

## **CURRICULUM VITAE**

### **Part I General Information**

**Date Prepared:** Aug 30<sup>th</sup> 2023

**Name:** Amit Awasthi

**Office Address:** **Immuno-biology laboratory**, Science Biotech cluster, 3<sup>rd</sup> Milestone  
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[awasthi005@gmail.com](mailto:awasthi005@gmail.com)

**Date of Birth:** 3<sup>rd</sup> July 1977

**Place of Birth:** Bhind, Madhya Pradesh, INDIA

**Citation index:** Total citation: **13599**  
<https://scholar.google.co.in/citations?user=AKaBq0cAAAAJ&hl=en>

### **Education:**

<b>Year</b>	<b>Degree</b>	<b>Institution</b>
1997	B.Sc. in Biology	Jiwaji University, Gwalior, India
1999	M.Sc. in Biotechnology	Jiwaji University, Gwalior, India
2006	Ph.D. in Biotechnology/Immunology	National Centre for Cell Science, Pune, India

### **Postdoctoral Training:**

2005-2009 Research Fellow	Prof. Vijay K Kuchroo's Laboratory Center for Neurologic Diseases Brigham and Women's Hospital Harvard Medical School Boston, MA, USA
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### **Academic Appointments:**

Dec. 2022-till date	Senior Professor	<b>Translational Health Science &amp; Technology Institute, Faridabad, India</b>
2022-Nov. 2022	Professor	<b>Translational Health Science &amp; Technology Institute, Faridabad, India</b>
2017-2021	Associate Professor	<b>Translational Health Science &amp; Technology Institute, Faridabad, India</b>
2012-2017	Assistant Professor	<b>Translational Health Science &amp; Technology Institute, Faridabad, India</b>
2009-2012	Junior Faculty	<b>Harvard Medical School, Boston, USA</b>

### **Visiting Scientist:**

May-Aug, 2016	Visiting Scientist	<b>Harvard Medical School, Boston, MA</b>
Aug 2015	Visiting Scientist	<b>Harvard Medical School, Boston, MA</b>
April-May, 2014	Visiting Scientist	<b>Harvard Medical School, Boston, MA</b>

### **Editorial Boards:**

2004	Ad Hoc Reviewer	International Immunopharmacology.
2005	Editor of student News Letter	Indian Immunology Society.

2009	Ad Hoc Reviewer	Arthritis & Rheumatism
<b>2009-present</b>	Ad Hoc Reviewer	Plos One
<b>2015-present</b>	Ad Hoc Reviewer	Scientific Reports (Nature publishing group)
	Ad Hoc Reviewer	International Immunology
	Ad Hoc Reviewer	Immuno-biology
	Ad Hoc Reviewer	Oncology Reports
	Ad Hoc Reviewer	Immunologic Res
<b>2016-present</b>	<b>Review Editor</b>	<b>Frontiers in Immunology</b>
<b>2017-Present</b>	<b>Editorial Board Member</b>	<b>Journal of Gastroenterology Forecast</b>
<b>2019-2022</b>	<b>Associate Editor</b>	<b>Immunology, Journal of British Society for Immunology</b>
<b>2019-present</b>	<b>Review Editor</b>	<b>Frontiers in pharmacology</b>

#### **Professional Societies:**

<b>2004–Present</b>	Indian Immunology Society Member (IIS)
<b>2015-Present</b>	American Association of Immunologist (AAI)
<b>2017-2018</b>	Elected executive council member of Indian Immunology Society Member (IIS)
<b>2017-present</b>	Nominated member of Molecular Immunology Forum (MIF)
<b>2018-present</b>	Founding and life member of Immuno-Oncology Society of India
<b>2018-Present</b>	Secretary, Indian Immunology Society (IIS)
<b>2018-2021</b>	Council Member of Federation of Immunological Societies of Asia-Oceania (FMISA)
<b>2019-2022</b>	Member of British Society for Immunology
<b>2018-2021</b>	Member of Steering Committee, Federation of Clinical Immunology Societies (FOCIS)
<b>2019-present</b>	Life member of Translational Research Society.

