



FACULTY FULL NAME: SURIYA REHMAN

ASSISTANT PROFESSOR

Personal Data

Nationality | Indian

Date of Birth | 26-04-1977

Department | Epidemic Diseases Research

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Language Proficiency

Language	Read	Write	Speak
Arabic	√		√
English	√	√	√
Others	Urdu/hindi/kashmiri	Urdu/hindi/kashmiri	Urdu/hindi/kashmiri

Academic Qualifications (Beginning with the most recent)

Date	Academic Degree	Place of Issue	Address
30-02-2010	Ph.D	Jamia Hamdard University	Jamia Hamdard University, New Delhi, India
2000- 2002	Masters In Microbiology	Bundelkhand University	Bundelkhand University, Jhansi. UP. India

PhD, Master or Fellowship Research Title: (Academic Honors or Distinctions)

PhD	Isolation and identification of Endophytic microbe from the medicinal plant of India for the production of bioactive molecule with reference to anticancer drug.
Master	Isolation and Screening of Lipase producing microbes.
Fellowship	

Professional Record: (Beginning with the most recent)

Job Rank	Place and Address of Work	Date
Lecturer	Department of Bioresources, University of Kashmir, India	2009 -2010



Lecturer		Institute of Research and Medical Consultations, IAU, Dammam.	2017- 2019
ASSISTANT Prof.		Institute of Research and Medical Consultations, IAU, Dammam.	2019 till date

Administrative Positions Held: (Beginning with the most recent)

Administrative Position	Office	Date
NA		
NA		

Scientific Achievements

Published Refereed Scientific Researches

1. Rehman, S., Albhishiri, G., Alsalem, Z. *et al.* Bionanocomposites comprising mesoporous metal organic framework (ZIF-8) phytofabricated with *Allium sativum* as alternative nanomaterials to combat antimicrobial drug resistance. *Bioprocess Biosyst Eng* (2024). <https://doi.org/10.1007/s00449-024-03027-y>
2. Rehman, S., Ravinayagam, V., Al-Jammel, S. S., Ali, S. M., Alzayer, S. Z., Alfaraj, Z. M., ... & Jermy, B. R. (2024). Controlling Cisplatin Release by Synergistic Action of Silver-Cisplatin on Monodispersed Spherical Silica for Targeted Anticancer and Antibacterial Activities. *Arabian Journal of Chemistry*, 105661.
3. Rehman S, Jermy BR, Rather IA, Sabir JSM, Aljameel SS, Almessiere MA, Slimani Y, Khan FA, Baykal A. Pr³⁺ Ion-Substituted Ni-Co Nano-Spinel Ferrites: Their Synthesis, Characterization, and Biocompatibility for Colorectal Cancer and Candidaemia. *Pharmaceuticals*. 2023; 16(10):1494. <https://doi.org/10.3390/ph16101494>
4. REHMAN, Suriya. Review A parallel and silent emerging pandemic: Antimicrobial resistance (AMR) amid COVID-19 pandemic. *Journal of Infection and Public Health*, 2023. <https://doi.org/10.1016/j.jiph.2023.02.021>
5. Rehman, S., Alahmari, F., Aldossary, L., Alhout, M., Aljameel, S. S., Ali, S. M., ... & Rather, I. A. (2023). Nano-sized warriors: zinc chromium vanadate nanoparticles as a dual solution for eradicating waterborne enterobacteriaceae and fighting cancer. *Frontiers in Pharmacology*, 14. *Front. Pharmacol.* 14:1213824. doi: 10.3389/fphar.2023.1213824
6. Almuzafar, H. M., AlDuhaisan, N. N., Ahmed, H. M., Elsharif, A. M., Rehman, S., Akhtar, S., ... & Khan, F. A. (2023). Synthesis and characterizations of Fe (II) phthalocyanine and Zn phthalocyanine on colon cancer, cervical cancer, and bacterial cells. *Arab Journal of Basic and Applied Sciences*, 30(1), 208-220.
7. Hannachi, E., Khan, F. A., Slimani, Y., Rehman, S., Trabelsi, Z., Akhtar, S., & Al-Suhaimi, E. A. (2022). In Vitro Antimicrobial and Anticancer Peculiarities of Ytterbium and Cerium Co-Doped Zinc Oxide Nanoparticles. *Biology*, 11 (12), 1836
8. Hannachi, E., Khan, F. A., Slimani, Y., Rehman, S., Trabelsi, Z., Akhtar, S., & Al-Suhaimi, E. A. (2022). Fabrication, Characterization, Anticancer and Antibacterial Activities of ZnO Nanoparticles Doped with Y and Ce Elements. *Journal of Cluster Science*, 1-12.
9. Firoz, A., Ali, H. M., Rehman, S., & Rather, I. A. (2022). Gastric Cancer and Viruses: A Fine Line between Friend or Foe. *Vaccines*, 10(4), 600. **IF:4.1 (Q2)**.
10. Farooq, R. K., Alamoudi, W., Alhibshi, A., Rehman, S., Sharma, A. R., & Abdulla, F. A. (2022). Varied Composition and Underlying Mechanisms of Gut Microbiome in Neuroinflammation. *Microorganisms*, 10(4), 705. **IF:3.8 (Q2)**.
11. Khan, A. S., Alshaia, A., AlDubayan, A., Alarifi, S., Alamri, A., Aldossary, H., ... & Rehman, S. (2022). Preparation of



