CURRICULUM VITAE

I. Name: Dr. Dasarathi Das

II. Designation: Executive Director
South Asian Institute of Health Research
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IV. Date of Birth: September 25, 1960

V. Educational Qualifications: MSc, PhD

VI. DBT National Associate ship: Worked in the immunological aspects of filariasis at the Centre for Biotechnology, JNU, New Delhi from May 1995-December 1996.
VII. Job profile: Superannuated as Scientist-F from ICMR-Regional Medical Research Centre, Bhubaneswar on 30. 9. 2022.

VIII. Professional Experience and Training

Experienced in handling of pathogenic mycobacteria including MDR/XDR strains in Biosafety level-3 labs for microbiological experiments and has studied drug resistance for over 9 years (2008-2017). Possesses specialization in mycobacterial diagnosis using phenotypic, genotypic methods and involved in RNTCP programme as In-cahrge of National Reference Laboratory for Tuberculosis at RMRC, Bhubaneswar. Got excellent training in the mycobacterial Drug Susceptibility Testing, External Quality Assurance and Biochemical Identification/speciation in the laboratory of National Institute for Research in Tuberculosis (formerly Tuberculosis Research Centre), Chennai & established these procedures at the RMRC, Bhubaneswar. Over the years successfully completed the responsibility of maintenance of the Biosafety Laboratories (BSL-2 and BSL-3) as well as the External Quality Assurance Exercise with excellent concordance. These experiences

held immense relevance to the capacity building and man-power training in laboratories at North-East states.

VII. Trainings Acquired

Course/Title	From	To	Institution
Quality Management Systems &Internal Audit in Medical Labs as per ISO 15189:2012	24.5.2017	27.5.2017	NITRD, New Delhi
Good Clinical Practices & Bioethics	1.8.2016	2.8.2016	RMRC, Bhubaneswar
CBNAAT sensitization workshop	16.11.2017	17.11.2017	NTI, Bangalore
Biosafety Practices in TB Laboratory	26.11.2015	27.11.2015	NTI, Bangalore
Hands on training in Line Probe Assay	12.5.2014	17.5.2014	RMRC, Bhubaneswar
Second Line Drug Susceptibility Testing in Liquid Culture and LPA	15.12.2014	19.12.2014	ICELT, NTI, Bangalore
Indo-US Grantsmanship Workshop on Prevention of STDs and HIV/AIDS	6.2.2013	7.2.2013	ICMR, Delhi
Training on Culture and Drug Susceptibility Testing in Mycobacterium tuberculosis	09.02.2009	20.03.2009	TRC, Chennai
WHO-ICMR workshop on intellectual propery rights and World Trade Organization Issues	16.2.2004	17.2.2004	RMRCT, Jabalpur
ICMR-Ellison foundation sponsored workshop on Immunoparasitology	11.2.2002	15.2. 2002	RMRC, Bhubaneswar
Creation of immortalized cell lines by EBV transformation at	18.5.2000	11.6.2000	CCMB, Hyderabad
ICMR sponsored hands on training workshop on laboratory diagnosis of Leptospirosis	29.4.1999	19.5. 1999	RMRC, Port Blair
Laboratory diagnosis of Viral Hepatitis, Dengue, HIV	17.8.1998	18.9.1998	NIV and NARI, Pune

X. Research Projects As PI and Co-I

1	National Reference Laboratory	Central TB Division

2	Human pulmonary paragonimiasis in crab eating communities and smear negative suspected TB cases from some states of India	ICMR
3	A Phase III, Randomized, Double-blind, Placebo-controlled Trial to Evaluate the Efficacy and Safety of VPM1002 and Immunovac Vaccines in Preventing Tuberculosis (TB) in Healthy Household Contacts of Newly Diagnosed Sputum Positive Pulmonary TB Patients (Capacity building)	ICMR
4	A Phase III, Randomized, Double-blind, Three arm Placebo controlled Trial to Evaluate the Efficacy and Safety of two vaccines VPM1002 and Immuvac(M*w*) in Preventing Tuberculosis (TB) in Healthy Household Contacts of Newly Diagnosed Sputum Positive Pulmonary TB Patients	ICMR
5	Human pulmonary paragonimiasis in crab eating communities and smear negative suspected TB cases from some states of India	ICMR
6	Mapping hotspots of MDR-TB in Assam, Tripura and Sikkim using Genomics approaches	DBT
7	Development and validation of artificial intelligence tool for screening/ detection of pulmonary TB and other lung diseases using Chest X-ray	ICMR
8	A demonstration project for reduction of Tuberculosis in India-A multicentric study (**Sikkim & Mizoram**)	ICMR
9	Multi-centric validation of 'TB Detect' and 'TB Concentration and Transport' kit and 'TB DNA Extraction' kit for the diagnosis of TB and drug resistant TB	ICMR
10	Performance of Light Emitting Diode microscope in different settings for a TB diagnosis: a multi-centric study	ICMR
11	Study on drug resistance among sputum positive tuberculosis patients in Rayagada district.	ICMR

