

Dr. Pradeep Kumar
H. No. 27/28, Kalyanpuri, Near-Jain Milan Vihar,
Muzaffarnagar-251001 (UP)
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OBJECTIVE: To secure a position where my proven skill sets will allow me to contribute to the goals of the organization and help me to grow my professional experience.

PROFESSIONAL SUMMARY

- ▶ Successfully worked as Lecturer/Assistant Professor in many colleges of Uttar Pradesh (India).
- ▶ Over 18 years extensive experience working in a Chemistry and Biochemistry.
- ▶ Very good understanding of Chemistry, Biochemistry, Biotechnology & Analytical Chemistry as a subject, equipments, procedures, performing tests, aseptic techniques etc.
- ▶ Published research articles on Enzymes, Biochemistry, Biotechnology, Biofuels, Environmental chemistry.
- ▶ Experienced in various molecular laboratory equipment usage, maintenance and operation, instrumentation troubleshooting and preventative maintenance, etc.
- ▶ Worked on major laboratory instruments like Microscopes, PCR, Electrophoresis (Vertical and Horizontal), Autoclave, Centrifuge, Spectrophotometer, Chromatography (Paper, TLC, Ion-exchange, Gel filtration, HPLC) and minor instruments like pH meter, conductivity meter, colorimeter, centrifuge etc.
- ▶ Reviewing research papers and making various reports.



- ▶ Effective communicator and excellent time management skills
- ▶ Possess a result oriented attitude with analytical skills
- ▶ Able to work independently with minimal supervision and in team work in a collaborative setting
- ▶ Strong computer skills in Microsoft office (Excel, Word, Power point)
- ▶ Ability to quickly learn other database/software applications as required.

Research Entitled:

- ▶ Ph. D. entitled "Purification and characterization of protein tyrosine phosphatases from *Arachis hypogaea*".
- ▶ M. Phil. entitled "Studies on plant protein phosphatases"

Academic Qualification:

- ▶ Ph. D. (Chemistry) awarded on 2012 from C.C.S. University, Meerut.
- ▶ M. Phil (Chemistry) from Alagappa University, Karaikuri, Tamilnadu in (Reg. 2006) 2013.
- ▶ M. Sc. (Inorganic Chemistry) in 2001 from C.C.S. University, Meerut
- ▶ M. Sc. (Organic Chemistry) in 2007 from C.C.S. University Meerut.
- ▶ B. Ed in 2005 from C.C.S. University Meerut.
- ▶ B. Sc. in 1999, from C.C.S. University Meerut.
- ▶ Intermediate in 1996, from UP Board Allahabad.



- ▶ **High School** in 1994, from UP Board Allahabad.

Computer Proficiency:

- ▶ Basic knowledge of Computer Application
- ▶ Packages: MS-Word, MS-Access, MS- Excel, MS-Power Point, Photoshop,

Teaching experiences:

- ▶ Presently working as **Assistant Professor** in the department of chemistry, HVM P.G. College, Raisi (Haridwar) from January 2020 to continue.
- ▶ One and half years experience as **Assistant Professor** in the department of chemistry, SVM Yoga & Health Sciences College Muzaffarnagar from August 2018 to January 2020.
- ▶ Seven years experience as **Assistant professor & Head** in the department of chemistry, Bhaila P.G. College Bhaila, Saharanpur from August 2011 to August 2018.
- ▶ Six years experience as lecturer in the Department of Biosciences, DAV (PG) College, Muzaffarnagar, from August 2005 to July 2011

Project done:

- ▶ One year experience as **Project Assistant** from August 2004 to July 2005 financed by DST, New Delhi in the Department of Biosciences, DAV (PG) College, Muzaffarnagar.
- ▶ One year experience as **Project Assistant** from 2010 to 2011 financed by UGC in the department of Chemistry DAV (PG) College, Muzaffarnagar.



Research Experience:

18 years of research experience in the field of Chemistry, Biochemistry, Molecular Biology, Biotechnology, Microbiology, Biophysics and advanced enzymology.

