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**Dr. Parteek Prasher, M.Sc. (Hons. School) Ph.D**

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### Education

- ✚ **Ph.D**, Center of Advanced Studies, Department of Chemistry, Guru Nanak Dev University, India (March 2012 – June 2015). **AWARDED on 26 JUNE 2015**  
*\*Thesis Title: Rational Design, Synthesis and Development of Peptide Appended Indoles as Anti-Inflammatory Agents: Appraisal of Their Mode of Action.*
  - ✚ **Pre Ph.D course work**, Batch of July 2012, Center of Advanced Studies, Department of Chemistry, Guru Nanak Dev University, India.
  - ✚ **M.Sc Honours School Chemistry**, Batch of July 2011, Center of Advanced Studies, Department of Chemistry, Guru Nanak Dev University, India.  
*\*Project Title: Synthesis and Characterization of Chromophoric Tripodal Schiff base Ligands.*
  - ✚ **B.Sc Honours School Chemistry**, Batch of July 2009, Center of Advanced Studies, Department of Chemistry, Guru Nanak Dev University, India.
  - ✚ **Class XII**, DAV Public School, Batch of 2005, Central Board of Secondary Education, India.
  - ✚ **Class X**, DAV Public School, Batch of 2003, Central Board of Secondary Education, India.  
*(First division throughout)*
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### Professional Experience

- ✚ **Assistant Professor**, Department of Chemistry, School of Applied Sciences, University of Petroleum & Energy Studies, India. July 2016-present.
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### Professional Training

- ✚ **Academic Training**, Department of Chemistry, School of Physical Sciences, Lovely Professional University, India. July 2015-July 2016.
  - ✚ **Research Trainee**, R & D center, SRF chemical Ltd. India. July 2011-March 2012.
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### Fellowships/ Honors

- ✚ **Senior Research Fellowship** in Chemical Sciences by Council of Scientific and Industrial Research, (CSIR-JRF), Govt. of India, 2014.
  - ✚ **Junior Research Fellowship** in Chemical Sciences by Council of Scientific and Industrial Research, (CSIR-SRF), Govt. of India, 2012.
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### Academic Achievements/ Appreciations

- ✚ Qualified Graduate Aptitude Test in Engineering (GATE), Discipline of Chemical Sciences, conducted by the Ministry of Human Resource Development (MHRD), Govt. of India, 2015.

- ✚ Qualified National Eligibility Test for Junior Research Fellowship, Discipline of Chemical Sciences, jointly conducted by Council of Scientific and Industrial Research (CSIR) and University Grants Commission (UGC) under the aegis of National Testing Agency, Ministry of Human Resource Development (MHRD), Govt. of India, 2011. (**All India Rank 70**).
  - ✚ Qualified National Eligibility Test for Lectureship, Discipline of Chemical Sciences, jointly conducted by Council of Scientific and Industrial Research (CSIR) and University Grants Commission (UGC) under the aegis of National Testing Agency, Ministry of Human Resource Development (MHRD), Govt. of India, 2011.
  - ✚ Qualified Common Entrance Test for admission to the Honors School, Guru Nanak Dev University, India, 2006. (**Rank 24**).
  - ✚ Guru Nanak Dev University Campus Placements Drive, Year 2011, Placed in SRF Chemicals Ltd. India, 2011 (**University Rank 1**).
  - ✚ R & D appreciation award presented by University of Petroleum & Energy Studies, India, Years 2017-19.
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### Memberships of Scientific Societies

- ✚ Life member of *National Magnetic Resonance Society of India*, (2014 onwards).
  - ✚ Life member, *Alumni Association*, Guru Nanak Dev University.
  - ✚ Associate Member, *Translational Biomedical Research Society (TBRS) India*, 2019 onwards.
  - ✚ Member, *Microbiology Society*, London (United Kingdom), 2019 onwards. *Membership number* C028467.
  - ✚ Affiliate Member, *International Union of Pure and Applied Chemistry (IUPAC)*, 2019-20. *Membership number* 219846000010816167.
  - ✚ Bentham Science Ambassador, India for the year 2019-20.
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### Expertise

