PREFACE

Following pages represent the output of the scientific activities of TRC during the reporting period. I am grateful to all the scientific, technical, administrative and service staff for their support in generating high quality research at TRC. I congratulate the staff responsible for drafting this excellent report. If there are mistakes either in content, or in style, or in language I am responsible for the same. Please review this critically and provide your valuable comments and criticisms to improve the scientific output of this centre more and more in the forthcoming years.

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Lucknow – 226 001

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Chennai

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Wanawadi
Pune – 411 040

Prof. Jaya S. Tyagi
Professor
Department of Biotechnology
All India Institute of Medical Sciences
Ansari Nagar
New Delhi – 110 029

Prof. K. Ramachandran
Retd. Professor of Statistics
All India Institute of Medical Sciences
No.9, G-2, Viswespuram
Mylapore
Chennai – 600 004

Dr. V.M. Katoch
Director
Central JALMA Institute of Leprosy
Post Box No.101
Taj Ganj, Agra
Prof. K.V. Thiruvengadam
Former Prof. of Medicine
Madras Medical College
83, G.N. Chetty Street
T.Nagar, Chennai – 600 017

Dr. Sandip K. Basu
Professor of Eminence
National Institute of Immunology
Aruna Asaf Ali Marg
New Delhi – 110 041

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University of Hyderabad
Hyderabad – 500 046

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Principal Executive
Sir Dorabji Tata Centre for
Research in Tropical Diseases
Innovation Centre
Indian Institute of Science Campus
Bangalore – 560 012

Prof. Vimla V. Nadkarni
Head of Medical and Psychiatric Social Work
TATA Institute of Social Sciences
P.B. No. 8313, Deonar
Mumbai – 400 088

Dr. Dipali Mukherji
Chief, ECD Division
Indian Council of Medical Research
P.B. No.4911, Ansari Nagar
New Delhi – 110 029

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Director
Tuberculosis Research Centre,
Chennai – 600 031
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Chief Nephrologist
Apollo Hospitals
21, Greams Road
Chennai – 600 006

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Professor and Head
Department of Pharmacology
Vinayaka Mission Medical College
Chinna Seeragapadi
Salem - 636 308

Prof. V. Ramasubramanian
Infectious Diseases Unit
Apollo Hospitals,
21, Greams Road
Chennai – 600 006

Prof. K. Ramachandran
Retd. Professor of Biostatistics
All India Institute of Medical Sciences
No.9, G-2, Viswespuram
Mylapore
Chennai – 600 004

Dr. S.M. Mehendale
Deputy Director (SG)
National AIDS Research Institute
Plot No.73, ‘G’ Block
MIDC, Bhosari
Pune – 411 026

Dr. P. Venkatesan (Member Secretary)
Assistant Director & Head
Department of Statistics
Tuberculosis Research Centre
Chetput
Chennai – 600 031
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Neuro-Surgeon
N0.8-A, 15th Avenue
Harrington Road
Chennai – 600 031

Dr. H. Srinivasan
Orthopaedic Surgeon
25, First Seaward Road
Valmiki Nagar
Chennai – 600 041

Mr. Mohan Alagappan
Industrialist
C1, Fern Hill
1-Rajaratnam Street
Kilpauk
Chennai – 600 010

Dr. Usha Sriram
Endocrinologist
Malar Hospitals
52, Gandhi Nagar I Main Road
Chennai – 600 020

Dr. Vijayalakshmi Thanasekaran
Pulmonologist
Sri Ramachandra Medical College
No.1, Ramachandra Nagar
Porur, Chennai – 600 116

Dr. V.R. Muralienderhan
Professor of Economics
Department of Humanities & Social Sciences
Indian Institute of Technology
Room HSB 351C, HSB Block
Chennai – 600 036

Ms. Shyamala Natraj
Programme Director
South India AIDS Action Programme
8 (Old 11), Jeevanantham Street
Lakshmipuram
Thiruvaanmiyur, Chennai – 600 041
Dr. V. Vijayasekaran  
Professor and Head  
Department of Pharmacology  
Vinayaka Mission Medical College  
Chinna Seeragapadi  
Salem – 636 308

Mr. C.P. Sivamohan  
Advocate  
No.56, 1 Floor, Bhaiya Complex  
286, Purasawalkam High Road  
Purasawalkam  
Chennai – 600 007

Ms. Sunitha Suchith  
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Public Information Officer (TRC) : Dr. P. Selvaraj
Assistant Director
Immunology Department
Phone: 28369761

Public Information Officer (Epid.) : Dr. K. Sadacharam
Deputy Director
Epidemiology Unit
Tiruvallur
Phone: 27660424

Appellate Authority : Dr. M.S. Jawahar
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Clinic Department
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## DISTINGUISHED VISITORS