#### **Institutional responsibilities at THSTI:**

##### **2012-present:**

1. Member Secretary Institutional Animal Ethics Committee (2013-)
2. Member Institutional Purchase Committee (2017-2019)
3. Member Institutional Extramural Link Committee
4. Member of Institutional Academic Committee (2017-Till date)
5. Chair of Institutional Sports Committee (2017-)
6. Chair of Institutional Purchase Committee (2019-)
7. THSTI Small Animal Facility In-Charge (2015-2020)
8. THSTI Immunology Core, In-Charge (2020-)
9. Chairperson of Purchase Committee(2022- Till date)
10. Chairperson of Institutional Animal ethics Committee(2022-Till date)
11. Chairperson THSTI Sports Committee(2022-Till date)

#### **Institutional Responsibility outside Institute:**

1. Scientific Advisor Committee Member of National Institute of Research in Tribal Health (**SAC Member of ICMR-NIRTH**)
2. Research Council Member of Norther East Institute of Science & Technology (**Research council Member of CSIR-NEIST**)

#### **Award and Honors:**

<b>2001</b>	Junior Research Fellowship, Department of Biotechnology, Government of India.
<b>2003</b>	Senior Research Fellowship, Council of Scientific & Industrial Research Government of India.
<b>2004</b>	<b>G.P. Talvar Young Scientist Award of Indian Immunology Society, India.</b>

2007	Second place (Trophy and cash prize) at 2 <sup>nd</sup> Abstract Competition at Medimmune, Inc. Gaithersburg, MD, USA.
2008	Tykeson Fellows Conference of Multiple Sclerosis Society, Nov 4-7, 2008 Chicago, USA.
2010	Tykeson Fellows Conference of Multiple Sclerosis Society, June 4-7, 2010 San Antonio, USA.
2007–2010	National Multiple Sclerosis Society Postdoctoral Fellowship, National Multiple Sclerosis Society, New York, USA
2009	<b>Travel Award, Federation of Clinical Immunology Society (Focis)</b>
2011	Research pilot grant from Crohn's and Colitis Foundation of America, New York, USA
2011	<b>Ramalingaswami Fellowship from Department of Biotechnology, India</b>
2011	<b>Innovative Young Biotechnologist Award</b> from Department of Biotechnology, Govt. of India.
2012	<b>Young scientist platinum jubilee award in biological sciences, National Academy of Sciences of India.</b>
2013	Attended annual meeting of American Association of Immunologist, Hawaii, USA
2015	Poster presented at Federation of Clinical Immunologist Society (Focis) at San Diego, USA
2015	Poster presented at 4 <sup>th</sup> European Immunology Congress, Vienna, Austria
2016	<b>AAI Early Career Faculty Travel Grant</b> for attending AAI annual meeting at Seattle, Washington
2016	<b>AAI Travel Grant for the International Congress of Immunology 2016 (ICI 2016), Melbourne Australia</b>
2017	<b>G.P. Talwar Mid Career Scientist Award of Indian Immunology Society India</b>
2017	<b>AAI Early Career Faculty Travel Grant</b> for attending annual meeting of American Association of Immunologists at Washington D.C.
2018	<b>Early Career Award from Dutch Society of Immunology, Amsterdam for attending European Congress of Immunology.</b>
2018	<b>Travel Award from American Association of Immunologists</b> for attend European Congress of Immunology at Amsterdam from 2 <sup>nd</sup> – 5 <sup>th</sup> September 2018
2019	<b>Travel Award from 2<sup>nd</sup> Human and Translational Immunology Conference (Co-organised by Nature Immunology),</b> at Kos Greece from May 29 <sup>th</sup> – June 3 <sup>rd</sup> 2019.
2020	<b>Travel Award from Gordon Research Conference 2020</b> to attend “Food Allergy, Gordon Research Conference (Jan 5 <sup>th</sup> – 10 <sup>th</sup> , 2020), Ventura Beach Marriott, Ventura CA USA
2021	<b>GN Ramachandran National Bioscience Award for Career Development,</b> Department of Biotechnology, Govt. of India.
2021	Most Impact research group of THSTI.
2022	Best publication in the year of 2022 at THSTI.
2022	<b>CDRI Award in Life Science category for Drug Discovery.</b>
2022	<b>Elected member of Guha Research Conference (GRC)-2021</b>
2022	<b>Excellence in Research on Immune-Therapies at the 49<sup>th</sup> Annual Conference of Indian Immunological Society, PGIMER, Chandigarh.</b>
2023	Travel Award received for attending “3rd Human & Translational Immunology Conference”, to be held in October 23 – October 28, 2023 on Rhodes island, Greece.
2023	<b>Travel Award received from IUIS International Congress of Immunology, Cape Town</b> to be held 27 November – 2 December 2023 at the Cape Town International Convention Centre (CTICC).

