

Profile of the Teacher

1. **Name of the teacher: Dr. Sushil Kumar**
2. **Father's Name:** Mr. Chulhai Das
3. **Mother's Name:** Mrs. Reshma Devi
4. **Date of Birth:** 01.05.1985
5. **Name of the Department:** Zoology
6. **Date of Joining the University:** 04.05.2018
7. **Total Teaching Experience:** UG- 6 years
PG- 6 years
8. **Total Research Experience:** 07 years
9. **Academic Qualification:** PhD
10. **Area of specialization:** Cell Biology, Cytogenetics



Teaching Experience : **6 years**

Research Experience : **7 years**

Research Articles : **24**

Book Chapters : **5**

Honors and Awards : **6**

Invited lectures in conferences/seminars : **5**

Papers presented in conferences/seminars : **14**

Attended workshop/seminars : **8**

Organising Secretary of conferences/workshop: **2**

Orientation/refresher Course : **4**

H index : **9**

i10 index : **8**

Research Degree : **PhD** completed in 2014 from **Sanjay Gandhi Post Graduate Institute of Medical Sciences, Lucknow** PhD thesis entitled as “**Role of interleukin (IL)-8, IL-10, and pepsinogen-II gene polymorphism with their serum levels influencing host's susceptibility to gastric cancer**” under the supervision of **Dr. Uday Chand Ghoshal**, Professor, Department of Gastroenterology, SGPGIMS, Lucknow.

Research Interest : **Cell biology, Cancer biology, biomedical research**

Reviewers of Journals/books: Frontiers in Medicine, Journal of Clinical and Diagnostic Research, Frontiers in Molecular Biosciences, Acta Scientific Microbiology, Cureus etc. as well as Elsevier published book “Emerging pollutants from Municipal landfill leachate” and many more.

2. International/National fellowship/financial support for advance studies/research

| S. No. | Name of the fellowship/ financial support | Year of Award | National/International | Awarding Agency |
|--------|---|---------------|------------------------|-----------------|
| 1. | Junior Research Fellowship | 2008 | National | UGC, New Delhi |
| 2. | Senior Research fellowship | 2010 | National | UGC, New Delhi |
| 3. | Research Associateship | 2014 | National | ICMR, New Delhi |

3. International/National award/recognition for academics

| S. No. | Name of the award/recognition | Year of Award | Title of the innovation | National/International | Awarding Agency |
|--------|-------------------------------------|---------------|-------------------------|------------------------|---|
| 1. | First prize in oral presentation | 2015 | Research | National | 3rd annual National conference of Lucknow Science Congress (LUSCON) |
| 2. | Second prize in poster presentation | 2015 | Research | International | 4 th Biennial Congress of Asian Motility and functional Disease (ANMA) |
| 3. | First prize in poster presentation | 2010 | Research | National | 51th annual National conference of Indian society of Gastroenterology (ISGCON) |
| 4. | Best Teacher Award | 2021 | Teaching | State level | Govt. of Uttar Pradesh and DDU Gorakhpur |

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| | | | | | University |
| 5. | Teacher Award | 2022 | Teaching | University level | Deen Dayal Upadhyaya Gorakhpur University |
| 6. | Best Paper award | 2024 | Research | International | FBMS'24 Seethalakshmi Ramaswami College, Tiruchirappalli, Tamil Nadu |

4. Administrative/Extension activity participation

| S. No. | Name of activity | Year |
|--------|---|-----------------------------------|
| 1. | National Service Scheme – Programme officer | 10-11-2018 to till date |
| 2. | Member- University Science and Research Promotion and Coordination cell | 01-03-2021 to till date |
| 3. | Member Secretary- Institutional Human ethics committee | July 2022 to till date |
| 4. | In charge - Animal House | Jan 2023 to oct 2023 |
| 5. | Member -Departmental Academic Council | 02.01.2021 to till date |
| 6. | Member- U.G. Admission counselling | Session 2020-21, 2021-22, 2022-23 |
| 7. | Member – P.G. Admission counselling | Session 2021-22, 2022-23 |