- ✚ Organic Chemistry, Materials Chemistry
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### Reviewer Activity

**\*Reviewer recognition, Elsevier, since May 2019**

**\*Reviewer recognition, Bentham Science Publishers, since November 2019.**

### Journals Reviewed:

- ✚ Medicinal Chemistry Research. (Springer US).
  - ✚ The Journal of Organic Chemistry (American Chemical Society)
  - ✚ Mini Reviews in Medicinal Chemistry (Bentham science).
  - ✚ Current Molecular Medicine (Bentham science).
  - ✚ Medicinal Chemistry Communications (Royal Soc. Chem.)
  - ✚ Environmental Nanotechnology, Monitoring & Management (Elsevier).
  - ✚ Emergent Materials (Springer nature).
  - ✚ Journal of Advanced Pharmaceutical Technology and Research (Wolters Kluwer-Medknow).
  - ✚ Environmental Research (Elsevier).
  - ✚ Saudi Pharmaceutical Journal (Elsevier).
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- ✦ Data in Brief (Elsevier).
  - ✦ Polycyclic Aromatic Compounds (Taylor and Francis).
  - ✦ Journal of Taibah University for Science (Taylor and Francis)
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### Conferences/ Workshops and Seminars attended/ organized

- ✦ National workshop on NMR, Centre for Biomedical Research, Lucknow, Dec 26 - Jan 4, 2013.
  - ✦ International conference, Chemical Research Society of India, Indian Institute of Technology, Bombay, Feb. 2014. (Poster presentation)
  - ✦ NMRS Conference and Workshop by Bruker India, Years 2011, Guru Nanak Dev University.
  - ✦ National Symposium on “The Recent Trends in Chemistry”, Guru Nanak Dev University, 2014. (Poster presentation)
  - ✦ National Chemistry Conference in Guru Nanak Dev University, 2014. (Poster presentation)
  - ✦ NMRS Conference and Workshop by Bruker India, Years 2015, Guru Nanak Dev University
  - ✦ Faculty Development Program, University of Petroleum and Energy Studies, Dehradun, 2016.
  - ✦ Science Engineering Connect, University of Petroleum and Energy Studies, Dehradun, 2016-17. (Member, Organizing Committee).
  - ✦ International Conference on Advanced Materials, Energy and Environmental Sustainability (ICAMEES-2018), University of Petroleum & Energy Studies, Dehradun 2018. (Member, Organizing Committee)
  - ✦ 106<sup>th</sup> Indian Science Congress, Lovely Professional University, Jalandhar 2019. (Poster presentation)
  - ✦ International Conference on Covid-19, Challenges in Testing Prophylaxis and Management (ISFCON 2020), ISF College of Pharmacy, Punjab 2020. (Participation).
  - ✦ National Virtual Faculty Development Program on Recent Trends in Advanced Chemistry. (e-FDP-RTAC2020), 8-13 June, 2020. University of Petroleum and Energy Studies, Dehradun (Talk delivered).
  - ✦ International e-Seminar on “Biodiversity & Human Welfare” on the World Environment Day (Shobhit University). June 2020. (Participation).
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### Publications

