Roshan Keshari 194301001

Biosciences and Bioengineering (BSBE) Indian Institute of Technology, Bombay

Gender: Male DOB: Dec 02 1992

Permanent address: Birganj, Parsa, Nepal

Current address: Indian Institute of Technology Bombay, Hostel-12, A601, India

Contact No.: +91-7734006698, 8368808118

Email: roshankeshari220@gmail.com, roshanv@iitb.ac.in,

LinkedIn Id: www.linkedin.com/in/roshan-keshari-304b58110

Skype Id: roshankeshari220@gmail.com

AREAS OF INTEREST

Non-invasive Drug delivery, Nanomedicine, Nano Nutraceuticals, Biomaterials, Immunological and Dermatological disorder.

OBJECTIVES

Aiming for a position where creativeness and administrative skills are explored and potentially applied to the optimum. I would like to spend every moment on research and doing a profitable job for my institute and society.

EDUCATION AND QUALIFICATIONS

Sr. No	Examination	Board / University	Year	Division
1.	PhD in Nanomedicine	Indian Institute of Technology, Bombay (DAAD Fellow) C/o Prof. Rohit Srivastava, Prof. Shamik Sen	2019	Pursuing
2.	Master in Pharmacy (Industrial Pharmacy)	Delhi Pharmaceutical Sciences and Research University (Govt. NCT, Delhi)	2019	7.49 SGPA
3.	Graduate Pharmacy Aptitude Test (GPAT)	All India Council of Technical Education (AICTE)	2018	97.19 Percentile
4.	Bachelor in Pharmaceutical Sciences	Rajasthan University of Health Sciences (RUHS)	2017	1st Division

EXPERIENCES

Sr. No.	Position	Organization	Period
1.	QC Junior Analyst	Shiv Shakti Ghee Udhyog Jeetpur, Bara	April 2009 - June 2010
2.	QC Junior Analyst	National Healthcare Private, Limited Chhatapipra-Bara	Aug 2012 - April 2013

TRAINING

1. National Healthcare, Private, Limited **[May - Aug 2012]**
2. Glenmark Pharmaceuticals, Private, Limited. **[Dec 2015 – Jan 2016]**

SCHOLASTIC ACHIEVEMENTS

- Awarded by Hostel 12-IIT Bombay as a hostel color for the outstanding contribution as council member to the hostel **[2021-22]**
- Awarded by **DAAD (German Student Exchange programme)** to pursue PhD for five years at IIT Bombay. **[2020-25]**
- Awarded by **2nd** position in **Scientific Poster Presentation** entitled "Brand Building In Healthcare System" by Delhi Pharmaceutical Sciences and Research University. **[April 2019]**

- Awarded by the **American Association of Pharmaceutical Scientists (AAPS)** twice for contribution to Abstract screening of their conference held in the USA. **[November 2018 and 2019]**
- Awarded by Association of Pharmacy Profession and Professional Rajasthan state branch for scientific poster presentation on the topic **Carbon Nanotubes: Promising weapon in Healthcare System.** **[December 2015]**
- Awarded by **All India Council for Technical Education** for presenting the scientific paper (Poster) on the Application of Nanotechnology in Pharmaceutical Sciences. **[March 2014]**

KEY PROJECTS

- **"*Phytochemical drug-based lipid nanoparticles for treating mild to a moderate dermatological disorder like psoriasis", PhD. Project.*** Supervisor: Prof. Rohit Srivastava, Late. Prof. Rinti Banerjee, Co-supervisor: Prof. Shamik Sen **[2020-present]**
- **"*Formulation and Evaluation of Transdermal Testosterone Spray using different permeation enhancer and film-forming agent", Master's Project.*** Supervisor: Prof. Harvinder Popli, Registrar, Delhi Pharmaceutical Sciences and Research University, New Delhi. **[2018-19]**
- ***"High-Pressure Thin Layer Chromatography Detector: Review and Recommendation", Bachelor's project.*** **[2016-17]** Supervisor: Prof. Anju Goyal, Bhopal Nobel's Institute of Pharmaceutical Sciences, Udaipur, Rajasthan

