

SALMAN KHAN
Department of Biosciences,
Integral University, Lucknow.
Mobile: +919838687331
PP. NO. R1036238
E-mail:salmank@iul.ac.in
salmanmustufa.ali@gmail.com



Objective

Seeking a position to utilize my skills and abilities, where I can contribute to the organizational goals, growth and strength there by simultaneously acquire new skills.

Academic Qualification

- Ph.D in **(Microbiology)**, Title of the thesis- Biosynthesis of inorganic nano particles and their medicinal applications” (2017) Supervisor: Dr. Mohd. Sajid Khan, Integral University, Lucknow, India.
- M.Sc. in **Microbiology** from Integral University Lucknow (U.P.) (Aggregate 75%) in 2010.
- B.Sc. from Christ Church P.G college Kanpur, (CSJM University Kanpur) in year 2006
- Intermediate. U.P. Board 2003
- High School. U.P. Board 2001

IT Skills

Operating System: Windows 98, XP.

Packages : MS-Office (Excel).

Bioinformatics : BLAST, Fasta, Data Sequencing, Sequence Homology, Structural Homology.

Area of Interest

1. Microbiology
2. NanoBiotechnology
3. Immunology
4. Molecular biology

Practical Knowledge

- Qualitative and Quantitative estimation of Biomolecules.
- Isolation of Genomic DNA from Plant leaves, Bactreal Cells and Animal Cells.
- Agarose gel electrophoresis.
- SDS PAGE.
- Preparation of Bacterial Culture Media.
- Pure culture isolation
- Sterilization and quality control method
- Bacterial isolation from Soil and Water, blood sample, sputum, animal tissue.
- Identification of bacteria by different Staining methods.
- Antibiotic sensitivity test
- Determination of MIC and MBC
- Bioconjugation of drugs with nanoparticles
- Synthesis of Nanoparticles.
- Cytotoxicity Assays.
- extraction of bioactive compounds from medicinal plants

Work Experience

- Currently working as an Assistant Professor in the Department of Biosciences Integral University Lucknow, from 13th December, 2015 to till date.
- Working as UG & PG students training project supervisor, from 13th December 2016 to till date.
- Working as a UG course coordinator in the department of Biosciences Integral University Lucknow, from 2017 to till date.
- Lab-Instructor in microbiology lab, Dept. of Biotechnology, Integral University Lucknow, from 22 Aug 2012 to November 2015.
- Three months work experience in plant biotechnology. “Identification of bactericidal compound from medicinal plant using chromatographic fingerprinting”. from 22 December 2009 to March 2010.
- Best Poster Presentation at National Symposium at IIPR Kanpur in 2011.
- Worked as course organizer in INSPIRE Internship, DST Funded program in 2011 at Integral University Lucknow.
- Organized different programs at University and College level.
- Working as a Deputy Chief Warden Integral University boys hostel Lucknow, from December 2010 to till date.
- Working as a president of Alumni Association Integral University, from 22 December 2016 to till date.

Instrumentations Handling

- HPLC
- Scanning Electron Microscope
- Transmission Electron Microscope
- Dynamic Light Scattering
- UV-Vis Spectroscopy
- Elisa Reader
- Agarose gel electrophoresis.
- Laminar Air Flow
- PH-meter, Sonicator etc.
- Co₂ Incubator, Shaker incubator, Normal temperature incubator
- Gel-doc machine
- Centrifuge machine
- Infra Red Spectroscopy
- PCR.

Seminar and symposia attended

- Attended and **oral presentation** on “**Enhance the Bioactivity Of The Drugs And Make A Best Drug Delivery System**” The National Level symposium on **dendrimer in nano drug delivery** organized by national botanical research institute(NBRI) Lucknow.India held on 24th -25th December, 2011.

