

CONTENTS

Page No.

1.	Scientific Programme	1
2.	Guests of Honour	4
3.	Chairpersons	6
4.	KEYNOTE ADDRESSES:	
a.	<i>Challenges for TB Control in the 21st Century</i> Dr. Soumya Swaminathan	11
b.	<i>Novel Targets for Treatment of Tuberculosis</i> Dr. Shridhar Narayanan	12
c.	<i>Molecules to Medicines</i> Dr. Monalisa Chatterji	13
5.	GUEST LECTURES:	
•	<i>Clinical Trials in HIV Associated Tuberculosis</i> Dr. Srikanth Tripathy	14
•	<i>Redox Processes in M. tuberculosis</i> Dr. Shekhar C. Mande	15
•	<i>Mycobacterium Tuberculosis – A Pathogen that Refuses to be Tamed</i> Prof. Anil K. Tyagi	17
•	<i>Ban on Tuberculosis Serology: Moratorium or Opportunity for Novel Molecules?</i> Prof. Sarman Singh	18
•	<i>Diagnosis of Tuberculosis in Young Children in India</i> Dr. R.S. Paranjape	19
•	<i>Phage Based Drug Targets and Discovery of Their Inhibitors in Mycobacterium tuberculosis</i> Dr. Vanaja Kumar	20
•	<i>Biochemical Characterization of an S-adenosyl-L-methionine Dependent Methyltransferase of Mycobacterium tuberculosis</i> Dr. L. S. Meena	21
•	<i>Novel Approach to Identify and Validate Drug Target in Tuberculosis</i> Ms. Supriya Kashikar	23
•	<i>The Important Clinical Challenge of Non-tuberculous Mycobacterial Infection</i> Dr. Sheldon Brown	24
•	<i>Our experience with Non tuberculous Mycobacteria in Wardha District</i> Dr. (Mrs.) Pratibha Narang	26
•	<i>Unanticipated M. tuberculosis complex culture inhibition by 'Immune-Modulators, Suppressants', a 'Growth-Enhancer' & vitamins A & D: Clinical implications</i> Dr. Robert J. Greenstein	28

CONTENTS

Page No.

- *Proteomics of Indian Specific Mycobacterial Strains* 29
Prof. M. A. Vijayalakshmi
- *Molecular and Immunodiagnosics for Tuberculosis at Hospital and Community Control Programmes* 30
Dr. V. D. Sharma
- *Development of a Serum Biomarker Based Assay and a Novel Real Time PCR Based Method for Detection of Tuberculosis* 32
Dr. Arun Chandrashekar
- *Tuberculous Meningitis: Interesting Observations from a Tertiary Neuro Health Care Centre* 33
Dr. Rajpal Singh Kashyap
- *WHO Recommendations on Newer TB Diagnostics in Resource Limited Settings* 34
Dr. Rahul Narang
- *Mycobacteria and HIV co-infection: Impact on the Host Immune Status and Cellular Environment* 35
Dr. Sharmistha Banerjee
- *Multiantigen and antibody SEVA TB ELISA for Immunoscreening of Suspected Cases of Extra Pulmonary Tuberculosis* 36
Dr. Pranita Waghmare
- *Biomarkers for CNS Tuberculosis: Need of Multimodal Approach* 38
Dr. Shripad A. Patil
- *Molecular Techniques for TB* 39
Dr. Udai Padigel
- *Lack of Interferon gamma release ELISpot Response in Health Care Workers Despite Persistent TB Exposure* 40
Dr. Vijay J. Upadhye
- *Advances in High-Resolution Mass Spectrometry and its Utility in Characterizing Disease Biomarkers* 41
Dr. T.S. Keshava Prasad
- *Comparative genomics and whole genome phylogeny of Mycobacteria* 42
Ms. Sunitha Manjari
- *Exploring mycobacterial regulatory network: A systems biology approach* 43
Dr. Deepak Sharma

CONTENTS

Page No.

