





		Shruti Gupta Assistant Professor and Head Department of Biotechnology St. Bede's College, Shimla		
Assist Email Offici Mobil	e No: 9459224137 CATIONAL Q	.com upta@stbedescol 7 UALIFICATIO	epartment lege1.onmicrosoft.com ONS: M.Sc. Biotechnol SIR-NET, ARS-NET, GA	
Sr. No.	Degree	Subject	College/University	Year of Passi
	P.Co. (Hong.)	Biotechnology	St. Bede's College,	2012
1	B.Sc. (Hons.)		Shimla	2012
1 2	M.Sc.	Biotechnology		2014
1			Shimla	
2	M.Sc.	Biotechnology	Shimla SILB, Solan	2014
2 3	M.Sc. M.Phil	Biotechnology Biotechnology	Shimla SILB, Solan HP University	2014 2016
1 2 3 4	M.Sc. M.Phil Ph.D	Biotechnology Biotechnology Biotechnology	Shimla SILB, Solan HP University	2014 2016 2022
1 2 3 4 5	M.Sc. M.Phil Ph.D NET	Biotechnology Biotechnology Biotechnology Life Sciences	Shimla SILB, Solan HP University	2014 2016 2022 2016



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  Department of Biotechnology
  St. Bede's College, Shimla

  RESEARCH EXPERIENCE: Major/Minor Project

  SUBJECTS TAUGHT
  UG: Cell Biology, Recombinant DNA Technology, Immunology, Bioanalytical tools, Bioprocess Technology, Plant Biotechnology, Animal Biotechnology, Biochemical engineering, Instrumentation and biotechnoques
  PG:

  OTHER RESPONSIBILITIES
  Convener: Composting

  Member:

  Criteria VII: NAAC Steering Committee, Herbal Garden, Fresher's Welcome and Return Social, Serendipity, RUSA Committee.

  Examiner final Himachal Pradesh University Evaluations

  ACHIEVEMENTS

  PUBLICATIONS;

  Gupta Shruti and Kanwar Shamsher Singh (2022). Intestinal Dysbiosis Induced Chronic Inflammation That Risks up Oxalate Nephropathy. J Cell Sci Therapy, 13:342.

  Gupta S and Kanwar SS (2022). Phytochemical investigation and antiurolithiatic activities of Bergenia ciliate and Macrotylomauniflorum. Journal of Research: The Bede Athenaeum: 13: 35-47.

  Gupta S and Kanwar SS (2022). Molecular characterization and in silico analysis of oxalate decarboxylase of Pseudomonas sp. OXDC12, Journal of Biomolecular Structure and Dynamics, DOI: 10.1080/07391102.2021.2024882

  Gupta S and Kanwar S (2022). Optimization of growth conditions for oxalate decarboxylase production from Pseudomonas sp. OXDC12 and in vitro inhibition of calcium oxalate crystallization by oxalate decarboxylase, Current
  Biotechnology 2021; 10. https://doi.org/10.2174/2211550110666210726154149.



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   Gupta S and Kanwar SS. Plant protease inhibitors and their antiviral activities
  -Potent therapeutics for SARS CoV-2y, J Med Discov (2021); 6(1):
  jmd20068; DOI:10.24262/jmd.6.1.20068.

   Gupta Shruti, Kanwar Shamsher Singh (2020). The influence of dysbiosis on
  kidney stones that risk up renal cell carcinoma (RCC). Seminars in Cancer
  Biology, https://doi.org/10.1016/j.semeancer.2020.06.011.

   Gupta Shruti, Kanwar Shamsher Singh (2020). Therapeutic Applications of
  Microbial Enzymes in the Management of Kidney Stone Discases. In
  Microbial Enzymes: Roles and Applications in Industries, Microorganisms for
  Sustainability 11, Springer Nature Singapore Pte Ltd.
  https://doi.org/10.1007/978-981-15-1710-5-13.

   A supplemental commentary on the published work entitled 'Influence of
  dysbiosis on kidney stones that risks up renal cell carcinoma (RCC)' authored
  by Ms. Shruti Gupta and Prof. Shamsher Singh Kanwar was published in the
  'Beyond the Abstract' feature of UroToday.

   Gupta S, Kanwar SS (2018) Phyto-molecules for Kidney Stones Treatment
  and Management. Biochem Anal Biochem 7: 362. doi: 10.4172/21611009.1000362.

   Gupta S, Shamsher SK. Kidney stones: Mechanism of formation,
  pathogenesis and possible treatments. J Biomol Biochem 2018;2(1):1-5.