XI.Publications

1. Manjula Singh1, Pankaj Ghatbandhe2, Gaurav Mehta2, Farida Khatun2, Seevan Asad2, Himshweta Tyagi 2, Pankaj Bansal2, Arbaz Khan2, Farah Mohammed Aamir2, Sonali Kar3, Pooja Priyadarshini 3, Pritina Samal3, Mahmud Hanif 4, Zeeshan Sidiq4, Shalini Puri5, Rama Bhat5, Ngilang Taley5, Sooman Sundaray6, Abdus Samad Khan6, Ranjan Kumar Singh6, Himadri Bal7,8, Prasanta Kumar Hota6, Paresh Nath Mohanty9, **Dasarathi Das**7, Kamal Kishore Chopra4, Bhagirath Kumar Vashishat5, Ashwani Khanna5, Manjeet Singh Chalga1, Kuldeep Singh Sachdeva10,11, Nishant Kumar11, Raghuram Rao11, Rajendra P Joshi11, Vijay Yeldandi2, Shikha Dhawan2* Baseline Assessments of TB Detection Centres in Selected Public and Private Laboratories in India and Need for Introducing Quality Management Systems. Clinical Research and Clinical Trials. 7(2) ; DOI:10.31579/2693-4779/122

2. Triyambakesh Mohanty, Sujeet Kumar, Sunil Swick Rout, Sarita Kar , Himadri Bhusan Bal, Jyotirmayee Turuk , **Dasarathi Das**, Sooman Sundaray, Sanghamitra Pati, Sidhartha Giri. Pleural tuberculosis in Bhubaneswar, Odisha, during 2016 to 2022. Indi J Med Microbiol 2023 Nov -Dec ,46:100479

3. Chinmayee Mohanty, Triyambakesh Mohanty, Sarita Kar, Sujeet Kumar, Sunil Swick Rout, Himadri Bhusan Bal, Subrat Kumar Barik, Jyotirmayee Turuk, **Dasarathi Das** , Sooman Sundaray, Prasanta Kumar Hota, Sanghamitra Pati, Sidhartha Giri.Tuberculous meningitis in Bhubaneswar, Odisha, during 2016 to 2022. Ind J Tuber. Sept 2023.

4. Bal HB, Kar S, Otta S, Kumar S, Samal S, Pattnaik A, Rout SS, Turuk J, **Das D**, Pati S, Giri S. Impact of cartridge-based nucleic acid amplification test (CBNAAT) introduction on the detection of pulmonary and extra-pulmonary tuberculosis in Bhubaneswar, Odisha. Indian J Pathol Microbiol. 2023 Oct-Dec;66(4):764-769. doi: 10.4103/ijpm.ijpm_666_22. PMID: 38084529.

5. Kumar S, Rout SS, Kar S, Bal HB, Turuk J, **Das D**, Hota PK, Pati S, Giri S. Pattern of InhA and KatG mutations in isoniazid mono resistant Mycobacterium tuberculosis isolates from Odisha. Indian J Med Microbiol. 2023 Jul-Aug; 44:100373. doi: 10.1016/j.ijmmb.2023.100373. Epub 2023 May 11. PMID: 37356845.

6. Harshil Alwani1, Saswat Subhankar1, C. Mohan Rao1, Sarita Kar2, Sujeet Kumar2, Himadri Bhusan Bal2, **Dasarathi Da**s2,and Debee Prasad Dash1. Role of CBNAAT in the Diagnosis of Extra-Pulmonary Tuberculosis: Experience from a Tertiary Care Hospital in India.The Indian Journal of Chest Diseases & Allied Sciences, 2022; **64**:9-14.

7. Manoj V Murhekar, Tarun Bhatnagar, Sriram Selvaraju, V Saravanakumar, Jeromie Wesley Vivian Thangaraj, Naman Shah, Muthusamy Santhosh Kumar, Kiran Rade, R Sabarinathan, Smita Asthana*, Rakesh Balachandar*, Sampada

Dipak Bangar*, Avi Kumar Bansal*, Jyothi Bhat*, Vishal Chopra*, **Dasarathi Das***, Alok Kumar Deb*, Kangjam Rekha Devi*, Gaurav Raj Dwivedi*, S Muhammad Salim Khan*, C P Girish Kumar*, M Sunil Kumar*, Avula Laxmaiah*, Major Madhukar*, Amarendra Mahapatra*, Suman Sundar Mohanty*, Chethana Rangaraju*, Alka Turuk*, Dinesh Kumar Baradwaj†, Ashrafjit S Chahal†, Falguni Debnath†, Inaamul Haq†, Arshad Kalliath†, Srikanta Kanungo†, Jaya Singh Kshatri†, G G J Naga Lakshmi†, Anindya Mitra†, A R Nirmala†, Ganta Venkata Prasad†, Mariya Amin Qurieshi†, Seema Sahay†, Ramesh Kumar Sangwan†, Krithikaa Sekar†, Vijay Kumar Shukla†, Prashant Kumar Singh†, Pushpendra Singh†, Rajeev Singh†, Dantuluri Sheethal Varma†, Ankit Viramgami†, Samiran Panda, D C S Reddy, Balram Bhargava, on behalf of the ICMR Serosurveillance Group‡SARS-CoV-2 antibody seroprevalence in India, August–September, 2020: findings from the second nationwide household serosurvey Manoj V Murhekar, Tarun Bhatnagar, Sriram Selvaraju, V Saravanakumar, Jeromie Wesley Vivian Thangaraj, Naman Shah, Muthusamy Santhosh Kumar, Kiran Rade, R Sabarinathan, Smita Asthana*, Rakesh Balachandar*, Sampada Dipak Bangar*, Avi Kumar Bansal*, Jyothi Bhat*, Vishal Chopra*, **Dasarathi Das***, Alok Kumar Deb*, Kangjam Rekha Devi*, Gaurav Raj Dwivedi*, S Muhammad Salim Khan*, C P Girish Kumar*, M Sunil Kumar*, Avula Laxmaiah*, Major Madhukar*, Amarendra Mahapatra*, Suman Sundar Mohanty*, Chethana Rangaraju*, Alka Turuk*, Dinesh Kumar Baradwaj†, Ashrafjit S Chahal†, Falguni Debnath†, Inaamul Haq†, Arshad Kalliath†, Srikanta Kanungo†, Jaya Singh Kshatri†, G G J Naga Lakshmi†, Anindya Mitra†, A R Nirmala†, Ganta Venkata Prasad†, Mariya Amin Qurieshi†, Seema Sahay†, Ramesh Kumar Sangwan†, Krithikaa Sekar†, Vijay Kumar Shukla†, Prashant Kumar Singh†, Pushpendra Singh†, Rajeev Singh†, Dantuluri Sheethal Varma†, Ankit Viramgami†, Samiran Panda, D C S Reddy, Balram Bhargava, on behalf of the ICMR Serosurveillance Group‡. SARS-CoV-2 antibody seroprevalence in India, August–September, 2020: findings from the second nationwide household serosurvey The Lancet Global Health, 2021; **9 (**3): E257-266.

8. Manoj V Murhekar[1], Tarun Bhatnagar[2], Sriram Selvaraju[3], Kiran Rade[4], V Saravanakumar[5], Jeromie Wesley Vivian Thangaraj[2], Muthusamy Santhosh Kumar[2], Naman Shah[6], R Sabarinathan[5], Alka Turuk[7], Parveen Kumar Anand[8], Smita Asthana[9], Rakesh Balachandar[10], Sampada Dipak Bangar[11], Avi Kumar Bansal[12], Jyothi Bhat[13], Debjit Chakraborty[14], Chethana Rangaraju[15], Vishal Chopra[16], **Dasarathi Das**[17], Alok Kumar Deb[14], Kangjam Rekha Devi[18], Gaurav Raj Dwivedi[19], S Muhammad Salim Khan[20], Inaamul Haq[20], M Sunil Kumar[21], Avula Laxmaiah[22], Madhuka[23], Amarendra Mahapatra[17], Anindya Mitra[24], AR Nirmala[25], Avinash Pagdhune[26], Mariya Amin Qurieshi[20], Tekumalla Ramarao[27], Seema Sahay[28], YK Sharma[29], Marinaik Basavegowdanadoddi Shrinivasa[30], Vijay Kumar Shukla[29], Prashant Kumar Singh[31], Ankit

Viramgami[26], Vimith Cheruvathoor Wilson[3], Rajiv Yadav[13], CP Girish Kumar[32], Hanna Elizabeth Luke[33], Uma Devi Ranganathan[34], Subash Babu[35], Krithikaa Sekar[3], Pragya D Yadav[36], Gajanan N Sapkal[37], Aparup Das[38], Pradeep Das[39], Shanta Dutta[40], Rajkumar Hemalatha[41], Ashwani Kumar[42], Kanwar Narain[43], Somashekar Narasimhaiah[44], Samiran Panda[45], Sanghamitra Pati[17], Shripad Patil[46], Kamalesh Sarkar[47], Shalini Singh[48], Rajni Kant[19], Srikanth Tripathy[49], GS Toteja[50], Giridhara R Babu[51], Shashi Kant[52], JP Muliyil[53], Ravindra Mohan Pandey[54], Swarup Sarkar[55], Sujeet K Singh[56], Sanjay Zodpey[57], Raman R Gangakhedkar[55], DC S. Reddy[58], Balram Bhargava[59] Prevalence of SARS-CoV-2 infection in India: Findings from the national serosurvey, May-June 2020. Indian Journal of Medical Research, **2020**;152 (48-60)

9. Tahziba Hussain , Sushri Shanta Tripathy , Shritam Das , Prakasini Satapathy , **Dasarathi Das** , Beena Thomas , Sanghamitra Pati. Prevalence, risk factors and health seeking behaviour of pulmonary tuberculosis in four tribal dominated districts of Odisha: Comparison with studies in other regions of India. PLOS ONE| https://doi.org/10.1371/journal.pone.0227083 April 6, **2020**
10. Evaluation of 'TBDetect' sputum microscopy kit for improved detection of Mycobacterium tuberculosis: a multi-centric validation study. Anthwal, Divya; Gupta, Rakesh; Gomathi, Narayan Gomathi; Tripathy, Srikanth; Das, Dasarathi; Pati, Sanghamitra; Panwalkar, Nikita; Desikan, Prabha; bala, kiran; Singh, Urvashi; Bhalla, Manpreet; Singhal, Ritu; Verma, Ajoy; Khayyam, Khalid; Myneedu, Vittal; Sarin, Rohit; Sharma, Sandeep; Bansal, Avi; Gupta, Umesh; Patil, Shripad; Goyal, Abhinav; Gupta, Ashawant; Singh, Manjula; Gupta, Nalini; Haldar, Sagarika; Sivaswami Tyagi, Jaya. Clinical Microbiology and Infection, https://doi.org/10.1016/ j.cmi.2020.08.020.
11. Naik S K, Padhi A, Ganguli G, Sengupta S, Pati S, **Das D**, Sonawane A. Mice bone marrow Sca-1^{+}/$CD44^{+}$mesenchymal stem cells kill avirulent mycobacteria but not *Mycobacterium tuberculosis* through modulation of cathelicidin expression via p38 MAPK dependent pathway. Infect Immun. 2017 Sep 20; 85(10). pii: e00471-17. doi: 10.1128/IAI.00471-17.

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17. **Das D,** Dwibedi B, Kar S K. Transportation of sputum samples in cetylpyridinium chloride for drug resistance studies from remote areas of Odisha, India. Journal of Infection in Developing Countries 8 (2014) 1059-1062
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