDS

Co-Chairs:  Dr. Ruth Macklin
            Dr. M. S. Shaila

09:40AM    Session Overview
            M. S. Shaila
            Department of Microbiology and
            Cell Biology, Indian Institute of
            Science, Bangalore

9:50AM     Ruth Macklin
            Albert Einstein College of Medicine,
            Bronx, New York, USA
            “Ethical Challenges in HIV/AIDS
            Prevention Research”

10:10AM    Tasnim Azim
            ICDDR, B, Center for Health and
            Population Research, Bangladesh
            “HIV epidemic in Bangladesh:
            Can it be averted?”
10:30AM Ganjam V. Kalpana  
*Albert Einstein College of Medicine, Bronx, New York, USA*  
“Role of a host factor in HIV-1 replication”

10:50AM Coffee Break

11:05AM Shahid Jameel  
*International Center for Genetic Engineering and Biotechnology, New Delhi*  
”Role of HIV-1 Nef protein in viral pathogenesis”

11:25AM Sundarasamy Mahalingam  
*Centre for DNA Fingerprinting and Diagnostics, Hyderabad*  
“Lentiviral accessory proteins: Lead roles for the supporting cast”

11:45AM Debasish Mitra  
*National Centre for Cell Science, Pune*  
“Mitochondrial dysfunction in HIV induced T cell apoptosis”

12:05PM Gopalan Sridharan  
*Christian Medical College, Vellore*  
“Certain aspects of the immunological profile of South Indian HIV infected individuals”
12:25PM  Robin Mukhopadhyaya  
*Cancer Research Institute, Mumbai*  
“A first-generation lentiviral vector system for gene delivery, derived from an Indian HIV-2 isolate: In vitro studies”

12:45PM  Ernest Drucker  
*Albert Einstein College of Medicine, Bronx, New York*  
“The Role of Unsterile Medical Procedures in the Origin of the AIDS Epidemic”

1:05PM – 1:45PM  Lunch break

**Symposium Session II**  
**Prevention, Vaccines and Antiretroviral Strategies**

Co-Chairs:  Suniti Solomon  
Gen. Raghunath

1:45PM  Session Overview  
Suniti Solomon  
*YRG Care, Chennai*

1:55PM  Plenary Lecture I  
Kenneth Mayer  
*Program Director, AITRP, Brown University, Rhode Island*  
“The Biology of HIV Transmission and Prevention: What we know and what we need to know”
2:25PM  Plenary Lecture II
Marty Markowitz
Aaron Diamond AIDS Research Center, New York, NY, USA
“Treating Primary HIV Infection: Lessons Learned and Future Goals”

2:55PM  Vinayaka Prasad
Albert Einstein College of Medicine, Bronx, NY, USA
“Can RNA-based drugs ever rise to the challenge of HIV/AIDS? RNA Interference vs. RNA Aptamers against HIV”

3:15PM  Vijay Mehra
International AIDS Vaccine Initiative, New York, NY, USA
“IAVI efforts in accelerating AIDS vaccine development”

3:35PM  Coffee Break

3:50PM  Ramesh Paranjpe
National AIDS Research Institute, Pune
“Cytolytic T Lymphocyte response in Subtype C infected Indian patients”
4:10PM  Shekhar Chakraborty  
*National Institute of Cholera and Enteric Diseases, Calcutta*
“Characterization of HIV strains circulating in Eastern and Northeastern India: Development of a Candidate Vaccine”

4:30PM  Ramarao Amara  
*Emory University, Atlanta, GA*
“DNA/MVA Vaccines for HIV/AIDS”

4:50PM  N. K. Mehra  
*All India Institute of Medical Sciences, New Delhi*
“Immunomodulatory genes and HIV Infection”

5:10PM  Laurie Baumann  
*Albert Einstein College of Medicine, Bronx, NY*
“Behavioral Approaches to HIV Prevention in Adolescents”

6:00PM  Departure to Banquet Site

7:00PM  Arrive at Cottage Industries Expo  
Cultural Program and Banquet
8/03/04, Tuesday

Symposium sessions III and IV

Venue:
National Institute of Mental Health and Neurosciences (NIMHANS)

8:30AM Welcome remarks
Dr. D. Nagaraja
Director, National Institute of Mental Health and Neurosciences, Bangalore

Symposium Session III

Opportunistic Infections of AIDS

Co-Chairs: Jaya S. Tyagi
William Jacobs, Jr.

