

CURRICULUM VITAE



Ramendra Pati Pandey

Sex - Male
Nationality- Indian
Associate Professor
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Ambassador, Royal Society of Biology, UK, London
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Education:

(2013)	Ph.D. (Nanobiotechnology) University of Delhi & ICGB, New-Delhi,
India	
(2005)	M.Sc. (Biotechnology) Jawaharlal Nehru University, New-Delhi,
India	
(2002)	B.Sc. (Biotechnology) Patna University, Bihar, India

Professional experiences:

- Associate Professor, UPES, Dehradun (2023- Present)
- Associate Professor, SRM University Delhi-NCR, Haryana (2022-)
- Assistant Professor, SRM University Delhi-NCR, Haryana (2019-2022)
- FAPESP Post-Doctoral Fellow, University of Sao Paulo, Brazil (2015-2019)
- Research Associate, THSTI, Faridabad (2013-2015)
- Research Assistant, CGU, Taiwan (2007-2009)

Extramural funding:

- Management of multidrug resistant (MDR) pathogens causing Urinary Tract Infection (UTI)
Funding Department: Indian Council of Medical Research (ICMR); Total Project Cost (In Rs.): 49,60,000.00 (2021-2024) - Co-PI
- Re-purposing of drugs and nanoparticle approaches for the improvement of treatment against Visceral Leishmaniasis with the aim of averting the emergence of PKDL. Funding Department: Indian Council of Medical Research (ICMR); Total Project Cost (In Rs.): 84,00,000.00 (2021-2024)- Co-PI
- Treatment of Panipat Drain using bioremediation: NMCG; Total Project Cost (In Rs.): 2,49,00,000.00 (2022-2023)-PI
- Antimicrobial Resistance and One Health: CGU Taiwan; Total Project Cost (In Rs.): 30,00,000.00 (2021-2023)-PI
- Centre for Translational Science and Biopharmaceutical Development: FAPESP Project, Brazil; Total Project Cost (In Rs.): More than 12Cr (2022-2027)- Co-PI
- Deciphering the Methylation status and expression of telomere & telomerase complex genes under Hypobaric Hypoxia: SERB, DST: Total Project Cost (In Rs.): 39,09,000.00 (2022-2025)- Co-PI
- Rice fortification: United Nations-WFP: Total Project Cost (In Rs.): 14,00,000.00 (2024-2027)- Co-PI
- One Health: UPES Seed Grant: Total Project Cost (In Rs.): 4,50,000.00 (2024-2024)- PI

Research Experience:

- **FAPESP Post-Doctoral Fellow** (from September 2015- January 2019) at the Department of Medicine-InCor/HC-FMUSP, University of Sao Paulo, School of Medicine, Brazil. Working on New therapies for Chagas disease: Using repurposing of drugs acting on the Cell invasion and Autophagy progression of host cells and Potentiation of drug effect using Biopolymeric nanoparticulate Drug Delivery Systems against *Trypanosoma cruzi*.
- **Research Associate (from September 2013-August 2015) at the Translational Health Science and Technology Institute, Faridabad-Gurgaon Expressway, Faridabad Gurgaon, India.** We have identified Foxo1, a forkhead family transcription factor, predominantly required for the induction of IL-9 in Th9 and Th17 cells. We further identified AKT, an upstream kinase that regulates IL-9 induction in Th1, Th9 and Th17 cells via Foxo1. In addition, c-Jun N-terminal kinase (JNK), a MAPK (Mitogen Activated Protein kinase) enhanced IL-9 induction in Th9 cells via Foxo1. Chromatin Immunoprecipitation (ChIP) identified a direct physical association of Foxo1 with IL-9 and IRF4 promoters. In addition, Foxo1 trans activates both IL-9 and IRF4 genes in Th9 and Tc9 cells and together with IRF-4 synergistically enhanced IL-9 induction. Furthermore, loss of Foxo1 suppressed IL-9 production in Th9 and Th17 cells. In fact, Foxo1 act as a transcriptional switch, which exclusively suppresses IL-9 induction in Th17 cells while enhancing IL-17 and Th17 cells development.
- **Doctorate Degree (2014) from University of Delhi and TACF (Tuberculosis Aerosol Challenge Facility) at the International Centre for Genetic Engineering and Biotechnology), New Delhi, India.** We have developed nanoparticles carrying two secretory proteins of *Mycobacterium tuberculosis* - CFP-10 and CFP-21 and evaluating their potential to invoke an immune response coupled with the oxidative stress when encapsulated in nanoparticles. The cytokine levels of IFN- γ , TNF- α , IL-12, IL-17, IL-2, IL-10 and IL-4 were observed to be significantly increased for CHNP CFP-10 and CHNP CFP-21. CFP-10 and CFP-21 *per se* primed cells demonstrated a Th1 biased T cell response in an *ex vivo* assay. The ability of the CFPs to provide protection against *M. tb*. challenge was further assessed. CHNP CFP-10 and CHNP CFP-21 clearly showed enhanced protection against *M. tb*. as analyzed by the Colony Forming Unit. The Th1 response is characterized by production of IL-12 and IFN- γ and the enhancement of delayed hypersensitivity response; Th2 by IL-4 and IL-10 production and up- regulation of several antibody responses. The enhanced levels of IFN- γ and IL-12 clearly indicate a Th1 response coupled with low levels of GSH. Therefore, interplay of immune response, ROS and RNS created by our secretory proteins encapsulated in nanoparticles indicated interesting results which warrant detailed evaluation on the signaling pathways to ascertain the extent of interdependence.
- **M.Sc. in “Biotechnology” (2006)- from the School of Biotechnology, Jawaharlal Nehru University (JNU), New Delhi, India.** Worked on “Differential Immunomodulation of *Mycobacterium tuberculosis* Culture Filtrate Proteins on the human PBMCs.
- **Research Assistant at the National Science Council (NSC), Taiwan at the Chang Gung Memorial Hospital and Chang Gung University for Two years from March 2007 to March 2009.** Studied using a HA transgenic murine model, we demonstrated that cognate CD4⁺ T cells have