Publications:

- ▶ Sandeep Kumar, **Pradeep Kumar**, Hariom Sharma & Mukesh Chand 2023. Rheological studies of Anionic Surfactants in presence of Urea derivatives and monohydric Alcohols at constant Temperature. IJCSRR 06(02) 1434-1442.
- ▶ **Pradeep Kumar**, Kalpana, Hariom Sharma, Mukesh Chand & Hament Panwar (2022) A review of chemical and Physical parameters of Biodiesel Vs Diesel: Their Environmental and Ecological impact . Green Technologies for sustainable Production vol-1wiley Scrivener Publisher (329-340) ISBN 978119785673
- ▶ **Pradeep Kumar**¹, Sangeta saini², Mukesh Chand² & Hari Om Sharma³. Advance Biotechnological, pharmaceutical and Medicinal Applications of Chitinases; Willey & sons
- ▶ **Pradeep Kumar**¹, Divya Bansal², Kalpana³ & Sandeep Kumar (2022) Cellulases: An approach towards current advances in biofuel conversion and future prospects. Green Technologies for sustainable Production vol-2 Progress in Renewable Energy (337-346 2023
- ▶ Nidhi Chaudhary, Ranjana Dubey, Tilak Ram, **Pradeep kumar** and Hament Kumar (2021) Synthesis And Biological Activity of some 2-(4-Bromobenzylidin) Amino-5-Methyl-N-Phenyl-7-Substituted Phenyl-4-7-Dihydro(1,2,3) Triazolo (1,5a)-6



Carboxamidopyrimidines; **Plant Archives**; 21(2): 675-681.

- ▶ **Pradeep Kumar, Sangeta saini, Divya Bansal, Mukesh Chand & Hariom Sharma (2021).** Studies of Selective Tissues Development of Protein tyrosine Phosphatases and effect of oxidative stress in *Arachis Hypogea L.* **Plant Archives** 21(1):1694-1699.
- ▶ **Pradeep Kumar, Kalpana, Hari Om Sharma, & Mukesh Chand (2021).** Biodiesel: A Renewable Alternative Source of Energy. ISBN No. 978-93-5426-998-1: page No.62-71
- ▶ **Pradeep Kumar, Hariom Sharma, Mukesh Chand & Sangeeta Saini (2021).** Impact of crustacean marine seafood waste on human life and environment. ISBN No 978-93-5426-998-1: page No.72-82.
- ▶ **Saini Sangeta, Chand Mukesh, Sharma Hariom & Kumar Pradeep (2020).** Role of Chitinases as waste management to control global crisis, International Journal for Environmental Rehabilitation and Conservation Essences. XI (SP2): 303-313.
- ▶ **Hari Om Sharma, Prabhat Kumar, Inderjeet Singh, Pradeep kumar, Kajal dixit (2020)** Water Pollution: Treatment, Conservation and Management : Proceeding of National conference on replacement of Petrochemicals by Bio-based Chemicals for safe Environment: page 53-60.
- ▶ **Hari Om Sharma, Inderjeet Singh, Prabhat Kumar, Pradeep kumar, Kajal dixit (2020)** Hazardous Industrial Waste "Ecological Effects and Treatment": Proceeding of National conference on replacement of Petrochemicals by Bio-based Chemicals for safe Environment: page 61-68.



- ▶ Hari Om Sharma, Sandeep Kumar, S.K.Singh, Pradeep kumar (2020) Air Polution: Sources, Effects and Mitigation: Green Initiatives and Sustainable Development (ISBN 978-81-942503-2-6: 137-14.
- ▶ Mukesh Chand and Pradeep Kumar (2020) Current Advances of Biodiesel Produced from Renewable Bio-resources; **International Journal of Essential Sciences**; 14 1&2: 42-49.
- ▶ Hariom Sharma, Inderjeet Singh & Pradeep Kumar (2019). Drug Development in Relation to Specific Targets: Opportunitis and Future Prospects. **JETIR**.
- ▶ Mukesh Chand and Pradeep Kumar (2019) Surfactants and Their Biological Application in The Medical and Pharmaceutical Field **International Journal of Essential Sciences**; 13, 1&2: 22-28.
- ▶ Hariom Sharma, Pradeep Kumar & Mukesh Chand (2017) The Effect of Perchloric acid as an oxidative stress trigger for Protein Threonine Phosphatase in Arachis Hypogea. **Asian Journal of Environmental Science**
- ▶ Hari Om Sarma, Pradeep kumar and Mukesh Chand (2015) Effect of surfactant on Prtein Threonine Phosphatase (PTHPASE) activity in Peanut (*Arachis Hypogea*) seedlings. **Agriways** 3 (2): 56-64.
- ▶ Pradeep kumar, Abhinav Aeron, Mukesh Chand and Shruti Shukla (2014) Protein Tyrosine Phosphatases Extracted from Peanut Seedlings Express Differential Activity on Exposer to Surfactants. **Journal of Pure & Applied Microbiology**. 8(2): 937-943.