5. Research/Review Papers published

| 2 | Title of the paper | Name of the Author | Name of the Journal | Year of publication | ISSN Number | Link of the recognition in UGC enlistment of the | | |
|----|------------------------|--------------------|---------------------|---------------------|-------------|--|---|--|
| | | | | | | Link of website of the journal | Link to the article/paper/abstract of the article | Is it listed in UGC care list/Scopus/web of science /other mention |
| 1. | Serological assessment | Uday C | Trop | 2011 | 0250-636X | http://w | http://www | Scopus |

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| | of gastric intestinal metaplasia and atrophy using pepsinogen-I, pepsinogen-II and gastrin-17 levels in a low incidence area of gastric cancer endemic for <i>H. pylori</i> infection | Ghoshal, Sushil Kumar , Narendra krishnani, Niraj Kumari, Dipti Chauresia, Shweta Tripathi | Gastroenterol | | | ww.tropicalgastrico.com/ | .tropicalgastrico.com/articles/32/4/serological-assessment-of-gastric.html | |
| 2. | Association of microsomal epoxide hydrolase exon 3 Tyr113His and exon 4 His139Arg polymorphisms with gastric cancer in India | Ghoshal U, Sushil Kumar , Virendra Jaiswal ShwetaTripathi, Balraj Mittal, Uday C Ghoshal | Indian Journal Gastroenterology | 2013 | 0254-8860 | https://www.springer.com/journal/12664 | https://link.springer.com/10.1007/s12664-013-0332-3 | Scopus |
| 3. | Genetic polymorphism of cytochrome P450 (CYP) 1A1, CYP1A2, and CYP2E1 genes modulate susceptibility to gastric cancer in patients with <i>Helicobacter pylori</i> infection | Ujjala Ghoshal, Shweta Tripathi, Sushil Kumar , Balraj Mittal, Niraj Kumari, Uday C. Ghoshal | Gastric Cancer | 2014 | 1436-3305 | https://www.springer.com/journal/10120 | https://link.springer.com/article/10.1007/s10120-013-0269-3 | Scopus |
| 4. | Association between pro-(IL-8) and anti-inflammatory (IL-10) cytokine variants and their serum levels and <i>H. pylori</i> -related gastric carcinogenesis in northern India | Sushil Kumar , Niraj Kumari, RD Mittal, Samir Mohindra, Uday C Ghoshal | Meta Gene, | 2015 | 2214-5400 | https://www.sciencedirect.com/journal/meta-gene | https://www.sciencedirect.com/science/article/pii/S2214540015000420 | Scopus |
| 5. | Pepsinogen-II 100 bp ins/del gene polymorphism and its elevated circulating levels are associated with gastric cancer, particularly with <i>Helicobacter pylori</i> infection and intestinal metaplasia | Sushil Kumar , <u>Niraj Kumari</u> , Rama D Mittal, Uday C Ghoshal | Gastric Cancer | 2016 | 1436-3305 | https://www.springer.com/journal/10120 | DOI: 10.1007/s10120-015-0550-8 | Scopus |