## **Part II: Research Contributions**

### **Major Research Interests:**

1. Immune regulation and interplay between effector and regulatory T cells in autoimmunity and infection

2. Understanding the role various subsets of Th cells in anti-tumor immunity and role of check point inhibitors in enhancing anti-tumor immune Th response
3. Understand the pathophysiology and vaccine development of COVID19 and Flu.

## **2. Narrative description of research and significant contribution:**

Dr. Amit Awasthi, currently heading Immuno-Biology & Immunology Core laboratory, is a Senior Professor at THSTI, Faridabad. He is an internationally renowned immunologist with significant research contribution in the field of T cell biology in inflammatory and infectious diseases. He has published > 70 publications with several seminal papers, in the field of Immunology, in prestigious international journals such as Nature, Nature Immunology, Nature Communications, Science Advances, and Lancet Infectious Diseases with an h-index of 31 and >13000 citations. He has been conferred with many prestigious awards including '**Innovative Young Biotechnologist Award**' and '**GN Ramachandran National Bioscience Award**' presented by Department of Biotechnology, '**CDRI Award**' for excellence in **Drug Discovery** research presented by CSIR-Central Drug Research Institute, '**GP Talwar Mid Career Award**' by Indian Immunology Society, and '**Young scientist platinum jubilee award**' by National Academy of Sciences of India. He is the Secretary-General of the 'Indian Immunology Society, a founding member immune-oncology Society of India, and an Executive Council Member of Federation of Immunological Societies of Asia-Oceania (FIMSA).

Amit is working in THSTI since 2012 in the field of T cell biology in inflammatory diseases including bowel disease (IBD). He had secured prestigious India-Alliance intermediate fellowship. Amit significantly contributed in understanding the biology of IL-9-producing helper T cells subsets (Th9) in tissue inflammation of autoimmune diseases, allergic inflammation and extracellular infections. His seminal work in discovering and identifications of transcriptional landscape of Th9 cells (**Nature Immunology 2008; Nature Communications 2017; Front Immunol. 2019; Scientific Reports 2020; Nature Communications 2021**) were well recognised globally. Amit has shown that ATP-triggers Th9 cell differentiation via mTOR-HIF1- $\alpha$  axis. Th9 cells shown to be crucial in inducing anti-tumor functions. Amit has further identified that PP2A, a phosphatase, is essential for the generation and anti-tumour functions of Th9 cells. Last year, his group has identified that Areg-EGFR activation-induced HIF-1  $\alpha$  is essential for the generation and functions of Th9 cells.

His laboratory works on crosstalk of between immune and cancer cells to determine the factors that are critical in eradication of tumour. He recently identified as to how 'Salt' activate immune system to and irradiate tumour (**Science Advances 2021**). His work on 'Salt and tumour' was highlighted in many renowned science magazine and news internationally. In addition, Amit has contributed significantly in functions and the transcriptional signature of pathogenic and non-pathogenic Th17 cells in autoimmune disease condition including IBD (**Nature Immunology 2012, Nature 2013, Nature Immunology 2017, Cell Reps 2020, Frontiers in Immunology 2016, Scientific Reports 2017, J Leukoc Biol 2016, Cell Reps 2019**).

Amit has contributed significantly in Covid19 pandemic by establishing 'cellular immunology' (**Lancet Infectious Diseases, 2022**) and animal models platform. In fact, Amit has shown, for the first time, that Covid19 causes cardiovascular dysfunction in hamster model (**Elife 2022**). His laboratory tested preclinical efficacy of Covid19 vaccine candidates including **ZycovD**, first DNA vaccine, and **Corbevax**, a subunit vaccine. His laboratory provided cellular immune response data for clinical trials of **Sputnik V** and **Corbevax**. These vaccines, subsequently, given emergency use authorisation by DCGI.

## **3. Research funding information:**

### **Present Research Support:**

<b>Sr. No</b>	<b>Title of Project (With project file/ref.no)</b>	<b>Source of Funds</b>	<b>Total budget sanctioned</b>	<b>Start Date</b>	<b>End Date</b>
1	"Design, Validation and Development of novel peptidomimetic therapeutics targeting SARS-Cov2 replication". File no-IPA/2020/000285	SERB-DST	11516440.00	26/10/2020	25/10/2023