Nano-Apatite Grafted Glass-Fiber-Reinforced Composites for Orthodontic Application: Mechanical and In Vitro Biofilm Analysis. *Materials*, 15(10), 3504. **IF:3.6 (Q2).**

12. Almuzafar, H. M., Ahmed, H. M., AlDuhaisan, N. N., Elsharif, A. M., Aldossary, H., **Rehman, S.**, & Khan, F. A. (2022). Synthesis of 29H, 31H-phthalocyanine and chloro (29H, 31H-phthalocyaninato) aluminum derivatives showed anti-cancer and anti-bacterial actions. *Journal of Saudi Chemical Society*, 101436. **IF:3.932 (Q2).**
13. **Rehman, Suriya**, Vijaya Ravinayagam, Insha Nahvi, Hanan Aldossary, Maha Al-Shammari, Mai Saad Al Amiri, Uday Kishore, and Ebtesam A. Al-Suhaimi. "Immunity, Sex Hormones, and Environmental Factors as Determinants of COVID-19 Disparity in Women." *Frontiers in Immunology* (2021): 3279. **IF: 7.5. (Q1).**
14. **Rehman, Suriya**, Munirah A. Almessiere, Suhailah S. Al-Jameel, Uzma Ali, Yassine Slimani, Neda Taskhandi, Najat S. Al-Saleh et al. "Designing of Co₀. 5Ni₀. 5GaxFe_{2-x}O₄ (0.0 ≤ x ≤ 1.0) Microspheres via Hydrothermal Approach and Their Selective Inhibition on the Growth of Cancerous and Fungal Cells." *Pharmaceutics* 13, no. 7 (2021): 962. **IF: 6.3. (Q1).**
15. **Rehman, Suriya**, Munirah A. Almessiere, Ebtesam A Al-Suhaimi, Mehwish Hussain, Maha Yousuf Bari, Syed Mehmood Ali, Suhailah S. Al-Jameel, Yassine Slimani, Firdos Alam Khan, and Abdulhadi Baykal. "Ultrasonic Synthesis and Biomedical Application of Mn₀. 5Zn₀. 5Er_xY_xFe_{2-2x}O₄ Nanoparticles." *Biomolecules* 11, no. 5 (2021): 703. **IF: 4.5. (Q2).**
16. Almessiere M, Slimani Y, **Rehman S**, Khan FA, Sertkol M, Baykal A. Green synthesis of Nd substituted Co-Ni nanospinel ferrites: structural, magnetic and antibacterial/anticancer investigation. *Journal of Physics D: Applied Physics*. 2021 Oct 14.
17. Aldakheel RK, Gondal MA, Almessiere MA, **Rehman S**, Nasr MM, Alsalem Z, Khan FA. Spectrochemical analysis using LIBS and ICP-OES techniques of herbal medicine (Tinnevely Senna leaves) and its anti-cancerous/antibacterial applications. *Arabian Journal of Chemistry*. 2021 Dec 1;14(12):103451.
18. Al-Jameel, Suhailah S., **Suriya Rehman**, Munirah A. Almessiere, Firdos A. Khan, Yassine Slimani, Najat S. Al-Saleh, Ayyar Manikandan, Ebtesam A. Al-Suhaimi, and Abdulhadi Baykal. "Anti-microbial and anti-cancer activities of Mn₀. 5Zn₀. 5Dy_xFe_{2-x}O₄ (x ≤ 0.1) nanoparticles." *Artificial Cells, Nanomedicine, and Biotechnology* 49, no. 1 (2021): 493-499. **IF: 5.6. (Q1).**