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|-----|---|--|---|------|----------------------------------|--|---|--------|
| 6. | Association of BER gene polymorphism XRCC3 and XRCC1 with risk of gastric carcinogenesis: A case-control study for Eastern India | Komolika Roy, Tamal kanti Ghosh, Sushil Kumar , Uday C Ghoshal, Sumohan Biswas | J Med Sci Clin Research | 2016 | 2347-176x | https://jmscr.igmpublication.org/home/ | http://182.18.165.51/Fac_file/PU_BLI294@841890.pdf | - |
| 7. | Transforming growth factor beta 1 (TGF-β1) modulates Epstein-Barr virus reactivation in absence of <i>Helicobacter pylori</i> infection in patients with gastric cancer | Shukla SK, Khatoon J, Prasad KN, Rai RP, Singh AK, Sushil Kumar , Ghoshal UC, Krishnani N | Cytokine | 2016 | 1043-4666 | https://www.journals.elsevier.com/cytokine | http://182.18.165.51/Fac_file/PU_BLI294@438119.pdf | Scopus |
| 8. | Genetic variants of immune-related genes IL17F and IL10 are associated with functional dyspepsia: A case-control study | Rajan Singh, Uday C. Ghoshal, Sushil Kumar , Balraj Mittal | Indian Journal Gastroenterology | 2017 | 0254-8860 | https://www.springer.com/journal/12664 | http://182.18.165.51/Fac_file/PU_BLI294@923443.pdf | Scopus |
| 9. | Does hogg1 Ser 326 Cys Polymorphism Play Any Role in Gastric Carcinogenesis: A Case Control Study from Eastern India, Kolkata | Kamalika Roy, Tamal Kanti Ghosh, Sushil Kumar, Uday C Ghoshal | IOSR Journal of Dental and Medical Sciences | 2017 | 11 (4):71-74 ISSN: 2279-0853 | https://www.iosrjournals.org | https://www.iosrjournals.org/iosr-jdms/papers/Vol16-issue4/Version-3/L1604037174.pdf | - |
| 10. | Role of the Endoscopic Biopsy in the Diagnosis of Primary Gastric Lymphomas: A Retrospective Review of 120 Patients | Krushna C Pani, Sushil Kumar , Niraj Kumari, Uday C Ghoshal, Narendra Krishnani | Tropical Gastroenterology | 2018 | 39(4):188-194 ISSN: 0250-636X | http://www.tropicalgastrico.com/ | http://182.18.165.51/Fac_file/PU_BLI294@228015.pdf | Scopus |

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| 11. | Biomedical waste segregation and their management in urban area of Gorakhpur: A survey for long term approach | Sushil Kumar , Shambhavi Mishra, Shalini, Priya Singh, Aishwarya Gupta, Ajay Singh | G-J. Environ. Sci. Technol | 2020 | 8(1): 5-9(2020) ISSN: 2322-0228 | https://gjestenv.com/index.php/gjest | https://gjestenv.com/index.php/gjest/article/view/136 | - |
| 12. | Previous history of surgery in females and roadside shaving in males are the commonest risk factors for hepatitis C infection: A cross-sectional retrospective study | Ajay Kumar Patwa, Amar Deep, Sushil Kumar , Sumit Rungta, Virendra Atam, Suchit Swaroop | J family Med Prim Care | 2021 | ISSN: 2249-4863 | https://www.jfm.pc.com/ | http://182.18.165.51/Fac_file/PU/BLI294@972513.pdf | UGC care listed |
| 13. | Association of different biomarkers and CT value of RT-PCR with mortality in COVID-19 cases attended at tertiary care center in India | Amresh Kumar Singh, Sushil Kumar , Suraj Prasad, IP Adhikari, Vivek Gaur | International Journal of Biomedical and Advance Research | 2021 | ISSN: 2229-3809 | https://doi.org/10.7439/ijbar | Doi: 10.7439/ijbar.v12i6.5610 | Web of Science |
| 14. | <i>Helicobacter pylori</i> -Induced Inflammation: Possible Factors Modulating the Risk of Gastric Cancer | Sushil Kumar , Girijesh Kumar Patel, Uday C. Ghoshal | Pathogens | 2021 | 2076-0817 | https://www.mdpi.com/journal/pathogens | https://doi.org/10.3390/pathogens10091099 | Scopus |
| 15. | Efficacy of phytochemicals against mosquito larvae: An update to integrated mosquito management | Kumar Sanjeev and Sushil Kumar | Intern. J. Zool. Invest. | 2022 | 2054-3055 | | https://doi.org/10.33745/ijzi.2022.v08i01.034 | Scopus |