- Participated as delegate and **presented poster** in the National Level symposium, on **“Biodiversity And Food Security-Challenges and Devising strategies”** organized by Dheerpura Society For Advancement Of Science And Rural Development and Indian Institute of Pulses Research (**IIPR**) Kanpur, India. Held on 10th -11th December, 2011.
- Attended the National Level one day symposium on **“GM Food: Safety and Security”** jointly organized by Lucknow Chapter of Indian National Science Academy and Biotech Park, Lucknow on 16th March, 2012.
- Participated in the National Level Conference on **"Nanoscience and Biotechnology – Present & Future Prospectives"** organized by Department of Nanobiotechnology, Life Science Foundation India, Karnataka in collaboration with Department of Bioengineering, Faculty of Engineering, Integral University, Lucknow on 20th April, 2013.
- Participated in the National Level Workshop on **"Fundamentals of Nanosciences And Biotechnology”** organized by Department of Nanobiotechnology, Life Science Foundation India, Karnataka in collaboration with Department of Bioengineering, Faculty of Engineering, Integral University, Lucknow on 28th – 30th January, 2013.
- Participated in the National Level Workshop on **“Basics of flow cytometry (FACS)”** organized by Becton Dickinson(BD) India Pvt. Ltd. and Integral University, Lucknow, held on 21st -22nd May, 2013.
- Participated and **poster presentation** in the International Conference on **“Nano science and Nanotechnology”(ICNN)** organized by Department of Applied Physics, School for Physical Sciences Babasahab Bhimrao Ambedkar University, (a central university) Lucknow held on 18th -20th November,2013.
- Participated in the National Level Workshop on **“COMPUTER AIDED DRUG DESIGNING” 1st –NW-CADD-2013**, organized by Department of Bioeng., Faculty of Eng., Integral University, Lucknow, in collaboration with Department of life –Sciences, EGICORE, LUCKNOW held on 10th November, 2013.
- Participated in the National Level Workshop on **“Intellectual Property system: India Today and Tomorrow” (NLW-IPSITT-2014)** organized by Intellectual

Property Management Cell(IPRMC), CCGD, Integral University, Lucknow in collaboration with Intellectual Property Owners Association(IPOA),New Delhi held at 10th January, 2014.

- Participated in the National Level congress on **“Nanobiotechnological Approches For Sustainable Agriculture and Rural Development”** Organized By Integral University Lucknow And Bioved Research Institute of Agriculture And Technology, Allahabad, held at **22-23 February, 2014.**
- Participated in the National Level Workshop on **“Role of nanomedicines as therapeutic agents against multi-drug resistant pathogens” (NWN-2014)** held at department of biosciences, Integral University, Lucknow, 7th March- 2014.
- Participated in the National Level conference on **“Novel Tools and Treatment Approaches in health Care System” (NTTAHCS-2015)** organized by Faculty of Pharmacy, Integral University, Lucknow on 3rd March, 2015.
- Participated in the National Level Workshop on **“Data Analysis by SPSS”** organized by Mathematics Integral University, Lucknow held at 25th February, 2015.
- Participated in the National Level conference on **“Biotechnological Advancements In Free Radical Biology and Medicine” (ICBAFM)** organized by Department of Biosciences and bioeng., Integral University, Lucknow held at 14th-16th November, 2015.
- Appreciation certificate in the National Level conference on **“Biotechnological Advancements In Free Radical Biology and Medicine” (ICBAFM)** organized by Department of Biosciences and bioeng., Integral University, Lucknow held at 14th-16th November, 2015.
- Participated in the International Level Workshop on **“Cloud Computing” (RWCC-2015)** organized by School of Computer and System Sciences Jawaharlal Nehru University, New Delhi, held at 22-23 December, 2015.
- Participated in the International congress on **“Post-Harvest Technology Of Agricultural Produce For Sustainable Food and Nutritional Security” (ICPASN-2016)** held at Integral University, Lucknow, 10th -12th November, 2016.

- Participated in the National Level conference and first Indo-Russian Meet on **“Biotechnological Advancements In Free Radical Biology and Medicine” (ICBAFM)** organized by Department of Biosciences and Bioeng., Integral University, Lucknow held at 23rd -25th January, 2017.
- Appreciation certificate in the National Level conference and first Indo-Russian Meet on **“Biotechnological Advancements In Free Radical Biology and Medicine” (ICBAFM)** organized by Department of Biosciences and bioeng., Integral University, Lucknow held at 23rd -25th January, 2017.