SKILLS

- Exteemed expertise- **Experimental design, Nanoparticle synthesis, Lab Animal Handling, Animal dosing.**
- Operation of different sophisticated instruments- **Dissolution, SEM, Confocal microscopy, Spectroscopy, HPLC, DLS, Imaging on IVIS system, FTIR.**
- Molecular biology and cell biology techniques- **Gel electrophoresis, DNA and RNA extraction, FACS, RT-PCR, Western blotting, ELISA.**
- Histochemistry- **Histological slide processing, preparation, sectioning and staining.**

PUBLICATIONS

1. Pawar Vaishali, Priyanka Maske, Amreen Khan, Arnab Ghosh, **Roshan Keshari**, Mahek Bhatt, and Rohit Srivastava*. "Responsive Nanostructure for Targeted Drug Delivery." MDPI. Multidisciplinary Digital Publishing Institute, February 8, 2023. https://www.mdpi.com/2624-845X/4/1/4.
2. Punjabi K., Eshant Bhatia, **Roshan Keshari**, K. Jadhav, Subhasini Singh, J. Shastri, and R. Banerjee. "Biopolymer Coating Imparts Sustainable Self-Disinfecting and Antimicrobial Properties to Fabric: Translated to Protective Gears for the Pandemic and beyond: Semantic Scholar." ACS biomaterials science & engineering, January 31, 2023.
3. **Roshan Keshari**, Rajkumar Govindan, Biji Balakrishnan, P.A. Hassan." In situ gelling tissue adhesive hydrogels for wound closure and tissue regeneration". Engineered Biomaterials- Progresses and Prospects. First edition, Biji Balakrishnan, P. A. Hassan, A. K. Tyagi, worlds scientific publisher, 2022 (in press)
4. Dewani Mahima*, Nadim Ahamad, **Roshan Keshari**, and Rinti Banerjee. "Multifunctional Theranostic Nanomedicine for Photoacoustic Imaging-Guided Combination Tumor Treatment." Multifunctional Theranostic Nanomedicines in Cancer. Academic Press, 2021. https://www.sciencedirect.com/science/article/pii/B9780128217122000050.
5. Rajput, Amarjitsing, **Roshan Keshari**, Runali Patil, and R. Banerjee*. "Nanobiomaterials for Wound Healing" Nanotechnology in Medicine and Biology, 2021. First Edition, Huinan Liu, Tolou Shokuhfar & Sougata Ghosh, Elsevier, First Edition, 2021, 109-139
6. **R. Keshari**, A. Rajput, R. Patil, G. Sharma, R. Banerjee*. "Lipid-based drug delivery systems for psoriasis". Engineered Biomaterials- Progresses and Prospects. First edition, Biji Balakrishnan, P. A. Hassan, A. K. Tyagi, worlds scientific publisher,2021 (in press)

7. **Keshari Roshan**, Amarjitsing Rajput, Aditi Nandi, Riyaz Ali M. Osmani, Nadim Ahamad, and Rinti Banerjee*. "Pectin-Based Vehicles for Delivery of Therapeutics." Royal Society of Chemistry, October 14, 2022.
8. PJ Ogre, **Keshari R.**, Sukhwinder S., D.P Pathak, and Sahoo P.K. "The Pharmaceutical and Chemical Journal, 2019, 6(3):21-30." Organic Farming: A Healthy Farming System.
9. **R., Keshari**, Harvinder P., and M. Gupta*. "An Overview on Thin Layer Chromatography." Pharma Times, 2018. https://www.researchgate.net/publication/267424390_An_overview_on_thin_layer_chromatography.
10. **Roshan Keshari**, Ajay Jaiswal. "Revolutionary Medical Treatment: Personalized Medicine". The Lambert Publication Germany [2018]. ISBN: 978-613-9-81701-6.
11. **Keshari R**, J Ayush. "Role of Regulatory Affairs in Pharmaceutical Company. Global Journal of Research Analysis"**,** 2018; 7(1), ISSN no, 2277.
12. **Keshari R**, Rathore KS, H. Rathod. "A Recent Overview on Novel Ocular Drug Delivery System". Pharma Review**,** March-April 2017.
13. **Keshari R,** Rathore KS, Bharkatiya M, Mishra A. "Microencapsulation drug delivery system-an overview". PharmaTutor. 2016 Dec 1; 4(12):20-8.
14. Rathore KS, **Keshari R**, Bharkatiya M, Goel PK, Naruka PS, Saurabh SS. "Therapeutic potential of Triticum aestivum Linn.(Wheat Grass or Green Blood Therapy) in the treatment and prevention of Chronic and Acute Diseases: An Overview". PharmaTutor. 2016 Feb 1; 4(2):19-27.
15. **Roshan K**, Bharkatiya M, Rathore KS, Kumar SS, Sirvi G, Somani N. "Fast dissolving tablet drug delivery system-an overview". International Journal of Pharmacy (Hyderabad, India). 2015; 5(2):577-89.
16. Shyama SK, Rathore KS, **Keshari R**. "Resealed Erythrocytes: Potential Carrier for Delivery of Drugs". International Journal of Pharmaceutical Erudition. 2015; 4:4.
17. **Keshari R**, Shrivastava S, Rathore KS. "An Insight on Raynaud's Disease: Causes, Symptoms, Diagnosis, Treatment and Prevention". PharmaTutor. 2014 Oct 1; 2(10):58-67.
18. Rathore KS, **Keshari R**, Rathore A, Chauhan D. "A Review on Ebola Virus Disease". PharmaTutor. 2014 Oct 1; 2(10):17-22.