- ✦ Parteek Prasher, Pooja, Palwinder Singh. *Bioorg. Med. Chem.* Lead modification: Amino acid appended indoles as highly effective 5-LOX inhibitors. **2014**, 22, 1642-1648. (Elsevier. IF 3.0)
- ✦ Pooja, Parteek Prasher, Palwinder Singh, Kalpana Pawar, Kunwar Somesh Vikramdeo, Neelima Mondal, Sneha Sudha Komath. *Eur. J. Med. Chem.* Synthesis of amino acid appended indoles: Appreciable anti-fungal activity and inhibition of ergosterol biosynthesis as their probable mode of action. **2014**, 80, 325-339. (Elsevier. IF 5.57)
- ✦ Arun Kumar, Parteek Prasher, Palwinder Singh. *Org. Biomol. Chem.* A fluorescent probe for estimation of adenosine diphosphate and monitoring of glucose metabolism. **2014**, 12, 3071-3079. (Royal Soc. Chem. IF 3.6).
- ✦ Palwinder Singh, Parteek Prasher, Rajbir Bhatti, Parviti Dhillon. *Eur. J. Med. Chem.* Indole Based Peptidomimetics as Anti-inflammatory and Anti-hyperalgesic Agents: Dual Inhibition of 5-LOX and COX-2 Enzymes. **2015**, 97, 104-123. (Elsevier. IF 5.57)
- ✦ Kalpana Yadav, Anshuman Yadav, Parteek Prasher, Sahil Mishra, Balwinder Singh, Sneha Sudha Komath, Palwinder Singh. *Med. Chem. Comm.* Identification of an indole-triazole-amino acid conjugate as highly effective antifungal agent. **2015**, 6, 1352-1359. (Royal Soc. Chem. IF 2.4)

- ✚ Manjeet Singh, Parteek Prasher, Katsuaki Suganuma. *Nano-Structures & Nano-Objects*. Fabrication of dense CIGS film by mixing two types of nanoparticles for solar cell application. **2017**. 11, 129-134. (Elsevier. IF 4.25)
- ✚ Harish Mudila, Parteek Prasher, Shweta Rana, Beena Khati, M.G.H. Zaidi. *Carbon Letters*. Electrochemical Oxidation-Reduction and Determination of Urea at Enzyme Free PPY-GO Electrode **2018**. 26, 88-94. (Springer IF 2.0)
- ✚ Manjeet Singh, Parteek Prasher, Junho Kim. *Nano-Structures & Nano-Objects*. Solution Processed Silver-nanowire/ Zinc oxide based Transparent Conductive Electrode for Efficient Photovoltaic Performance. **2018**. 16, 151-155. (Elsevier. IF 4.25).
- ✚ Parteek Prasher, Manjeet Singh, Harish Mudila. *BioNanoScience*. Green Synthesis of Silver Nanoparticles and their antifungal properties. **2018**. 8, 254-263. (Springer Nature, IF 1.0)
- ✚ Manjeet Singh, Parteek Prasher. *BioNanoScience*. Ultrafine Silver Nanoparticles and their Biocidal properties. **2018**. 8, 735-741. (Springer Nature, IF 1.0).
- ✚ Parteek Prasher, Manjeet Singh, Harish Mudila. *BioNanoScience*. Oligodynamic Effect of Silver Nanoparticles: A Review. **2018**. doi: 10.1007/s12668-018-0552-1. (Springer Nature, IF 1.0).
- ✚ Parteek Prasher, Mousmee Sharma. *Med. Chem. Comm.* Medicinal Chemistry of Acridine and its Analogues. **2018**, 9, 1589-1618. (Royal Soc. Chem. IF 2.4).
- ✚ Parteek Prasher, Manjeet Singh, Harish Mudila. *3Biotech*. Silver Nanoparticles as Antimicrobial Therapeutics: Current Perspectives and Future Challenges. **2018**, 8, 411. (Springer Nature, IF 2.3).
- ✚ Harish Mudila, Parteek Prasher, Mukesh Kumar, Himanshu Kapoor, Anil Kumar, MGH Zaidi, Amit Verma. *Int. J. Environ. Health Res.* An insight into Cadmium Poisoning and its Removal from Aqueous Sources by Graphene Adsorbents. **2019**, 29, 1-21. (Taylor and Francis IF 2.0).
- ✚ Parteek Prasher, Harish Mudila, Mousmee Sharma, Beena Khati. *Medicinal Chemistry Research*. Developmental Perspectives of drugs targeting enzyme-instigated inflammation: A Mini Review. **2019**, 28, 417-449. (Springer Nature, IF 2.0).
- ✚ Parteek Prasher, Mousmee Sharma. *Med. Chem. Comm.* Tailored therapeutics based on 1,2,3-1H-triazoles: A mini review. **2019**, 10, 1302-1328 (Royal Soc. Chem. IF 2.4).
- ✚ Harish Mudila, Parteek Prasher, Mukesh Kumar, Anil Kumar, MGH Zaidi, Amit Verma. *Materials for Renewable and Sustainable Energy*. Critical Analysis of Polyindole and its Composites in Supercapacitor Application. **2019**, 8, 9. (Springer Nature, IF 2.54).
- ✚ Mousmee Sharma, Parteek Prasher. *RSC Medicinal Chemistry*. An epigrammatic status of the 'azole'-based antimalarial drugs. **2020**, 11, 184-211. (Royal Soc. Chem., IF 2.4).
- ✚ Alaa A. A. Aljabali, Hamid A. Bakshi, *et al.* Parteek Prasher, Murtaza M. Tambuwala, *Cancers*. Albumin Nano-Encapsulation of Piceatannol Enhances Its Anticancer Potential in Colon Cancer Via Downregulation of Nuclear p65 and HIF-1 $\alpha$ . **2020**, 12, Article 113. (MDPI Basel, IF 6.2).
- ✚ Gaurav Gupta, *et al.* Parteek Prasher, Kamal Dua. *Critical Reviews in Eukaryotic Gene Expression*. Role of Serine/Threonine Kinase 11 (STK11) or liver kinase B1 (LKB1) Gene in Peutz-Jeghers Syndrome. **2020**. *Accepted*. doi: 10.1615/CritRevEukaryotGeneExpr.2020033451 (Begell House, IF 2.1)
- ✚ Harish Mudila, Parteek Prasher, *et al.* MGH Zaidi. *Portugaliae Electrochimica Acta*. Electrochemical Characterization and HOMO-LUMO Studies on Fabricated PVB/Graphite and PVB/GO Nanocomposites. **2020**, 38, 69-78. (Portuguese Electrochemical Society, IF 1.08).