- ▶ Hariom Sharma, Inderjeet Singh & Pradeep Kumar (2017). Biodiesel: An alternative Sources of Diesel. SBIN:
- ▶ Hariom Sharma, Pradeep Kumar & Inderjeet Singh (2017) Characterization of Protein Tyrosine phosphatases in Different tissues of Arachis Hypogea L seedlings before and after of Oxidative stress, SBIN
- ▶ Hariom Sharma, Mukesh Chand, & Pradeep Kumar (2017) The study of perchloric acid (HClO₄) as an oxidative stress trigger for protein threonine phosphatases (PThPases) in hypocotyl of *Arachis hypogea* L. ASJE 12(2): 83-89.
- ▶ A Reviw On “Cellulase and its Applications” 2022. Critical Review In Biotechnology. Under process
- ▶ A Reviw On “Chitinases; Major Groups and Potential Applications” 2022. Critical Review In Biotechnology. Under process

Workshop / FDP:

- ▶ Actively participate in one month faculty induction programme of Guru Dakshta programme organized by UGC-HRDC Allahabad University from 10 Nov 2021- 8 Dec. 2021.
- ▶ Participate in one week FDP & International workshop on “ New trends in the field of chemistry, Environment and education policy (NTFCEP-2021) at department of Chemistry, DIT, Dehradun (Uttrakhand) from 26-31th July 2021.
- ▶ Participate in four days FDP programmed on “Green Chemistry & Technology for Sustainable Energy” Organized by P.P. Savani School of Engineering Gujarat, Sponsored by GUJCOST, DST & Govt. of Gujarat from 18-21th January 2021.



- ▶ Participate in five days FDP programmed on “ICT Based Teaching and Learning Process” Organized by RCP, Roorke from 1-5th July 2020.
- ▶ Participate in one week programmed on ‘Indo-Muscat one-week Virtual workshop on Research Writing Skills’ from Date 26th May to 30th May, 2020, Organized by University Center of Research and Development(UCRD) Galgotia University, India.
- ▶ Participate in one week FDP programmed on “Recent advances in Science and Technology, Organized by RPS Institute, Mehandragarh, Haryana dated on 21-27 may 2020.
- ▶ Participated as a Project trainer in workshop on “**Recent Techniques in Biosciences**” (RTB-2007) held on 2007 in the Department of Biosciences, DAV (P.G.), Muzaffarnagar.

Membership:

- ▶ Society of Biological chemists.
- ▶ Academy of Plant Science India.
- ▶ Indian Society of Analytical Science.
- ▶ Plant Archives.

Seminar:

- ▶ Participate in two days seminar on “**Analytical Sciences in Energy and Environment**” in IIP, Dehradun (UKA) and represent paper poster.
- ▶ Participate in one day seminar on “**Application of XRF in Petroleum Industry**” in Indian Society of Analytical Scientists,

Delhi Chapter.

- ▶ Participate in two days 2nd National seminar on **“Recent Trends in Advancement of Mathematical and Physical Sciences”** in D.N. College, Meerut.
- ▶ Participate in three days 4th Conference on **Recent Trends in Instrumental Methods of Analysis**, Department of Chemistry, IIT Roorkee, (U.K.). India.
- ▶ Participate in one day **National Conference on ‘Climate Change and Agriculture’** sponsored by Department of Science & Technology, New Delhi, India.
- ▶ Participate and paper present in two days national seminar on **‘Recent advances in condensed matter in chemistry’** Department of Chemistry, D.A.V. P.G. college, Muzaffarnagar.
- ▶ Participate and paper present in two days national seminar on **‘Green evolution’** Department of Botany. M. S. (P.G.) college, Saharanpur.
- ▶ Participate and paper present in one day national seminar on **‘Amelioration of air pollution effects in Agricultural crops’** Department of Botany, C.C.R. (P.G.) College, Muzaffarnagar.
- ▶ Participate and paper present in one day national seminar on **“Recent Innovative Change in Science and Technology, Humanities, Law & Commerce in Context of Human Welfare”** Department of Chemistry, D.A.V. P.G. college, Muzaffarnagar.
- ▶ Participate and paper present in two days E-conference on **“Drug discovery, development and Applications”** organised by department of chemistry on 15 & 16 June 2020 **Rayat Shikshan Sansthan karamveer BhauraonPatil** College, navi Mumbai.