Research Publications:

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JOURNAL ARTICLES

- **Khan, S.**, Rizvi, S.M.D., Avaish, M., Arshad, M., Bagga, P.S., Khan, M.S., **“A novel process for size controlled biosynthesis of gold nanoparticles using bromelain”**, *Materials Letters1*, (2015), 59, 373–376. (IF-2.48)
- **Khan, S.**, Haseeb, M., Baig, M. H., Bagga, P.S., Siddiqui, H.H., Kamal, M.A., Khan, M.S., **“An Ideal Delivery System for Secnidazole”**, *Saudi journal of biological sciences, Elsevier*, (2015), 22, 42-49 DOI- <http://dx.doi.org/10.1016/j.sjbs.2014.05.009>. (IF.- 1.257)
- **Khan, S.**, Rizvi, S.M.D., Saeed, M., Srivastava, A.K., Khan, M.S., **“A novel approach for the synthesis of gold nanoparticles using trypsin”** *Advanced Science Letters*”, 20, 1061-1065, (2014). (IF.- 1.25)
- **Khan, S.**, Rizvi, S.M.D., Ahmad, V., Baig, M.H., Kamal, M.A., Ahmad, S., Rai, M., Iqbal, A.N.M.Z., Khan, M.S., **“Magnetic Nanoparticles: properties, synthesis and biomedical applications”**, *Curr Drug Met.*, (2015). (IF.- 3.5)

- Sana Iram, **Salman Khan**, [Abu Ayoobul Ansary](#), Mohd Sajid Ayub Hasan Khan., “**Biogenic Terbium Oxide Nanoparticles as the Vanguard against Osteosarcoma**” *Spectrochimica Acta Part A Molecular and Biomolecular Spectroscopy* 168 · DOI: 10.1016/j.saa.2016.05.053, **June (2016). (IF.-2.65).**
- Sana Iram, Manaal Zahera, **Salman Khan**, Imran Khan, Asad Syed, Abu Ayoobul Ansary, Fuad Ameen, Omar H.M. Shairb, Mohd Sajid Khan “**Gold nanoconjugates reinforce the potency of conjugated cisplatin and doxorubicin**” *Colloids and Surfaces B: Biointerfaces* 160 (2017) 254–264, **(IF-3.88).**
- Syed Mohd. Danish Rizvi, Mohd. Zeeshan, **Salman Khan**; Evaluation and distribution of antibacterial potential in the aerial parts of wild *Tridax procumbens*. *J. Chem. Pharm. Res.*, (2011), 3(2):80-87 ISSN No: 0975-7384, **(IF-1.1).**
- Syed Mohd. Danish Rizvi, Sibghatulla Shaikh, Shashank Kumar Sharma, Shazi Shakil, Adel M. Abuzenadah, Hamida Aaqil, Dinesh Chandra Sharma, **Salman Khan**, Manaal Zahera, Rohit Kr. Tiwari “**COMBATING MULTI-DRUG RESISTANCE IN E. COLI AND S. AUREUS WITH METHANOLIC FLOWER EXTRACTS OF SPILANTHES OLERACAE AND ESTIMATING ITS PHYTOCHEMICAL CONSTITUTES**”, *World Journal of Pharmaceutical Research* Vol. 4, Issue 08, 2015,(**SJIF-8.01).**

Book Chapter:

Moniba Rahim, Sayed Mohd, Danish Rizvi, Sana Iram, **Salman Khan**, Param deep singh Bagga, Mohd. Sajid Khan. “**Intrraction of Green Nanoparticles with Cells and Organs**”, chapter 5, Page no.185-237, ISBN: 978-0-12-813661-4, <https://www.elsevier.com/books-and-journals>.

- **Indian Patent filed** with application no. 183/DEL/2013
 - i. Title of invention “GOLD NANO PARTICLES FOR BROMELAIN DELIVERY”
 - ii. Applicant(s): Mohd. Sajid Khan and Syed Mohd. Danish Rizvi
 - iii. **Inventor** (s): Mohd Sajid Khan, Syed Mohd. Danish Rizvi and **Salman Khan**

Bacterial Sequences Published to NCBI with accession no.

