

CURRICULUM VITAE



Ramendra Pati Pandey

Sex - Male

Nationality- Indian

Associate Professor

Department of Biotechnology

Head of the Department (Applied Science)

R&D Coordinator, Core team member for SRM-Siemens Centre of Excellence, Core team member for the Centre for Innovation, Incubation and Entrepreneurship

(CIIE), SRM University, Delhi-NCR, Sonapat, India.

Date of Birth- 7th February, 1979

ramendra.pandey@gmail.com

+91-9818790558

Education:

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| (2014) | Ph.D. (Nanobiotechnology)
University of Delhi & ICGEB, 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, 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:

1. Management of multidrug resistant (MDR) pathogens causing Urinary Tract Infection (UTI)
Funding Department: Indian Council of Medical Research (ICMR);
Total Project Cost (In Rs.): 4,960,000.00 (2021-2024) - Co-PI
2. 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.): 8,400,000.00 (2021-2024)- Co-PI
3. Treatment of Panipat Drain using bioremediation: NMCG; Total Project Cost (In Rs.): 2,49,00,000.00 (2022-2023)-PI
4. Antimicrobial Resistance and One Health: CGU Taiwan; Total Project Cost (In Rs.): 30,00,000.00 (2021-2023)-PI
5. Centre for Translational Science and Biopharmaceutical Development: FAPESP Project, Brazil; Total Project Cost (In Rs.): More than 12Cr (2022-2027)- Co-PI
6. 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

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 Immuno-precipitation (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 Biopolymeric 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.
- ❖ Presentation at the **Congress of Ayush**, Government of India, Feb. 2014.

- ❖ 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 Scientist Awards on Engineering, Science and Medicine to be held on 28 & 29-Aug-2021 in Trivandrum, India.
- ❖ 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.
- ❖ Best Researcher Award 2021 from the VDGGOOD Professional Association.
- ❖ 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.
- ❖ 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.
- ❖ 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.
- ❖ 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.
- ❖ 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.
- ❖ Paper Presentation in the 91st Annual session of NASI (The National Academy of Sciences, India) on December 6th, 2021.
- ❖ 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.
- ❖ Invited member to Science & Minds Platform by Triallect.
- ❖ 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.
- ❖ 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.
- ❖ 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.
- ❖ 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.
- ❖ 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, Vedsandur 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.

- ❖ Invited Speaker in the International Conference on Nanotechnology: Opportunities and Challenges November 28-30, 2022 by Jamia Millia Islamia, New Delhi.
- ❖ 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).
- ❖ 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.
- ❖ Invited to attend the conference ‘Indo-German Forum on ‘Sustainable Urban Mobility’, from 22-23 March 2023 in New Delhi, India.
- ❖ 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.
- ❖ Attended 4th World Sepsis Congress on April 25th and 26th, 2023.

➤ **Patent:**

- ***Therapeutic evaluation of Compound 1 for the possible treatment of typhoid.***

Indian Patent No. 331376 Grant on: February 05, 2020

- ***Pharmaceutical combination for blocking the attachment of COVID-19 with its target cells and immunomodulation-*** Indian Patent Application number-202121005369 (2021).

➤ **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.
- Artificial Intelligence in Bioinformatics. VS Raj, A Priyadarshini, MK Yadav, **Pandey R.P.**, A. Gupta, A. Vibhuti, Artificial Intelligence in Bioinformatics, 2021.
- Immunology, Handbook of Biotechnology, 2021.
- Molecular Biology, Handbook of Biotechnology, 2021.
- Dipylidiasis, Ramendra Pati Pandey, and V. Samuel Raj, Textbook of parasitic zoonoses, 2021.
- Dicrocoeliasis, V. Samuel Raj, and Ramendra Pati Pandey, Textbook of parasitic zoonoses, 2021.
- Antimicrobial Resistance in Post-Pandemic Era, Asha Rani, Purnima Khatri, Ramendra Pati Pandey and Saif Hameed, <https://scind.org/article/Antimicrobial-Resistance-In-Post-Pandemic-Era>.
- One Health and Antimicrobial resistance, Gajala Deethamvali Ghouse Peer, Carlos R Prudencio, Antonio Charly da Costa, Elcio Leal, Chung-Ming Chang, Ramendra Pati Pandey, Pharma Focus America, <https://www.pharmafocusamerica.com/articles/one-health-and-antimicrobial-resistance>.
- Correlation of human microbiome and immune functioning with COVID- 19 infections: An overview, Springer book 2022.
- Ahmad, S., Dahiya, V., Vibhuti, A., **Pandey, R.P.**, Tripathi, M.K., Yadav, M.K. (2023). Therapeutic Protein-Based Vaccines. In: Singh, D.B., Tripathi, T. (eds) Protein-based Therapeutics. Springer, Singapore, ISBN 978-981-19-8248-4. https://doi.org/10.1007/978-981-19-8249-1_13
- Riya Mukherjee, Ramendra Pati Pandey, Chung-Ming Chang (2023). Waste treatment. Delve Publishing, Canada

Book:

- Concise notes in Biochemistry, BlueRose Publishers, 2021.
- Antimicrobial Resistance and One-Health Approaches, September 13, 2021, Ramendra Pandey, Arpana Vibhuti, Chung-Ming Chang, Eliva Press.

