

**Sushil K. Maurya, Ph. D**  
Associate Professor,  
Department of Chemistry,  
Faculty of Science, University of Lucknow  
(Accredited A++ by NAAC)  
Lucknow-226007 (UP) INDIA

## Research Interest

Medicinal Chemistry, Chemical Biology, Synthetic Organic Chemistry, Natural Product Synthesis, Diversity-Oriented Synthesis, Catalysis Chemistry, Click-Chemistry.

## Awards and Fellowships

- **Early Career Research Award**, SERB-DST, Govt. of India (Ref: ECR/2016/000134); **Project: “Adjuvants Based on Hybrid Antibiotics to Combat Resistance: Design, Synthesis, and Versatile Therapeutic Evaluation of Novel Fluoroquinolone-Aminoglycoside Conjugates (FACs)”**. June 2016- June 2019, INR. **35.42 Lakhs**.
- **Marie Curie International Incoming Fellowship**, one of the most prestigious and highly competitive fellowships awarded by **the European Commission** (Ref: PIIF-GA-2008-220512; **Project: “MULTISCAFFOLD: A new strategy for the diversity-oriented synthesis of skeletally diverse alkaloid-like compounds for chemical genetic studies”**).
- **Junior and Senior Research Fellowship**: Qualified in CSIR-UGC joint exam for National eligibility for research and lectureship (Conducted by Council of Scientific and Industrial Research (CSIR) and University Grant Commission (UGC), New Delhi, India).

## Professional Achievements

- October 2022-Present, **Associate Professor**, Department of Chemistry, Faculty of Science, University of Lucknow, Lucknow, India.
- Feb. 2019-October 2022, **Principal Scientist**, Medicinal Chemistry, CSIR-IHBT, India and **Associate Professor**, AcSIR, CSIR-IHBT, India.
- Feb. 2015-Present, **Senior Scientist**, Medicinal Chemistry, CSIR-IHBT, India and **Assistant Professor**, AcSIR, CSIR-IHBT, India.
- April 2013- Feb. 2015, **Group Leader**, New Drug Discovery Division, Wockhardt Ltd., India.
- March 2011- March 2013, **Senior Research Scientist**, New Drug Discovery Division, Wockhardt Ltd., India.
- Nov. 2008 – Nov. 2010, **Marie Curie Fellow**, University of Leeds, Leeds, UK.
- Oct. 2007- Sep. 2008, **Post-Doctoral Fellow**, Brandeis University and Harvard Medical School, USA.
- May 2003- Jan. 2004, **Visiting Scientist**, Humboldt University, Berlin, Germany.
- Aug. 2001- Aug. 2002, **Junior Research Fellow**, CIMAP, Lucknow, India.

## Details of Projects: (Completed/Ongoing)

- “Adjuvants Based on Hybrid Antibiotics to Combat Resistance: Design, Synthesis, and Versatile Therapeutic Evaluation of Novel Fluoroquinolone-Aminoglycoside Conjugates (FACs)” Rs. 35.42 Lakhs, 36 Months (June 2016-Dec 2019), PI, SERB, Govt. of India.
- CSIR INPROTICS-Pharma and Agro, Rs. 50.00 Lakhs, 26 Months (Feb 2018- March 2020), PI, CSIR, Govt. of India.
- CSIR-Aroma Mission, Rs. 1555.00 Lakhs, 32 Months, (July 2017-March 2020), Co-PI (PI-value addition), CSIR, Govt. of India.
- CSIR-Crop Protection Chemicals, Rs. 95.00 Lakhs, (Jan 2018-March 2020), PI, CSIR, Govt. of India.
- Diversity Oriented Synthesis: Exploring the chemical tools for scrutinizing biology (SERB-NPDF awarded to Dr. Simmi Sharma) Rs. 19.20 Lakhs, 24 Months (April 2017-March 2019), PI (Mentor), SERB, Govt. of India.
- CSIR-Aroma Mission Phase-II, Rs. 1555.00 Lakhs, 28 Months, (Dec. 2020-March 2023), Co-PI (PI-value addition), CSIR, Govt. of India.
- Small Molecules for Leishmaniasis, Rs. 2.808 Lakhs, 12 Months (Feb 2023-Dec 2023), PI, (Drug for Neglected Diseases Initiative India Foundation (DNDi INDIA)).
- CSIR-Integrated Skill Development Program, Rs. 80 Lakhs, 24 Months (April 2017-March 2019), Co-PI, CSIR Govt. of India.
- Skill Vigyaan Program (Lab Technician/Assistant), Course-Coordinator, 24 Months (April 2021-March 2023) DBT-HIMCOSTE, Govt. of Himachal Pradesh.