2	"Development and Evaluation of diagnostic Candidate Vaccines for emerging SARS-Coronavirus-2(DEC-VAC SARS) File no-IPA/2020/000070	SERB-DST	18413480.00	18/11/2020	17/11/2023
3	INCENTIVE-"Indo-European Consortium for Next Generation Influenza Vaccine Innovation". File no-BT/IN/EU-INF/16/AP/19-20	DBT	424222198.00	29/12/2020	28/12/2025
4	ENDFLU-"Evaluation of Rationally Designed Influenza Vaccine" File no-BT/IN/EU-INF/15RV/19-20	DBT	274055952.00	31/12/2020	30/12/2025
5	"Towards an mRNA vaccine platform" File no-File no-ILSF/GRANTS2021- 22/001/28062021	IGNITE Life Science, IISC Bangalor	4054820.00	28/06/2021	27/06/2024
6	Understanding the generation, regulation and function of Th9 cells in inflammatory diseases. File no-BT/HRD/NBA-NWB/39/2020-21	NBA-DBT	1700000.00	18/08/2021	17/08/2024
7	Evaluation of the magnitude, kinetics and longevity of humoral and cellular immune responses to SARS-Cov2 variants in vaccinated and naturally infected individuals. File no-CTU/Cohort study/17/10/22/2021/ECD	ICMR	5698372.00	01/02/2022	31/01/2023
8	Multi-epitope, Nanoparticle based broadly protective Beta coronavirus candidate vaccine	THSTI PANACI A biotech	970540000.00	24/02/2022	24/02/2026
9	Identification and characterization of small molecules to block PD1/PDL1 pathway in immunotherapy. File no-BT/PR28133/NER/95/1383/2018	DBT	6335520.00	30/03/2022	29/03/2025
10	SARS-CoV-2 animal challenge model for pre-clinical and translational research. REOI-2- BT/CS0054/05/21	BIRAC	94770000.00	08/04/2022	07/04/2023 Extension requested
11	SARS-CoV2 anti-viral activity testing platform to support the preclinical development of new chemical entities, and natural products from Academia, Start-ups and Pharma companies. Ref. No: BT/CTH0004/CTH/01/20	BIRAC	47854000.00	05/09/2022	04/09/2024
12	Exploration of Immunopathogenesis of extraintestinal organ involvement in patients with Celiac disease. Ref. no- 61/08/2022-IMM/BMS	ICMR	7260000.00	18/01/2023	17/01/2026

**Past Research Support:**

Sr. No	Title of Project (with project file/ref.no)	Source of Funds	Total budget sanctioned	Start Date	End Date
1	"IL-27 dependent regulation of TH 17 and regulatory cells". File no.- BT/05/IYBA/2011	IYBA-DBT	3881000.00	03/07/2012	31/03/2017
2	"Interplay between effector and regulatory T cells in the pathogenesis of intestinal inflammation". File no.- IA/I/12/1/500524	DBT-Wellcome Trust	32503526.00	12/07/2012	31/08/2017
3	"Vitamin A is the "Microenvironmental cue" for triggering disease activity in patients with Inflammatory Bowel disease". File no.-BT/PR4763/MED/30/895/2012	DBT	82380000.00	05/03/2013	31/03/2017

4	"Human Gastrointestinal Immunology Translational Program". File no.- BT/PR14929/MED/15/67/2010	DBT	14458000.00	16/12/2014	18/03/2018
5	"ATX axis in satellite cells and muscle repair". File no.-BT/PR13045/BRB/10/1461/2015	DBT	150000.00	10/03/2017	09/03/2020
6	Sub-Network 2: Preclinical and pharmacokinetics evaluation of selected AYUSH herbal extracts/formulations for mitigating SARS-CoV-2 Virus and COVID-19 disease. File no-BT/PR40378/TRM/120/486/2020	DBT & Min. of Ayush.	49685000.00	24/08/2020	31/03/2023
7	"Understanding the transcriptional landscape of IL-10-producing anti-inflammatory T cells in IBD". File no- CRG/2018/002653	SERB-DST	5701600.00	19/12/2019	18/06/2023
8	Cellular Assay platform for determining the immunogenicity of vaccine candidates. File no-BT/CS0010/CS/02/20	BIRAC	48601200.00	22/03/2021	22/06/2023