significant impact on tolerance induction of CD8⁺ T cells. Effector CD4⁺ T cells bolster the initial activation and delay the tolerance induction of CD8⁺ T cells. Tolerized CD4⁺ T cells also modify cognate CD8⁺ T cell tolerance with a unique mechanism. Under suppression by tolerized CD4⁺ T cells, CD8⁺ T cells still proliferate well but their initial IFN- γ response and cytolytic activity are impaired. In addition, the “help” from effector CD4⁺ T cells for cognate CD8⁺ T cells is kinetically limited. It is most remarkable during the early phases of CD8⁺ tolerance induction and is negligible for the later stages. With a variety of mechanisms compared side-by-side in a single antigen-specific system, it is then clear that CD8⁺ T cell activity may be impaired in different ways. Different manifestations of CD8⁺ T cell tolerance imply that unique strategies will be required for restoring CD8⁺ immune response.

- **Senior Research Fellow** at the Indian Council of Medical Research, New Delhi, India. Studied Bio-polymeric stimuli sensitive, nanoparticulate targeted delivery for cancer therapeutics.

Honors and Distinctions:

- ❖ Post-Graduate Scholarship from the **Department of Biotechnology, India.**
- ❖ Participated in **Indo-German collaborative meeting on Immunology** in New-Delhi from 5 - 7 Feb. 2005.
- ❖ Participated in International Conference on Clinical Immunology in AIIMS, New-Delhi India on 2-5 March 2006.
- ❖ Presentation in **NHRI Conference on Immunology** in Taiwan from 9th to 10th Nov. 2008.
- ❖ Presentation in **FIMSA (The Federation of Immunological Societies of Asia-Oceania)** Taipei, Taiwan. 17-20 October 2008.
- ❖ Poster Presentation in the **14th International Congress of Immunology** Kobe, Japan, 22- 27 August 2010.
- ❖ GP Talwar travel grant to attend the **14th International Congress of Immunology** Kobe, Japan, 22-27 August 2010.
- ❖ Department of Science and Technology, Government of India **Young Scientist Award** to attend the **14th International Congress of Immunology** in Kobe, Japan, 22-27 August 2010.
- ❖ Presentation at the **International Symposium on Tuberculosis Diagnostics: Innovating to make an Impact** at the International Centre for Genetic Engineering and Biotechnology, New-Delhi from 16-17 December 2010.
- ❖ Presentation at the **International Conference on Nanotechnology**, Bhubaneswar, India 8 - 10 December 2011.
- ❖ Presentation in **FIMSA (The Federation of Immunological Societies of Asia-Oceania)**, All India Institute of Medical Sciences (AIIMS), New- Delhi, India from 14 - 17 March 2012.
- ❖ **FIMSA (The Federation of Immunological Societies of Asia-Oceania) Young Scientist Award 2012.**
- ❖ **Bharat Jyoti Award** from the India- International Friendship Society 2012.
- ❖ Presentation in the **European Congress of Immunology**, Glasgow, UK, 5-8 Sept. 2012.
- ❖ **British Society of Immunology travel award** to attend the 3rd European Congress of Immunology, Glasgow, Scotland, U.K., from 5-8 Sept.2012.
- ❖ **European Federation of Immunological Societies travel grant** to attend the 3rd European Congress of Immunology, Glasgow, Scotland, U.K., from 5-8 Sept.2012.
- ❖ **International Union of Immunological Societies travel award** to attend the Introductory Course in Immunology, University of Pennsylvania, USA from 13-18 July 2013.

