# PRANAV KUMAR PRABHAKAR

Listed in the World's Top 2% Scientist List for 2021, 2022, 2023, 2024 (Data Released by Stanford University)

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#### RESEARCHER PROFILE

WoS Researcher ID: G-1416-2010 Vidwan ID: 105944

Google Scholar ID: BDnsk00AAAAJ&hl=en

#### **EMPLOYMENT DETAIL**

➤ Professor, Department of Biotechnology, School of Engineering and Technology, Nagaland University, Meriema, Kohima, Nagaland-797004, India

- ➤ **Deputy Director**, Research and Development Cell (04 Oct 2024 to 29<sup>th</sup> March 2025) and **Professor (Research Cadre)**, Parul University, Vadodara, from 22<sup>nd</sup> July 2024 to 29<sup>th</sup> March 2025.
- ➤ **Head of the Department** of Research Impact and Outcome, Research and Development, Lovely Professional University Punjab; 17<sup>th</sup> July 2022 to 16<sup>th</sup> July 2024
- ➤ **Professor** at Lovely Professional University, Punjab; 11<sup>th</sup> September 2021 to 16<sup>th</sup> July 2024.
- ➤ **Associate Professor** at Lovely Professional University, Punjab; 01<sup>st</sup> August 2019 till 10<sup>th</sup> September 2021.
- ➤ **Assistant Professor** at Lovely Professional University, Punjab; 01<sup>st</sup> August 2011 till 30<sup>th</sup> July 2019.

# OTHER ACTIVITIES/ROLES

- Research coordinator and NAAC coordinator for the School of Allied Medical Sciences at Lovely Professional University, Punjab
- > Handled all the Research data for various accreditation bodies
- ➤ Dealt with all conferences organized at Lovely Professional University and publication of Conference Proceedings
- ➤ Headed the **Publication House** of Lovely Professional University
- ➤ Handled **Research Publication** centrally at Lovely Professional University
- ➤ Looking for the **Research impact and visibility of the university**

- Associated with the various committees of the universities and part of the **Board of Studies, curriculum development committee**, etc
- Actively involved in the curriculum design for MSc Clinical Biochemistry
- > Guiding Doctorate, postgraduate, and undergraduate students with research activities and their internships

# **EDUCATIONAL QUALIFICATION**

- > Doctor of Philosophy in Biotechnology at Indian Institute of Technology Madras (IIT Madras), Chennai (2011)
- ➤ Master of Science in Biochemistry at Science College, Patna (Department of Biochemistry), Patna University, Patna from 2001-2003
- ➤ Bachelor of Science in Chemistry at C M Science College Darbhanga, Lalit Narayan Mithila University, Darbhanga Bihar, from 1996-1999
- ➤ Intermediate from Bihar Intermediate Education Council, Patna, Bihar (1996)
- ➤ Matriculation from Bihar School Examination Board, Patna Bihar (1994)

#### **RESEARCH AREA**

- Mimic the signalling pathways in metabolic disorders (diabetes) with natural products.
- ➤ Combinations and alternative therapies for the management of diabetes mellitus and their secondary complications
- Elucidate molecular mechanisms and strategies for oral insulin delivery.

#### **RESEARCH AREA**

- ➤ P.K. Prabhakar, M. Doble. A target based therapeutic approach towards diabetes mellitus using medicinal plants (Invited Review). *Current Diabetes Review*. 2008, 4 (4), 291-308. (Cites per Doc: 3.26)
- ➤ P.K. Prabhakar, M. Doble. Synergistic effect of phytochemicals in combination with hypoglycemic drugs on glucose uptake in myotubes. *Phytomedicine*. 2009, 16(12), 1119-1126. (IF: 7.9)
- ➤ P.K. Prabhakar, M. Doble. Interaction of phytochemicals with hypoglycemic drugs on glucose uptake in L6 myotubes. *Phytomedicine*. 2011, 18(4), 285-291. (IF: 7.9)
- ➤ P. M. Sivakumar, **P.K. Prabhakar**, M. Doble. Synthesis, antioxidant evaluation and quantitative structure-activity relationship studies of chalcones. *Medicinal Chemistry Research*. 2011, 20(4), 482-492. (IF: 2.351)

- ➤ P.K. Prabhakar, S. Vijayaraghavan, J. Philip, M. Doble. Biocompatibility studies of functionalized CoFe2O4 magnetic Nanoparticles. *Current Nanoscience*. 2011, 7(3), 371-376. (IF: 1.52)
- ▶ P.K. Prabhakar, S. Raj, S. N. Sawant, M. Doble. Biocompatibility studies on polyaniline and polyaniline-silver nanoparticles coated polyurethane composites. *Colloids Surf B Biointerfaces*. 2011, 86 (1), 146-153. (IF: 5.99)
- ➤ P.K. Prabhakar, M. Doble. Mechanism of action of natural products used in the treatment of diabetes. *Chin. J. Integr. Med.* 2011, 17(8), 563-574. (IF: 2.63)
- ▶ **P.K. Prabhakar,** M. Doble. Synergistic interaction of berberine and arecoline with commercial oral antidiabetic drugs in 3T3-L1 adipocytes. *Ther Adv Endocrinol Metab*. 2011, 2(3), 103-114. (IF: 4.435)
- ▶ P.K. Prabhakar, M. Doble. Interaction of cinnamic acid derivatives with commercial hypoglycemic drugs on 2-deoxyglucose uptake in 3T3-L1 adipocytes. *J. Agric. Food Chem.* 2011, 59 (18), 9835-9844. (IF: 5.895)
- ➤ P.K. Prabhakar, R. Prasad, S. Ali, M. Doble. Effect of ferulic acid in combination with commercial antidiabetic drugs in streptozotocin-induced diabetic rats. Phytomedicine. 2013, 20(6), 488-494. (IF: 7.9)
- ➤ P.K. Prabhakar, A. Kumar, M. Doble. Combination therapy: A new strategy to manage diabetes and its complications. Phytomedicine. 2013, 21(2), 123-130. (IF: 7.9)
- R. D. Akhatala, J. A. Chelvane, P.K. Prabhakar, P. P. P. Vedanthi, M. Doble, B. Murthy. S., Generation of drugs coated iron nanoparticles through high energy ball milling. J. Appl. Phys. 2014, 115 (12), 124906-1-4. (IF: 2.877)
- S. U. Maaji, **P.K. Prabhakar.** Hypovitaminosis D in Type-2 Diabetes mellitus patients; variation with age, sex and season. *Indian J. Appl. Res.* 2014, 4 (6), 422-425.
- P. S. Chakarborty, H. Sapkota, P.K. Prabhakar. Synergistic Interaction of Cannabis and Garlic with Commercial Antibiotics. *Int. J. Pharmacogn. Phytochem. Res.* 2015, 7(1), 193-196.
- ➤ P. Popli, **P.K. Prabhakar.** Significance of Tacrolimus Monitoring to Optimize Immunosuppressive Therapy. *Int. J. Pharma Bio Sci.* 2015, 6(2), 191-198.
- ➤ P.K. Prabhakar. Pathophysiology of secondary complications of diabetes mellitus. Asian J. Pharm. Clin. Res. 2016, 9 (1), 32-36.
- ➤ Kirti, **P.K. Prabhakar.** Human papilloma virus-associated cervical cancer: A review. *Asian J. Pharm. Clin. Res.* 2016, 9 (3), 14-17.