### Invited Presentations:

- 2005 Oral presentation at Department of Pathology, University of Chicago (May 23, 2005) on **"Biology and cell signaling in parasitic infection"**.
- 2008 Invited speaker at Annual meeting of Indian Immunology Society, Bhubaneshwar, India.
- 2009 **Young Researchers Travel Award Federation of Clinical Immunology Societies.** Focis, San Francisco, USA.
- 2012 Invited speaker and panelist, Young Investigator Meeting, Boston, USA
- 2012 Invited talk at Children Hospital and Harvard Medical School, Boston, MA, USA
- 2012 Special lecture at 4<sup>th</sup> Women Scientist Program at C. R. Rao AIMCIS, Hyderabad
- 2013 Oral presentation at Harvard-AIIMS GI Immunology Conference, New Delhi
- 2013 Plenary talk at IBD conference at G.B. Pant Hospital, New Delhi
- 2013 Invited presentation at Indian Institute of Science, Education and Research (IISER), Bhopal.
- 2014 Invited as Young Investigator at 6<sup>th</sup> Young Investigator Meeting at Hyderabad.
- May 13<sup>th</sup>, 2014 Invited speaker at **Massachusetts General Hospital, Harvard Medical School** "Induction and development of pathogenic Th17 cells and their regulation"
- May 15<sup>th</sup>, 2014 Invited speaker at **Oakland University, Michigan** "Induction and development of pathogenic Th17 cells and their regulation"
- March 27<sup>th</sup>, 2015 Invited speaker at Biosparks, School of Life Sciences, **Jawaharlal Nehru University (JNU), New Delhi**
- June 24<sup>th</sup> -27<sup>th</sup> Poster presentation at Focis 2015 at San Diego California USA
- Sep 6<sup>th</sup>- 9<sup>th</sup> 2015 Poster presentation at European Congress of Immunology, Vienna, Austria
- Oct. 9<sup>th</sup> – 11<sup>th</sup>, 2015, Invited lead talk at annual meeting of **Indian Immunology Society, Patna, India**
- Oct 14<sup>th</sup>, 2015, Invited as an International speaker at **Academy of Immunology and Microbiology (AIM), IBS, South Korea**
- 13<sup>th</sup> – 17<sup>th</sup> May, 2016 **Poster presentation** at annual meeting of American Association of Immunologists at **Seattle, Washington, USA**
- 1<sup>st</sup> Aug, 2016. Invited speaker at **Emory Vaccine Center, Atlanta USA** "Understanding transcriptional regulation of IL-9 in Th9 and Th17 cells in health and diseases"
- 2<sup>nd</sup> Aug, 2016. Invited speaker at **Nebraska Medical Center, Omaha, USA.** "Understanding transcriptional regulation of IL-9 in Th9 and Th17 cells in health and diseases."
- 21<sup>st</sup> – 26<sup>th</sup> Aug, 2016 **Oral Presentation** at International Congress of Immunology, **Melbourne, Australia.**