- ❖ **American Association of Immunologists travel award** to attend the Introductory Course in Immunology, University of Pennsylvania, USA from 13-18 July 2013.
- ❖ **Indian Immunological Society Travel Award** to attend the Immunocon 2013, Delhi from 15-17 Nov. 2013.
- ❖ Elected as an **Executive Council Member of the Indian Immunology Society** (2014- 2016).
- ❖ **FAPESP Post-Doctoral Fellowship** (A Prestigious Fellowship of the Latin America), 2014.
- ❖ Presentation in the **FIMSA (The Federation of Immunological Societies of Asia- Oceania)**, Singapore from 30 June to 3 July 2015.
- ❖ **FIMSA (The Federation of Immunological Societies of Asia-Oceania) travel award** 2015.
- ❖ Presentation in the **International Congress of Immunology Melbourne**, Australia, 21- 26 August 2016.
- ❖ Presentation in the **Brazilian Congress of Immunology Campos do Jordao, Brazil** Oct. 29- 2nd November 2016.
- ❖ **FOCIS (The Federation of Clinical Immunology Societies)** travel grant 2017.
- ❖ Invited talk on “Nanoparticles drug delivery systems for infectious diseases” at the PIITTROP, Institute of Tropical Medicine, University of Sao Paulo, Brazil on 23rd November, 2018.
- ❖ Selected for the **Early Career Scientist Award** from the British council and the Newton Fund (2019).
- ❖ International Scientist Award 2020.
- ❖ A Mentor of CSIR-SRTP Summer Research Training Program 2020.
- ❖ Attended the Keystone eSymposia on Tuberculosis: Science Aimed at Ending the Epidemic from December 2-4, 2020.
- ❖ The Gender Equality and Career Development Committee (GEC) of the International Union of Immunological Societies (IUIS) selected to attend the Advanced Course in Basic and Clinical Immunology given by the Federation of Clinical Immunology Societies (FOCIS), March 1-3, 2021.
- ❖ International Young Scientist Award 2020-21, instituted by the International Institute of organized Research (I2OR).
- ❖ Participated in the World Sepsis Congress 2021, April 21-22, 2021.
- ❖ Winner of International Young Scientist Award 2020-21 by I2OR.
- ❖ Attended the virtual live Keystone Symposia eSymposia meeting Synthetic Biology: At the Crossroads of Genetic Engineering and Human Therapeutics | EK41 from May 3-4, 2021.
- ❖ Participated in the FDP on "Artificial Intelligence: Opportunities in COVID-19 Drug Development and Disease Management" organized on 24-Apr-2021 by Amity University Uttar Pradesh Noida and MACFAST Kerala.
- ❖ Attended One Day Symposium on “Coronavirus Disease: What We Know and What We do not” to mark “International Day of Immunology” on 27th April, 2021 organized by Central University of Punjab, Bathinda Department of Biochemistry and Young Academy of India.
- ❖ Selected for the most prestigious Global Academic Leader Award 2021, instituted by the International Institute of organized Research (I2OR) which is a registered MSME with the Ministry of Micro, Small and Medium Enterprises, Government of India.
- ❖ Selected as an Executive Member of the DHS FOUNDATION's.
- ❖ Excellent Researcher Award (Biotechnology) (Male) at 3rd International Academic and Research Excellence Awards (IARE) 2021 - by GISR Foundation to honor and acknowledge extraordinary talents from all walks of life.
- ❖ Elected member of the National Academy of Sciences, India (NASI), 2021.
- ❖ Member of the Public Relations Society of India.
- ❖ Participated in the 5- Day Faculty Enrichment Programme (FEP) on “cutting edge science Cellular and Molecular Biomedicine” held from 27th to 31st July 2021,