- Flavobacterium sp. Salman1 16S ribosomal RNA gene, partial sequence, 1429 bp linear DNA, **Accession No.:** KC967214, GI: 507848879, **Khan, S.** and Khan, M.S., (June, 2013).
- Acinetobacter sp. Salman2 16S ribosomal RNA gene, partial sequence, 1332 bp, linear DNA, **Accession No.:** KC967215, GI: 507848880, **Khan, S.** and Khan, M. S. (June, 2013).
- Bacillus sp. Salman3 16S ribosomal RNA gene, partial sequence, 1469 bp, linear DNA, **Accession No.:** KC967216, GI: 507848881, **Khan, S.** and Khan, M. S. (June, 2013).

Fungus Sequences Published to NCBI with accession no.

- Aspergillus Fumigatus sp. Salmanfa 18S ribosomal RNA gene, partial sequence, 1718 bp, linear DNA, **Accession No.:** KF913249, **Gen Bank ID: 1678515 Khan, S.** and Khan, M. S. (26-Nov, 2013).

- *Aspergillus Fumigatus* sp. Salmanfb 18S ribosomal RNA gene, partial sequence, 1719 bp, linear DNA, **Accession No.:** KF913250, **Gen Bank ID: 1678515** **Khan, S.** and Khan, M. S. (26-Nov, 2013).

Under Revision Articles:

- **Salman Khan** et al. “Induction of lung carcinogenesis in Swiss Albino mice by N-nitrosodiethylamine/Phenobarbitone (NDEA/PB); J. Chemico-biological Interactions” (**Elsevier**) (IF-2.9).
- **Salman Khan** et. al. “**Biogenic Pentagonal Silver Nanoparticles: Safer and more effective antibacterial agents**” *J.Nanomedicine: Nanotechnology, Biology and Medicine*,(IF-5.7)
- Optical Properties of Pure and Copper Doped ($x = 0.05, 0.10, 0.15\%$) Sodium Hexatitanate ($\text{Na}_2\text{Ti}_6\text{O}_{13}$) Synthesized by Sol- gel Reaction Routes. Shamim Ahamad Khan^{a*}, Manaal Zahera^b, **Salman Khan**^b, Irfan Ali Khan^a, Mohd Sajid Khan^b, Ameer Azam. Communicated in journal of sol-gel science and technology,(**IF-1.8**)
- Photocatalytic degradation of Methyl orange (MO) by Cadmium Oxide (CdO) Nanoparticles Synthesized by Sol-gel method. Shamim Ahamad Khan^{a*}, Manaal Zahera^b, **Salman Khan**^b, Irfan Ali Khan^a, Mohd Sajid Khan^b, Ameer Azam^c, Communicated in journal of sol-gel science and technology,(**IF-1.8**)

Strength

A fire & passion to achieve something in life , accepting challenges, having an optimistic attitude , believe in spirituality, punctuality, believe in myself, honesty, confident and hard working.

Personal Details

1. Date Of Birth : January 12, 1988
2. Father's Name : Mr. Mustafa Ali Khan
3. Nationality : Indian
4. Marital status : Married
5. Languages Known : English, Hindi & Urdu
6. Hobbies : Debate, Playing Cricket & Reading Books.

References

1. Dr. Mohd Sajid Khan

Associate Professor
Department of Biosciences
Integral University, Kursi Road,
Lucknow-226026(U.P.)India
mail:sajid_987@rediffmail.com
Phone :+91-9839179013.

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2. Prof. (Dr.) Qayyum Husain

Professor
Department of Biochemistry (Life
Science)
Aligarh Muslim University, Aligarh-
202002 (UP)
Email: qayyumbiochem@gmail.com
Phone :+91-9897701792.

3. Dr. Anil K. Suresh Ph.D. (Specialization:Nanotechnology)

Research Associate
Professor/Ramalingaswami Fellow
Department of Biotechnology
SRM University
Chennai-603203
Email. anil.y@ktr.srmuniv.ac.in
Phone :+91-7598102645

4. Prof. (Dr.) Huma Mustafa

Joint Director(Biotechnology)
Council of Science and Technology,
Govt. of Utter Pradesh, India
E-mail: mustafa_huma@hotmail.com

Declaration

I hereby declare that all the information given above is correct in the best of my knowledge and belief.

Date

(SALMAN KHAN)

Place.....