- ✚ Parteek Prasher, Mousmee Sharma, *et al.* Kamal Dua, *Colloid and Interface Science Communications*. Emerging trends in clinical implications of bio-conjugated silver nanoparticles in drug delivery. **2020**, 35, Article 100244. (Elsevier, IF 2.83).
- ✚ Gaurav Gupta, *et al.* Parteek Prasher, Kamal Dua, *Chemico-Biological Interactions*. Monotherapy of RAAS blockers and mobilization of aldosterone: A mechanistic perspective study in kidney disease. **2020**, 317, Article 108975. (Elsevier, IF 3.7).
- ✚ P. Pandey, *et al.* Parteek Prasher, Harish Dureja, Kamal Dua, *Dermatologic Therapy*. Emerging trends in Nanomedicine for Topical Delivery in Skin Disorders: Current and Translational Approaches. **2020**, *accepted*. doi: 10.1111/dth.13292 (Wiley Blackwell IF 2.32).
- ✚ R. Wadhwa, *et al.* Parteek Prasher, Philip M. Hansbro, Kamal Dua, *CNS & Neurological Disorders: Drug Targets*. Beyond the obvious: Smoking and respiratory infection implications on Alzheimer's disease. **2020**, *accepted*. doi: 10.2174/1871527319999200817112427 (Bentham Science IF 2.76).
- ✚ Parteek Prasher, Mousmee Sharma, *et al.* Peter R. Wich, Nicole Hansbro, Philip M. Hansbro, Kamal Dua. *Chemico-Biological Interactions*. Plants derived therapeutic strategies targeting chronic respiratory diseases: Chemical and Immunological Perspective. **2020**. 325, Article 109125 (Elsevier, IF 3.7).
- ✚ A.K. Sharma, Parteek Prasher, *et al.* Murtaza M. Tambuwala, Kamal Dua. *Drug Delivery and Translational Research*. Emerging Era of “Somes”: Polymersomes as Versatile Drug Delivery Carrier for Cancer Diagnostic and Therapy. **2020**. *accepted* doi: 10.1007/s13346-020-00789-2 (Springer nature IF 3.0)
- ✚ Parteek Prasher, Mousmee Sharma *et al.* Murtaza M. Tambuwala, Kamal Dua. *Drug Development Research*. Hybrid molecules based on 1,3,5-triazine as potential therapeutics. **2020**. *accepted* doi: 10.1002/ddr.21704 (Wiley Blackwell IF 2.43).
- ✚ Parteek Prasher, Mousmee Sharma. *Future Medicinal Chemistry*. GalNAc-Transferase: A Potential target for colorectal adenocarcinoma. **2020**. *accepted* doi: 10.4155/fmc-2020-0137 (Future Science IF 3.7).
- ✚ Meenu Mehta, Mousmee Sharma, Parteek Prasher *et al.* *Future Medicinal Chemistry*. Vesicular drug delivery systems as theranostics in COVID-19. **2020**. *accepted* doi: 10.4155/fmc-2020-0149 (Future Science IF 3.7).
- ✚ Hamid Bakshi, Mazhar S. Al-Zoubi, *et al.* Parteek Prasher, Murtaza M. Tambuwala. *Nutrients*. Dietary crocin is protective in pancreatic cancer while reducing radiation-induced hepatic oxidative damage. **2020**. 12, Article 1901. MDPI Basel IF 4.1).
- ✚ Pankaj Bhatt, Amit Verma, *et al.* Parteek Prasher, Shaohua Chen. *Sustainability*. Understanding Photomicrobiome: A potential reservoir for better crop management. **2020**. 12, Article 5446. (MDPI Basel IF 2.5).
- ✚ Mousmee Sharma, Parteek Prasher, *et al.* Murtaza M. Tambuwala, Kamal Dua. *Drug Development Research*. Probing 3CL protease: Rationally designed chemical moieties for COVID-19. **2020**. *accepted* doi: 10.1002/ddr.21724 (Wiley Blackwell IF 2.43).
- ✚ Alaa A.A. Aljabali, Hamid A. bakshi, *et al.* Parteek Prasher, Kamal Dua, Murtaza M. Tambuwala. *Pharmaceutical Nanotechnology*. COVID 19: Underpinning research for detection, therapeutics, and vaccines development. **2020**. *Accepted*. doi: 10.2174/2211738508999200817163335 (Bentham Science, IF 1.5).