PATENTS

Sr. No.	Patent Application No.	Title	Filed on
1.	202021016678	Composition and method for sanitization and disinfection	Apr 17' 2020
2.	202021019129	Nutraceutical composition and method of production thereof	May 05' 2020
3.	202021037221	Self- disinfecting hydrophobic coating, method of preparation and uses thereof	Aug 28' 2020
4.	202221068008	Eugenol-based composition for prevention, treatment and management of psoriasis, process of synthesis and applications thereof	Nov 25' 2022

WORKSHOPS

- Organized by Delhi Pharmaceutical Sciences and Research University on Prescribing Generic Vs. Branded Drugs: Impact on Healthcare. **[Nov 2017]**
- Organized by Delhi Pharmaceutical Sciences and Research University Incubator and Innovation Foundation (DIIF) on the topic of Patients Awareness for startups. **[Nov 2017]**

CONFERENCES

- **Emerging Dimension in Hospital Healthcare System** conducted by Delhi Pharmaceutical Sciences and Research University and presented Poster entitled ''Brand Building in Healthcare System'' and awarded by Second Position. **[April 2019]**
- **Conference on 6th World Congress on Nano Medical Sciences** Conducted by Jamia Hamdard and University of Delhi and Presented a poster entitled '' Role of Cow Milk in Treatment of HIV''. **[Jan 2019]**