<table>
<thead>
<tr>
<th>Name</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>Prof. R. C. Mahajan</td>
<td>“Highly impressed with kind of infrastructure created in TRC and quality of work being carried out”</td>
</tr>
<tr>
<td>J.N.Bose National Research Program Advisor, ECD-ICMR, &amp; Emeritus Professor, PGI Chandigarh</td>
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<tr>
<td>Dr. Mel Spigelman</td>
<td>“Wonderful facility and even more wonderful staff”</td>
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<td>Global Alliance for TB Drug Development USA</td>
<td></td>
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<tr>
<td>Dr. Ann Ginsberg</td>
<td>“Looking forward to working together on our mutual goal of improving TB treatment”</td>
</tr>
<tr>
<td>Global Alliance for TB Drug Development USA</td>
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<tr>
<td>Dr. Said Al Baqlani</td>
<td>“Sincerely I had a wonderful experience with your institution both academically and socially”</td>
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<td>Ministry of Health Department of Public Health Laboratories Oman</td>
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<tr>
<td>Dr. R. Nagaraj</td>
<td>“The facilities and the work done in TRC is really impressive”</td>
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<td>CCMB Hyderabad</td>
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<td>Prof. K. Sankaran</td>
<td>“A very exciting and stimulating experience going through the facilities and listening to the Director”</td>
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<td>CBT - Anna University Chennai</td>
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<tr>
<td>Dr. Paul Kutyabami</td>
<td>“I was impressed with what goes on at TRC. It will be good if what you do gets published for the world to benefit”</td>
</tr>
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<td>Makerere University Uganda.</td>
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<tr>
<td>Dr. P.M. Jester</td>
<td>“Your accomplishments are fantastic. I am honoured to have shared time with you”</td>
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<td>University of Alabama at Birmingham, USA</td>
<td></td>
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<tr>
<td>Dr.G.S.Chhatwal</td>
<td>“A real nice centre for comprehensive research”</td>
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<tr>
<td>Director Microbiology HZI, Germany</td>
<td></td>
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<tr>
<td>Name</td>
<td>Remarks</td>
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</tbody>
</table>
| Dr. Karyl Barron  
NIAID – NIH  
USA                           | “I am most impressed with the facilities and look forward to seeing the results of the research” |
| Dr. Hannan Mouse  
NIAD – NIH  
USA                           | “Very Impressive”                                                        |

**UK Parliamentarians visit**

<table>
<thead>
<tr>
<th>Name</th>
<th>Remarks</th>
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</table>
| Tom Clarke  
House of Commons  
London Parliament             | “High standards of professionalism and commitment in action”            |
| Baroness Lindsay Northover  
Global Democrat Spokesperson  
International Development  
House of Lords  
London                        | “It is very impressive indeed to see such wide range of outstanding research carried out here, and then able to influence what is happening in India and far wider” |
| Ashok Kumar, MP  
House of Commons  
London                        | “Highly committed individuals doing excellent work”                      |
| Nick Herbert, MP  
| House of Commons  
| London  
| Chairman, All-party Parliamentary Group on Global TB  
| “Thank you for an extremely useful and informative visit”  
| Ann Cryer, MP  
| House of Commons  
| London  
| “Our morning at the TRC was extremely useful”  
| Jeremy Hunt, MP  
| House of Commons  
| London  
| “A fascinating insight into leading edge work to tackle TB and the relationship between HIV & TB. Keep up the good work”  
| Sheila Davie & Louise Holly  
| RESULTS, UK  
| “Information that you have provided is invaluable for our advocacy work on TB”  

Dr. P.R. Narayanan  
Director  
Tuberculosis Research Centre  
Mayur V. R. Ramanathan Road  
Chetpet, Chennai 600 031  
India

25 May 2007

Dear Dr. Narayanan,

I am so sorry not to have written sooner and on behalf of the members of the All-Party Parliamentary Group on Global TB who participated in the visit to India in March, thank you and your colleagues for giving up so much of your time to show us around the Tuberculosis Research Centre and for providing us with such comprehensive presentations.

It was very clear that in the 50 years since your establishment, the TRC has been a global leader in the field of research and its work has had a positive impact in addressing TB worldwide.

We would be extremely grateful if you would keep us informed of progress and developments in your work in the future and be in touch if there are any actions that the All-Party Parliamentary Group can take to support your efforts.

If you or any of your colleagues have the opportunity to travel to the UK in the future, please do let us know. We would be delighted to see you again.

May I wish you the very best of luck in your future activities.

With kind regards,

Yours sincerely,

Nick Herbert MP

tel: 020 7219 4080  e-mail: nick@nickherbert.com  web: www.nickherbert.com
Dr. R.P. Narayanan
Director
Tuberculosis Research Centre
Mayor V. R. Ramanathan Road
Chettput, Chennai 600 031
India

16 April 2007

Dear Dr Narayanan,

Re: Delegation of UK Parliamentarians to India

I am writing today to thank you very much for giving our delegation such an interesting presentation of the Tuberculosis Research Centre’s activities.

Your presentation gave the delegates an excellent opportunity to better understand the scale of the tuberculosis epidemic in India. It also inspired the delegates to take action to support efforts to control the disease and I am pleased to tell you that they have promised to take a lead in the UK in advocating for solutions to the problem.