22. 12<sup>th</sup> – 16<sup>th</sup> May, 2017 **Poster presentation at** annual meeting of American Association of Immunologists at **Washington D.C., USA**
23. 26<sup>th</sup> – 30<sup>th</sup> June, 2017. Invited speaker UGC KIIT/KIMS faculty development program KIIT University, Bhubaneswar.
24. July 20<sup>th</sup>, 2017, Invited speaker at School of Biomedical Sciences, **The Chinese University of Hong Kong, Shatin, N. T., Hong Kong.**
25. Sep 4<sup>th</sup>, 2017, Invited talk at Indian Institute of Sciences, Bengaluru.
26. October 12<sup>th</sup> – 13<sup>th</sup>, 2017, Invited speaker at National Workshop on Advancement in Immunology, Vallabhbhai Patel Chest Institute, University of Delhi
27. Nov 16<sup>th</sup> – 19<sup>th</sup>, 2017, Invited speaker at 86<sup>th</sup> Congress of Society of Biological Chemists (SBC2017), JNU New Delhi.
28. Dec 14<sup>th</sup> – 15<sup>th</sup>, 2017, Invited Key Note Lecture at 13<sup>th</sup> **National Research Scholars Meet 2017, ACTREC, Tata Memorial Centre, Mumbai.**
29. Dec 15-16, 2017, Invited talk at Immunocon, **44<sup>th</sup> annual meeting of Indian Immunology Society, Nirma University, Ahmadabad.**
30. Jan 23<sup>rd</sup>, 2018, Invited speaker at BioSpark, Jawaharlal Lal Nehru University, New Delhi.
31. 26<sup>th</sup> June, 2018. Invited speaker UGC KIIT/KIMS faculty development program KIIT University, Bhubaneswar.
32. 10<sup>th</sup> – 11<sup>th</sup> August, 2018, Invited speaker at National Seminar on Mechanisms of Immune responses at Banaras Hindu University, India.
33. August 18<sup>th</sup> – 19<sup>th</sup>, 2018, Invited speaker at SIRCON 2018 (Society if Inflammation research), Bengaluru, India
32. September 2<sup>nd</sup> – 5<sup>th</sup>, 2018, Oral presentation at **European Congress of Immunology, Amsterdam.**
34. 24<sup>th</sup> to 27<sup>th</sup> October 2018, invited speaker at 45<sup>th</sup> **National Conference of the ACBICON2018**, Kala Academy, Goa, India
35. 10<sup>th</sup> – 13<sup>th</sup> November, 2018, Oral presentation at **The Federation of Immunological Societies of Asia-Oceania Congress (FIMSA 2018)**, Bangkok, Thailand.
36. 28<sup>th</sup> November – 2<sup>nd</sup> December, 2018, Oral presentation at **42nd Annual Conference of Indian Association of Medical Microbiologists (MICROCON2018)**
37. November 26<sup>th</sup> – 30<sup>th</sup>, 2018, Invited speaker at **INSPIRE** programme, Department of Science & Technology, Govt. of India at AMITY University, Jaipur
38. December 16<sup>th</sup> – 18<sup>th</sup>, 2018, Invited speaker at Bioprocessing India, Indian Institute of Technology, New Delhi.
39. January 12<sup>th</sup>, 2019, Invited speaker at Cancer Immunotherapy workshop, Delhi Tumour Board, Pride Plaza, Aerocity, New Delhi
40. January 30<sup>th</sup>, 2019, Invited Speaker at Sun Pharma, New Delhi.
41. February 7<sup>th</sup> – 9<sup>th</sup>, 2019, Speaker at Molecular Immunology Forum at Hyderabad, India
42. March 1<sup>st</sup> – 3<sup>rd</sup>, 2019, Invited Speaker at International Symposium on Frontiers in development and molecular medicine: model to insight, IICB Kolkata.
43. March 8<sup>th</sup> – 10<sup>th</sup>, 2019, Invited Speaker at International Conference on Molecular Basis of Diseases and Therapeutics, Central University of Rajasthan, Kishangarh, Ajmer, India
44. March 15<sup>th</sup> – 17<sup>th</sup>, 2019, Invited Speaker at 1<sup>st</sup> Immuno-oncology Society of India Congress 2019 at Tata Memorial Centre, Mumbai, India
45. May 29<sup>th</sup> – June 3<sup>rd</sup> 2019, **Invited Speaker at 2<sup>nd</sup> Human Translational Immunology Conference at Kos, Greece.**