- ➤ H. Kaur, M. H. Amini, **P. K. Prabhakar**, A. Singh, A. Suttee. Phytochemical Screening and Antimicrobial Activity of *Caesalpinia sappan L*. Leaves. *Int. J. Pharmacogn. Phytochem. Res.* 2016, 8(6), 1064-1069.
- ➤ G. Kaur, **P.K.Prabhakar**, U.R. Lal, A. Suttee. Phytochemical and Biological Analysis of Tinospora cordifolia. International Journal of Toxicological and Pharmacological Research.2016, 8(4), 297-305.
- A. Jmatia, D. Roy, R. Shil, **P.K.Prabhakar.** Bacteriological profile and antimicrobial resistance patterns isolates in pus samples at Agartala Government Medical College. *Asian J. Pharm. Clin. Res.* 2017, 10 (1), 1-3.
- N. Neupane, M. Kaur, **P.K.Prabhakar.** Treatment of Hashimoto's thyroiditis with herbal medication. International Journal of Green Pharmacy. 2017, 11(3), S343-S347.
- R. P. Jayaswal, **P.K.Prabhakar. Probiotics** A new diabetes management tool. International Journal of Green Pharmacy. 2017, 11(3), S395-S400.
- R. Nankar, P.K.Prabhakar, M. Doble. Hybrid drug combination: Combination of ferulic acid and metformin as anti-diabetic therapy. Phytomedicine. 2017, 37, 10-13. (IF: 6.66)
- R. P. Jayaswal, M. Vijaysimha, **P.K.Prabhakar.** Gut microbiota and diabetes mellitus-An interlinkage. *Asian J. Pharm. Clin. Res.* 2018, 11 (1), 13-16.
- A. Sharma, S. Devi, K. Singh, **P.K.Prabhakar.** Correlation of body mass index with thyroid-stimulating hormones in thyroid patient. *Asian J. Pharm. Clin. Res.* 2018, 11 (sp2), 65-68.
- N. Neupane, B. Kumari, J. Lakhanpal, A. Bhutani, P.K. Prabhakar. A Study of Procalcitonin as Biomarker in Sepsis Patients Admitted in Super Speciality Hospital. *Asian J. Pharm.* 2018, 12(4)(Suppl), S1408-S1412.
- ➤ Thomson Soni, **P.K. Prabhakar** (Shared first authorship), Sajid Hussain. Increasing Antibiotic Resistance in the Uropathogens. *Asian J. Pharm.* 2019, 13(1), 1-4.
- Anmol Sharma, Pawan Gupta, **P.K.Prabhakar.** Endogenous Repair System of Oxidative Damage of DNA. Current Chemical Biology, 2019, 13(2), 1-5.
- ▶ P.K. Prabhakar, Sivakumar, P.M. Protein Tyrosine Phosphatase 1B inhibitors: a novel therapeutic strategy for the management of type 2 diabetes mellitus. Current Pharmaceutical Design, 2019, 25(23), 2526-2539. (IF: 3.116)
- S. Sharma, J. Gupta, **P.K.Prabhakar**, P.Solanki, A.Rajput, P.Gupta. Phytochemical repurposing for identification of novel therapeutic benefits of Sabinene using in-silico and in-vitro approaches. Assay in Drug Development Technologies, 2019, 17(8), 339-351. (IF: 1.738)

- ➤ Kamaldeep Singh, Savita Devi, **P. K. Prabhakar.** Relationship of TSH with BMI in subclinical hypothyroid patients. Biointerface Res. Appl. Chem., 2019, 9(4), 4193-4198.
- ➤ Dinobandhu Nandi, Anshula Sharma, **P.K.Prabhakar.** Nanoparticle-assisted therapeutic strategies for effective cancer management. Current Nanoscience, 2020, 16(1), 42-50. (IF: 1.82)
- ➤ M.Banerjee, R.Khursheed, A.K.Yadav, S.K.Singh, M.Gulati, D.K.Pandey, P.K.Prabhakar, R.Kumar, O.Porwal, A.Awasthi, Y.Kumari, G.Kaur, C.Ayinkamiye, R.Prashar, D.Mankotia. A Systematic Review on Synthetic Drugs and Phytopharmaceuticals Used to Manage Diabetes. Current Diabetes Reviews, 2020, 16, 340-356.
- ▶ P.K.Prabhakar, Deepak Nath, Saurabh Singh, A. Mittal, D. S. Bhaghel. Formulation and evaluation of polyherbal anti-acne combination by using in-vitro model. Biointerface Res. Appl. Chem., 2020, 10(1), 4747 4751.
- S.Singh, S.K.Singh, B.Kumar, B.Kaur, A.Attri, R.Khursheed, P.Bawa, A.H.Malik, M.Gulati, N.K.Pandey, P.K.Prabhakar, D.S.Baghel, O.Porwal, A.K.Yadav. Effect of co-administration of herbal extracts with copper nanoparticles: A novel two-pronged approach in treating type 2 diabetes. Recent Innovation in Chemical Engineering, 2020, 13 (5), 366-378.
- ➤ **P.K.Prabhakar.** Siderophore and its application as antimicrobial agents. Current Molecular Pharmacology, 2020, 13(4), 295-305. (IF: 3.855).
- ➤ **P.K.Prabhakar,** Jeena Gupta. Natural SIRT1 modifiers as promising therapeutic agents for improving diabetic wound healing. Phytomedicine, 2020, 76, 153252 (IF: 6.66).
- ➤ P.K.Prabhakar, Lakhanpal, J. Recent advances in the nucleic acid-based diagnostic tool for coronavirus. Molecular Biology Reports, 2020, 47, 9033–9041. (IF: 2.742).
- Abdur Rahim Abidi, **P.K.Prabhakar.** Association between diabetes and thyroid disorders. Plant Archive. 2020; 20(2); 3175-3182.
- ➤ P.K. Prabhakar. Bioreactor strategies to increase the engineered protein production in Lactococcus lactis. Plant Archive. 2020; 20(2); 3183-3191.
- ➤ J. Lakhanpal, N. Banu, **P. K. Prabhakar.** Pathophysiology and diagnostic approach of covid-19 an overview. Plant Archive. 2020; 20(2); 3844-3849.
- ➤ D. S. Gaikwad, N. R. Sharma, **P. K. Prabhakar**, J. Singh J. Application of ginger and cinnamon in poultry nutrition on growth performance: A review. Plant Cell Biotechnology and Molecular Biology. 2020; 21(71-72); 172 180.