Delegations of parliamentarians are a very important part of our advocacy work and you greatly contributed to make this trip a very successful one.

Thank you again for your time and support. We very much look forward to working together again in the future.

With very kind regards,

Yours sincerely,

Sheila Davie
Executive Director

Louise Holly
Project Manager
ABBREVIATIONS

3TC    Lamivudine
A    Amikacin
ACR    Allelic Crystalline Protein
AFB    Acid Fast Bacilli
ANN    Artificial Neural Network
ART    Antiretroviral Therapy
ARTI    Acute Respiratory Tract Infection
ATP    Adenosine Triphosphate
ATT    Anti-TB treatment
AZT    Zidovudine
BCG    Bacillus Calmette Guerin
C    Capreomycine
CBA    Cytometric Bead Array
CFA    Culture Filtrate Antigen
CFP    Culture Filtrate Protein
CFU    Colony Forming Unit
CIC    Circulating Immune Comlex
CPC    Cetyl Pyridinium Chloride
CS    Chest Symptomatic
CTL    Cytotoxic T-lymphocytes
CXR    Chest X-ray
CYP2B6    Cytochrome P450 2B6
DC    Dendritic Cells
ddi    Didanosine
DMSO    Dimethyl Sulfoxide
DNA    Deoxyribonucleic Acid
DOTS    Directly Observed Treatment Short-course
DRS    Drug Resistance Surveillance
DSP    Drug Susceptibility Profile
DST    Drug Susceptibility Testing
d4T    Stavudine
E    Ethambutol
EDTA    Ethylene Dianine Tetra-acetic Acid
EFV    Efavirenz
ELISA    Enzyme Linked Immunosorbent Assay
EQA    External Quality Assurance
ESAT    Early Secretory Antigen Target
Eth    Ethionamide
FDC    Fixed Dose Combinations
H    Isoniazid
HIV    Human Immuno Deficiency Virus
HIVVT    HIV Vaccine Trial
HHC    Healthy Household Contacts
HLA    Human Leucocyte Antigen
HPLC    High Performance Liquid Chromatography
<table>
<thead>
<tr>
<th>Abbreviation</th>
<th>Full Form</th>
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<tr>
<td>IFN-γ</td>
<td>Interferon Gamma</td>
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<tr>
<td>IRL</td>
<td>Intermediate Reference Laboratory</td>
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<td>K</td>
<td>Kanamycin</td>
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<td>LJ</td>
<td>Lowenstein Jensen</td>
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<td>LRP</td>
<td>Luciferase Reporter Phage</td>
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<td>MAPK</td>
<td>Mitogen Activated Protein</td>
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<td>MBL</td>
<td>Mannose Binding Lectin</td>
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<tr>
<td>MDR-TB</td>
<td>Multi-Drug Resistant Tuberculosis</td>
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<tr>
<td>MIC</td>
<td>Minimal Inhibitory Concentrate</td>
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<td>MSM</td>
<td>Men having Sex with Men</td>
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<td>MVA</td>
<td>Modified Vaccine Ankara</td>
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<td>NHS</td>
<td>Normal Health Subjects</td>
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<td>NNRTI</td>
<td>Non-NRTI</td>
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<td>NVP</td>
<td>Nevirapine</td>
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<td>O</td>
<td>Ofloxacin</td>
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<td>ORF</td>
<td>Open Reading Frame</td>
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<tr>
<td>PBMC</td>
<td>Peripheral Blood Mononuclear Cells</td>
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<td>PCR</td>
<td>Polymerase Chain</td>
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<td>PMA</td>
<td>Phorbol Myristate Acetate</td>
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<td>PNB</td>
<td>Para Nitro Benzoic acid</td>
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<td>PPD</td>
<td>Purified Protein Derivative</td>
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<td>PPs</td>
<td>Private Practitioners</td>
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<td>PST</td>
<td>Proportion Sensitivity Test</td>
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<td>PTB</td>
<td>Pulmonary TB</td>
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<td>QoL</td>
<td>Quality of Life</td>
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<tr>
<td>R</td>
<td>Rifampicin</td>
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<tr>
<td>RFLP</td>
<td>Reaction – Restriction Fragment Length Polymorphism</td>
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<tr>
<td>RLU</td>
<td>Relative Light Units</td>
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<td>RNTCP</td>
<td>Revised National TB Control Programme</td>
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<td>RT</td>
<td>Reverse Transcriptase</td>
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<td>SLI</td>
<td>Standard of Living Index</td>
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<td>Sm</td>
<td>Streptomycin</td>
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<td>State TB Demonstration Centre</td>
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<td>TB</td>
<td>Tuberculosis</td>
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<td>TLR</td>
<td>Toll Like Receptors</td>
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<td>TST</td>
<td>Tuberculin Skin Test</td>
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<td>USAID</td>
<td>United States Agency for International Development</td>
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<td>Vitamin-D Receptor</td>
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<td>WHO</td>
<td>World Health Organization</td>
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<td>Z</td>
<td>Pyrazinamide</td>
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