8:45AM Session Overview
Dr. Jaya S. Tyagi,
All India Institute of Medical Sciences, New Delhi

8:50AM Plenary Lecture
William Jacobs, Jr.
Howard Hughes Medical Research Institute, Albert Einstein College of Medicine, Bronx, NY, USA
“The Primary Mechanism of Attenuation of BCG: Can we do better?”
9:20AM  S. Vijaya  
*Indian Institute of Science, Bangalore*  
“Can the human immune response guide the design of better TB vaccines?”

9:40AM  Jaya S. Tyagi  
*All India Institute of Medical Sciences, New Delhi*  
“Two-component signal transduction systems of *M. tuberculosis*”

10:00AM  Anil Tyagi  
*University of Delhi, South Campus, New Delhi*  
“*Mycobacterium tuberculosis* - Gene regulation, Pathogenesis and TB vaccine”

10:20AM  Coffee Break

10:50AM  Manikuntala Kundu  
*Bose Institute, Calcutta, India*  
“*Mycobacterium avium*-induced signaling in host macrophages”

11:10AM  Soumya Swaminathan  
*Tuberculosis Research Centre, Chennai*  
“Overview of tuberculosis in the HIV Era”
11:30AM Vanaja Kumar
*Tuberculosis Research Centre, Chennai*
“New mycobacteriophage constructs to improve the sensitivity of luciferase reporter phage assay for TB diagnosis in AIDS patients”

11:50AM Uma Banerjee
*All India Institute of Medical Sciences, New Delhi*
“Opportunistic Infections in HIV disease in India: How prepared are we?”

12:10-1:10PM Lunch Break

**Symposium Session IV**

**NeuroAIDS**

Co-Chairs: Dr. Jeymohan Joseph
Dr. P. Sathishchandra

1:10PM Session Overview
Jeymohan Joseph
*National Institute of Mental Health, National Institutes of Health, USA*

1:15PM Plenary Lecture
Igor Grant
*University of California, San Diego*
“Neurocognitive Assessment in HIV”
1:45PM  Richard Price  
*University of California, San Francisco, CA*
“AACTG5199: A Protocol for an International Study of the Impact of Antiretroviral therapy on Neurological Function in Resource Restricted Settings”

2:05PM  Bruce Brew  
*St. Vincents Hospital, Sydney, Australia*
“The Asia Pacific NeuroAIDS Consortium: Strengths and weaknesses”

2:25PM  Mahendra Kumar  
*University of Miami School of Medicine, Miami, FL USA*
“Neurocognition in HIV infection in South India: Preliminary Data”

2:45PM  Coffee Break

3:15PM  P. Satishchandra  
*National Institute of Mental Health and Neurosciences, Bangalore*
“Opportunistic infections in the nervous system secondary to retroviral infections”

3:35PM  S. K. Shankar  
*National Institute of Mental Health and Neurosciences, Bangalore*
“Spectrum of pathological lesions in HIV/AIDS in India”
3:55PM  Uday Kumar Ranga  
*Jawaharlal Nehru Centre for Advanced Scientific Research, Bangalore, India*  
“Does the low incidence of HIV-associated dementia in India correlate to the Tat protein of HIV-1?”

4:15PM  Avindra Nath  
*Johns Hopkins University, Baltimore, MD, USA*  
“Neuropathogenesis of HIV dementia”

4:35PM  Robert Paul  
*Brown University, Providence, RI, USA*  
“Neuroimaging markers of HIV-related cognitive symptoms in the context of ART”

5:00-6:30 PM  Madelon Halula, Mary Kirker, Priti Mehrotra & Paula Strickland  
*National Institute of Allergy and Infectious Diseases, NIH, USA*  
Grant-Writing Workshop: Session I

7:30PM  Dinner
8/04/04, Wednesday
Roundtable Group Discussions

Venue:
Jawaharlal Nehru Centre for Advanced Scientific Research (JNCASR)

8:30AM - 9:30AM Ethics in Clinical Trials and Scientific Research -1
R. Macklin, Albert Einstein College of Medicine, Bronx, NY, USA
A. Jesani, CEHAT, New Delhi