- ▶ P. K. Prabhakar (Editorial). Pathophysiology of diabetic secondary complication and their management. Current Diabetes Reviews, 2021; 17(4); 395 396.
- V. Manimaran, P. M. Sivakumar, J. Narayanan, S. Parthasarathi, P. K. Prabhakar. Nanoemulsions- A better Approach for Anti Diabetic Drugs Delivering. Current Diabetes Review. 2021; 17(4); 486–495.
- ➤ C.P. Bineesh, S. Maity, D. S. Gaikwad, N. Anush, N. Kaur, P. K. Prabhakar. Interaction of red onion and amla with vancomycin against Escherichia coli and Klebsiella pneumoniae. Plant Cell Biotechnology and Molecular Biology. 2021; 22(5-6); 100 107.
- Aishwarya, V. Chopra, A. Singh, M. Vyas, N. Khurana, P. K. Prabhakar, M. Gupta, P. Yadav, P. K. Prajapati. Comprehensive review on anticarcinogenic effect of abrin. Plant Cell Biotechnology and Molecular Biology. 2021; 22(19-20); 79-88.
- S. Sharma, D. S. Baghel, A. Mittal, S. Singh, B. Kumar, P. K. Prabhakar, A. K. Chaudhary. Polyherbal formulation development and assessment of its potential against urolithiasis (Mutrakricchra) by in-vitro technique. Research Journal of Pharmacy and Technology. 2021; 14(4); 1982 1988.
- ➤ N. Choudhary, **P. K. Prabhakar**, G. L. Khatik, S. R. Chamakuri, D. Tewari, A. Suttee. Evaluation of acute toxicity, in-vitro, in-vivo antidiabetic potential of the flavonoid fraction of the plant chenopodium album l. Pharmacognosy Journal. 2021; 13(3); 765 779.
- ➤ P. M. Sivakumar, V. Prabhawathi, A, Zarrabi, S. Akthar, P. K. Prabhakar. Current Trends in the Therapeutic Strategies for Diabetes Management. Current Medicinal Chemistry, 2021, 28(23), 4616–4637 (IF: 4.74).
- ➤ P. M. Sivakumar, V. Prabhawathi, Prem Kumar, P. K. Prabhakar. Role of GLP-1 analogues in the management of Diabetes and its secondary complications. Mini-Review in Medicinal Chemistry 2021, 21(20), 3166-3182 (IF: 3.737).
- R. Dubey, **P.K. Prabhakar**, J. Gupta. Epigenetics: key to improve delayed wound healing in type 2 diabetes. *Mol Cell Biochem*, 2021, 477(2), 371-383 (IF: 3.842).
- ➤ R. Dubey, **P.K. Prabhakar**, J. Gupta. Identification of Structurally Similar Phytochemicals to Quercetin with High SIRT1 Binding Affinity and Improving Diabetic Wound Healing by Using In silico Approaches. Biointerface Res. Appl. Chem. 2022. 12(6). 7621-7632.
- ➤ P. M. Sivakumar, Sibel Cetinel, **P. K. Prabhakar,** Neelakandan, R. V. Prabhawathi. Molecular insights on the Therapeutic effect of Selected Flavonoids on Diabetic Neuropathy. Mini-Review in Medicinal Chemistry 22(14), 1828-1846. (IF: 3.862).

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- Hayder M. Al-kuraishy, Ali I. Al-Gareeb, Gomaa Mostafa-Hedeab, Rupal Dubey, P. K. Prabhakar, Gaber El-Saber Batiha. Covid 19 and diabetes: do novel drugs for diabetes will help in covid 19? Current Molecular Pharmacology, 2022 (Accepted) (IF: 3.855).
- Y. Mishra, H. Ibrahim M. Amin, V. Mishra, M. Vyas, **P.K. Prabhakar,** M. Gupta, R. Kanday et al. Application of nanotechnology to herbal antioxidants as improved phytomedicine: An expanding horizon. *Biomedicine & Pharmacotherapy* 2022, 153: 113413. (IF: 7.419).
- Abhilasha Suwalka, Balram Sharma, **P. K. Prabhakar.** A Study on Diabetic Patients Related To Functions of Fibroblast Growth Factor-23 on Bone Metabolism. *Journal of Pharmaceutical Negative Results*, 2022 (13, sp issue 5), 1008-1022.
- ➤ P.K. Prabhakar, N. Khurana, M. Vyas, V. Sharma, G. El-Saber Batiha, H. Kaur, J. Singh, D. Kumar, N. Sharma, A. Kaushik, R. Kumar. Aspects of Nanotechnology for COVID-19 Vaccine Development and Its Delivery Applications. *Pharmaceutics*, 2023, 15(2):451 (IF: 6.525).
- Aayushi Velingkar, Sugunakar Vuree, **P. K. Prabhakar**, Ranjender Rao Kalshikam, Suresh Kondeti. Fibroblast Growth Factor 21 as a Potential Master Regulator in Metabolic Disorders. *American Journal of Physiology-Endocrinology and Metabolism*, 2023 (accepted), DOI: https://doi.org/10.1152/ajpendo.00244.2022 (IF: 5.9).
- ➤ P. K. Prabhakar, Gaber El-Saber Batiha. Potential Therapeutic Targets for the management of Diabetes Mellitus Type 2. *Current Medicinal Chemistry*, 2023, DOI: http://dx.doi.org/10.2174/0929867330666230501172557 (IF: 4.740).
- ➤ P. K. Prabhakar. Combination therapy, a new tool for the management of Obesity. Endocrine Metabolic Immune Disorders-Drug Targets, 2024, 24(4), 402-417. DOI: https://doi.org/10.2174/1871530323666230825140808 (IF: 1.9)
- Sweta Kumari, Biplab Pal, Sanjeev Kumar Sahu, **P. K. Prabhakar**, Devesh Tewari. Adverse events of clenbuterol among athletes: a systematic review of case reports and case series. *International Journal of Legal Medicine*, 2023, 137(4), 1023-1037. DOI: https://doi.org/10.1007/s00414-023-02996-1(IF: 2.79).
- Mutiu A. Alabi, Marvis A. Arowolo, Asiat Na'Allah, P. K. Prabhakar, Eberechukwuka G. Linus, Sesan A. Aransiola, Hassan T. Abdulameed, Beloved K. Ajani, Naga Raju Maddela, Ram Prasad. Phytochemicals and anticancer activity of methanol extract of

- Trigonella foenum-greacum seed on breast cancer cell lines. *South African Journal of Botany*. 2023, 160, 273-281. DOI: https://doi.org/10.1016/j.sajb.2023.07.021 (IF: 3.1).
- Sivakumar PM, Prasad R and P. K. Prabhakar Editorial: Advanced approaches in the diagnosis and treatment of diabetes mellitus and secondary complications. *Front. Endocrinol.* 2023, 14:1291637. DOI: https://doi.org/10.3389/fendo.2023.1291637
- ➤ Bineesh CP, Vipin Viswanath, Vimal MV, P. K. Prabhakar. Association of Adipokine Levels and Insulin Resistance in Prediabetes: Case—Control Study in a Tertiary Care Hospital in North Kerala. *International Journal of Diabetes in Developing Countries*, 2024, 44, 373–378. DOI: https://doi.org/10.1007/s13410-023-01248-7
- ➤ P. K. Prabhakar. Targeting Stearoyl-CoA Desaturase: A novel approach for diabetes therapy. *Medical Hypotheses* 2024: 111301. DOI: <a href="https://doi.org/10.1016/j.mehy.2024.111301">https://doi.org/10.1016/j.mehy.2024.111301</a> (IF: 4.7)
- Laxmi, A., Garg, S.S., Singh, A. **P. K. Prabhakar**, Gupta, J. Histone Modifying Potential of Dietary Phytochemicals: Implications in Treating Breast Cancer. *Current Pharmacology Reports*. 2023, 9, 489–510 DOI: https://doi.org/10.1007/s40495-023-00338-8
- Shahid, Ayaz, Prakash, Ajit, Mustafa, Saad and P. K. Prabhakar Editorial: New mechanisms for anti-cancer drugs. *Frontiers in Pharmacology*, 2024, 15, 1387942 DOI: DOI: https://doi.org/10.3389/fphar.2024.1387942 (IF: 0.9)
- ➤ P. K. Prabhakar Editorial: COVID-19 and diabetes: Current findings and future perspectives. Front. Endocrinol. 2024, 15: 1421721. DOI: https://doi.org/10.3389/fendo.2024.1421721
- ➤ P. K. Prabhakar, Bineesh CP, Vipin Viswanath, Vimal MV. Association of Adipokine Gene Polymorphism and Serum Adipokine Levels in Prediabetic Population. *Letters in Applied NanoBioSciences*. 2024, 13(2), 76. DOI: <a href="https://doi.org/10.33263/LIANBS132.076">https://doi.org/10.33263/LIANBS132.076</a>
- ➤ Keshav Anand, Debojyoti Mandal, **P. K. Prabhakar**. Phytochemical profiling, in-vitro antioxidant, and antidiabetic evaluation of Morchella esculenta: a comprehensive investigation. *Letters in Applied NanoBioSciences*. 2025, 14 (1), 1-13. DOI: https://doi.org/10.33263/LIANBS141.043
- ➤ P. K. Prabhakar, Indu Bala, Navita Gupta. The Effects of Thymosin Alpha-1 on Macrophages: A Cytological and Anti-Inflammatory Study. *Biointerface Research in Applied Chemistry*. 2023, (Under Review)