   Gupta Shruti, Singh Sukhdev, Kanwar Shamsher Singh (2017). Purification
  and characterization of an extracellular ribonuclease from a Bacillus sp. RNS3
  (KX966412). International Journal of Biological Macromolecules 97 (2017)
  440-446. http://dx.doi.org/10.1016/j.ijbiomac.2017.01.055



- Poster presentation in the International Conference on Bioenguineering for Health and Environment (ICBHE 2021) organized by Sathyabama Institute of Science and Technology, India and MAHSA University, Malaysia on the 16<sup>th</sup>
- Participated in one day workshop "Intellectual Property Rights: The Way Ahead to Protect Ideas" held on 17/11/2021 organized by Centre of Excellence, Govt. College Sanjauli-Shimla Biotechnology Incubation Centre (BIC-HPU), Deptt. of Biotechnology HP University Summer Hill Shimla.
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  ernational Conference on Bioenguineering for
  HE 2021) organized by Sathyabama Institute of
  a and MAHSA University, Malaysia on the 16<sup>th</sup>

  eshop "Intellectual Property Rights: The Way
  held on 17/11/2021 organized by Centre of
  e Sanjauli-Shimla in collaboration with
  entre (BIC-HPU),Deptt. of Biotechnology HP
  hla.

  itled 'Optimization of media components using
  ogy for enhanced production of oxalate
  as sp.' during the National seminar on "Current
  in bioprocess development" held on March 26f Biotechnology, Himachal Pradesh University,

  alate Decarboxylase: A revolutionary approach
  Stones' in National conference on "Emerging
  Physical and Life Science for Entrepreneurial
  foth 27th December, 2018 in the Department
  radesh University, Shimla.

  Decalate Decarboxylase: a therapeutic approach for
  in International conference on Sustainable
  organized by Biyani Group of Colleges on 27<sup>th</sup>

  entitled 'Purification, kinetic analysis and
  r ribonuclease from bacteria species RNS3' in
  on Biodiversity: Current scenario and Future
  billege, Shimla during 6-8 October, 2016. Paper Presentations
   Poster presentation in the International Conference on strategies held at St. Bede's Coll Presented a research paper entitled 'Optimization of media components using response surface methodology for enhanced production of oxalate decarboxylase of Pseudomonas sp.' during the National seminar on "Current trends & future advancement in bioprocess development" held on March 26-27, 2019 at the Department of Biotechnology, Himachal Pradesh University,
  - Presented a paper entitled 'Oxalate Decarboxylase: A revolutionary approach for management of Kidney Stones' in National conference on "Emerging Research Trends in Chemical, Physical and Life Science for Entrepreneurial Skill Development" held on 26th – 27th December, 2018 in the Department of Biotechnology, Himachal Pradesh University, Shimla.
  - Presented a paper on the topic 'Oxalate Decarboxylase: a therapeutic approach for treatment of kidney stones' in International conference on Sustainable Development BICON-2018, organized by Biyani Group of Colleges on 27<sup>th</sup>
  - Presented a research paper entitled 'Purification, kinetic analysis and application of an extracellular ribonuclease from bacteria species RNS3' in the International Conference on Biodiversity: Current scenario and Future strategies held at St. Bede's College, Shimla during 6-8 October, 2016.



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\* Webinars and Seminars Attended

Attended an international webinar on "Present Pandemic and Bioinformatics" organized by Janta Vedic College, Baraut, UP on 22nd May, 2020.

Workshop on "Significance of Caliberation of Measuring Equipment & its Impact in Research" held on 12th & 13th June, 2019 jointly organized by National Research & Technology Consortium, Parwanoo and Department of Biotechnology, Himachal Pradesh University, Shimla.

'Applications of bioinformatics in teaching and research' on 25th and 26th of October, 2018, organized by Department of Biotechnology, HP University, Shimla,

National seminar on 'Celebrating Indian Science from Past to Future' in St. Bede's College, in collaboration with ISCA, Shimla Chapter on September 13, 2018.

Traditional R&D Funding and Entrepreneurship" in HPU, Shimla, organized by Biotechnology Incubator, HPU and Dept. Of Industries, Govt. Of H.P., on January 20, 2018.

AWARDS

Secured the First Position in Poster Presentation in International Conference of Bioengineering and International Conference on Bioenguineering for Health and Environment (ICBHE 2021) organized by Sathyabama Institute of Science and Technology, India and MAHSA University, Malaysia on the 16th and 17th December, 2021.

Faculty Development Program

Dr. Shruti Gupta attended a five day online faculty development program on 'Design and Development of MOOCs' from 1st January, 2022 to 5th January, 2022.