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| 16. | Role and Impact of Methicillin-resistant Staphylococcus aureus: A New Paradigm in Antibiotic Era During COVID- 19 Pandemic | Amresh Kumar Singh, Nandini Singh, Sushil Kumar , Ankur Kumar | Acta Scientific Microbiology | 2022 | 2581-3226 | https://actascientific.com/ASMI.php | https://actascientific.com/ASMI/ASMI-05-1064.php | Peer-reviewed |
| 17. | Role of Mycobacterial Culture and Drug Sensitivity Testing Laboratory under National Tuberculosis Elimination Program for the Abolition of Tuberculosis in India by 2025 | Nandini Singh, Amresh Kumar Singh, Sushil Kumar , Narendra Pratap Singh, Vivek Gaur | Journal of Clinical and Diagnostic Research | 2022 | 0973-709X | https://www.jcdr.net/ | https://doi.org/10.7860/JCDR/2022/55426.16655 | Web of Science |
| 18. | Emergence of Delta Plus (AY.1) and Kappa (B.1.617.1) Variants of SARS-CoV-2 in Second Wave of India: A Case Series from Eastern Uttar Pradesh | Amresh Kumar Singh, Sushil Kumar , Suraj Prasad, Indra P Adhikari, Vivek Gaur, Ankur Kumar | Acta Scientific Microbiology | 2022 | 2581-3226 | https://actascientific.com/ASMI.php | https://actascientific.com/ASMI/ASMI-05-1103.php | Peer-reviewed |
| 19. | Spectrum of primary gastric lymphoma in India: A series of 30 patients | Akash Mathur, UC Ghoshal, Sushil Kumar , N Kumara, N Krishnani | Turk J Gastroenterol | 2023 | 2148-5607 | https://www.turkjgastroenterol.org/ | | Scopus |
| 20. | Global Impact of COVID-19 Pandemic on Antimicrobial Resistance: An Overview | Amresh Kumar Singh, Nandini Singh, Sushil Kumar , Ankur Kumar | Journal of Clinical and Diagnostic Research | 2023 | 0973-709X | https://www.jcdr.net/ | https://www.jcdr.net/articles/PDF/17668/60138_CE(AD)_F(IS)_PF1(AG_SS)_PFA(AG_KM)_PN(KM).pdf | Web of Science |

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| 21 | Estimation of First Line Anti-Tubercular Drugs resistance and their genetic analysis by Geno Type MTBDRplus assay from an Intermediate Reference Laboratory in Eastern Uttar Pradesh, India | Nandini Singh, Amresh Kumar Singh, Ashwini Kumar Mishra, Narendra Pratap Singh, Sushil Kumar | Research J. Pharm. and Tech. | 2024 | 0974-360X | https://www.rjptonline.org/ | | Scopus |
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6. Books and chapters in edited volumes / books published

| S No. | Title of the book | Title of the chapter | National / international | Year of publication | ISBN number | Affiliating Institute at the time of publication | Name of the publisher |
|-------|---|---|--------------------------|---------------------|-------------------|--|--|
| 1. | Anesthesiology updates for Postgraduate | How to write a thesis? | National | 2013 | 9789351520962 | Sanjay Gandhi Post Graduate Institute of Medical Sciences, Lucknow | Jaypee Brothers Medical Publishers (P) Ltd. |
| 2. | Workshop on Tools and Technique in Life Sciences | Microbiology | National | 2018 | - | DDU Gorakhpur University | - |
| 3. | Advances in Microbial pathogenesis of gastrointestinal Diseases | The Viral Microbiota of Gut | International | 2021 | - | DDU Gorakhpur University | Bentham eBook series: Recent Advances in Biotechnology |
| 4. | Introduction to Insect Biotechnology | Recent advances in insect Biotechnology | International | 2023 | 978-3-031-26776-5 | DDU Gorakhpur University | Springer Cham |

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| 5. | Microbial Enzymes. Production, Purification and Industrial Application | Production and therapeutic applications of monoclonal antibodies in cancer and other diseases | International | 2024 | 9783527352906 | DDU Gorakhpur University | John Wiley & sons, Austria |
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7. Papers in national/international conference-proceedings

| S No. | Title of the proceedings of the conference | Name of the conference | National / international | Year of publication | ISBN/ISSN number of the proceeding | Affiliating Institute at the time of publication |
|-------|--|--|--------------------------|---------------------|------------------------------------|--|
| 1. | Evaluation of mosquito larvicidal potential of Indigenous plants of Eastern Uttar Pradesh | Present Status and Future Trends in Entomological & Wildlife Studies | National | 2021 | 978-81-7906-000-0 | DDU Gorakhpur University |
| 2. | Influence of Insecticides on the Development of Pest Resistance of Diamondback Moth (<i>Plutella Xylostella</i>) | Frontiers in Crop Improvement | National | 2022 | 2393-8234 | DDU Gorakhpur University |