- Participate and paper present in two days national webinar on Climate change water availability and food security: Impact and Sustainable Management. Organized by CLM Landhora Haridwar on 21-22 Oct. 2020.
- Present and participate in two days national seminar on “ Population explosion –food security scenario and sustainable development in rural india: Issues and Chalange. Entitled” Dynamics of population finds Vs food grain availability> Org. by Meerut college, Meerut on
- Present and participate in one day seminar on “ Replacemrnt of petrochemicals by bio-based chemicals for safe environment entitled” Production of biodiesel from chitin have energetic, economic and environmental advantage Organized by CCR (PG) College, MZN on 18 feb 2020.
- Present and participate in one day seminar on Recent trends in interdisciplinary research entitled “ Role of Insustases in growth and development of plants. On 31 Jan 2020.
- Oral presentation 1st International online Conference on “Advances in Chemical Science” (A.C.S.-21) on 21-22 December, 2021 at Department of Chemistry, H.V.M. (P.G.) College, Raisi, Haridwar, Uttarakhand.

Subject Taught:

Chemistry & Biochemistry, Bioorganic Chemistry, Biotechnology
(Chemistry) and Analytical Biochemistry

Subject known:

- Analytical Chemistry



- ▶ Spectroscopy
- ▶ Several Techniques of Molecular biology
- ▶ Advanced enzymology
- ▶ Chemistry
- ▶ Natural Product

Techniques known:

- ▶ **Electrophoresis:** SDS-PAGE, Agarose gel electrophoresis and Disc gel electrophoresis.
- ▶ **Chromatography:** Paper Chromatography, Thin Layer Chromatography, Ion exchange Chromatography, Gel filtration Chromatography, Affinity, HPLC and GC.
- ▶ **Spectroscopic Technique:** Visible and UV-Spectroscopy.
- ▶ **Centrifugation Technique:** Refrigerator Centrifugation Technique.
- ▶ **Blotting Techniques:** Western, Southern and Northern blotting.
- ▶ **Sterilization Techniques:**
- ▶ **Gel Doc System:**

Research Guidance:

Presently guided four students for their research work in different stream-

- ▶ Molecular Characterization of seasonal fish protein (2017 to continue) Mr. Sudhir kumar
- ▶ Purification and characterization of Chitinases from soyabean (2018 to continue) Km sangeeta Saini
- ▶ Isolation and Purification of Cellulases from *Trichoderma*



Viride (2018 to continue) Mrs. Divya Bansal.

- ▶ Isolation and purification of Biodiesel from musterd oil (2018 to continue) Mrs. Kalpana

Project Guided at PG:

- ▶ Partial purification and characterization of protein phosphatase enzyme from peanut seedling, by **Ananya Gangopadhyay**, M.Sc. (Biotechnology) 2007-08.
- ▶ Partial purification and characterization of protein phosphatase enzyme from Chick pea seedling, by **Sangeeta Saini**, M.Sc. (Biotechnology) 2007-08.
- ▶ Effect of salt stress on plant protein phosphatases in 8day-old germinated Chick pea", by **Eti Sharma**, M.Sc. (Biochemistry) 2007-08.
- ▶ Effect of salt stress on plant protein phosphates in 8day- old germinated Lobia seedlings, by **Bhavna Tyagi**, M.Sc. (Biochemistry) 2007-08.
- ▶ Effect of Surfactants on plant protein phosphates in 8day- old germinated peanut seedlings, by **Pradeep Sharma**, M.Sc. (Biochemistry) 2007-08.
- ▶ Effect of Chelating reagent on plant protein tyrosine phosphatases in 8day-old germinated peanut seedling, by **Mohit Meharwal**, M.Sc. (Biotechnology) 2007-08.
- ▶ Isolation, Purification and characterization of IgG by electrophoresis in normal and disorder of epilepsy in Human Serum, by **Monika Choudhary**, M.Sc. (Biotechnology) 2007-08.
- ▶ Isolation, Purification of IgG in normal and disorder of Polio in



Human Serum and their analysis by UV-Spectroscopy, by **Nishu Singh**, M.Sc. (Biotechnology) 2007-08.

- ▶ Isolation and purification of IgG in normal and disorder of Polio in Human Serum and their analysis by UV –Spectroscopy, by **Alok Raj**, M.Sc. (Biotechnology) 2007-08.
- ▶ Production, purification and characterization of biodiesel from edible oil of '*Sunflower*', by **Vaibhav Singh**, M.Sc. (Biotechnology) 2009-10.
- ▶ Production, purification and characterization of biodiesel from nonedible oil of '*Jetropha Plant*'. By **Vaibhav Singh**, M.Sc. (Biotechnology) 2009-10.
- ▶ Purification of IgG by Affinity column chromatography from normal and disorder of migrane in Human Serum and analysis by UV-Spectroscopy, by **Anant Kumar**, M.Sc. (Biotechnology) 2009-10.
- ▶ Purification of IgG by Affinity column chromatography from normal and disorder of epilepsy in Human Serum and analysis by UV –Spectroscopy, by **Km Daksha**, M.Sc. (Biotechnology) 2009-10.
- ▶ Partial purification and characterization of alkaline phosphatase enzyme from Chick pea seedling, by **Neha Rani**, M.Sc. (Biotechnology) 2009-10.
- ▶ Distribution of alkaline phosphatase activity in '**Chick pea**' and effect of salt stress on alkaline phosphatases activity in 8day-old germinated seedlings, by **Sonu Kumar**, M.Sc. (Biotechnology) 2009-10.
- ▶ Distribution of alkaline phosphatase activity in '**Chick pea**' and