19. Yaman, Cevat, Ismail Anil, Omar Alagha, Nawaf I. Blaisi, Ayse Burcu Yaman, Aleem Qureshi, Emre Cevik, Suriya Rehman, Seyda Tugba Gunday, and Mohammad Barghouthi. "Toluene Bioremediation by Using Geotextile-Layered Permeable Reactive Barriers (PRBs)." *Processes* 9, no. 6 (2021): 906. **IF: 2.8. (Q2).**
20. Yaman, Cevat, **Suriya Rehman**, Tanveer Ahmad, Yusuf Kucukaga, Burcu Pala, Noor AlRushaid, Syed Riyaz Ul Hassan, and Ayse Burcu Yaman. "Community Structure of Bacteria and Archaea Associated with Geotextile Filters in Anaerobic Bioreactor Landfills." *Processes* 9, no. 8 (2021): 1377. **IF: 2.8. (Q2).**
21. Al-Khater KM, Almofty S, Ravinayagam V, Alrushaid N, **Rehman S**. Role of a metastatic suppressor gene KAI1/CD82 in the diagnosis and prognosis of breast cancer. *Saudi Journal of Biological Sciences*. 2021 Mar 10. **IF: 4.2.(Q2).**
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30. Khan S, Tombuloglu H, Hassanein SE, **Rehman S**, Bozkurt A, Cevik E, Abdel-Ghany S, Nabi G, Ali A, Sabit H. Coronavirus diseases 2019: Current biological situation and potential therapeutic perspective. *European Journal of Pharmacology*. 2020 Aug 5:173447. **IF: 3.1. (Q1)**.
31. Aldakheel RK, **Rehman S**, Almessiere MA, Khan FA, Gondal MA, Mostafa A, Baykal A. Bactericidal and In Vitro Cytotoxicity of Moringa oleifera Seed Extract and Its Elemental Analysis Using Laser- Induced Breakdown Spectroscopy. *Pharmaceuticals*. 2020 Aug;13(8):193 **IF: 4.2. (Q1)**.
32. **Rehman S**, Almessiere MA, Khan FA, Korkmaz AD, Tashkandi N, Slimani Y, Baykal A. Synthesis and biological characterization of Mn₀. 5Zn₀. 5EuxDyxFe₁. 8-2xO₄ nanoparticles by sonochemical approach. *Materials Science and Engineering: C*. 2020 Apr 1;109:110534. <https://www.sciencedirect.com/science/article/pii/S0928493119341141> **IF: 5.8. (Q1)**.
33. Ansari, M.A., Khan, F.B., Safdari, H.A., Almatroudi, A., Alzohairy, M.A., Safdari, M., **Rehman S**, Amirizadeh, M., Equbal, M.J. and Hoque, M., 2020. Prospective therapeutic potential of Tanshinone IIA: An updated overview. *Pharmacological Research*, p.105364. **IF: 5.8. (Q1)**.
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36. Algarou NA, Slimani Y, Almessiere MA, **Rehman S**, Younas M, Unal B, Korkmaz AD, Gondal MA, Trukhanov AV, Baykal A, Nahvi I. Developing the magnetic, dielectric and anticandidal characteristics of SrFe₁₂O₁₉/(Mg₀. 5Cd₀. 5Dy₀. 03Fe₁. 97O₄) x hard/soft ferrite nanocomposites. *Journal of the Taiwan Institute of Chemical Engineers*. 2020 Aug 18. **IF: 4.7. (Q1)**.