9:45AM - 10:00AM Tea Break

10:00AM – 11:00AM Antiretroviral Treatment Modalities - 1
M. Markowitz, Aaron Diamond AIDS Research Center, NY, USA
K. Satish, Wokhart Hospital, Bangalore

11:15AM – 12:15PM Fundamentals of Epidemiology and Statistics -1
Paul Marantz, Albert Einstein College of Medicine, Bronx, NY, USA

12:30PM – 1:30PM Lunch
1:30PM – 2:30PM Biology of HIV/AIDS Prevention
Kenneth Mayer, *Brown University, Rhode Island*

2:45PM – 3:15PM Coffee Break

3:15PM – 4:15PM Behavioral Methods of AIDS Prevention- I
Larie Bauman, Albert Einstein College of Medicine, Bronx, NY, USA
Sunil Mehra, MAMTA, New Delhi

4:30PM – 5:30PM HIV and Infectious Risks of Blood Transfusion-I
Robert Reiss, *New York Blood Center, New York, USA*
Latha Jagannathan, *Bangalore Medical Services Trust, Bangalore*
Vasanthapuram Ravi, *NIMHANS, Bangalore*
Nilkantrai Vaishnav, *Bhavnagar Blood Bank, Bhavnagar, Gujarat*

5:30PM Laboratory Session 7
Heteroduplex mobility shift assays
Udaykumar Ranga, *JNCASR, Bangalore*
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<tr>
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<tr>
<td>6:30PM</td>
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| 7:30PM-9:30PM| Laboratory Session 7  
Heteroduplex mobility  
shift assays  
Udaykumar Ranga, *JNCASR*,  
*Bangalore* |
### 8/05/04, Thursday

**Roundtable Group Discussions**

**Venue:**
Jawaharlal Nehru Centre for Advanced Scientific Research (JNCASR)

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<tr>
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<td>Ethics in Clinical Trials and Scientific Research - 2</td>
<td>R. Macklin, <em>Albert Einstein College of Medicine, Bronx, NY, USA</em>&lt;br&gt;A. Jesani, <em>CEHAT, New Delhi</em></td>
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<td>Fundamentals of Epidemiology and Statistics - 2</td>
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1:30PM – 2:30PM Behavioral Methods of AIDS Prevention- 2
Larie Bauman, Albert Einstein College of Medicine, Bronx, NY, USA
Sunil Mehra, MAMTA, New Delhi

2:45PM – 3:15PM Tea Break

3:15PM – 4:15PM HIV and Infectious Risks of Blood Transfusion - 2
Robert Reiss, New York Blood Center, New York, USA
Latha Jagannathan, Bangalore Medical Services Trust, Bangalore
Vasanthapuram Ravi, NIMHANS, Bangalore
Nilkantrai Vaishnav, Bhavnagar Blood Bank, Bhavnagar, Gujarat

4:30PM – 5:30PM Grant - Writing Workshop - 2
Madelon Halula, Mary Kirker, Priti Mehrotra & Paula Strickland, National Institute of Allergy and Infectious Diseases, NIH, USA

6:30PM Dinner
Laboratory Session 7b
Heteroduplex mobility shift assays
Udaykumar Ranga,
*JNCASR, Bangalore*
8/06/04, Friday
Laboratory Workshop

Venue:
Jawaharlal Nehru Centre for Advanced Scientific Research (JNCASR)

8:30AM Laboratory Session 1b/Drug Susceptibility (continued)

10:45AM Tea Break

11:00AM Laboratory Session 4/Use of Reporter cell lines for HIV (continued)

1:00PM Lunch

2:00PM Laboratory Session 4/Use of Reporter cell lines for HIV (continued)

4:00PM Closing Ceremony
Valedictory Address
Dr. M. R. S. Rao
President, Jawaharlal Nehru Centre for Advanced Scientific Research, Bangalore

4:30PM Vote of Thanks
Dr. Ganjam V. Kalpana
Albert Einstein College of Medicine, Bronx, NY USA

4:45PM High Tea

6:00PM Upon prior request, packed dinners will be available.
8/07/04, Saturday

One-day sight seeing excursion
(to Mysore and Brindavan Gardens).