➤ **Publications:**

- [1]. Dutt Y, **Pandey RP**, Dutt M, Gupta A, Vibhuti A, Vidic J, Raj VS, Chang CM, Priyadarshini A. Therapeutic applications of nanobiotechnology. *J Nanobiotechnology*. 2023 May 6;21(1):148.
- [2]. Gunjan, Vidic J, Manzano M, Raj VS, **Pandey RP**, Chang CM. Comparative meta-analysis of antimicrobial resistance from different food sources along with one health approach in Italy and Thailand. *One Health*. 2022 Dec 22;16:100477.
- [3]. **Pandey RP**, Vidic J, Mukherjee R, Chang C-M. Experimental Methods for the Biological Evaluation of Nanoparticle-Based Drug Delivery Risks. *Pharmaceutics*. 2023; 15(2):612.
- [4]. do Socorro Fôro Ramos E, Bahia SL, de Oliveira Ribeiro G, Villanova F, de Pádua Milagres FA, Brustulin R, **Pandey RP**, Deng X, Delwart E, da Costa AC, Leal É. Characterization of Phietavirus Henu 2 in the virome of individuals with acute gastroenteritis. *Virus Genes*. 2023 Apr 1. doi: 10.1007/s11262-023-01990-4.
- [5]. Ghouse Peer G. D., Chang C. M., **Pandey R. P.**, Antimicrobial drug resistance from food sources. *Microb Health Dis* 2023; 5 (1): e820DOI: 10.26355/mhd_20233_820
- [6]. Ahmad S, Alrouji M, Alhajlah S, Alomeir O, **Pandey RP**, Ashraf MS, Ahmad S, Khan S. Secondary Metabolite Profiling, Antioxidant, Antidiabetic and Neuroprotective Activity of *Cestrum nocturnum* (Night Scented-Jasmine): Use of In Vitro and In Silico Approach in Determining the Potential Bioactive Compound. *Plants*. 2023; 12(6):1206.
- [7]. Ramos EdSF, Albreu WU, Rodrigues LRR, Marinho LF, Morais VdS, Villanova F, **Pandey RP**, Araújo ELL, Deng X, Delwart E, Da Costa AC, Leal E. Novel *Chaphamaparvovirus* in Insectivorous *Molossus molossus* Bats, from the Brazilian Amazon Region. *Viruses*. 2023; 15(3):606.
- [8]. Ghouse Peer Gajala Deethamvali and **Pandey RP***, Meta-analysis of Lung Cancer Patients in COVID-19, *Current Respiratory Medicine Reviews* 2023; 19(1) . <https://dx.doi.org/10.2174/1573398X18666220826111344>
- [9]. **Pandey RP***, Mukherjee Riya and Chang Chung-Ming, COVID-19: Recent Advances in Lung Ultrasound, *Current Respiratory Medicine Reviews* 2023; 19(1) . <https://dx.doi.org/10.2174/1573398X18666220901141351>
- [10]. Screening of traditional medicinal plant extracts and compounds identifies a potent antileishmanial diarylheptanoid from *Siphonochilus aethiopicus*. *Journal of Biomolecular Structure & Dynamics* (Accepted 2023).
- [11]. Ruby M, Gifford CC, **Pandey R**, Raj VS, Sabbisetti VS, Ajay AK. Autophagy as a Therapeutic Target for Chronic Kidney Disease and the Roles of TGF- β 1 in Autophagy and Kidney Fibrosis. *Cells*. 2023; 12(3):412. <https://doi.org/10.3390/cells12030412>
- [12]. Khatri P, Rani A, Hameed S, Chandra S, Chang C-M, **Pandey RP**. Current Understanding of the Molecular Basis of Spices for the Development of Potential Antimicrobial Medicine. *Antibiotics*. 2023; 12(2):270. <https://doi.org/10.3390/antibiotics12020270>
- [13]. Leal É, Ribeiro ESD, Monteiro FJC, Marques JP, Dos Santos Mendes D, Morais VS, Araújo ELL, **Pandey RP**, Chang CM, Deng X, Delwart E, da Costa AC, Lima K. *Aedes aegypti* Totivirus identified in mosquitoes in the Brazilian Amazon region. *Virus Genes*. 2022 Nov 17. doi: 10.1007/s11262-022-01955-z.
- [14]. Yogesh et al., Synthesis and Biological Characterization of Phyto-Fabricated Silver Nanoparticles from *Azadirachta indica*, *Journal of Biomedical Nanotechnology* (accepted 2022).
- [15]. Dutt Y, **Pandey RP**, Dutt M, Gupta A, Vibhuti A, Raj VS, Chang C-M, Priyadarshini A. Silver Nanoparticles Phytosynthesized through *Azadirachta indica*: Anticancer, Apoptotic, and Wound-Healing Properties. *Antibiotics*. 2023;
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- Member of Epidemiology Foundation of India
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References:

1) Prof. Jorge Kalil

Professor, Immunology
InCor/Department of Medicine
University of Sao Paulo, Brazil
jkalil@usp.br

2) Prof. G.P. Talwar

Director Research
Talwar Research Foundation
E-8, Neb Valley, Neb Sarai
New Delhi-110 068, India
gptalwar@gmail.com

3) Prof. Santosh K. Kar

Former Professor, SBT
Jawaharlal Nehru University
New-Delhi, India
santoshkariis@rediffmail.com

4) Prof. Rakesh Bhatnagar

Former Vice-Chancellor, Banaras Hindu University
Varanasi - 221005, U.P., India
rakeshbhatnagar@jnu.ac.in

5) Dr. Pawan Sharma

Former Senior Consultant- Healthcare
North Eastern Region-Biotechnology Programme
Management Cell (NER-BPMC)
New Delhi-110024, INDIA
Former Senior Research Scientist, ICGEB, New Delhi
pawan37@gmail.com

6) Dr. Vishwa Mohan Katoch

President, JIPMER, Puducherry and AIIMS, Madaurai
Former Director General, ICMR
vishwamohankatoch18@gmail.com

7) Prof. Nirmal Kumar Ganguly

Former Director General, ICMR
ganguly1nk@gmail.com