- Sanjeev Kumar Sahu, P. K. Prabhakar, Manish Vyas. Therapeutical potential of natural products in treatment of pancreatic cancer: a review. *Mol Biol Rep*, 2025, 52, 179. DOI: https://doi.org/10.1007/s11033-025-10287-8
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- Afzal, Mohd, Shagun Agarwal, Rabab H. Elshaikh, Asaad M. A. Babker, Einas Awad Ibrahim Osman, R. K, Choudhary, S. Jaiswal, Farhana Zahir, **P. K. Prabhakar**, Anass M. Abbas, Manar G. Shalabi, Ashok Kumar Sah. Innovative Diagnostic Approaches and Challenges in the Management of HIV: Bridging Basic Science and Clinical Practice. 2025, *Life* 15 (2), 209. DOI: https://doi.org/10.3390/life15020209 (IF: 3.2)
- Rupendra Shakya, P.M. Sivakumar, P. K. Prabhakar. Gut Microbiota and Diabetes: Pioneering New Treatment Frontiers. *Endocrine Metabolic Immune Disorders- Drug Targets*. 2025. DOI: http://dx.doi.org/10.2174/0118715303342579241119155225 (IF: 1.9)
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- Satyajit Mohanty, Nikita Nayak, Tuhin Mukherjee, Shivangi Kumari, **P. K. Prabhakar**, Ashok Pattnaik. Mobilizing Stockpile of Nature: Phytochemicals, Herbal Extracts, and Dietary Supplements for Managing Metabolic Diseases with Concentric Focus on Obesity. *Endocrine Metabolic Immune Disorders-Drug Targets*, 2025. DOI: http://dx.doi.org/10.2174/0118715303316634240822073810 (IF: 1.9)
- ➤ Shyam Kalia, **P. K. Prabhakar**, Vikas Dhiman, Nupur Prasad. Ag-Zn co-doped CoFe2O4 and their composite/s with ZnO/Ag nanoparticles for antibacterial activities. Inorganic Chemistry Communications. 2023, (Under Review)
- ➤ Debojyoti Mandal, Atrayee Mukherjee, Jeena Gupta, P. K. Prabhakar. Pollution in Paradise: Unveiling the Consequences of Plastic Waste in Oceans and Marine Life. Science of the Total Environment. 2023, (Under Review)

# **CONFERENCES PROCEEDINGS (INTERNATIONAL)**

- R.D. Akhatala, J.A. Chelvane, **P. K. Prabhakar**, B. Venkateswarlu, M. Doble, B. S. Murthy. Influence of Surfactant Variation on Effective Anisotropy and Magnetic Properties of Mechanically Milled Magnetite Nanoparticles and Their Biocompatibility. IEEE Transactions on Magnetics. 2014, 50(11), 1-4 (IF: 1.848).
- ➤ Sharma, A., S. Devi, K. Singh, **P. K. Prabhakar**. Correlation of Body Mass Index with Thyroid-Stimulating Hormones in Thyroid Patient. Asian Journal of Pharmaceutical and Clinical Research, 2018, 11 (14), 65-68, doi:10.22159/ajpcr.2018.v11s2.28580.
- ➤ Bineesh Chala Poyil, Vimal M. Veetil, Vipin Viswanath, **P. K. Prabhakar.** Significance of adipokine level and insulin resistance as a predictor of prediabetes. AIP Conf. Proc. 2023; 2800 (1): 020034. https://doi.org/10.1063/5.0162730
- S. Kaliappan, P. K. Prabhakar, Joseph Manuel, Pravin P. Patil, M. Sathya Prakash, Baskara Sethupathy Subbaiah; Recent advancements in aluminum metal matrix composites: A review of processing and application. AIP Conf. Proc. 2023; 2800 (1): 020130. https://doi.org/10.1063/5.0168369
- ➤ Kaliappan Seeniappan, Rajkamal M. Dhavamani, Baskara Sethupathy Subbaiah, Pravin P. Patil, Ramanathan Pichappan, P. K. Prabhakar. Material characterization and testing using linear polarization optical coherence tomography. AIP Conf. Proc. 2023; 2800 (1): 020131. https://doi.org/10.1063/5.0162703
- ➤ P. K. Prabhakar, B. S. Subbaiah, V. Balaji, P. P. Patil, R. K. Meivel Dhavamani, S. Kaliappan; Elemental stack method optical and surface properties of Fe doped ZrO2. AIP Conf. Proc. 2023; 2800 (1): 020132. https://doi.org/10.1063/5.0162705
- ➤ Kadirvel Arumugam, Mohammed Ali Haleem, Kaliappan Seeniappan, Pravin P. Patil, V. Balaji, **P. K. Prabhakar.** Ni addition results in the formation of a bulk metallic glass matrix composite based on ductile Cu. AIP Conf. Proc. 2023; 2800 (1): 020133. https://doi.org/10.1063/5.0162704
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- S. Kaliappan, Baskara Sethupathy Subbaiah, P. K. Prabhakar, Pravin P. Patil, S. Socrates, V. Balaji; Sand-casting process parameters influence casting mechanical properties in stainless steel alloys. AIP Conf. Proc. 2023; 2800 (1): 020235. https://doi.org/10.1063/5.0167918
- ➤ P. K. Prabhakar, Joseph Manuel, S. Kaliappan, Pravin P. Patil, T. Mothilal, H. Mohammed Ali; Mechanical and wear properties of 7075 Al reinforced with graphite