effect of salt stress on alkaline phosphatases activity in 8day-old germinated seedlings, by **Umesh Kumar**, M.Sc. (Biochemistry) 2009-10.

- ▶ Production, partial purification and characterization of cellulase from *T. viride*, by **Atul Kumar**, M.Sc. (Biochemistry) 2012.
- ▶ Isolation, partial purification and characterization of cellulase from *T. viride*, by **Km. Neetu Pundir**, M.Sc. (Biochemistry) 2012.
- ▶ Isolation and Purification of Bio-diesel from waste vegetable oils, by **Mr. Asish Pundir** M.Sc. (Biochemistry) 2013.
- ▶ Effect of salt stress on alkaline phosphatases in germinated seedlings of soybean, by **Mr. Vinod Kumar**, M.Sc. (Biochemistry) 2013.
- ▶ Study of the Bio-diesel produce from edible and non-edible oil, by **Mr. Sudhakar Sharma**, M.Sc. (Biochemistry) 2013.
- ▶ Impact of sugar factory effluent on Biochemical's and physiological parameters in Sunflower by **Mr. Ajay Kumar**, M.Sc. (Biochemistry) 2013.
- ▶ Production, isolation and partial purification of Tannase enzyme from *Aspergillus Niger* by **Miss Meenakshi**, M.Sc. (Biochemistry) 2014.
- ▶ Kinetic studies of partial purified Tannase enzyme from *Aspergillus Niger* by **Mr. Nitin Sharma**, M.Sc. (Biochemistry) 2014.
- ▶ Induction of Acid phosphatase enzyme from growing seedlings of *Zea Maize* by **Mr. Naveen Kumar**, M.Sc.



(Biochemistry) 2014.

- ▶ Biochemical parameters of Lipase from germinated seedlings (*Glycine Max*) by Mr. Sandeep Kumar, M.Sc. (Biochemistry) 2014.
- ▶ Extraction of edible and non-edible oil from sunflower and Biodiesel production by Mr. Sonu Panwar (Organic Chemistry) 2021.
- ▶ Extraction of edible and non-edible oil from sunflower and Biodiesel production by Mr. Sonu Panwar (Organic Chemistry) 2021.
- ▶ Extraction of edible and non-edible oil from sunflower and Biodiesel production by Mr. Sonu Panwar (Organic Chemistry) 2021.

Extra-Curricular:

- ▶ Avid player of Badminton and Cricket, enjoy listening to music and reading books, like to click natural environment.
- ▶ Photography.
- ▶ Regular participant in Singing.

Administrative Experience:

- ▶ Eight years of experience as H.O.D in the department of Chemistry, Bhaila (PG) College, Bhaila, Saharanpur from 2011-2018.
- ▶ Two years experience as principal in SVM Yoga & Health Sciences College, Jansath Road, Muzaffarnagar from 2018-2020.



REFERENCES:

- ▶ Dr. B.K. Tyagi (Former Principal & Member of UPHESC) DAV College, Muzaffarnagar.
- ▶ Dr. Mukesh Chand (Reader) Chemistry department DAV College, Muzaffarnagar.
- ▶ Dr. Basant Kumar (Scientist 'F') Mass spectroscopy division, IIP-Dehradun, Utrakhand.
- ▶ Dr. Anil kumar Mishra (Scientist 'F') Joint Director and head of INMAS, Timarpur, Delhi.

Personal details:

Father Name : Sh. Mangey Ram

Mother name : Smt. Sumitra Devi

Date of Birth : 09/07/1978

Sex : Male

Marital Status : Married

Nationality : Indian

Address : H.NO.27/28, Kalyanpuri Near-Jain Milan
Vihar, Muzaffarnagar Pin code- 251001

MISCELLANEOUS : Playing Cricket, Badminton, Reading Books and Magazines Quiz etc.

DECLARATION : I hereby declare that all the statements in this CV the true and complete to the best of my knowledge and belief.

Place:

(PRADEEP KUMAR)



Date:

