

Name of Faculty: Dr. Abhineet Goyal

Designation: Head of School, SAGE School of Sciences and
Professor in Biotechnology

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Educational Qualification: (Ph.D /PG/ UG)

BSc Biotechnology, Jiwaji University, Gwalior, India

MSc Biotechnology, Jiwaji University, Gwalior, India

MS Bioinformatics, University of Turin, Italy

PhD Biotechnology, University of Turin, Italy

PDRA, The Johns Hopkins University, Baltimore, MD, USA

Total Experience:

Academic : 09yrs | Industry : 0 yrs | Research : 10 yrs

Areas of Interest:

Mechanistic Enzymology, Cancer Biology, Nosocomial Infection, Biotransformation, Systems Biology, Microbial Metabolism

Brief Profile:

Dr. Abhineet Goyal has earned his Bachelors and Masters from Jiwaji University, Gwalior, India and graduated from University of Turin, Turin, Italy with major in Protein Engineering and minor in Bioinformatics. He has worked at The Johns Hopkins University, Baltimore, USA to understand the progression of Cancer in humans. He has served numerous research and educational organisations of repute globally like National Dairy Research Institute (NDRI-ICAR), Karnal, India, Post Graduate Institute of Medical Education and Research (PGIMER-ICMR) Chandigarh, India, of Microbial Technology (IMTech-CSIR), Chandigarh (UT) India. He is a winner of various national and international scholarships for higher studies abroad. His primary research interests cover Cancer Biology, Nosocomial Infections, Biotransformation and Systems Biology.

Research publications in International Journal:

1. Jasrotia R, Dhanjal DS, Bhardwaj S, Sharma P, Chopra C, Singh R, Kumar A, Mubayi A, Kumar D, Raj Kumar R, **Goyal A** (2022). Nanotechnology based vaccines: Cervical cancer management and perspectives. *J Drug Deliv Sci Technol.* 71 103351
2. Bapat MS, Singh H, Shukla SK, Singh PP, Vo DN, Yadav A, **Goyal A**, Sharma A and Kumar D (2022). Evaluating Green Silver Nanoparticles as Prospective Biopesticides: An Environmental Standpoint. *Chemosphere.* 286 1-17
3. Shrivastav J, Razdan L, MD and **Goyal A**. Implementation of Ventilator Associated Pneumonia (VAP) Bundle in Adult ICU Reduces Mortality Rate (2021). *J of Emerg Tech Innov Res.* 8(5): 563-565.
4. **Goyal A** and Jain SK. Prevalence of Nosocomial Infections Associated with Cancer Patients (2015). *Int J Pharm Clinical Res.* 7(2): 126-129.
5. Sideri A, **Goyal A**, Di Nardo G, Tsotsou GE and Gilardi G. Hydroxylation of Non-Substituted Polycyclic Aromatic Hydrocarbons by Cytochrome P450 BM3 Engineered by Directed Evolution (2013). *J InorgBiochem.* 120:1-7.
6. Tsotsou G E, Sideri A, **Goyal A**, Di Nardo G and Gilardi G. Identification of Mutant Asp251Gly/Gln307His of Cytochrome P450 BM3 for the Generation of Metabolites of Diclofenac, Ibuprofen and Tolbutamide (2012). *ChemEur J*, 18: 3582–3588.
7. Ghosh A, **Goyal A** and Jain RK. Study of Methanol-Induced Phenotypic Changes in A Novel Strain of *Acinetobacter lwoffii* (2007). *Arch Micr*, 188:533-539.

Total Citation Index: (h-index 3: , i10-index: 2)

(Research paper detail in APA format) (Impact factor:)(Citation:)

1. Jasrotia R, Dhanjal DS, Bhardwaj S, Sharma P, Chopra C, Singh R, Kumar A, Mubayi A, Kumar D, Raj Kumar R, **Goyal A** (2022). Nanotechnology based vaccines: Cervical cancer management and perspectives. *J Drug Deliv Sci Technol.* 71 103351
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3. Shrivastav J, Razdan L, MD and **Goyal A**. Implementation of Ventilator Associated Pneumonia (VAP) Bundle in Adult ICU Reduces Mortality Rate (2021). *J of Emerg Tech Innov Res.* 8(5): 563-565.

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5. Sideri A, **Goyal A**, Di Nardo G, Tsotsou GE and Gilardi G. Hydroxylation of Non-Substituted Polycyclic Aromatic Hydrocarbons by Cytochrome P450 BM3 Engineered by Directed Evolution (2013). *J InorgBiochem.* 120:1-7.
6. Tsotsou G E, Sideri A, **Goyal A**, Di Nardo G and Gilardi G. Identification of Mutant Asp251Gly/Gln307His of Cytochrome P450 BM3 for the Generation of Metabolites of Diclofenac, Ibuprofen and Tolbutamide (2012). *ChemEur J*, 18: 3582–3588.
7. Ghosh A, **Goyal A** and Jain RK. Study of Methanol-Induced Phenotypic Changes in A Novel Strain of *Acinetobacter lwoffii* (2007). *Arch Micr*, 188:533-539.

Papers/Posters presented in International Conferences:

1. **Goyal A**, Doncheva I and Roth JP. Proton Coupled Electron Tunneling (PCET)-H₂ Tunneling Steps in COX-2 Mutant Y348F Catalysis. 21st Annual Retreat, Institute For Biophysical Research, September 7-8 2013, The Johns Hopkins University, Baltimore, MD, USA.
2. Ghosh A, Paul D, Prakash D, **Goyal A**, Jain RK. Molecular and biochemical characterization of 2,4-dinitrophenol and picric acid degradation by a novel *Rhodococcus* sp. IBBS-13. 13th International Biodeterioration and Biodegradation Symposium 4-9 September, 2005 – Madrid, Spain.

Papers/Research Note presented in National Conferences:

1. **Goyal A**. Food-Drug-CYP Interaction (2016). Invited Research Note in Contemporary Practices, Trends And Innovations In Hospitality & Tourism Proceedings of International Conference on Hospitality and Tourism (ICOHOST), Victorious Publishers pp VII.

International/National Conference & Workshops Attended:

Conference/Workshop-International:

1. INDO-US VIRTUAL WORKSHOP ON Next Generation of STEM Scientists (NGSS) Building Skills, Collaborations & Networks with Global Leaders AUGUST 04-06, 2022 (As Advisor)
2. **Goyal A**, Doncheva I and Roth JP. Proton Coupled Electron Tunneling (PCET)-H₂ Tunneling Steps in COX-2 Mutant Y348F Catalysis. 21st Annual Retreat, Institute For Biophysical Research, September 7-8 2013, The Johns Hopkins University, Baltimore, MD, USA.
3. The EdRox Network (an alliance of Marie Curie Fellows) Meeting (from 23/04 to 25/04 2008) held at Department of Human and Animal Biology, University of Turin, Italy (As Volunteer).

Conference/Workshop-National:

1. Curriculum Development Workshop for Undergraduate Courses (05/05/2017) at National Institute of Technical Teachers Training and Research (Ministry of Human Resource Development, Govt. of India) Sector 26, Chandigarh, 160019 (India).
2. India-Ontario Networking Event on Internationalization of Higher Education in association with The Confederation of Indian Industry (CII) (03/02/2016) at Hotel Taj, Chandigarh Chandigarh, UT, India (as delegate)

3. One Day National Workshop on Research Innovation and Grants (07/03/2015) organized by Amar Shaheed Baba Ajit Singh Jujhar Singh Memorial College of Pharmacy, Bela, Ropar, Punjab, India.
4. Mini-Workshop on Basic Techniques in Culture Collections and Molecular Microbial Ecology (10/06/2004 to 18/06 2004 held at Institute of Microbial Technology, Chandigarh, India (As Volunteer).
5. American Society of Microbiology (ASM) short course on “Molecular Ecology of Biodegradation” in collaboration with University of Florida, USA. (From 21/03/2005 to 1/04 2005) held at Institute of Microbial Technology, Chandigarh, India (As Volunteer).

Awards/Recognitions:

1. Recipient of Italia/India Project Fellowship for Doctoral Studies, University of Turin, Italy 2008-2011.
2. Recipient of Italian Govt. Scholarship for Specialized MS Course, University of Turin, Italy 2007-2008.

Workshops/Seminars/Conference Organized:

1. IInd National Conference on Advances in Computer Science (29/04/2017) at GNA University, Phagwara, Punjab, India (as Co-Convener).
2. International Conference on Hospitality and Tourism (ICOHOST-12/11/2016) at GNA University Phagwara, Punjab, India (as Co-Convener).

Membership of Professional Bodies:

1. Health and Dental Chair, Homewood Campus Postdoctoral Association, (2012-2013) The Johns Hopkins University, Baltimore, MD, USA.

Other Achievements:

1. Springer “Current Microbiology” and “Elsevier “Gene”.
2. **Sequence Deposited:** Ghosh A, Goyal A and Jain RK. Unique, ~550 bp of *mdh* and 380 bp of *fdh* genes were amplified from strain LS2, Sequenced and Deposited at NCBI GenBank with accession numbers EF541123 and EF541124.