- particulate metal matrix composites: Preparation and evaluation. AIP Conf. Proc. 2023; 2800 (1): 020239. https://doi.org/10.1063/5.0167686
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- ➤ Indu Bala, Priti Panwar, Navita Gupta, **P. K. Prabhakar**; Recent developments in the management of Rheumatoid arthritis. AIP Conf. Proc. 2024; 2986 (1): 030157. https://doi.org/10.1063/5.0192437
- Abhilasha Suwalka, Balram Sharma, **P. K. Prabhakar**; Role of fibroblast growth factor-23 in pre-diabetes patients. AIP Conf. Proc.; 2986 (1): 030085. https://doi.org/10.1063/5.0192434
- ➤ Harpreet Kaur Massaon, Sanjeev Kumar, **P. K. Prabhakar**; Association between serum ferritin level and risk of type 2 diabetes mellitus. AIP Conf. Proc.; 2986 (1): 030158. https://doi.org/10.1063/5.0192436
- ➤ Glazkova Valeriya, Sudhir Jugran, **P. K. Prabhakar**, Shweta Bansal, Sunny Saxena. IoT-Enabled Indoor Navigation: Data-Driven Insights for Seamless User Experience from the Indoor Navigation Test. BIO Web Conf. 86 01108 (2024)DOI: https://doi.org/10.1051/bioconf/20248601108
- Verstina Natalia, Yashwant Singh Bisht, P. K. Prabhakar, Rishabh Arora, Sudipta K Mishra and N. Rajasekhar. Al and Autonomous Systems: An Experiment in Industry 5.0 Transformation. BIO Web Conf., 86 (2024) 01094 DOI: https://doi.org/10.1051/bioconf/20248601094
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- ➤ Verstina Natalia, Ankita Joshi, **P. K. Prabhakar**, Kaushal Kumar and Neeru Singla. Effective Emergency Communication through Public Displays: A Real-Time Evaluation with the Emergency Communication Display Test. BIO Web Conf., 86 (2024) 01105, DOI: https://doi.org/10.1051/bioconf/20248601105.

# **BOOK AUTHORED**

➤ P.K. Prabhakar. MCQ in Clinical Biochemistry, Nova Science Publisher, USA, October 2019 (978-1-53616-174-8) (Published).

- ➤ P. K. Prabhakar, S. Hemaishwaya, and M. Doble (Author). Herb-Drug Combinations: A New Complementary Therapeutic Strategy. Springer Nature, 2022 (978-981-19-5125-1) (Published).
- ➤ M S Danboza, **P. K. Prabhakar**, Anand Kumar (Author). Cancer Markers. Lap Lambert Academic Publishing, 2023 (978-6206138631) (Published).

#### **BOOK EDITED**

- ➤ P. K. Prabhakar and V. Mishra. Antimicrobial Resistance: Opportunities and Challenges. Nova Science Publisher, 2021 (978-1-53617-943-9) (Published).
- ➤ P. K. Prabhakar, and Ajit Prakash. Cutting-Edge Applications of Nanomaterials in Biomedical Sciences. IGI Global, 2023 (9798369304501) (Published).
- > P. K. Prabhakar, Sandeep Sharma, and Manish Vyas. Textbook in Embryology. Nova Science Publisher, 2023 (Published).
- ➤ P. K. Prabhakar. Biomedical Research Developments for Improved Healthcare. IGI Global, 2024 (9798369319222) (Published).
- ➤ P. K. Prabhakar. Reshaping Healthcare with Cutting Edge Biomedical Advancements. IGI Global, 2024 (9798369344392) (Published).
- ➤ P. K. Prabhakar, Walter Leal (Editors). Preserving Health, Preserving Earth: The Path to Sustainable Healthcare. Springer, 2024 (978-3-031-60545-1) (Published).
- ➤ P. K. Prabhakar, Neeta Raj Sharma (Editors). Marine Metabolites in Disease Management. IGI Global, 2024 (9798369358788) (Published).
- ➤ P. K. Prabhakar. The Potential of Cancer Biomarkers: From Discovery to Clinical Application. Elsevier, 2025 (9780443292798) (Production).
- ➤ P. K. Prabhakar, Arun Kumar Singh, Neeraj Mishra, Sumel Ashique (Editors). Advances in DNA and mRNA-Based strategies for Cancer Immunotherapy. Elsevier, 2025 (9780443344954) (Production).
- ➤ P. K. Prabhakar, Pushan Kumar Dutta, Ahmed Hamad, A.K. Haghi (Editors). Food and Industry 5.0: Transforming the Food System for a Sustainable Future. Springer, 2025 (978-3-031-76760-9) (Production).
- ➤ P. K. Prabhakar. The Role of Reactive Oxygen Species in Human Health and Disease. IGI Global, 2025 (9798369379196) (Production).
- ➤ P. K. Prabhakar. Pathways to Healing: Advancements in Cancer Therapy. Nova Science Publisher, 2025 (00000000) (Production).

- ▶ PP. K. Prabhakar and Tarun Kumar Upadhyay. Healing from the Depths: Marine Metabolites in Disease Management. Nova Science Publisher, 2025 (0000000) (Production).
- ➤ P. K. Prabhakar, Arun Kumar Singh, Neeraj Mishra, Anoop Kumar (Editors). Cellular Therapies for Cancer Treatment: Advancements in Drug Delivery Strategies. Elsevier, 2025 (9780443341427) (Ongoing).

# **BOOK CHAPTERS**

- ➤ P. K. Prabhakar, M.Doble. Mechanism of action of medicinal plants towards Diabetes mellitus A review, Recent Progress in Medicinal Plants, Studium Press, LLC, USA, 2008, 22(12), 181-204. (19 Citation) (ISBN: 1-933699-12-4)
- ➤ P. K. Prabhakar. Nutraceuticals as Therapeutic Agent: A Novel Approach. Recent Progress in Medicinal Plants, Studium Press, USA, 2015, 42(8), 141-156. (ISBN: 1-626990-79-4)
- ➤ P. K. Prabhakar. Animal Models in Type 2 Diabetes Research. Recent Progress in Medicinal Plants, Studium Press, USA, 2015, Volume 43(24), 525-550. (ISBN: 1-626990-80-8)
- ➤ P. K. Prabhakar. Hypoglycaemic potential of mushroom and their metabolites. In New and Future Developments in Microbial Biotechnology and Bioengineering: Recent Advances in Application of Fungi and Fungal Metabolites: Applications in Healthcare. Elsevier. 2020. (ISBN:978-0-12821-006-2)
- ➤ P. K. Prabhakar, Y. Mishra, V. Mishra. Potential preventive and therapeutic role of probiotics in the Cancer. In Probiotics in Cancer Therapy. Springer Nature Singapore, 2020. (ISBN: 978-981-15-8214-1)
- ➤ P. K. Prabhakar et al., Infectious Pathogens, Pathogenesis, Antimicrobial Therapy, Antimicrobial Resistance, and Surveillance Measures. In Antimicrobial Resistance: Opportunities and Challenges. Nova Science Publisher, 2020. (ISBN: 978-1-53617-943-9)
- ➤ D. Shukla, S. Saxena, P. K. Prabhakar. Novel therapeutic approaches for gastrointestinal malignancies. In Novel therapeutic approaches for gastrointestinal malignancies. Springer Nature Singapore. 2020. (ISBN: 978-981-15-5470-4)
- ➤ P. K. Prabhakar. Liquid chromatography-mass spectrometry (LCMS): advanced tool for the microbial proteomics analysis. In Microbial Proteomics: Development in Technologies and Applications. Bentham, 2021. Chapter 3; 36-60 (ISBN: ISBN: 978-