- organized by Amity Institute of Molecular Medicine and Stem Cell Research, Amity University, Noida, India.
- ❖ Participated in the India Alliance-Monk Prayogshala survey to study the effects of COVID-19 on STEM researchers in India.
 - ❖ Attended a connected learning session on Artificial Intelligence and Practical Applications on September 21st 2021.
 - ❖ The abstract has been accepted for Poster presentation at the 2nd LEAP Scientific (Drugs for Neglected Diseases *initiative*) conference will be held from 2nd to 4th November 2021.
 - ❖ Received registration fund from the RSTMH for the Annual Meeting takes place on the 11th - 12th October, 2021.
 - ❖ Attended first Virtual Covid Symposium "ICGEB for COVID-19 enable locally to recover globally" on 25th and 26th October 2021.
 - ❖ Paper Presentation in the 91st Annual session of NASI (The National Academy of Sciences, India) on December 6th, 2021.
 - ❖ Invited member to Science & Minds Platform by Trialect.
 - ❖ Participated in Health Informatics Summit organized by the Department of Computational Biology, Indraprastha Institute of Information Technology Delhi (IIIT-D) and APbians (Bioinformatics Society) held on 16th - 19th of October 2021.
 - ❖ Participated in the educational activity entitled 2021 FOCIS China Advanced Course in Basic and Translational Immunology held as five live-streamed sessions on November 13, 20, 27, 2021 and December 4, 11, 2021.
 - ❖ Participated in the 47th Annual conference of the Indian Immunology Society-Virtual from 18th -19th December, 2021.
 - ❖ Appointed as one of the Member of has been appointed as one of the Member of Scope Database - International Advisory Board, 2022.
 - ❖ I2OR International Academic Excellence Award 2022.
 - ❖ International Scientist Awards on Engineering, Science and Medicine by INSO which is going to be held on 29 & 30-Apr-2022 in Pondicherry, India.
 - ❖ Participated in the National Conference of Science Communicators & Science Teachers held on November 29-30, 2021.
 - ❖ My Research Profile having been published in the most coveted book entitled "**50 Eminent Researchers of 2021**", by the International Institute of organized Research (I2OR), a registered MSME with the Ministry of Micro, Small and Medium Enterprises, Government of India.
 - ❖ Participated as a Delegate in the 12th India Probiotic Symposium "Good Microbiome, Probiotics and Good Health - The Evidence Gets Stronger" organized by the Gut Microbiota and Probiotic Science Foundation (India), on 5th & 6th March 2022.
 - ❖ Selected for grant coverage to attend the ICGEB Course 2022 "CRISPR/Cas9 genome editing: a new approach for therapeutics course at 21st -23rd September 2022 in Cairo.
 - ❖ Completed the Communicating Science to Non-Specialists Workshop GlobalSCAPE organized by nature research academics on 15, 16 & 17 March 2022.
 - ❖ Participated in Interdisciplinary Research in Cancer Biology (IC-IRCB-2022) held on 22nd and 23rd Sep 2022 at UPES University, Dehradun, India.
 - ❖ Participated in celebrating 10 years of world Sepsis Day organized by Global Sepsis Alliance and Sepsis Stiftung on September 16th 2022.
 - ❖ Invited to receive a one-year complimentary digital subscription to **Nature Journal**.
 - ❖ Participated in a seminar on Environmental Sciences on October 12th, 2022, organized by the Royal Society of Chemistry, UK.
 - ❖ Scholars Academic and Scientific Society Eminent Fellow Membership (SEFM)-2022.
 - ❖ Elected as a member of the National Academy of Medical Sciences, 2022.
 - ❖ Presented in the NFCC on 12th November at Kongunadu Polytechnic College, Gudalore, Veda sandur Taluk, Dindigul District, Tamil Nadu, India
 - ❖ Participate in the Annual Conference of National Academy of Medical Sciences in SMS Medical College, Jaipur from 11th November to 13th November 2022.