- **Conference on Theme of Pharma Vision 2030: Indian Pharma Industry –A global Leader** Conducted by Indian Pharmaceutical Congress Association and Presented a poster entitled '' Design of paediatric and Geriatric antidiabetic formulation using sprouted Fenugreek seeds. **[Dec 2018]**
- **National Conference on Pharmacovigilance Pharmacogenomics and Outcomes Research** conducted by Delhi Pharmaceutical Sciences and Research and presented a poster entitled ''Role of Pharmacogenomics in Drug Discovery and Development''. **[Oct 2018]**
- **Conference on International Conference on Challenge for Global Competitiveness Ayush and Natural Product** conducted by IASTAM and presented a poster entitled ''Therapeutic Potential of Triticum Aestivum Linn. (Wheatgrass or green blood therapy) in the Treatment and Prevention of Chronic and Acute Disease''. **[Feb 2018]**
- **Conference on Recent Advance in Pharmaceutical Education and Research** conducted by All India Council of Technical Education (AICTE) and awarded for presenting a scientific paper (Poster) on the topic ''Application of Nanotechnology in Pharmaceutical Sciences''**.** **[March 2014]**
- **Conference on Impact of Pharmaceuticals Biotechnology on the Future of Medicine** conducted by Department of Biotechnology Indian Council of Medical Research and presented a poster entitled ''Provenance on the New Drug Discovery and Development Process''**.** **[March 2017]**
- **Conference on Recent Advancement in Drug Discovery and Development** organized by Department of Science and Technology Government of Rajasthan and presented a poster entitled ''Recent Advances in Vaginal Drug Delivery System''. **[Feb 2017]**
- **Conference on Current Status of Regulatory Affairs for Pharmaceuticals** organized by Indian pharmacy graduates' associations and presented Poster entitled ''Role of Regulatory Affairs in Pharmaceuticals Company and Public Health''. **[Sept 2016]**
- **Conference on Contemporary Technologies in Drug Delivery and Envisaged Future trends** conducted by Indian Council of Medical Research Department of Biotechnology and presented Poster Entitled ''Resealed Erythrocyte: Novel Cell in Drug Delivery System''. **[Aug 2016]**
- **Conference on Alternatives to Animal Experimentation: Current Status and Challenge** Conducted by Indian Council of Medical Research and presented Poster entitled ''Therapeutic potential of Triticum Aestivum Linn. (Wheatgrass or green blood therapy) in the Treatment of Chronic and Acute Disease'' **[Jan 2016]**
- **Conference on Theme Training for Pharmacy Teachers: Future Perspectives Conducted** by Rajapticon and presented Poster on the topic ''Resealed Erythrocytes; Golden Cell in Novel Drug Delivery System''. **[March 2016]**
- **Seminar on National Conference on Medicinal Chemistry in Perspective Drug Discovery and Therapy** organized by Association of Pharmacy Profession and Professional Rajasthan state branch and awarded in a scientific poster presentation on the topic ''Carbon Nanotubes: Promising weapon in Healthcare System''. **[Dec 2015]**
- **Conference on Strategic Approaches to Strengthen Academic and Industrial collaboration** conducted by the association of pharmaceutical Teachers of India (APTI) presented a Poster entitled ''an Insight of Raynaud's Diseases Causes, Symptoms, Diagnosis, Treatment and Prevention''. **[Oct 2015]**
- **Conference on Emerging Trends in Pharmaceutical Education, Research and Regulatory Affairs** conducted by Rajapticon presented a scientific poster entitled ''Carbon Nanotube-Novel Drug Delivery'' System. **[Feb 2015]**

POSITION OF RESPONSIBILITY

Hostel sports Secretary | Hostel 12 Council, IIT Bombay **[2021-22]**

- Part of a 2-membered team in the Hostel 12 Council responsible for organizing all sports activities.
- We ensure maximum participation of hostels' students in Inter Hostel Sports General Championships.
- Part of 20-membered Hostel council team responsible for organizing cultural events at Hostel and Institute levels

Department General Secretary, Biosciences and Bioengineering Department, IIT Bombay **[2020-21]**

- Part of a team of Department staff-student committee.
- Organized events like freshers, farewell, departmental seminars and workshops.
- Mentoring students by providing continuous help and support both on Academic and Non- academic fronts.

Teaching Assistant | Microbiology Laboratory course| BSBE, IIT Bombay **[2020-21]**

- Mentored and guided 25 M.Sc. 1st-year students to ensure better and enhanced preparation levels which benefitted them in devising technical projects.

Teaching Assistant | Advanced Biomaterials and Regeneration | BSBE, IIT Bombay **[2020-21]**

- Mentored and guided 50 students to ensure a better understanding of Biomaterials in drug delivery and nanomedicines.

REFERENCE

1. Prof. Rohit Srivastava, Nanobios lab, Department of Bioscience and Bioengineering, Indian Institute of Technology, Bombay.

   Mailing address - rsrivasta@iitb.ac.in

2. Prof. Kamal Singh Rathore (Head of Department Pharmaceutics); Bhupal Nobel's Institute of Pharmaceutical Sciences.
   Mailing Address - kamalsrathore2013@gmail.com, kamalsrathore@gmail.com .
   Phone No. - +919828325713

3. Prof. Harvinder Popli, Dean Delhi Pharmaceutical Sciences and Research University (Govt. Of NCT Delhi)
   Mailing address- popli.harvinder@gmail.com
   Phone No. +919899700704

DECLARATION

I, at this moment, declare that the above information given by me is accurate to the best of my knowledge.

Roshan keshari