46. June 17<sup>th</sup>, 2019, Invited Speaker at **Department of Molecular Genetics and Microbiology, Stony Brooks University, New York USA.**
47. Oct 12<sup>th</sup> – 16<sup>th</sup> 2019, Speaker at IUIS-IIS-FIMA Immunology Course at RUHS Jaipur.
48. Oct 19<sup>th</sup> – 23<sup>rd</sup>, 2019, **Invited speaker at International Congress of Immunology (IUIS), Beijing, China.**
49. Nov 7<sup>th</sup> – 9<sup>th</sup>, 2019, Invited speaker at 5<sup>th</sup> International Conference on Translational Research: Recent Trends in pretranslational to translational research. NCCS, Pune.
50. Nov 14<sup>th</sup> – 16<sup>th</sup>, 2019, Invited speaker at 46<sup>th</sup> Immunocon at BARC Mumbai.
51. Dec 19<sup>th</sup> – 21<sup>st</sup>, 2019, Invited speaker at "National Conference on Nano/Bio-Technology (NanoBioTech-2019).
52. Jan 5<sup>th</sup> – 10<sup>th</sup>, 2020, Invited speaker at "Food Allergy, Gordon Research Conference 2020, Ventura Beach Marriott, Ventura CA USA
53. March 3<sup>rd</sup> – 5<sup>th</sup>, 2020, Invited speaker at Flow cytometry workshop NIRMA University Ahmedabad.
54. Oct 8<sup>th</sup> – 10<sup>th</sup> 2020, Invited speaker at IIS-FIMSA online Immunology Course
55. 29 April, 2021, Invited speaker on World Immunology day at NII, New Delhi (Conducted Virtually).
55. 29 April, 2021, Invited speaker on World Immunology day at IIT Roorkee (Conducted Virtually).
56. 29 April, 2021, Invited speaker on World Immunology day at Central University of Punjab (Conducted Virtually).
57. Oct 31<sup>st</sup>- Nov 3<sup>rd</sup>, 2021, Invited speaker at 8<sup>th</sup> FIMSA Congress at Bhusan Korea.
58. Invited speaker for Covid19 virtual symposium held at CIDR, IISC Bangalore on 10<sup>th</sup> Nov 2021.
59. Invited speaker SBCI Meeting held on 16<sup>th</sup> -18<sup>th</sup> Dec 2021(Virtually conducted).
60. Dec 18<sup>th</sup> -19<sup>th</sup>, 2021, Invited speaker at 47<sup>th</sup> Annual meeting of Indian Immunology Society (Virtually conducted).
61. Invited as distinguished speaker at 2<sup>nd</sup> International RMBPD, Delhi University on 24-25 Feb 2022.
62. Invited speaker to 41<sup>st</sup> International Annual Conference of the Indian Association for Cancer Research (IACR-2022) on "Combating Cancer: Biology to Therapy to Drug Resistance, AMITY University NOIDA on 2-5<sup>th</sup> March 2022.
63. Invited as key note speaker to NIRMA University, Ahmedabad on 6<sup>th</sup> Sept 2022.
64. Invited talk on "Preparedness and Technological Solutions for Management of Future Pandemics: Lessons Learnt From Covid-19" at DRDE, Gwalior on 26-30<sup>th</sup> Sept 2022.
65. To deliver Guest Lecture and Interactive Session at GLA university, Mathura on 16<sup>th</sup> Dec 2022.
66. Invited Speaker for National Conference on Biotechnology held at MKU Madurai on 23-24<sup>th</sup> March 2023.
67. Apr 29<sup>th</sup> 2023, Invited as a distinguished Expert Speaker to GLA University, Mathura.
68. Apr 29<sup>th</sup> 2023, Invited speaker to National Institute of Immunology on World Immunology Day.
69. July 11<sup>th</sup>-13<sup>th</sup>, Visited to Serum Institute of India for attending meeting on Vaccine design.
69. Aug 25<sup>th</sup> 2023, Invited speaker to ACTREC Cutting edge lecture series, ACTREC, Mumbai.

#### **Mentoring and training:**

1. **2008:** (May to August). Mr. Brendan Collins, undergraduate student from Boston College, Boston. Currently perusing Ph.D. in Neurobiology at Northeastern University, Boston, MA, USA.
2. **2009** (May to August). Kriti Subramanyam, High School student from The Winsor School, Boston, MA, USA. Currently doing undergraduate at Harvard University, Cambridge, MA, USA.
3. **2009** (May to August). Hyunje Grace Cho, Undergraduate student from Harvard University, Cambridge, MA, USA.
4. **2011** (July to August). Eashan Kaw from Virginia, USA
5. **2010-2012** Youjin Lee, Graduate (Ph.D.) student from Harvard University, Cambridge, MA, USA.
6. **2012-2013** Neeti Nadda, Junior Research Fellow from Translational Health Science & Technology Institute, India
7. **2012-2018** Ritika Rampal, Ph.D. student from All India Institute of Medical Sciences, New Delhi, India.



