

# CURRICULUM VITAE

## Dr. Gagandeep

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### EDUCATION

| COURSE   | INSTITUTE  | YEAR      |
|--|--|-----------|
| <b>Doctor of Philosophy (Ph.D.)<br/>in Chemistry</b>   | Topic: Structural optimization of heterocyclic compounds for their therapeutic applications; Mentor: Prof. D. S. Rawat, Department of Chemistry, University of Delhi, India. | 2022      |
| <b>CSIR-NET/JRF</b>  | CSIR   | Dec. 2016 |
| <b>Master of Science (M.Sc.),<br/>Organic Chemistry<br/>specialization<br/>(with <b>81.76%</b> marks)<br/>(<b>Gold Medalist</b>)</b> | University of Delhi  | 2015-2017 |
| <b>Bachelor of Science (B.Sc.)<br/>Hons., Chemistry<br/>(with <b>87.16%</b> marks)<br/>(<b>College Topper</b>)</b>                   | University of Delhi  | 2012-2015 |
| <b>12<sup>th</sup> (with <b>83%</b> marks)</b>   | CBSE   | 2010-2012 |
| <b>10<sup>th</sup> (with <b>93%</b> marks)</b>   | HBSE   | 2010      |

### CAREER PROFILE

|    |  |
|----|--|
| 1. | Guest Lecturer in Acharya Narendra Dev College, University of Delhi (07.03.2022 to 26.4.2022). |
| 2. | Assistant Professor, Hansraj College, University of Delhi (22.11.2022 to till date)            |

## RESEARCH INTERESTS

### Medicinal chemistry

Structural optimization of heterocyclic compounds for their therapeutic applications

## HONOURS & AWARDS

1. Council of Scientific and Industrial Research (CSIR) Fellowships, New Delhi, India. Period: Aug.,2017- Feb., 2022.
2. “**Prof. K.B.L. Mathur Gold Medal**” awarded by University of Delhi for being the best candidate who passed M.Sc. with Organic Chemistry specialization.
3. “**Padmabhushan Prof. Tiruvenkata Rajendra Seshadri (FRS) Commemoration Gold Medal**” awarded by University of Delhi for being the best candidate who passed M.Sc. with Organic Chemistry specialization.
4. “**Prof. G.B.V. Subramanian Memorial Gold Medal**” awarded by University of Delhi for being the best candidate who passed M.Sc. with Organic Chemistry specialization.
5. “**Jean and Ashit Ganguly Education Scholarship**” awarded by Department of Chemistry, University of Delhi.
6. “**Prof. A.N. Maitra Memorial Award**” awarded by “Prof. A.N. Maitra Memorial Educational Trust” for securing the First position in 2<sup>nd</sup> semester M.Sc. (Chemistry).
7. “**Prof. A.N. Maitra Memorial Award**” awarded by “Prof. A.N. Maitra Memorial Educational Trust” for securing the First position in 1<sup>st</sup> semester M.Sc. (Chemistry).
8. Honored by Rajdhani College, University of Delhi for securing the **First position** in 3<sup>rd</sup> year B.Sc. (Hons.) Chemistry 2014-2015.
9. Honored by Rajdhani College, University of Delhi for securing the **First position** in 2<sup>nd</sup> year B.Sc. (Hons.) Chemistry 2013-2014.
10. Honored by Rajdhani College, University of Delhi for securing the **First position** in 1<sup>st</sup> year B.Sc. (Hons.) Chemistry 2012-2013.

## RESEARCH PAPERS

1. **Gagandeep**, Rohit Kholiya, Saqib Kidwai, Padam Singh, Ramandeep Singh, Diwan S. Rawat. Design and synthesis of benzimidazole derivatives as anti-mycobacterial agents. *J. Biochem. Mol. Toxicol.* **2022**, e23123.
2. **Gagandeep**, Manisha Singh, Saqib Kidawi, Ujjalkumar S. Das, Thirumurthy Velpandian, Ramandeep Singh, Diwan S. Rawat. Monocarbonyl curcuminoids as antituberculosis agents with their moderate *in-vitro* metabolic stability on human liver microsomes. *J. Biochem. Mol. Toxicol.*, **2021**, 35, 1-10.

3. **Gagandeep**, Prince Kumar, Shamseer Kulangara Kandi, Kasturi Mukhopadhyay, Diwan S. Rawat. Synthesis of novel monocarbonyl curcuminoids, evaluation of their efficacy against MRSA, including *ex vivo* infection model and their mechanistic studies. *Eur. J. Med. Chem.*, **2020**, *195*, 112276.
4. Garima Arora<sup>†</sup>, **Gagandeep**<sup>†</sup>, Assirbad Behura, Tannu Priya Gosain, Ravi P. Shaliwal, Saqib Kidwai, Padam Singh, Shamseer Kulangara Kandi, Rohan Dhiman, Diwan S. Rawat and Ramandeep Singh. NSC 18725, a pyrazole derivative inhibits growth of intracellular *Mycobacterium tuberculosis* by induction of autophagy. *Front. Microbiol.*, **2020**, *10*, 3051. († These authors have contributed equally to this work)
5. Vandana Kumari., Kona Madhavinadha Prasad, Inderjeet Kalia, **Gagandeep**, Rajnikant Dixit, Diwan S. Rawat, O. P. Singh, Agam P. Singh, and Kailash C. Pandey. Dissecting The role of Plasmodium metacaspase-2 in malaria gametogenesis and sporogony. *Emerging microbes & infections* **2022**, *11*, 938-955.

#### CONFERENCES

1. **Gagandeep**, Garima Arora, Assirbad Behura, Tannu Priya Gosain, Ravi P Shaliwal, Saqib Kidwai, Padam Singh, Shamseer Kulangara Kandi, Rohan Dhiman, Ramandeep Singh and Diwan S Rawat, Identification of NSC 18725, a pyrazole derivative *via* phenotypic screening as the intracellular *Mycobacterium tuberculosis* inhibitor by induction of autophagy, **107<sup>th</sup> Indian Science Congress Conference-2020**, University of Agricultural Sciences, GKVK Campus, Bangalore, Karnataka, India, January 3-7<sup>th</sup>, 2020 (**Poster**).
2. **Gagandeep**, Shamseer Kulangara Kandi, Prince Kumar, Kasturi Mukhopadhyay, Diwan S. Rawat, C-5 Curcuminoids: Synthesis and antibacterial activity against *Staphylococcus aureus* and their mechanistic studies, **ISCBC-2019**; Hotel Golden Tulip, Lucknow, January 12-14<sup>th</sup>, 2019 (**Poster**).
3. **Gagandeep**, Shamseer Kulangara Kandi, Prince Kumar, Kasturi Mukhopadhyay, Diwan S. Rawat, Lead optimization of antibacterial C-5 curcuminoids against *Staphylococcus aureus* and their mechanistic investigations, **HETCAT-2018**, Department of Chemistry, The Maharaja Sayajirao University of Baroda (MSU), Vadodara, Gujarat, December 8- 9<sup>th</sup>, 2018 (**Poster**).
4. **Gagandeep**, Shamseer Kulangara Kandi, Shabana I Khan and Diwan S Rawat, Lead optimization of 4-aminoquinoline based molecular hybrids as potent antimalarial agents, **ISCBC-2018**, Manipal University, Jaipur, Rajasthan, January 11-13<sup>th</sup>, 2018 (**Poster**).

I, hereby declare that the particulars given are true to the best of my knowledge and belief.

Place: Delhi  
Date: 02/04/2023

*Gagandeep*  
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