- ❖ Organizing Committee member of the "Thought Leadership Forum (TLF)" of the Royal Society of Chemistry meeting on "AMR in the Post-COVID World" on November 14th and 15th at the India Habitat Centre, New Delhi.
- ❖ Presentation (Biological Sciences) during the Scientific Sessions - 92nd Annual Session of NASI (December 4-6, 2022).
- ❖ Presentation in the International Conference on Polymers for Advanced Technology February 23-25, 2023.
- ❖ Participated in the Annual Conference of Indian Immunology Society as a Chairperson from 23rd – 26th November 2022 in Chandigarh.
- ❖ R&D Coordinator of the SRM University Delhi-NCR, Sonapat.
- ❖ Core team member for SRM-Siemens Centre of Excellence (SS-CoE).
- ❖ Core team member for the Centre for Innovation, Incubation and Entrepreneurship (CIIE).
- ❖ Invited to attend the conference 'Indo-German Forum on 'Sustainable Urban Mobility', from 22-23 March 2023 in New Delhi, India.
- ❖ Attended 4th World Sepsis Congress on April 25th and 26th, 2023.
- ❖ Elected as a member of the **National Academy of Biological Sciences (2023)**
- ❖ Elected as a member of the **National Environmental Science Academy (2023)**
- ❖ Appointed as an Ambassador of the Royal Society of Biology, UK
- ❖ Publishing Committee member of International Association of Applied Science and Technology (IAAST)
- ❖ **Polyfeenolix-IIS Best Mid-Career Immunology Teacher Award 2023**, in the 50th IMMUNOCON from on 7th October 2023
- ❖ **Selected for Shri Om Prakash Sharma Award from the Indian Academy of Biomedical Sciences 2023.**
- ❖ Best Debut Award, an Excellence Award for outstanding academic and scientific contributions in the UPES, held on March 4, 2024.
- ❖ Selected for the most prestigious IRSD Award 2024 which has been awarded during the 13th International Conference on Interdisciplinary Research for Sustainable Development 2024 (IRSD 2024) organized by Green ThinkerZ, India & International Institute of organized Research (I2OR), India; in association with Jamia Hamdard, New Delhi, India; IIT Bombay Spoken Tutorial, India; Centre for Modern Construction, Western Sydney University, Australia; Microsoft Flip; Wakelet; Sustainable Cosmos; Elsevier's Mendeley and The Intelligent Indian on 30th May 2024 in Jamia Hamdard, New Delhi, India.
- ❖ Appointed as an Ambassador of the Royal Society of Biology, London, UK (2024).

Invited Talk:

- ❖ Invited talk for a regional workshop on Rice Fortification in collaboration with United Nation-World Food Programme (UN-WFP) on 13rd May, 2024 at UPES, Dehradun.
- ❖ Presentation in 20th International Congress of Infectious Diseases (ICID) taking place in Cape Town, South Africa from 3rd to 6th December 2024.
- ❖ Invitation to the 10th Annual Meeting of the Asian Council of Science Editors (ACSE), set to take place on 18 August, 2024 at Khalidia Palace Hotel, Deira Dubai, UAE.
- ❖ Invitation to the panel discussion '**Cross-Border Mobility**' to be held **online** on July 17, 2024, **on** the intersecting dynamics of cross-border mobility across themes of law, labor, education, health, and narratives of migration, with a focus on India, South Asia, Germany, and Europe; at German Centre for Research and Innovation - DWIH New Delhi.
- ❖ Invited speaker in a DBT CTEP, Ministry of Science and Technology, Govt. of India sponsored International Conference on "Antibiotics and Alternative Strategies for