- 981-14-9142-9 (Print); ISBN: 978-981-14-9141-2 (Online) (DOI: http://dx.doi.org/10.2174/97898114914121200101)
- ➤ P. K. Prabhakar. Colorectal cancer: A model for the study of cancer immunology. In Colon Cancer Diagnosis and Therapy Vol-1. Springer Nature Singapore, 2021 (ISBN: 978-3-030-63368-4).
- ➤ M. Merlin, P. K. Prabhakar, D. Shukla, A. K. Tiwari, S. Saxena. Extracellular Vesicles in Colorectal Cancer Progression, Metastasis, Diagnosis, and Therapy. In: Vishvakarma N.K., Nagaraju G.P., Shukla D. (eds) Colon Cancer Diagnosis and Therapy. Springer Nature Singapore, (2021). Cham. https://doi.org/10.1007/978-3-030-64668-4 17
- Manju, P. K. Prabhakar. Targeting Molecular and Cellular Mechanism in Rhinovirus Infection. In Targeting Cellular Signaling Pathways in Lung Diseases. Springer Nature Singapore, (2021). (ISBN: 978981336826-2). https://doi.org/10.1007/978-981-33-6827-9 22
- Manu, Victoria, Thomson Soni, **P. K. Prabhakar**. Pathophysiology of Poly Cystic Ovarian Syndrome. In Polycystic Ovary Syndrome. Intechopen, (2022). (ISBN: 978-1-80355-382-5).
- ➤ Debojyoti Mandal, Keshav Anand, **P. K. Prabhakar**. Biomedical Applications of Nanofluids in Drug Delivery. In Novel Technologies in Biosystems, Biomedical and Drug delivery. Springer Nature Singapore, (2023). (ISBN: 978-981-99-5280-9). https://doi.org/10.1007/978-981-99-5281-6 5
- ➤ P. K. Prabhakar, Yachana Mishra. Natural Products in the Treatment of Diabetes: An Insight into the Mechanism of Action. In Management of Diabetes Mellitus Based on Natural Products. Nova Science Publisher, 2023. (ISBN: 979-8-88697-853-7).
- ➤ P. K. Prabhakar, Yachana Mishra. A Targeted Therapeutic Approach Based on Medicinal Plants in the Management of Diabetes Mellitus. In Management of Diabetes Mellitus Based on Natural Products. Nova Science Publisher, 2023. (ISBN: 979-8-88697-853-7).
- ➤ Ab Nasir Sheikh, Raveena Kumari and **P. K. Prabhakar**. Biochemistry of Human Fertilization. In Textbook of Clinical Embryology. Nova Science Publisher, 2023. (ISBN: 979-8-89113-317-4)
- P. K. Prabhakar. (2024). Targeted Nanotherapies for Diabetic Complications. In P. K. Prabhakar & A. Prakash (Eds.), Cutting-Edge Applications of Nanomaterials in Biomedical Sciences (pp. 178-200). IGI Global. https://doi.org/10.4018/979-8-3693-0448-8.ch006

- ➤ P. K. Prabhakar. (2024). Advancements in Precision Medicine: Tailoring Healthcare to Individual Needs. In P. Prabhakar (Ed.), Biomedical Research Developments for Improved Healthcare (pp. 310-326). IGI Global. https://doi.org/10.4018/979-8-3693-1922-2.ch015
- ➤ Kadir, A. K., P. K. Prabhakar, Shemanto, M. U., Sharfaraz, A., Tripura, S., Akhter, E., Urmi, R. A., Kundu, J., & Dutta, T. (2024). Nanomedicine: A New Frontier in Drug Delivery Systems. In P. Prabhakar (Ed.), Reshaping Healthcare with Cutting-Edge Biomedical Advancements (pp. 50-80). IGI Global. https://doi.org/10.4018/979-8-3693-4439-2.ch004
- ➤ Kadir, A. K., P. K. Prabhakar, Ferdause, J., Jubaira, S., Tasnim, M., Monima, M., Shemanto, M. U., Kundu, J., Akhter, R., Ura, A. A., & Tisa, M. A. (2024). Leveraging Innovative Vaccines in Conquering Emerging Infectious Diseases. In P. Prabhakar (Ed.), Reshaping Healthcare with Cutting-Edge Biomedical Advancements (pp. 81-116). IGI Global. https://doi.org/10.4018/979-8-3693-4439-2.ch005

# **ORAL PRESENTATION**

- ➤ P.K. Prabhakar. Synergistic activity of caffeic acid with oral hypoglycemic drugs for glucose uptake in rat adipocytes at LPUNASYACON 2016 at Lovely Professional University Punjab on 22-23 April 2016.
- ➤ P.K. Prabhakar, M. Doble. Antidiabetic activity of ferulic acid in combination with oral antidiabetic drugs in streptozotocin-induced diabetic rats at 3rd Bhartiya Vigyan Sammelan 2012 at Lovely Professional University Punjab on 11-14 Oct 2012.
- ➤ P.K. Prabhakar, M.Doble. Glucose uptake stimulatory activity of Arecoline in L6 myotubes at 3rd DiabetesIndia International Conference at Bangalore on 05-07th Dec, 2008.
- ➤ P.K. Prabhakar, U. Kumar, M. Doble. A study on lipoprotein pattern in case of Diabetes Mellitus type 2 under treatment of various hypoglycemic drugs at 36th Annual Scientific Meeting of Research Society for the Study of Diabetes in India at Hyderabad on 21-23rd Nov, 2008.

## POSTER PRESENTATION

- ➤ Dandamudi R.B., Kumar D.R., **P.K.Prabhakar**, Vijayalakshmi V., Doble M., Rao G.N. Insulinotropic and glucose uptake effects of Pongamia pinnata flower extract at 98th Indian Science Congress at Kattankulatur, Tamil Nadu, Jan 2011.
- ➤ P.K.Prabhakar, M.Doble. Phytochemicals: a safe tool to manage diabetes at RSC West India Ph.D. Students symposium 2010, in Goa University, Goa, 03-04th Sep, 2010

- ➤ P.K.Prabhakar, J.Philip, M.Doble. Synthesis and Biocompatibility studies on CoFe2O4 magnetic Nanoparticles at International Conference on Nano Science & Nanotechnology (ICONSAT 2010) in IIT Bombay, on 17-20th Feb 2010
- ➤ P.K.Prabhakar, M.Doble. Glucose uptake stimulatory activity of Ferulic acid in L6 myotubes at 20th World Diabetes Congress organized by International Diabetes Federation (IDF) in Montreal, Canada on 18-22nd October 2009
- ➤ P.K.Prabhakar, M.Doble. Glucose uptake stimulatory activity of chlorogenic acid in L6 myotubes at 2nd International Conference on Advanced Technologies & Treatments for Diabetes at Athens, Greece on 25-28th February 2009
- ➤ P.K.Prabhakar, M.Doble. Effect of berberine on the glucose uptake in L6 myotubes at 12th International Conference on the Interface of Chemistry-Biology in Biomedical Research in BITS PILANI, 22-24th Feb, 2008

#### FDP AS RESOURCE PERSON

- FDP on the topic "Workshop on Conducting Quality Projects and Dissertations" at the Lovely Professional University campus on 26th Sep. 2015.
- ➤ FDP on the topic "Secondary Complications of Diabetes Mellitus and Alternative Therapy" at Lovely Professional University campus on 20th Aug. 2016.
- FDP on the topic "Live Projects and Research Proposals" at Lovely Professional University campus on 14th Oct. 2017.
- ➤ "Short Term Course on Scientific Writing & Communication" at Lovely Professional University campus on 25th May 2021 to 01st June 2021.
- ➤ "Short Term Course on Scientific Writing & Communication" at Lovely Professional University campus on 26th July 2021 to 02nd August 2021.
- ➤ "Online FDP in Career Building in Higher Education and Research" organized by Maharana Pratap College of Pharmacy, Kanpur (UP) on 6th Sept 2021 to 10th Sept 2021.