8. **2013-2018** Sakshi Malik, Ph.D. student at Translational Health Science and Technology Institute
9. **2012-2014** Srikanth Elesela, Post-doc fellow (Wellcome Trust) at Translational Health Science and Technology Institute
10. **2013-2017** Srikanth Sadhu, Junior Research Fellow, Translational Health Science and Technology Institute
11. **2013-2015** Ramendrapati Pandey, Research Associate, Translational Health Science and Technology Institute
12. **2013-2019** Suyasha Roy, Ph.D. student, Translational Health Science and Technology Institute
13. **2015-2016** Muzamil Yakub Want, Post-doc fellow (Wellcome Trust) at Translational Health Science and Technology Institute
14. **2015** **Jayant Jagessar Tiwari**, summer intern from **Erasmus Medical Centre in the Netherlands**
15. **2016- 2017** **Zaigham Abbas**, Post-doc fellow at Translational Health Science and Technology Institute
16. **2016- Rajdeep Dalal**, Ph.D. student, Translational Health Science and Technology Institute
17. **2017- Srikanth Sadhu**, Ph.D. student, Translational Health Science and Technology Institute
18. **2017- Zaigham Abbas**, **National –Post-doctoral Fellow, Department of Science and Technology, Govt. of India**
19. **2018** **Sonal Joshi**, **Short term trainee from Pune University**
20. **2018** **Rahul Nigam**, **Short term trainee from Dayalbagh college, Agra.**
21. **2018- Sugandha Narayan**, **Ph.D. student**, Translational Health Science and Technology Institute
22. **2018- Upasana Madan**, **Ph.D. student**, Translational Health Science and Technology Institute
23. **2019- Akshay Binayke**, **Ph.D. student**, Translational Health Science and Technology Institute
24. **2018** **Priyanka Yadav**, **Short term trainee from DIPSARU, New Delhi**
25. **2019** **Umang Beri**, **Short term trainee from Jamia Milia Islamia Univeristy, New Delhi**
26. **2019** **Jyotsna Dandotiya**, **Short term trainee from Jiwaji University, Gwalior**
27. **2019** **Chinmayee Awasthy**, **Short term trainee from Pune University, Pune**
28. **2019** **Tarini Vohra**, **Short term trainee from Manav Rachana International University Faridabad**
29. **2019** **Hardik Grover**, **Short term trainee from Manav Rachana International University Faridabad**
30. **2021** **Adeeba Farooq**, **Short term trainee from Kashmir University**
31. **2022- Bhawna Verma**, **Ph.D. student**, Translational Health Science and Technology Institute
32. **2022- Jyotsna Dandotia**, **Ph.D. student**, Translational Health Science and Technology Institute
33. **2022- Neeta Adhikari**, **Ph.D. student**, Translational Health Science and Technology Institute
34. **2023- Ayush Tyagi**, **Ph.D. student**, Translational Health Science and Technology Institute
35. **2023-Aakash Goswami**, **Ph.D. student**, Translational Health Science and Technology Institute
36. **2033- Atul Kumar**, **Ph.D. student**, Translational Health Science and Technology Institute.

**Other activities:**

**Event organized:**

- 1) April 29<sup>th</sup>, 2015, World Immunology Day was organized at Translational Health Science and Technology Institute (**Chair of the event**)
- 2) August 26<sup>th</sup>, 2017, Discussion meeting on Liquid Biopsy supported by Wellcome Trust/DBT India Alliance was organized at Translational Health Science and Technology Institute (**Co-organizer of the event**)
- 3) February 1<sup>st</sup> – 4<sup>th</sup>, 2018, Cellular and Molecular Immunology Course organized at THSTI.
- 4) November 1<sup>st</sup> – 3<sup>rd</sup>, 2018, Immunocon 2018, 45<sup>th</sup> Annual meeting of Indian Immunology Society at THSTI (**Convener and Organizing Secretary**)
- 5) April 1<sup>st</sup> – 3<sup>rd</sup>, 2019, Cellular and Molecular Immunology Course organized at THSTI.
- 6) June 24-28, 2019, All India Institute of Medical Science, Delhi and Translational Health Science and Technology Institute workshop and hands-on-training.
- 7) Oct 12<sup>th</sup> – 16<sup>th</sup> 2019, Scientific Organising Secretary of IUIS-IIS-FIMSA Translational Immunology Course at RUHS Jaipur.
- 8) March 16<sup>th</sup> – 18<sup>th</sup>, 2020, Cellular and Molecular Immunology Course organized at THSTI.
- 9) October 8<sup>th</sup>-10<sup>th</sup>, 2021, 3<sup>rd</sup> Annual Meeting of Immuno-oncology Society of India (**Organizing Secretary**)

- 10) December 18<sup>th</sup> – 19<sup>th</sup>, 2021, 47<sup>th</sup> Annual meeting of Indian Immunology Society at THSTI (**Organizing Committee Member**)
- 11) July 14<sup>th</sup> 2022- Inflammation, a one day Symposium at THSTI.
- 12) May 5<sup>th</sup>-8<sup>th</sup> Molecular Immunology Forum at Jim Corbett, Uttarakhand(**Organizing Secretary**).

#### **Academics and Teaching experience**

- 1) Immunology curriculum was made for Indian Institute of Technology (IIT), Mandi.
- 2) Coordinator of Immunology course for Ph.D. student at Translational Health Science & Technology Institute (**2013-present**): This includes teaching 32 hours teaching every semester, conducting exams and coordinating the Immunology classes with external tutors.
- 3) Immunology curriculum was prepared for Regional Centre for Biotechnology, Faridabad, India
- 4) Teaching Immunology to M.Sc.-Ph.D. integrated program at Regional Centre for Biotechnology (RCB). 2 Credit course

#### **Part III:**

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##### **Original Articles**

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