- Combating Antimicrobial Resistance” scheduled from July 24th to 26th, 2024 at Sri Krishna Arts and Science College, Coimbatore, Tamil Nadu, India.
- ❖ Invited talk in the "International Conference on Environmental and Molecular Mutagenesis: Genomic Integrity and Implications to Human Health," which is scheduled to take place from January 29-31, 2025 at the Department of Biochemistry and Biotechnology, Annamalai University, Tamil Nadu, India.
 - ❖ Presentation in the 9th Federation of Immunological Societies of Asia-Oceania Congress (FIMSA 2024) which will be held on October 23-27, 2024 in Taipei Taiwan.
 - ❖ Invitation to the 11th Annual Meeting of Chemical Biology Society, Society, India (CBSI) on August 2-3, 2024, at ACU Mandya District, Karnataka,
 - ❖ Academic Committee Member of the upcoming 2024 3rd International Symposium on Clinical Medicine and Intelligent Devices (CMID 2024), will be held during October 20-21, 2024 in Frankfurt, Germany.
 - ❖ Invitation as a panel speaker for the international conference on Tropical Sciences: Harmonizing Nature with Humanity, scheduled on October 16-17, 2024, in Kuching, Sarawak, Malaysia.
 - ❖ Oral presentation in "Biotechnology for sustainable environment, agriculture, health, biodiversity, and industry (biotech-2024)" Gujarat Biotechnology University (GBU) in Gandhinagar, Gujarat.
 - ❖ Delegate for Global Education Skill Conclave Delhi 2024, APAC 6th Global Education & Skill Conclave on May 10th, 2024 at Shangri-La Eros, New Delhi
 - ❖ Participated in the one-day International Symposium on “Advancements in Medical Research and AI Integration,” held on April 17, 2024, at the Special Centre of Molecular Medicine, Jawaharlal Nehru University, New Delhi.
 - ❖ Invitation to Deliver an Invited Talk in the 7th International Conference on CSR & Sustainable Development (June 10-11, 2024) is being organised in Yogyakarta, Indonesia during June 10-11, 2024. The conference is jointly organised by Janabadra University (Indonesia) and Society for Education and Research Development (India).
 - ❖ Invited Speaker in the International Conference on Renewable Energy and Sustainable Technologies (ICREST 2024) during July 4-6, 2024, at the Department of Applied Sciences and Humanities, Jamia Millia Islamia
 - ❖ Invitation to be an Invited Speaker during a Conference on AMR at Swami Rama Himalayan University (SRHU), Dehradun on 5-6th April 2024.
 - ❖ Invitation to Deliver an Invited Speech at the “8th World Cancer Congress 2024,” which has been scheduled for March 18-20, 2024, at JLN Auditorium, AIIMS, New Delhi, India On behalf of Arjyopa Healthare and the Ministry of Ayush,
 - ❖ Invited Speaker during the XIIth International Conference of Indian Academy of Biomedical Sciences (IABSCON- 2024) on “**Advance in Biomedical Research: Strategies and approaches**”, is being organized by the Department of Biochemistry at All India Institute of Medical Sciences-Patna (AIIMS-P), from 23rd-25th February 2024.
 - ❖ Invited Speaker Invitation in 2nd International Conference on Recent Trends in Materials Science & Devices 2023 (ICRTMD 2023), 29-31 December, 2023
 - ❖ Invitation to attend the Global Immunology Summit- 2024 (GIS-2024) will be held from 15th to 17th February 2024 at the M.K. Bhan Auditorium, THSTI, Faridabad, Haryana.
 - ❖ Invited Speaker of the "International Conference on Environmental Mutagenesis: Impact on Biodiversity and Human Health in a Changing World " as well as the "46th Annual Meeting of Environmental Mutagen Society of India (EMSI)" to be convened at the Central University of Kerala, Tejaswini Hills, Kasaragod, India from January 29-31, 2024.
 - ❖ An Organizing committee member of the 3rd International conference on Antimicrobial Resistance (AMR) scheduled at India Habitat Centre, New Delhi from 18th-20th March 2024.
 - ❖ The invited talk on “the environmental dimensions of AMR focusing on one aspect of AMR in environment such AMR from food, water etc.” during a Webinar planned from 22 to 23 January 2024 by The United Nations Environment Programme's (UNEP) Regional Office for Africa (UNEP-ROA) is located at United Nations Avenue, Gigiri, Nairobi, Kenya.