#### FDP AS PARTICIPANT

- FDP on the topic "Immunohistochemistry, Histopathology, Histotechnology, Cytology" at Lovely Professional University campus on 30th June- 02nd July. 2014.
- > FDP on the topic "Bioinformatics: peptides & proteins in the therapeutics & software application" at Lovely Professional University campus on 06th July- 08th July. 2015.
- ➤ FDP on the topic "Workshop on Action Research-A Thinking Teacher" at Lovely Professional University campus on 20th Feb. 2016.

- FDP on the topic "Workshop on Patent search on Xlpat" at Lovely Professional University campus on 14th Jan. 2017.
- > FDP on the topic "Realtime PCR and Capillary Electrophoresis" at Lovely Professional University campus on 15th Apr. 2017.
- ➤ FDP on the topic "Workshop on Molecular Marker Analysis" at Lovely Professional University campus on 11th Nov. 2017.
- ➤ MHRD sponsored workshop on "Herbal Drugs: Issues & Challenges" at GNDU Amritsar from 16 Sept. 2019 to 22nd Sept. 2019.
- ➤ AICTE sponsored Short Term Training Programme on "Computed Aided Drug Designing" Organized by ASBASJSM College of Pharmacy, Bela (Punjab) from 11th Jan 2021 to 16th Jan 2021.
- ➤ DST-sponsored Short Term Training Programme on "Biostatistics & R-Programming" Organized by Ratnavel Subramanium College of Arts & Science, Coimbatore (Tamilnadu) from 09th Aug 2021 to 14th Aug 2021 and 16th Aug 2021 to 19th Aug 2021.
- ➤ Online FDP on "Research and Innovations in Paramedical and Allied Health Sciences" Organized by Department of Paramedical and Allied Health Sciences, Galgotias University, Greater Noida (UP) from 22nd Nov 2021 to 26th Nov 2021.

# **PATENTS**

- ➤ Vivek Gupta; P. K. Prabhakar; Sumit Kanchan, Enhancement Half-Life of Ethambutol by Chemical Modification Method, Lovely Professional University, Patent No. IN202011048331, Filed 2020-11-05 Published 2020-11-20
- ➤ P. K. Prabhakar; Vivek Gupta; Sumit Kanchan, Enhancement Half-Life of Metoprolol by Chemical Modification Method Thereof, Lovely Professional University, Patent No. IN202011049199, Filed 2020-11-11 Published 2020-11-27
- ➤ Deepak Nath; Dileep Singh Baghel; Saurabh Singh; Amit Mittal; **P. K. Prabhakar**, An Anti-Acne Formulation, Lovely Professional University, Patent No. IN202011019969, Filed 2020-05-12 Published 2020-10-16.

### **COPYRIGHTS**

- ➤ P. K. Prabhakar; Laboratory Manual MLT571 Clinical Biochemistry, Lovely Professional University, Registration No. L-74222/2018, Filed 2018-02-14.
- ➤ P. K. Prabhakar; Herb-drug combination therapeutic strategies for hypertension management, Lovely Professional University, Registration No. 176/2023-CO/L, Filed 2023-01-05.

- ▶ P. K. Prabhakar; Laboratory Molecular mechanism and Pathophysiology of diabetic neuropathy, Lovely Professional University, Registration No. 175/2023-CO/L, Filed 2023-01-05.
- ➤ P. K. Prabhakar; Schematic of the proposed role of flavonoids in management of diabetes neuropathy, Lovely Professional University, Registration No. 173/2023-CO/L, Filed 2023-01-05.
- ➤ P. K. Prabhakar; Combination of phytoconstituents and antifungal drugs to enhance antifungal efficacy, Lovely Professional University, Registration No. 313/2023-CO/L, Filed 2023-01-05.
- ▶ **P. K. Prabhakar**; Mechanism of action of antifungal drugs, Lovely Professional University, Registration No. 170/2023-CO/L, Filed 2023-01-05.
- ➤ Keshav Anand, **P. K. Prabhakar**; Phytochemical profiling of Morchella esculenta, Lovely Professional University, Registration No. 3491/2023-CO/L, Filed 2023-02-09.
- Abhilasha Suwalka, **P. K. Prabhakar**; Evaluating the Association of FGF-23 and IGF-1 Levels in Biochemical Marker with Type 2 Diabetes Mellitus Patients, Lovely Professional University, Registration No. 5228/2023-CO/L, Filed 2023-02-28.

#### **MEMBERSHIPS**

- ➤ Indian Science Congress (Life Member): L36022
- ➤ Royal Society of Chemistry- Membership Number- 457051
- American Chemical Society: Membership Number: 31483125
- Asia-Pacific Chemical, Biological& Environmental Engineering Society (APCBEES)
   Membership Number- 100254
- ➤ Asian Council of Science Editors- Membership Number 91.11928

#### RECOGNITIONS

- ➤ Organizing secretory for a national conference on Recent Trends on Biomedical Sciences 2015 at Lovely Professional University (20th March 2015)
- ➤ Committee member for LPUNASYACON-2016 (National Conference) organized at Lovely Professional University, on 22nd-23rd April 2016.
- Committee member for International Conference of Pharmacy-2017 (International Conference) organized at Lovely Professional University, on 7th-8th April 2017.
- Organizing secretory for national conference on Recent Trends on Biomedical Sciences 2018 at Lovely Professional University (16th March 2018).
- ➤ Organizing secretory for national conference on Recent Trends on Biomedical Sciences 2020 at Lovely Professional University in Virtual Mode (02nd-03rd July 2021).

- Co-convener for International conference on Materials for Emerging Technologies-2021 (ICMET-21) at Lovely Professional University in Virtual Mode (18th-19th February 2022).
- Convener for International Conference on Feminine Hygiene Management- Beyond Taboo (ICFHM-2022) at Lovely Professional University (25th 26th November 2022).

# **EDITORIAL BOARD MEMBERS**

- Frontiers in Endocrinology: Diabetes: Molecular Mechanisms (Associate Editor)
- > Current Diabetes Review Bentham Science (Associate Editorial Board Member)
- ➤ Endocrine, Metabolic & Immune Disorder Drug Target (Associate Editorial Board Member)
- ➤ Journal of Pure and Applied Microbiology
- > Journal of Applied Pharmaceutical Science
- > The Pharma Innovation
- > International Journal of Scientific Review and Research in Engineering and Technology
- > International Journal of Medical Research and Pharmaceutical Sciences
- > International Institute of Chemical, Biological & Environmental Engineering
- ➤ GSC Biological and Pharmaceutical Sciences (GSCBPS)

#### **REVIEWERS**

Ageing research reviews; Aging and disease; Asian journal of pharmaceutical and clinical research; Asian journal of pharmaceutics; Biofouling; Biomedicines; Brain sciences; Cancers; Chemical biology & drug design; Colloids and surfaces; COVID; Current chemical biology; Current issues in molecular biology; Current Pediatric Research; Current pharmaceutical design; Current research; Diabetes research and clinical practice; Diabetes, metabolic syndrome and obesity; Emerging microbes & infections; Foods; Indian journal of microbiology; International journal of environmental research and public health; International journal of food properties; International Journal of pharmacy and Pharmaceutical Sciences; Journal of Agricultural and Food Chemistry; Journal of Applied Polymer Science; Journal of Ayurveda and Integrative Medicine; Journal of Clinical Medicine; Journal of Complementary & integrative medicine; Journal of Enzyme Inhibition and Medicinal Chemistry; Review activity for Journal of herbal medicine; Journal of Microbial & biochemical technology; Journal of translational medicine; Life; Medical hypotheses; Nanomedicine; Pathophysiology; Pharmaceuticals; Phytomedicine; Phytotherapy research; Recent patents on drug delivery & formulation; SN Applied Sciences; Vaccines.