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38. Alahmari F, **Rehman S**, Almessiere M, Khan FA, Slimani Y, Baykal A. Synthesis of Ni_{0.5}Co_{0.5}-xCd_xFe_{1.78}Nd_{0.0204} (x ≤ 0.25) nanofibers by using electrospinning technique induce anti-cancer and anti-bacterial activities. *Journal of Biomolecular Structure and Dynamics*. 2020 Apr 27:1-2. **IF: 3.31. (Q2)**.
39. Akhtar S, **Rehman S**, Asiri SM, Khan FA, Baig U, Hakeem AS, Gondal MA. Evaluation of bioactivities of zinc oxide, cadmium sulfide and cadmium sulfide loaded zinc oxide nanostructured materials prepared by nanosecond pulsed laser. *Materials Science and Engineering: C*. 2020 Jun 5:111156. **IF: 5.8. (Q1)**.
40. Mir, Rashid, Imadeldin Elfaki, Chandan K. Jha, Jamsheed Javid, **Suriya Rehman**, Shaheena Banu, Mohammad Muzaffar Mir, Abdullatif Taha Babakr, and S. M. S. Chahal. "Molecular Evaluation of MicroRNA-146 Gene Variability (rs2910164 C> G) and its Association with Increased Susceptibility to Coronary Artery Disease." *Microrna (Sharjah, United Arab Emirates)* (2020). **IF: 3.31. (Q2)**.
41. Taqvi, Shagufta, Eijaz Ahmed Bhat, Nasreena Sajjad, Jamal SM Sabir, Aleem Qureshi, Irfan A. Rather, and **Suriya Rehman**. "Protective effect of vanillic acid in hydrogen peroxide-induced oxidative stress in D. Mel-2 cell line." *Saudi Journal of Biological Sciences* (2020). **IF: 4.2. (Q2)**.
42. Shaimaa Abdel-Ghany, Sara Raslan, Huseyin Tombuloglu, Aly Shamseddin, Emre Cevik, Osama A. Said, Engy F. Madyan, Mehmet Senel, Ayhan Bozkurt, **Suriya Rehman** & Hussein Sabit. Vorinostat- loaded titanium oxide nanoparticles (anatase) induce G2/M cell cycle arrest in breast cancer cells via *PALB2* upregulation <https://doi.org/10.1007/s13205-020-02391-2> **IF: 2.4. (Q2)**
Biotech Volume 10, Article number: 407 (2020)
43. Ravinayagam V, **Rehman S**. Zeolitic imidazolate framework-8 (ZIF-8) doped TiZSM-5 and Mesoporous carbon for antibacterial characterization. *Saudi Journal of Biological Sciences*. 2020 May 16. **IF: 4.2. (Q1)**.
44. Singh S, **Rehman S**, Fatima Z, Hameed S. Protein kinases as potential anticandidal drug targets. *Frontiers in bioscience (Landmark edition)*. 2020 Mar 1; 25:1412. **IF: 4.0. (Q1)**.
45. **Suriya Rehman**, Sarah Mousa Asiri, Firdos Alam Khan, B Rabindran Jermy, Reem Al Jindan, Ahsanulhaq Qurashi. Synthesis of Tin Doped Indium Oxide Nanoparticles with Enhanced Anticandidal and Anti-Proliferative Activity (2020). *Scientific reports*, <https://www.nature.com/articles/s41598-020-60295-w> **IF: 4.3. (Q1)**.
46. Jermy R, Ravinayagam V, Alamoudi W, Almohazey D, Elanthikkal S, Dafalla H, **Rehman S**, Chandrasekar G, Baykal A. Tuning pH sensitive chitosan and cisplatin over spinel ferrite/silica nanocomposite for anticancer activity in MCF-7 cell line. *Journal of Drug Delivery Science and Technology*. 2020 Apr 3:101711. **IF: 2.7. (Q2)**.
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55. Ismail Abdul Azeez, A.Matin M.Khan M.M.Khaled M.A.Ansari S.Akhtar **S. Rehman**. Facile preparation of antiadhesive and biocidal reverse osmosis membranes using a single coating for efficient water purification, *Journal of Membrane Science* Volume 591, 1 December 2019, 117299 **IF:7.0. (Q1).**
56. **Suriya Rehman**, Sarah Mousa Asiri, Firdos Alam Khan, Dr. B Rabindran Jermy, Dr. Hafeezullah Khan, Dr. Sultan Akhtar, Dr. Reem Al Jindan, Prof. Khalid Mohammed Khan, Prof. Ahsanulhaq Qurashi Biocompatible Tin Oxide Nanoparticles: Synthesis, Anticandida and Anticancer Activities *ChemistrySelect*, Volume4, Issue14, Pages 4013-4017. 2019. **IF:1.9. (Q3).**
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56. Alkharsah, K R., **Suriya Rehman**, Fatimah Alkhamis, Amani Alnimr, Asim Diab, and Amein K. Al-Ali. "Comparative and molecular analysis of MRSA isolates from infection sites and carrier colonization sites." *Annals of clinical microbiology and antimicrobials* 17, no. 1 (2018): 7. IF:4.2. (Q2).
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- endophytic strain of *Fusarium oxysporum* producing podophyllotoxin from *Juniperus recurva*. World Journal of biotechnology and microbiology. 2008, vol 24, pp. 1115-1121. **IF:2.8. (Q2)**.
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Scientific Research Papers Presented to Refereed Specialized Scientific Conferences

#	Name of Investigator(s)	Research Title	Conference and Publication Date
	Lamar Almuslem, Zainab Alsalem, Suriya Rehman	Intervention of microbial nanotechnology for the sustainable agricultural products	6 th international conference on cutting edge solution in Science-agriculture technology, engineering and humanities . ISBN978-93-340-7696-7

Completed Research Projects

#	Name of Investigator(s) (Supported by)	Research Title	Report Date
	DSR-IAU PI	Green synthesis of nanoparticles using microorganisms and their bioactivity against multidrug resistant human pathogens	2019-2020
	CO-PI	Designing ZnO/alginate-hierarchical silica biocomposite for biomedical applications. Budget approved : 28,800.00 SR Application Number (Auto): 2019-	2019-2020



CO-PI	Laboratory Scale In-Situ Petroleum Hydrocarbon Bioremediation by using Geotextile filter, Bacteria and Nutrients	2019-2020
CO-PI	Designing ZnO/alginate-hierarchical silica biocomposite for biomedical applications. Budget approved : 28,800.00 SR Application Number (Auto): 2019-	2019-2020
PI	COVID-19 in Pediatric Age Group and Women with Physiology of Immune and Thymus response	2020-2021
CO-PI	Efficacy of broad-spectrum antiviral drugs and thymic peptides alone and in combination for the treatment of COVID-19 in vitro	2020-2021
CO-PI	Targeted delivery of Interferon Alpha for treatment of Corona based respiratory disease	2020-2021
CO-PI	SrFe ₁₂ -xRExO ₁₉ (hard)/Ni _{0.2} Cu _{0.4} Zn _{0.2} Fe ₂ O ₄ (soft) (RE=Nd, Gd, Er, Tm and Tb) hard/soft magnetic nanofibers: Microwave absorption, magnetic properties and antibacterial activities	2020-2021

Current Researches

#	Research Title	Name of Investigator(s)

Contribution to Scientific Conferences and Symposia

#	Conference Title	Place and Date of the Conference	Extent of Contribution
1	International conference on 8 th edition of Nanotechnology for Better Living”.	7- 11 Sept 2023, National Institute of Technology, Srinagar, India.	INVITED Speaker
2	International conference on Climate Change and its impact(CCI-2023)”.	8- 10 June 2023, SKAUST, Srinagar, India https://www.icnbl.org/ .	INVITED Speaker
3	Symposium	National Institute of	INVITED Speaker



