

## **NASIR SALAM**

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Department of Biosciences  
Jamia Millia Islamia  
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### **ACADEMIC BACKGROUND**

- **PhD**, Immunology Group, International Centre for Genetic Engineering and Biotechnology (ICGEB), New Delhi, India, 2008
- **MSc**, Biotechnology, Aligarh Muslim University, India, 2003
- **BSc**, Industrial Chemistry, Aligarh Muslim University, India, 2001

### **PROFESSIONAL EXPERIENCE**

- **Associate Professor (2023–Present)**  
Department of Biosciences, Jamia Millia Islamia, New Delhi, India
- **Assistant Professor (2020–2023)**  
Department of Microbiology, Central University of Punjab, Bathinda, India
- **Assistant Professor (2013–2020)**  
Department of Pathology, College of Medicine, Imam University, Riyadh, Saudi Arabia
- **Research Associate (2010–2013)**  
National Institute of Immunology, New Delhi, India
- **Postdoctoral Fellow (2009–2010)**  
Department of Microbiology & Immunology, University of Michigan, Ann Arbor, MI, USA

### **RESEARCH INTERESTS**

- Immunology and epidemiology of infectious diseases

### **TEACHING RESPONSIBILITIES**

- PhD coursework
  - Advanced microbiology & immunology
- Postgraduate teaching
  - Immunology, biochemistry, medical microbiology, environmental microbiology, microbial biotechnology, evolution ecology & developmental biology
- Undergraduate teaching
  - Host–defense, principal of disease and hematology
- Tutor for Problem Based Learning sessions for medical students at Imam University

### **ADMINISTRATIVE RESPONSIBILITIES**

- Member, board of studies, Department of Microbiology, Central University of Punjab

- Convener, Academic and Administrative Committee, Department of Microbiology, Central University of Punjab
- Member, Minority cell, Central University of Punjab
- Member, Accreditation team, College of Medicine, Imam University
- Member, Course review committee, College of Medicine, Imam University

### **AWARDS/SCHOLARSHIPS**

- Certificate of commendation, 13<sup>th</sup> foundation day, Central University of Punjab, 2022
- Special research award, 12<sup>th</sup> foundation day, Central University of Punjab, 2021
- Publication research reward from Deanship of scientific research, Imam University
- Senior Research Fellow, ICGEB, 2005–2008
- Qualified Joint CSIR–UGC National Eligibility Test (NET) for JRF, 2003
- Qualified Graduate Aptitude Test of Engineering (GATE), 2003

### **PROFESSIONAL MEMBERSHIP**

- Member of American society for tropical medicine and hygiene (ASTMH)

### **EDITORIAL RESPONSIBILITIES**

- Associate editor for Frontiers in Public Health
- Associate editor for Frontiers in Medicine

### **REVIEWER**

- PLOS one
- BMC public health
- Journal of vector ecology
- Tropical biomedicine
- Parasite and vectors
- Journal of parasitic diseases

### **CONFERENCES AND WORKSHOPS ATTENDED**

- Online one week workshop on research methodology and MOOCs development & delivery organized by the UGC-HRDC, Jamia Millia Islamia, New Delhi (7<sup>th</sup>–12<sup>th</sup> March 2022)
- Fifth online one-month faculty induction program organized by the UGC-HRDC, Jamia Millia Islamia, New Delhi (10<sup>th</sup> August to 8<sup>th</sup> September 2021)
- Saudi international medical education conference 2018, Imam University, Riyadh, KSA (1<sup>st</sup>–5<sup>th</sup> April 2018)
- Problem based learning training course, Imam University, Riyadh, KSA (21<sup>st</sup>–22<sup>nd</sup> September 2014)
- MCQ construction workshop, Imam University, Riyadh, KSA (10<sup>th</sup> May 2014)
- Participated in immunology retreat at University of Michigan, Ann Arbor, MI, USA (19<sup>th</sup>–21<sup>st</sup> September 2009)
- Participated in 33rd annual conference of the Indian Immunology Society, IMMCON-2007, held at