- *Text Mining of Mycobacterium Literature to Find Drug Targets* 44
Dr. N. Jeyakumar
- *Emergence of Beijing strain of Mycobacterium tuberculosis in Northeastern region of India* 46
Dr. Kangjam Rekha Devi
- 6. GUEST ARTICLE**
- *Tuberculosis - Present Scenario & Strategies* 47
Dr. Peyush Goyal
- 7. PANEL DISCUSSION on Academic and Industrial Cooperation in TB Diagnostics and Drug Development** 51
- *Experience in Developing Self Reliance in Diagnostics*
Dr. Shama Bhat
- 8. POSTERS**
- *Prime Boost Immunization Strategies Using Experimental Animal (mice) to Improve the Efficacy of BCG Vaccine Against Tuberculosis - Aliabbas AH* 55
- *A study on Oxidative stress level and Antioxidant status in patients on Anti tubercular treatment (ATT) developing hepatotoxicity in a tertiary care hospital. - Basu I* 55
- *In silico studies, synthesis and evaluation of DprE1 and AHAS inhibitors for control of Mycobacterium tuberculosis - Chikhale R* 56
- *Ag 85 complex and Rv2623 Mycobacterium tuberculosis antigens: Promising marker(s) for the diagnosis of Tuberculous meningitis - Hutke V* 57
- *Bedaquiline: A New Approach and Challenge to Multidrug Resistant Tuberculosis – Jabeen S.* 57
- *Synthesis and antimycobacterial Screening of Benzimidazoles and new series of benzimidazole derivatives bearing thiophene moiety for various biological activities.- Kale S* 58
- *Identification of Inhibitors Against Mycobacterium tuberculosis Thiamin Phosphate Synthase, an Important Target for the Development of Anti-TB Drugs – Kar R* 58
- *Whole cell screening based identification of potent inhibitors against the intraphagosomal survival of Mycobacterium tuberculosis – Khare G* 59

CONTENTS

Page No.

• <i>Repurposing drugs: vROCS based screening and identification of selective antitubercular agents from drug database - Kumar MMK</i>	59
• <i>Evaluation and comparison of IS6110 and duplex PCR assay for rapid diagnosis and simultaneous identification of tuberculous and bacterial meningitis – Manke SD</i>	60
• <i>Molecular modelling and docking study of 5-substituted phenyl-1, 3-dihydro-2H-1, 4-benzodiazepines against Mycobacterium tuberculosis ribonucleotide reductase (RNR) activity - Menghani S</i>	61
• <i>Multiplex ELISA Kit for Tuberculosis diagnosis: Towards a better tomorrow – Mishra A</i>	61
• <i>Sequence analysis, Homology modeling and binding site identification of Acetyl –CoA cetyltransferase (fadA5) of Mycobacterium tuberculosis – Mondal S</i>	62
• <i>Antimycobacterial potential, antioxidant profile and cytotoxic profile of selected Four Indian medicinal plants - More RA</i>	63
• <i>Phenothiazine – new scaffold for selective antitubercular drug design – Nagasree PK</i>	63
• <i>Mycobacterium tuberculosis bacterioferritins- Structural and biochemical characterization to facilitate rational drug design – Nangpal P</i>	64
• <i>Rapid and sensitive loop mediated isothermal amplification assay targeting sdaA gene for the detection of Mycobacterium tuberculosis – Nimesh M</i>	64
• <i>Integrase-LEDGF interactions inhibitor: Designing and computational docking analysis of novel allosteric inhibitor targeting HIV integrase - Pant A</i>	65
• <i>Isolation of Mycobacteria from Sputum Specimens Using Modified Lowenstein- Jensen (LJ) Media Compared with the Conventional LJ Media – S Vishnu Prasad</i>	65
• <i>Evaluation of human & Mycobacterium tuberculosis Heat Shock Proteins and toll like receptors induced cytokines in CSF of Tuberculous meningitis patients- Shekhawat SD</i>	66
9. ABOUT US	
• Mahatma Gandhi Institute of Medical Sciences	67
• Jamnalal Bajaj Tropical Disease Research Centre & Department of Biochemistry	68
• Bioinformatics Centre	71
• Arogyadham & Herbal Garden	73

CONTENTS

Page No.

10. Research Contributions In Tuberculosis Diagnostics & Informatics In Two Decades (1992-2014)	74
<ul style="list-style-type: none">• Breakthrough In TB Research• Ph.D. Thesis• M.D. Thesis• Patent Awarded• Training Course• Databases• Editorials:• Editorials:<ul style="list-style-type: none">a. <i>Immunodiagnosics for Tuberculosis – Problems And Progress</i> Indian J Tuberc 2010;57(3):123-127b. <i>Science & Commerce of the TB Diagnostics – The tiny microbe laughs</i> SEVAMED, April 2012• Publications	
11. List of Participants	90
12. Acknowledgement	