8. Professional development Programmes, viz., Orientation Programme, Refresher Course, Short Term Course, Faculty Development Programmes

| S. No. | Year | Title of the professional development Programme | Date and Duration (from – to) |
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| 1. | 2019 | Orientation course HRDC – with Grade A, DDU Gorakhpur university | 13 July to 02 Aug, 2019 |
| 2. | 2019 | Workshop on Tools and Techniques in Life Sciences, Department of Zoology, DDU Gorakhpur University | 25-26 March, 2019 |
| 3. | 2020 | ICMR Training on Biomedical and Health Research ethics & GCP guidelines held at BRD Medical College, Gorakhpur | 21-22 January, 2020 |
| 4. | 2020 | Refresher course in Environmental Sciences (Interdisciplinary) | 10 Oct-23 Oct 2020 (14 days) |
| 5. | 2023 | Faculty development programme on “Sericulture” | 22-27 June 2023 |
| 6. | 2024 | Refresher course in “Recent trend in Zoology” | 3 -16 January 2024 |

9. Collaborative activities with other institutions/ research establishments/industry for research and academic development

| Title of the collaborative activity | Name of the collaborating agency with contact details | Year of collaboration | Duration | Nature of the activity |
|---|---|------------------------------|-----------------|-------------------------------|
| Comparative evaluation of phenotypic and genotypic methods for detection of drug resistance among <i>Mycobacterium tuberculosis</i> complex and their outcome | BRD medical college, Gorakhpur (Dr. Amresh kumar Singh), Head, Department of Microbiology, Contact No. 7007360324 | 2020 | 4 years | Research |

10. Functional MoUs with institutions/ industries in India and abroad for internship, on-the-job training, project work, student / faculty exchange and collaborative research

| Name of the Organisation/ Institution/ Industry with whom MoU is signed | Year of signing MoU | Duration of MoU | Actual activities under each MOU year wise |
|---|----------------------------|------------------------|---|
| Sanjay Gandhi Post Graduate Institute of Medical Sciences, Lucknow / Director and Dean (research) | 2021 | 5 years | Research |

11. Details of Conference/Seminar attended –

| Year | Name of the conference/ workshop | International/ National /State | Name of the professional body for which membership fee provided |
|-------------|--|---|--|
| 2023 | Emerging techniques for the characterization and therapeutic evaluation of traditional ayurvedic/herbal medicines | National | Transnational Biomedical Research Society |
| 2021 | Present Status and Future Trends in Entomological & Wildlife Studies: an Emerging Platform for Zoologists" (PENWI - 21) | International | Department of Zoology, Mohan Lal Sukhodia University, Udaipur, Rajasthan |
| 2020 | National Seminar on "Omics for Food, Health and Environment" (OFHE-2020) | National | Department of Biotechnology, DDU Gorakhpur University |
| 2020 | National webinar-cum-seminar "Sustainable development of Poorvanchal: Issues, strategies and way forward | National | Poorvanchal Vikas Board, Govt. of U.P. and DDU Gorakhpur University |
| 2019 | Workshop on Tools and Techniques in Life Sciences, Department of Zoology, DDU Gorakhpur University | National | Department of Zoology, DDU Gorakhpur University |
| 2019 | Biotechnological Interventions in Agriculture, Health and Industry (BIAHI-2019) | National | Department of Biotechnology, DDU Gorakhpur University |
| 2018 | Advances in Biological and Environmental Research for Human Welfare (ICABERHW-2018) | International | Department of Zoology, DDU Gorakhpur University |
| 2015 | 4 th Biennial Congress of the Asian Neurogastroenterology & Motility Association | International | Indian Motility & functional disease association & Sanjay Gandhi PGI medical Sciences, Lucknow |
| 2015 | 3 rd Lucknow Science Congress and National Conference on "Science For Society: an interdisciplinary Approach" | National | Babasaheb Bhimrao Ambedkar University, Lucknow |
| 2014 | 55 th Annual Congress of Indian Society of Gastroenterology (ISGCON), Mumbai | National | Indian Society of Gastroenterology |
| 2013 | 54 th Annual conference of Indian Society of Gastroenterology (ISGCON), Ahmadabad | National | Indian Society of Gastroenterology |
| 2012 | Asia Pacific Digestive Week (APDW) 2012, Bangkok, Thailand | International | Asian Pacific Digestive Society |
| 2012 | 53 rd Annual conference of Indian Society of Gastroenterology (ISGCON), Jaipur | National | Indian Society of Gastroenterology |
| 2011 | 1 st Biennial Meeting of Indian Motility & Functional Diseases Association | National | Indian Motility & Functional Diseases Association |
| 2011 | 52 nd Annual conference of Indian Society of Gastroenterology | National | Indian Society of Gastroenterology |