#### RESEARCH MENTORSHIP

- Research projects advised and mentored for three (03) undergraduates and two (02) postgraduates during my PhD research work
- > 05 PhD students defended; 3 PhD ongoing, 02 MSc students

#### Doctorate defended

- Role of Fibroblast Growth Factor (FGF-23) and Insulin-Like Growth Factor (IGF-1) in Bone Metabolism in the Case of Pre-Diabetes & Type 2 Diabetes Mellitus Patients. Dr. Abhilasha Suwalka; Registration Number: 11919675; Lovely Professional University)
- Single Nucleotide Polymorphism in Adipokine Genes and its Correlation with Plasma Level of Adipokines in Individuals with Prediabetes. Dr. Bineesh CP; Registration Number: 41800728; Lovely Professional University)
- Isolation, Purification, and Characterization of Antidiabetic Compounds
  Derived from Morchella esculenta. Dr. Keshav Anand; Registration Number:
  11919206; Lovely Professional University)
- Identification of SIRT1 (Silent mating type information regulation 2 homolog
  modifiers as promising therapeutic agents for improving reduced wound healing in Type II Diabetes. Dr. Rupal Dubey; Registration Number: 41800467;
  Lovely Professional University)
- Evaluation of the potential role of Thymosin alpha 1 in Bone remodeling. Dr.
  Indu Bala; Registration Number: 41700089; Lovely Professional University)

#### Postgraduate

- 0 2019-2020
  - Navpreet Kaur (Registration No: 11806572) M.Sc. Clinical Biochemistry: Effect of thyroid dysfunction on lipids profile.
  - Mohammad Sani Danboza (Registration No: 11814440), M.Sc. Clinical Biochemistry: The relevance of cancer markers in the diagnosis of different types of cancers

# 0 2017-2018

- Mohammad Zia Rasekh (Registration No: 11616689) M.Sc. Clinical Biochemistry: Effect of thyroid dysfunction on lipids profile
- Abdur Rahim Abidi (Registration No: 11613699) M.Sc. Clinical Biochemistry: Role of thyroid disorder in diabetes mellitus

#### 0 2016-2017

- Muhammad Shafi Bhat (Registration No: 11501798) M.Sc. Clinical Biochemistry: Association of Interleukin 13 Gene Variants in Allergic Rhinitis and Atopic asthma among Kashmiri Population-a hospitalbased study
- Jasjot Singh (Registration No: 11501800) M.Sc. Clinical Biochemistry: Hospital Based Clinical Study on Prevalence of TPO Antibodies in Association to Autoimmune Thyroid Diseases – Punjab
- Amrit Kaur (Registration No: 11501029) M.Sc. Clinical Microbiology: Sensitivity Pattern of Klebsiella pneumoniae in Lower Respiratory Tract Samples in Critical area
- Parminder Kaur (Registration No: 11501111) M.Sc. Clinical Microbiology: Identification of Pathogenic Bacteria in Blood Cultures and Susceptibility Testing of Isolates with Various Antibiotics
- Shaiesta Khanum (Registration No: 11501596) M.Sc. Clinical Microbiology: Urinary Tract Infection and Antibiotics Sensitivity in the Bacterial Isolates from the Urine Sample

#### 0 2015-2016

- Ajay Kumar (Registration No: 11400527) M.Sc. Clinical Biochemistry:
  Impact of lifestyle modification on reducing risk of CVD
- Kote Ganesh Sudhakar (Registration No: 11410884) M.Sc. Clinical Biochemistry: Adenosine Deaminase as the Biochemical Marker of Rheumatoid Arthritis

#### 0 2013-2014

 Suresh Kumar (Registration No: 11212006) M.Sc. Clinical Microbiology: Nosocomial infections caused by MDR-Pseudomonas aeruginosa producing metallo beta lactamase

### 0 2012-2013

- Neha Rani (Registration No: 11113065) M.Sc. Clinical Microbiology: Prospective study on catheter-associated urinary tract infections and prevention of catheter-associated UTI
- Pralay Shankar Chakraborty (Registration No: 11100078) M.Sc.
  Clinical Microbiology: Interaction of selected plants extracts with commercial antibiotics

- Arun Kumar (Registration No: 11113371) M.Sc. Clinical Microbiology: Isolation of microorganisms from blood sample and their antibiotic susceptibility pattern
- Ashok Bhatt (Registration No: 11108508) M.Sc. Clinical Microbiology: Prospective study on bacterial isolates from pus sample and their antibiotic susceptibility pattern

# 0 2011-2012

 Dimple Kumar (Registration No: 11011452) M.Sc. Industrial Microbiology: Determination of carbohydrate, protein, and rhamnolipid content in mixed biofilm

#### **COURSES TAUGHT**

# ➤ (a) IIT Madras - As Teaching Assistance

- o BT 3030 Biostatistics
- o BT 3060 Molecular Biology and Genetic Engineering Lab
- o BT 5740 Microbiology
- o BT 6720 Bioinformatics
- o BT 7020 Animal Tissue Culture

# @ Lovely Professional University - as Assistant, Associate Professor & Professor

- o MLT130: Immunology and Serology (UG)
- o MLT136 & MLT137: Biochemistry Theory and Practical (UG)
- o MLT218 & MLT228: Clinical Biochemistry Theory and Practical (UG)
- o MLT219: Immunology (UG)
- o MLT322 & MLT326: Diagnostic Biochemistry Theory and Practical (UG)
- o MLT513 & MLT554: Clinical Biochemistry Theory and Practical (UG)
- o MLT516: Molecular Biology and Genetics (PG)
- o MLT518: Molecular Biology and Microbial Genetics (PG)
- o MLT522: Pathogenesis of Infectious Disease (PG)
- MLT565 & MLT566: Biochemistry & Intermediary Metabolism Theory & Practical (PG)
- MLT645: Applied Biochemistry & Quality Control
- o MCE503: Biochemistry (For M.Sc Clinical Embryology)

### HONORS AND AWARDS

➤ Research Appreciation Award 2020 from Lovely Professional University in November 2021

- > "World Top 2% Scientist List" prepared by Stanford University USA 2024
- > "World Top 2% Scientist List" prepared by Stanford University USA 2023
- "World Top 2% Scientist List" prepared by Stanford University USA 2022
- ➤ "World Top 2% Scientist List" prepared by Stanford University USA 2021
- ➤ Recipient of travel grant towards attending ATTD 2009 in Greece from Indian Institute of Technology Madras & CSIR and approved by DST.
- ➤ Received a Full grant from the International Diabetes Federation (IDF) for attending the 20th World Diabetes Congress, 2009 in Montreal, Canada
- Senior Research Fellow (Jan 2008-June 2011) awarded by MHRD, New Delhi
- ➤ Junior Research Fellow (Jan 2006-Dec 2007) awarded by MHRD, New Delhi
- Qualified in national Graduate Aptitude Test for Engineering GATE (2005) with AIR 109
- > Qualified CSIR-UGC NET (Dec 2004) qualified for lectureship
- ➤ 4th rank holder in University in M. Sc Biochemistry (2001-2003)

I do hereby declare that the above-furnished details are true and correct to the best of my knowledge.

Pranav Kumar Prabhakar