AIIMS, New Delhi, India (28<sup>th</sup>–31<sup>st</sup> January 2007)

- Poster presentation at “International Symposium on New Frontiers in Tuberculosis Research” held at, ICGEB, New Delhi, India (4<sup>th</sup>–6<sup>th</sup> December 2006)
- Experimental approaches to studying host-pathogen interactions workshop held at ICGEB, New Delhi, India (30<sup>th</sup> October–10<sup>th</sup> November 2006)

### **SEMINARS/EXPERT LECTURES ORGANISED**

- Seminar-cum-discussion on “**Career options after a Master’s degree in Science**” program schedule: 11th September, 2021, 7:00 PM. Speakers - Swati Uppal, Developmental Editor, Wiley Publishing Company; Fathima Murshida, PhD Student, Department of Biochemistry, University of Bristol
- Seminar-cum-discussion on “**Exploring Career options beyond academia**” program schedule: 26th December, 2021, 11:00 AM. Speakers - Dr. Snigdha Gupta, Associate Director, Prescient Healthcare Group; Dr. Ritutama Ghosh, Process R&D Scientist, Dr. Reddy’s Laboratories

### **RESEARCH PROJECTS**

- Research seed money grant (2021–2023) titled “**Expression and characterization of ORF6 protein from SARS-CoV-2 in mammalian cell lines**” awarded by Central University of Punjab, Bathinda
- Deanship of scientific research grant (2019–2020) titled “**Gene expression analysis of cord blood derived stem cells**” awarded by Imam University, Riyadh

### **RESEARCH GUIDANCE**

- Guided 7 Master level project dissertation

### **SELECTED PUBLICATIONS**

**Total citations–24065**

**h-Index–31**

**i10 Index–34**

1. Balodhi, A., Jain, K., Gupta, P., Deeba, F., & Salam, N. (2023). A meta-analysis on the prevalence of Taenia solium and Taenia saginata infections in India. **Transactions of the Royal Society of Tropical Medicine and Hygiene**, trad022
2. Jain, K., Gupta, P., Balodhi, A., Deeba, F., & Salam, N. (2022). Prevalence of pregnancy associated malaria in India. **Frontiers in Global Women’s Health** 3, 832880.
3. Gupta, P., Singh, K. K., Balodhi, A., Jain, K., Deeba, F., & Salam, N. (2022). Prevalence of Amoebiasis and Associated Complications in India: A Systematic Review. **Acta parasitologica** 67(2), 947–961
4. Tyrovolas, S., Stergachis, A., Krish, V. S., Chang, A....Salam, N., Kassebaum, N. J., GBD 2019 Ageing Collaborators (2022). Global, regional, and national burden of diseases and injuries for adults 70 years and older: systematic analysis for the Global Burden of Disease 2019 Study. **British Medical Journal (Clinical research ed.)**, 376, e068208.