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| | (ISGCON), Coimbatore | | |
| 2011 | 7 th Annual conference of Association of Medical Microbiologists-UP Chapter | National | Dept. of Microbiology, Sanjay Gandhi PGI medical Sciences, Lucknow |
| 2010 | International Symposium on role of Genomics in clinical Practice & 35 th Annual Conference of the Indian Society of Human Genetics (ISHG 2010), Lucknow | International | Indian Society of Human Genetics |
| 2010 | 51 th Annual conference of Indian Society of Gastroenterology (ISGCON), Hyderabad | National | Indian Society of Gastroenterology |
| 2010 | ICMR-FERCAP Human Subject Protection Course” | National | ICMR & SGPGIMS, Lucknow |

11. Any other information:

1. Organized seven days online workshop entitled as “Research Methodology for life Sciences” on June 23-29, 2021 as an **Organizing Secretary**.
2. Organized the international webinar entitled as “Pandemic era of COVID-19: Where we stand? Where to go?” on June 09-10, 2020 as an **Organizing Secretary**.
3. I have also received the **international travel Grant** from Indian Council of Medical Research (ICMR), Council of Scientific and Industrial Research (CSIR) and Department of Biotechnology (DBT) for attending the Asia Pacific Digestive Week 2012 held at Bangkok, Thailand. I got **1st prize** in oral presentation as a presenter in 3rd annual National conference of **Lucknow Science Congress (LUSCON) 2015** held at BBA (Central) University, Lucknow, **1st prize** in poster presentation as a presenter in 51th annual National conference of **Indian society of Gastroenterology (ISGCON) 2010** held at Hyderabad and **2nd prize** in poster presentation as a presenter in **4th Biennial Congress of Asian Motility and functional Disease (ANMA) 2015** held at New Delhi.
4. I am also expertise in **molecular biology techniques** like DNA extraction from fresh & clotted blood, fresh tissue, micro dissected tissue and plant tissues, RNA extraction from frozen tissue, tissue sections, protein extraction from cell lysates and tissues, purification and quantification of Genomic DNA, RNA and Protein, Restriction Fragment Length Polymorphism (RFLP), Random Variants of PCR like Hot start, Touch-down, Multiplex, Nested, ARMS, , RT PCR etc, , **Immunological techniques** like ELISA, Immunohistochemistry (IHC), microbiology techniques like isolation and culture of bacteria, Mammalian cell culture, MIC and other basic microbiological techniques and **Biostatistics like** sample size calculation using Quanto 1.2 AND Epi-info 3.3.2 ver softwares, t-test, Fisher’s exact test, X² test, Correlation and regression analysis, Binary logistic regression, ROC curve, Sensitivity and Specificity, Multivariate analysis, Survival analysis (Kaplan Meier test, Cox regression analysis etc) by using SPSS-15-20, Epi-info and

Graph pad, haplotype analysis by Arlequin, Genepop and SNP Analyzer, Multiple comparison tests like Bonferroni's correction etc.

Date:

(Signature)

Place: