



*Shruti Gupta*  
*Assistant Professor and Head*  
*Department of Biotechnology*  
*St. Bede's College, Shimla*



**Shruti Gupta**

**Assistant Professor and Head of the Department**

**Email: [sg23691@gmail.com](mailto:sg23691@gmail.com)**

**Official Email: [shruti.gupta@stbedescollege1.onmicrosoft.com](mailto:shruti.gupta@stbedescollege1.onmicrosoft.com)**

**Mobile No: 9459224137**

**EDUCATIONAL QUALIFICATIONS:** M.Sc. Biotechnology, M.Phil  
Biotechnology, CSIR-NET, ARS-NET, GATE, SET

<b>Sr. No.</b>	<b>Degree</b>	<b>Subject</b>	<b>College/University</b>	<b>Year of Passing</b>
1	B.Sc. (Hons.)	Biotechnology	St. Bede's College, Shimla	2012
2	M.Sc.	Biotechnology	SILB, Solan	2014
3	M.Phil	Biotechnology	HP University	2016
4	Ph.D	Biotechnology	HP University	Pursuing
5	NET	Life Sciences		2016
6.	ARS NET	Biotechnology		2016
7	GATE	Biotechnology		2015
6	Specialization	Enzyme Technology, Molecular biology, Immunology		

**TOTAL TEACHING EXPERIENCE:**

Teaching Experience at St. Bede's College: 5 years



*Shruti Gupta*  
*Assistant Professor and Head*  
*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 biotechniques

**PG:**

### **OTHER RESPONSIBILITIES**

**In-charge: INS Chirag**

#### **Member:**

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

Examiner final Himachal Pradesh University Evaluations

### **ACHIEVEMENTS**

#### **❖ PUBLICATIONS**

- 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.semcancer.2020.06.011>.
- Gupta Shruti, Kanwar Shamsher Singh (2020). Therapeutic Applications of Microbial Enzymes in the Management of Kidney Stone Diseases. In *Microbial Enzymes: Roles and Applications in Industries*, Microorganisms for



*Shruti Gupta*  
*Assistant Professor and Head*  
*Department of Biotechnology*  
*St. Bede's College, Shimla*

Sustainability 11, Springer Nature Singapore Pte Ltd.  
[https://doi.org/10.1007/978-981-15-1710-5\\_13](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: 10.4172/2161-1009.1000362.
- 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>
- Gupta Shruti, Singh Sukhdev, Kanwar Shamsher Singh (2016), An overview of ribonucleases and their therapeutic effects. *Insight Medicine*, 1: 1-11.
- Kanwar, S. S., Mishra, P., Meena, K. R., Gupta, S., & Kumar, R. (2016). Ribonucleases and their applications. *J Adv Biotechnol Bioeng*, 4(1), 17-26.

#### ❖ Paper Presentations

- 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, Shimla.



*Skruti Gupta*  
*Assistant Professor and Head*  
*Department of Biotechnology*  
*St. Bede's College, Shimla*

- 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> November, 2018.
- 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.

#### ❖ Participation in Conferences and Seminars

- Participated in a two-day Faculty Development Program on Online Teaching Tools from August 4-5, 2020, organized by Dept. of Computer Science, St. Bede's College, Shimla.
- Attended a webinar on "Molecular Taxonomy and DNA Barcoding: Concepts, Methods and Applications" organized by R.D. and S.H. National College and SWA Science College, Mumbai, on 20th May, 2020.
- Attended an international webinar on "Present Pandemic and Bioinformatics" organized by Janta Vedic College, Baraut, UP on 22nd May, 2020.
- Workshop on "Significance of Calibration 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.



*Shruti Gupta*  
*Assistant Professor and Head*  
*Department of Biotechnology*  
*St. Bede's College, 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.