5. Kinyoki D, Osgood-Zimmerman AE, Bhattacharjee NV...**Nasir Salam**, Kassebaum NJ, Hay SI. Anemia prevalence in women of reproductive age in low- and middle-income countries between 2000 and 2018. **Nature Medicine**. 2021 Oct;27(10):1761-1782
6. Ledesma, J. R., Ma, J., Vongpradith, A., Maddison, E. R., Novotney, A., Biehl, M. H., ...**Nasir Salam**, Kendrick, P. J. (2021). Global, regional, and national sex differences in the global burden of tuberculosis by HIV status, 1990–2019: results from the Global Burden of Disease Study 2019. **The Lancet Infectious Diseases**. 2021 Sep 23:S1473-3099(21)00449-7
7. Natalie C Galles, Patrick Y Liu, Rachel L Updike, Nancy Fullman...**Nasir Salam**, Jonathan F Mosser. Measuring routine childhood vaccination coverage in 204 countries and territories, 1980-2019: a systematic analysis for the Global Burden of Disease Study 2020, Release 1. **Lancet**. Aug 7;398(10299):503-521 (2021)
8. Alyssa N. Sbarra, Sam Rolfe, Jason Q. Nguyen, Lucas Earl...**Nasir Salam**, Jonathan F Mosser. Mapping routine measles vaccination in low- and middle-income countries. **Nature** Jan;589(7842):415-419 (2021)
9. Christopher JL Murray, Aleksandr Y Aravkin, Peng Zheng, Cristiana Abbafati, Kaja M Abbas, Mohsen Abbasi-Kangevari...**Nasir Salam**, Stephen S Lim. Global burden of 87 risk factors in 204 countries and territories, 1990–2019: a systematic analysis for the Global Burden of Disease Study 2019 **Lancet**. Oct; 396 (10258): 1223-1249 (2020)
10. Aniruddha Deshpande, Molly K Miller-Petrie, Paulina A Lindstedt, Mathew M Baumann...**Nasir Salam**, Robert C Reiner Jr. Mapping geographical inequalities in access to drinking water and sanitation facilities in low-income and middle-income countries, 2000–17. **Lancet Global Health**. Sep;8(9): e1162 (2020)
11. Kirsten E Wiens, Paulina A Lindstedt, Brigette F Blacker, Kimberly B Johnson...**Nasir Salam**, Robert C Reiner Jr Mapping geographical inequalities in oral rehydration therapy coverage in low-income and middle-income countries, 2000–17. **Lancet Global Health**. 2020; 8: e1038–60
12. Stefanos Tyrovolas, Charbel El Bcheraoui, Suliman A Alghnam, Khalid F Alhabib, Majid Abdulrahman Hamad Almadi, Rajaa M Al-Raddadi, Neeraj Bedi, Maha El Tantawi, Varsha Sarah Krish, Ziad A Memish, Yousef Mohammad, Alex Molassiotis, Demosthenes Panagiotakos, **Nasir Salam**, Badr Hasan Sobaih, Ali H Mokdad. The burden of disease in Saudi Arabia 1990–2017: results from the Global Burden of Disease Study 2017. **The Lancet Planetary Health** 4 (5), e195-e208 (2020).
13. Robert C Reiner Jr, Kirsten E Wiens, Aniruddha Deshpande, Mathew M Baumann, Paulina A Lindstedt...**Nasir Salam**, Simon I Hay. Mapping geographical inequalities in childhood diarrhoeal morbidity and mortality in low-income and middle-income countries, 2000–17: analysis for the Global Burden of Disease Study 2017. **Lancet** (2020).395 (10239): 1779-1801.
14. Damaris K. Kinyoki, Jennifer M. ross, Alice Lazzar-atwood, Sandra B. Munro, Lauren e. Schaeffer...**Nasir Salam**, Simon I Hay. Mapping local patterns of childhood overweight and wasting

in low- and middle-income countries between 2000 and 2017. **Nature Medicine** 2020; 26(5): 750–759.