- ❖ National Advisory Committee member of the National Conference on Biotechnology for Sustainable Environment, Agriculture, Health, Biodiversity, and Industry (Biotech-2024) on 22-23 April, 2024 at Gujarat Biotechnology University (GBU), Gandhinagar, Gujarat, India; Jointly Organized by Gujarat Biotechnology University (GBU) Gandhinagar, Gujarat, 382355, India & National Environmental Science Academy (NESA), New Delhi.
- ❖ Recognition for Outstanding Contribution as a Smart India Hackathon 2023 Evaluator
- ❖ Invited to attend the Nature Conference: Nanomaterials in Biomedical Applications, February 26-27, 2024, Manipal Academy for Higher Education (MAHE), Manipal, India.
- ❖ Invited speaker on the topic on Nanotechnology and Infectious Diseases by C. G. Bhakta Institute of Biotechnology, Gujarat (INDIA), and The Uka Tarsadia University, Gujarat, India on 21st January, 2024.
- ❖ Keynote Speaker at the 17th Annual International Biocuration Conference (AIBC-2024), "Enabling the Path from Data to Knowledge," to be held on March 5-8, 2024, in India in association with the International Society of Biocuration (ISB), AIBC-2024 is being jointly organized by the Indian Biological Data Centre (IBDC), the Regional Centre for Biotechnology, and Department of Plant Molecular Biology, University of Delhi.
- ❖ Technical Committee Member of the upcoming 2024 International Conference on Public Health and Health Sciences (PHHS2024). The event will be held during July 18-20, 2024 in Qingdao, China
- ❖ Invitation to the 14th India Probiotic Symposium, "Nutrition, Gut Microbiome, Probiotics - The Triple Connection" which is scheduled on 3rd and 4th February 2024 at Rajiv Gandhi Centre for Biotechnology (RGCB), Trivandrum.
- ❖ The abstract entitled "The Translational Prospective of secretory proteins of *Mycobacterium tuberculosis* encapsulated in Bio-polymeric nanoparticles: An Interplay of Immune Response and Oxidative stress" has been accepted by our International Scientific Committee for Keynote presentation at the "4th edition of Unite Scientific Chemistry Conference (USCC-2024)" during July 18-19, 2024 in Munich, Germany.
- ❖ Participated as a Delegate in the 14th India Probiotic Symposium "Nutrition, Gut Microbiome and Probiotics- The Triple connection" organized by the Gut Microbiota and Probiotics Science Foundation (India) on 3rd and 4th February 2024.
- ❖ Invited talk in the National Conference on Scientific Advancement for Sustainable Environment and its Impact on Health: An Earth day Celebration (SASE) organized the Department of Dravyaguna, Faculty of Ayurveda, Institute of Medical Sciences, Banaras Hindu University, Varanasi, India during April 22-23, 2023 under the auspices of National Environment Science Academy. The theme of the conference will revolve around "Environment, Conservation and Health".
- ❖ Participated in the 13th India probiotic symposium on the 25th & 26th March 2022 at the Institute of Liver and Biliary Sciences, Vasant Kunj, New Delhi.
- ❖ Invited for the 10th International Conference on Interdisciplinary Research for Sustainable Development (IRSD) 2023 - 30th May 2023, Jamia Hamdard, New-Delhi.
- ❖ Invited speaker in the International Conference on Nano Structured Materials and Polymers (ICNP 2023) May 12-14, 2023 at Mahatma Gandhi University, Kottayam, Kerala, India.
- ❖ Invited to participate in Epidemiology Foundation of India; EFICON 2023 to be held in Goa on 30 Sept. -1 October 2023.
- ❖ Oral presentation at the 10th International Congress on Fundamental and Applied Sciences, which is going to be held during June 6 - 8, 2023 at Istanbul, TURKEY.
- ❖ Presentation in the International Conference on Thin Films & Nanotechnology: Knowledge, Leadership, & Commercialization, Department of Physics, Indian Institute of Technology Madras, India, July 6-8, 2023.
- ❖ Invited Talk in the "Tropacon 2022", the XVIth National Congress of the Indian Academy of Tropical Parasitology, held in Kolkata, from 21st to 24th September, 2022.
- ❖ Invited speaker in the International Online Conference on Nano Materials (ICN 2022) August 12-14, 2022 at Mahatma Gandhi University, Kottayam, Kerala, India.

- ❖ Invited as a Delegate' at 24th World Education Summit & Awards to be organized on 27th -28th July 2022 at Hotel Le Meridien, Hyderabad.
- ❖ Participated in the 48th Annual Conference of Indian Immunology Society on 8th to 9th July, 2022.
- ❖ Presentation in the International Congress on Infectious Diseases (ISID 2022) to be held 17-20 November in Kuala Lumpur, Malaysia.
- ❖ Invitation as a keynote speaker for special session on Food security and sustainable healthcare of 4th International Sustainability Conference held on 31st October 2023 in UPES Dehradun.
- ❖ Invitation as a Jury Member for the Fourth Science Conclave Cum National Biomedical Research Competition, 2023, is being organized by the Society of Young Biomedical Scientists, India, in collaboration with ESIC Medical College Alwar, Rajasthan University of Health Sciences Jaipur, and Society of Young Scientists, AIIMS Delhi, on December 9-10, 2023, at ESIC MCH Alwar (Rajasthan).
- ❖ Invitation for Serving as the Academic Committee Member of 3rd International Conference on Life, Health and Modern Medicine (LHMM2024), which will be held in Singapore during October 25-27, 2024
- ❖ Delivered a Key Note Address on Repurposed drugs acting on host mechanisms of *T. cruzi* invasion synergize with Benznidazole: New therapies for Chagas disease at the International Conference on "Recent Advances in Basic and Applied Sciences" held at Faculty of Sciences, Baba Mastnath University, Asthal Bohar (Rohtak), India on 27th-28th August, 2021.
- ❖ Invited Speaker in the International Conference on "Recent Trends in Materials Science & Devices 2023 (ICRTMD-2023), which is scheduled from 22 - 23 July, 2023 G.A.V. Degree College, Jhajjar, Haryana, India.
- ❖ Participated in IP Awareness/Training program under National Intellectual Property Awareness Mission on June 10,2023 organized by Intellectual property office, India.
- ❖ Attended the RSTMH Annual Meeting 2021: drug resistant infections: causes, consequences and considerations; Organized by Royal Society of Tropical Medicine and Hygiene on 11th October 2021.
- ❖ Oral presentation at the 8th International Congress on Fundamental and Applied Sciences, which is going to be held during October 19 - 21, 2021 at Antalya, TURKEY.
- ❖ Participated in infection Prevention and Control (IPC) for COVID-19 Virus by World Health Organization on October 21, 2021.
- ❖ Participated in the International Researchers Workshop held on 22 to 24 October 2021.
- ❖ Attended FOCIS 2021 Workshop organized by Argentina, Brazil, Chile, Uruguay, and Mexico held on 15th to 18th November, 2021.
- ❖ Participated in the 3rd Annual Congress of Immuno-Oncology Society of India on 8th to 10th October 2021.
- ❖ Invited Speaker in the two-day international online conference "Environment, Social and Religious Consequences on Human Evolution" organized by Institute of Objective Studies, New Delhi on 20-21 November 2021.
- ❖ Presentation in the International Conference on Infectious Disease Dynamics, 28th November - 1st December 2023, Bologna, Italy
- ❖ Participated in Professional Development Workshop on Digital Creativity Skills as a part of Adobe Academic Essentials Program on 19th November 2022.
- ❖ The abstract entitled "Potential of nanoparticles encapsulated drugs for possible inhibition of the intracellular infections" has been accepted for the Seventh International Symposium Frontiers in Polymer Science, will be held in the Swedish Exhibition and Congress Centre, Gothenburg, Sweden, 29 May - 1 June 2023.
- ❖ Participated in the 27th International Conference of International Academy of Physical Sciences on "Interdisciplinary Research in Biomedical Sciences" held at Amity Institute of Molecular Medicine and Stem Cell Research (AIMMSCR) and Amity Institute of Applied Sciences (AIAS), Amity University Uttar Pradesh, Noida, India during October 26th - 28th, 2021.