	“Our relation with nature” Environmental symposium,	Technology, Srinagar, India, 5 th May 2022	
4	International conference on Nanotechnology for Better Living”.	7- 11 Sept 2021, National Institute of Technology, Srinagar, India.	INVITED Speaker

Membership of Scientific and Professional Societies and Organizations

- ☑ Life Member microbiologists Society, India.



- ☑ Life Member Society of Biological Chemists, India
- ☑ Society of Cancer Research -A National Society of India.
- ☑ Member of International Society of Infectious Diseases (ISID),
 - ☑ Member of Indian association of medical microbiologists (J&K, Chapter).
- ☑ Indian Institute of Integrative Medicines, Council of Scientific and Industrial Research.

Teaching Activities

Undergraduate

#	Course/Rotation Title	No./Code	Extent of Contribution (no. of lectures/Tutorials. Or labs, Clinics)
	<ul style="list-style-type: none"> • Bachelors in Environmental Engineering, College of Engineering, Imam Abdulrahman Bin Faisal University, Dammam, KSA, 	<ul style="list-style-type: none"> • <u>ENVEN 322-01F(8673)</u> 2021-2022. 	LECTURES

Brief Description of Undergraduate Courses Taught: (Course Title – Code: Description)

Environmental Microbiology

Postgraduate

#	Course/Rotation Title	No./Code	Extent of Contribution (no. of lectures/Tutorials. Or labs, Clinics)
1	Masters in Bioresources, Department of Botany, University of Kashmir, J&K, India	Biores-003	lectures



2	<ul style="list-style-type: none"> Masters in Biotechnology, Institute for Research and Medical Consultation, Imam Abdulrahman Bin Faisal University, Dammam, KSA, course code 	MSBE 820-LAB (10927)	Lectures & Labs
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Brief Description of Postgraduate Courses Taught: (Course Title – Code: Description)

1	Microbiology including bacterial fungal; and viral characteristics, diseases, pathogenesis and treatment
2	Microbiology including bacterial fungal; and viral characteristics, diseases, pathogenesis and treatment

Course Coordination

#	Course Title and Code	Coordinati on	Co-coordination	Undergr ad.	Postgrad .	From	To

Guest/Invited Lectures for Undergraduate Students

#	Activity/Course Title and Code	Subject	College and University or Program	Date
	Guest	“Severe Acute Respiratory Syndrome Coronavirus 2 (SARS-CoV-2): An Overview of Structure, Host Response and its current scenario in Children”	IRMC - Summer Research Program - 2020 organized by the Institute for Research and Medical Consultation (IRMC), IAU.	04 July 2020



Student Academic Supervision and Mentoring

#	Level	Number of Students	From	To
1	Master	6	2021	2024
2	Graduate/Undergraduate	10	2021	2024

Supervision of Master and/or PhD Thesis

#	Degree Type	Title	Institution	Date
1	Master in Biotechnology 3 students	Therapeutic intervention of nanomaterial against the C.auris	Institute for Research and Medical Consultation, IAU	2021
2	Ph.D		Amity Institute of Biotechnology, Haryana, India	2023

Ongoing Research Supervision

#	Degree Type	Title	Institution	Date

Administrative Responsibilities, Committee and Community Service (Beginning with the most recent)

Administrative Responsibilities

#	From	To	Position	Organization

Committee Membership

#	From	To	Position	Organization

Scientific Consultations

#	From	To	Institute	Full-time or Part-time



Volunteer Work

#	From	To	Type of Volunteer	Organization

Personal Key Competencies and Skills: (Computer, Information technology, technical, etc.)

1	MS OFFICE, ENDONOTE, MENDELEY, SPSS
2	BIORENDER, IMAGEJ

Last Update

02../...09.../2024