15. Deeba F, Haider MSH, Ahmed A, Tazeen A, Faizan MI, **Salam N**, Hussain T, Alamery SF, Parveen S. Global transmission and evolutionary dynamics of the Chikungunya virus. **Epidemiology & Infection.** 2020 Feb 19:1-30.
16. Damaris K. Kinyoki, Aaron E. Osgood-Zimmerman, Brandon V. Pickering, Lauren E. Schaeffer, Laurie B. Marczak...**Nasir Salam**, Simon I Hay. Mapping child growth failure across low- and middle-income countries. **Nature** 577, 231-234 (2020).
17. Nicholas Graetz, Lauren Woyczynski, Katherine F. Wilson, Jason B. Hall, Natalia V. Bhattacharjee...**Nasir Salam**, Simon I Hay. Mapping disparities in education across low- and middle-income countries. **Nature** 577, 235-238 (2020).
18. Roy Burstein, Nathaniel J. Henry, Michael I. collison, Laurie B. Marczak, Amber Sligar...**Nasir Salam**, Simon I Hay. Mapping 123 million neonatal, infant and child deaths between 2000 and 2017. **Nature** 574, 353-358 (2019).
19. **Nasir Salam**, Farah Deeba, Faizan Qadir, Fras AL-Hijli, Yaser Naif Al-Otaibi. Analysis of correlation between Google search trends and Dengue outbreaks from India. **Journal of Clinical and Diagnostic Research** 2019 Nov, Vol-13(11): 13-15.
20. **Nasir Salam**, Mohammad Fareed. Soil transmitted helminth infections and its association with haemoglobin levels in India: A meta-analysis. **Journal of Clinical and Diagnostic Research.** 2019, 13(6): 12-16.
21. Daniel Dicker, Grant Nguyen, Degu Abate, Kalkidan Hassen Abate, Solomon M Abay...**Nasir Salam**, Christopher J L Murray. Global, regional, and national age-sex-specific mortality and life expectancy, 1950-2017: a systematic analysis for the Global Burden of Disease Study 2017. **Lancet.** 2018; 392 (10159): 1684-1735.
22. Gregory A Roth, Degu Abate, Kalkidan Hassen Abate, Solomon M Abay, Cristiana Abbafati, Nooshin Abbasi...**Nasir Salam**, Christopher J L Murray. Global, regional, and national age-sex-specific mortality for 282 causes of death in 195 countries and territories, 1980-2017: a systematic analysis for the Global Burden of Disease Study 2017. **Lancet.** 2018; 392 (10159): 1736-1788.
23. Spencer L James, Degu Abate, Kalkidan Hassen Abate, Solomon M Abay, Cristiana Abbafati, Nooshin Abbasi...**Nasir Salam**, Christopher J L Murray. GBD 2017 Disease and Injury Incidence and Prevalence Collaborators. Global, regional, and national incidence, prevalence, and years lived with disability for 354 diseases and injuries for 195 countries and territories, 1990-2017: a systematic analysis for the Global Burden of Disease Study 2017 **Lancet.** 2018; 392 (10159): 1789-1858.
24. Hmwe Hmwe Kyu, Degu Abate, Kalkidan Hassen Abate, Solomon M Abay, Cristiana Abbafati, Nooshin Abbasi...**Nasir Salam**, Christopher J L Murray. Global, regional, and national disability-adjusted life-years (DALYs) for 359 diseases and injuries and healthy life expectancy (HALE) for 195

countries and territories, 1990-2017: a systematic analysis for the Global Burden of Disease Study 2017. **Lancet.** 2018; 392 (10159): 1859-1922.