- ✚ Parteek Prasher, Mousmee Sharma, et al. Kamal Dua. *Alternative Therapies in Health and Medicine*. Are medicinal plants an alternative strategy to combat COVID-19? *Accepted*. (National Library of Medicine IF 1).
- ✚ Parteek Prasher, Mousmee Sharma, et al. Kamal Dua. *Current Organic Chemistry*. Synthesis and anticancer properties of “azole” based chemotherapeutics as emerging chemical moieties: A comprehensive review. **2020**. *Accepted*. (Bentham Science, IF 2.0).
- ✚ Parteek Prasher, Mousmee Sharma. *Drug Development Research*. Targeting GalNac-Transferase for anticancer therapy. *Accepted*. (Wiley Blackwell IF 2.43).
- ✚ Meenu Mehta, Parteek Prasher, M. Sharma, et al. Kamal Dua. *Medical Hypotheses*. Advanced drug delivery systems can assist in targeting coronavirus disease (COVID-19): A hypothesis. *Accepted*. doi: 10.1016/j.mehy.2020.110254. (Elsevier IF 1.5).

### Conference Proceedings

- ✚ Harish Mudila, Himanshu Kapoor, Parteek Prasher. *AIP Conference Proceedings*. One pot green synthesis of  $\alpha$ -aminophosphonates with D-Malic acid as an organocatalyst. **2017**, 1860, 020057.
- ✚ Harish Mudila, Parteek Prasher, Anil Kumar, MGH Zaidi, Amit Verma. *Journal of Physics: Conference Series (IOP Publishing)* Effect of temperature on the polymerization and optical conductivity of thin flexible polypyrrole/ starch composites. **2020**. 1531, 012105.
- ✚ Sanchit Mondal, Harish Mudila, Parteek Prasher, Ujjwal Kumar, Naveen Kadyan, Ankita Bishnoi, Navneet Kaur, Shivani Silmana. *Journal of Physics: Conference Series (IOP Publishing)* Modification of Polystyrene Based Composites for Environment Sustainability: A Review. **2020**, 1531, 012107.