- ❖ Presentation at the **Congress of Ayush**, Government of India, Feb. 2014.
- ❖ Given Lecture on “Nanoparticles based Drug Delivery Systems for Infectious Diseases” in the AICCRS Webinar Series organized by Amity University, Noida campus from 20th November 2021.

➤ **Patent:**

1. Therapeutic evaluation of Compound 1 for the possible treatment of typhoid. Indian Patent No. 331376 Grant on: February 05, 2020.
2. Pharmaceutical combination for blocking the attachment of COVID-19 with its target cells and immunomodulation- Indian Patent Application number-202121005369 (2021).
3. An enhanced method of immobilization of microbial alkaline protease for industrial applications; Patent Appln. No.: 202431038779; Published- 31/05/2024.
4. An Integrated Method for Enhanced Drug Discovery and A Nanoparticle Formulation for Optimized Drug Delivery; Patent Appln. No.: .202431052382 A; Published-19/07/2024.

➤ **Book Chapter:**

- **A Book on the Liver Transplantation** from Chang Gung Memorial Hospital, Taiwan Liver Research Unit, CGMH, Taiwan, 2009, ISBN: 978-81-8448-770-1
- **Multi-drug-resistant *Staphylococcus aureus* and possible treatment.** Intech Open, 2021. Doi:10.5772/intechopen.96888.
- Nair A., Vibhuti A., Raj V.S., **Pandey R.P.** (2021) RNA-Seq Analysis Strategies to Understand Viral Pathogenesis. In: Hameed S., Fatima Z. (eds) Integrated Omics Approaches to Infectious Diseases. Springer, Singapore. https://doi.org/10.1007/978-981-16-0691-5_11.
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- Khatri, P., Rani, A., **Pandey, R.P.**, Hameed, S. (2023). Correlation of Human Microbiome and Immune Functioning with COVID-19 Infections: An Overview. In: Kothari, V., Kumar, P., Ray, S. (eds) Probiotics, Prebiotics, Synbiotics, and Postbiotics. Springer, Singapore. https://doi.org/10.1007/978-981-99-1463-0_11
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- Riya Mukherjee, Ramendra Pati Pandey, Chung-Ming Chang (2023). Waste treatment. Delve Publishing, Canada
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- Immunology and Osteoporosis: A New Frontier in Treatment" has been

accepted for publication in the book under the working title "Osteoporosis - Pathophysiology, Diagnosis, Management and Therapy", ISBN 978-0-85466-080-3.IntechOpen.

- Finding a cure for kidney fibrosis by up/down regulating autophagy, Miss Ruby, Amrendra K. Ajay, Ramendra Pati Pandey, ImmuneCONNECT", Newsletter, December 2023 of IIS
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- **Publications:**
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