25. Jeffrey D Stanaway, Ashkan Afshin, Emmanuela Gakidou,<sup>[1]</sup>Stephen S Lim, Degu Abate, Kalkidan Hassen Abate...**Nasir Salam**, Christopher J L Murray. Global, regional, and national comparative risk assessment of 84 behavioural, environmental and occupational, and metabolic risks or clusters of risks for 195 countries and territories, 1990-2017: a systematic analysis for the Global Burden of Disease Study 2017. **Lancet.** 2018; 392 (10159): 1923-1994.
26. Christopher J L Murray, Charlton S K H Callender, Xie Rachel Kulikoff, Vinay Srinivasan, Degu Abate, Kalkidan Hassen Abate.... **Nasir Salam**, Stephen S Lim. Population and fertility by age and sex for 195 countries and territories, 1950-2017: a systematic analysis for the Global Burden of Disease Study 2017. **Lancet.** 2018; 392 (10159): 1995-2051.
27. Rafael Lozano, Nancy Fullman, Degu Abate, Solomon M Abay, Cristiana Abbafati, Nooshin Abbasi...**Nasir Salam**, Christopher J L Murray. Measuring progress from 1990 to 2017 and projecting attainment to 2030 of the health-related Sustainable Development Goals for 195 countries and territories: a systematic analysis for the Global Burden of Disease Study 2017. **Lancet.** 2018; 392 (10159): 2091-2138.
28. **Nasir Salam**, Shoeb Mustafa, Abdul Hafiz, Anis Ahmad Chaudhary, Farah Deeba, Shama Parveen. Global prevalence and distribution of cases of coinfection of Malaria, Dengue and Chikungunya: A systematic review. **BMC Public Health** (2018) 18:710.
29. **Nasir Salam**, Saud Azam. Prevalence and distribution of soil-transmitted helminth infections in India. **BMC Public Health** 2017 Feb 16;17(1):201.
30. Waleed M. Al-Shaqha, Mohsin Khan, **Nasir Salam**, Arezki Azzi and Anis Ahmad Chaudhary. Anti-diabetic potential of *Catharanthus roseus* Linn. and its effect on the glucose transport gene (GLUT-2 and GLUT-4) in streptozotocin induced diabetic wistar rats. **BMC Complementary and Alternative Medicine.** 2015 Oct 21;15(1):379.
31. **Nasir Salam**, Waleed Mohammad Al-Shaqha, Arezki Azzi. Leishmaniasis in the Middle East: Incidence and epidemiology. **PLoS Neglected Tropical Diseases** 8(10): e3208. October 2, 2014.
32. Syed Monem Rizvi\*, **Nasir Salam\***, Ying Qi\*, Mary Carrington, Jay H. Bream, Priya Duggal, Shehnaz K. Hussain, Jeremy Martinson, Steven Wolinsky, Mary Carrington and Malini Raghavan. Distinct assembly profiles of HLA-B molecules. **Journal of Immunology.** 2014 Jun 1; 192(11): 4967-76. \*Equal contributors.
33. **Nasir Salam**, Sanket Rane, Rituparna Das, Matthew Faulkner, Rupali Gund, Usha Kandpal, Virginia Lewis, Hamid Mattoo, Savit Prabhu, Vidya Ranganathan, Jeannine Durdik, Anna George, Satyajit Rath and Vineeta Bal. T Cell Ageing: Effects of Age on Development, Survival and Function. **Indian Journal of Medical Research,** 138, November 2013, 595-608.

34. Shashank Gupta, **Nasir Salam**, Varsha Srivastava, Rupak Singla, Digamber Behera, Khalid U. Khayyam, Reshma Korde, Pawan Malhotra, Rajiv Saxena and Krishnamurthy Natarajan. Voltage gated calcium channels negatively regulate protective immunity to Mycobacterium tuberculosis. **PLoS ONE**. 2009; 4(4): e5305.
35. Atif, S. M., **Salam, N.**, Ahmad, N., Hasan, I. M., Jamal, H. S., Sudhanshu, A., Azevedo, V. and Owais, M. Sperm membrane lipid liposomes can evoke an effective immune response against encapsulated antigen in BALB/c mice. **Vaccine**. 2008 Oct 29; 26(46): 5874-82.
36. **Nasir Salam**, Shashank Gupta, Sachin Sharma, Shweta Pahujani, Aprajita Sinha, Rajiv K. Saxena and Krishnamurthy Natarajan. Protective immunity to Mycobacterium tuberculosis Infection by Chemokine and Cytokine Conditioned Culture Filtrate Protein-10 Differentiated Dendritic Cells. **PLoS ONE**. 2008 Aug 6; 3(8): e2869.
37. Aprajita Sinha, **Nasir Salam**, Shashank Gupta and Krishnamurthy Natarajan. Mycobacterium tuberculosis and dendritic cells: Recognition, Activation and Functional Implications. **Indian Journal of Biochemistry & Biophysics** Vol. 44, October 2007, pp. 279-288.

#### **BOOK CHAPTER**

1. Global epidemiology and transmission of COVID-19. Md. Wasim khan, Sajda Ara, Farah Deeba, Ayesha Tazeen, **Nasir Salam**, Irshad H Naqvi, Shama Parveen. The COVID-19 Pandemic: Epidemiology, Molecular Biology and Therapy (2020) Bentham Science publishers ISBN–978–981–14–8185–7