### Book Chapters

- ✚ Nutraceuticals for Healthy Sporting (Chapter 4) in *Nutraceuticals and Innovative Food Products for Healthy Living and Preventive Care*. **IGI Global. Publisher: Hershey PA, USA. 2018**, ISBN13: 9781522529705, ISBN10: 1522529705, eISBN13: 9781522529712, doi: 10.4018/978-1-5225-2970-5. (invited)
- ✚ Uptake, Accumulation and Toxicity of Metal Nanoparticles in Autotrophs (Chapter 7) in *Nanotechnology for Agriculture: Advances for Sustainable Agriculture*. **Springer Nature, Singapore. 2019**, ISBN 978-981-329-369-4, eISBN: 978-981-329-370-0, doi: 10.1007/978-981-329-370-0. (invited)
- ✚ Metallic nanoparticles at biointerface: Current Perspectives and Future Challenges (Chapter 15) *Nanotechnology: Advances and Real-Life Applications (NADRA) 2020*. **CRC Press (Taylor and Francis). 2020**. ISBN: 9781003082859, doi: 10.1201/9781003082859. (invited)
- ✚ Impact of nanotechnology in pharmaceutical sciences (Chapter 7) in *The Era of Nanotechnology: Emergence and Essentials (TENEE 2020)*. **CRC Press (Taylor and Francis). 2020**. *Accepted*.
- ✚ Emerging nanotechnology in chronic respiratory diseases (Chapter 18) in *Nanoformulations in human health*. **Springer Nature, Switzerland. 2020**. ISBN: 978-3-030-41857-1, eISBN: 978-3-030-41858-8, doi: 10.1007/978-3-030-41858-8. (invited)
- ✚ Advanced materials for biomedical nanotechnology in *Smart Nanotechnology and Its Applications (SMANTA 2020)* **CRC Press (Taylor and Francis). 2020**. *Accepted*.
- ✚ E-waste and its hazard management by specific microbial bioremediation processes (Chapter 6) in *Microbial Rejuvenation of Pollutes Environment*. **Springer Nature, Singapore. 2020**. *Accepted*

- ✚ Biosorption and bioaccumulation of pollutants for environmental remediation (Chapter 15) in *Microbial Rejuvenation of Polluted Environment*. **Springer Nature, Singapore. 2020. Accepted**
  - ✚ Flavonoid infochemicals: Unravelling insights of rhimicrobiome interactions (Chapter 10) in *Microbial Metatranscriptomics Belowground*. **Springer Nature, Singapore. 2020. Accepted**
  - ✚ Extraction and purification of PUFA from microbial biomass (Chapter 10) in *Neutraceutical fatty acids from oleaginous microalgae: A human health perspective*. **Wiley Blackwell USA. 2020. ISBN: 9781119631712, eISBN: 9781119631729, doi: 10.1002/9781119631729.**
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#### **Books/ e-Books**

- ✚ Parteek Prasher and Mousmee Sharma. (2021) *Silver Nanoparticles: Synthesis, functionalization and applications*. **Bentham Books, Sharjah UAE (350 pages)**.
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#### **Projects (Ongoing and completed)**

- ✚ SEED grant by R&D, University of Petroleum & Energy Studies, for the project entitled “Drug Delivery Vehicle based on MNP-loaded polysaccharides”. Amount sanctioned - INR 4 Lakhs.
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#### **Teaching Assignments**

- Organic Chemistry I (BSc. Hons Chemistry)
- Practical Organic Chemistry I (BSc. Hons Chemistry)
- Organic Chemistry II (MSc. Hons Chemistry)
- Practical Inorganic Chemistry I (BSc. Hons Chemistry)
- Pharmaceutical Chemistry Lab-I (B. Pharm)

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