## Education

**Ph. D** *In* Chemistry, CSIR-National Chemical Laboratory (CSIR-NCL), Pune, India.

**M. Sc.** *In* Chemistry, University of Lucknow, Lucknow, India.

**B. Sc.** *In* Chemistry, Botany and Zoology, University of Lucknow, Lucknow, India.

## Publications

- ❖ Mahender Kumar, Kajal Kaliya and **Sushil K. Maurya\*** (2023) “Recent progress in the homogeneous gold-catalysed Cycloisomerisation reactions” *Org. Biomol. Chem.*, Advance Article doi.org/10.1039/D2OB02015G.
- ❖ Arti Sharma, Prince Anand, Yogendra S. Padwad\* and **Sushil K. Maurya\*** (2022) “Novel 3-Metheneisoindolinones Diversified via Intramolecular Heck Cyclization Induces Oxidative Stress, Decreases Mitochondrial Membrane Potential, Disrupt Cell Cycle, and Induces Apoptosis in Head and Neck Squamous Cell Carcinoma Cells” *ACS Omega* doi.org/10.1021/acsomega.2c05378.
- ❖ Rahul Kumar and **Sushil K. Maurya\*** (2022) “Synthesis of  $\gamma$ -Butyrolactone Derivatives from Dihydrotagetone and Evaluation of Their Antidiabetic Activity” *ChemistrySelect* doi.org/10.1002/slct.202203064.

- ❖ Aakriti Sood, Rahul Upadhyay and **Sushil K. Maurya\*** (2022) “Sustainable synthesis of carboxylic acids via oxidative scission of olefins over heterogeneous WO<sub>3</sub>-Na<sub>2</sub>SnO<sub>3</sub> catalyst” *Industrial Crops & Products* 186,115139.
- ❖ Amita Kumari, Dinesh Kumar, Ashu Gulati and **Sushil K. Maurya\*** (2021) “Studies on antioxidant capacity of polyphenol rich fractions of Kangra tea by HPTLC & NMR” *Journal of Food Science and Technology* doi.org/10.1007/s13197-021-05297-w.
- ❖ Simmi Sharma, Kajal Kaliya, Nandita Chauhan, Shudh Kirti Dolma, S.G. Eswara Reddy and **Sushil K. Maurya\*** (2021) “Synthesis and screening of Kojic acid derivatives for their bio-efficacy against diamondback moth (*Plutella xylostella* L.)” *Toxin Reviews* doi.org/10.1080/15569543.2021.1996394.
- ❖ Rohit Rana, Shreya, Rahul Upadhyay and **Sushil K. Maurya\*** (2021) “Synthesis of Macrocyclic Lactones and Dilactones Using Olive Oil”. *ACS Omega* 6, 25381-25388.
- ❖ Rahul Upadhyay, Deepak Singh, and **Sushil K. Maurya\*** (2021) “Highly efficient heterogeneous V<sub>2</sub>O<sub>5</sub>@TiO<sub>2</sub> catalyzed the rapid transformation of boronic acids to phenols” *Eur. J. Org. Chem.* 3925–3931. (Highlighted in *Synfacts* 2021, 17(12), 1376, 17.11.2021)
- ❖ Rahul Upadhyay, Shashi Kumar, and **Sushil K. Maurya\*** (2021) “V<sub>2</sub>O<sub>5</sub>@TiO<sub>2</sub> catalyzed green and selective oxidation of alcohols, alkylbenzenes and styrenes to carbonyls” *ChemCatChem* 13(16) 3594–3600.
- ❖ Rahul Upadhyay, Rohit Rana, Aakriti Sood, Vikash Singh, Rahul Kumar, Vimal Chandra Srivastava and **Sushil K. Maurya\*** (2021) “Heterogeneous vanadium-catalyzed oxidative cleavage of olefins for sustainable synthesis of carboxylic acids”. *Chem. Commun.*, 57, 5430-5433. “Featured in *Org. Chem. Highlights: Oxidation*” 21 March 2022 (<https://www.organic-chemistry.org/Highlights/2022/21March.shtm>)
- ❖ Rahul Upadhyay, Rohit Rana and **Sushil K. Maurya\*** (2021) “Organocatalyzed C-N bond forming reactions for the synthesis of amine and amide”. *ChemCatChem* 13(8) 1867-1897. <https://doi.org/10.1002/cctc.202001734>.
- ❖ Rahul Kumar, Sahil Mishra, Shreya and **Sushil K. Maurya\*** (2021) “Recent advances in the discovery of potent RNA-dependent RNA-polymerase (RdRp) inhibitors targeting viruses”. *RSC Medicinal Chemistry* 12, 306-320. <https://doi.org/10.1039/D0MD00318B>.
- ❖ Arti Sharma, Kajal Kaliya and **Sushil K. Maurya\*** (2021) “Recent advances in discovery of potent proteases inhibitors targeting the SARS coronavirus”. *Current Topics in Medicinal Chemistry* 21(4) 307-328. <https://DOI:10.2174/156802662099920111160035>.
- ❖ Rahul Upadhyay, Rahul Kumar, Manoj Jangra, Rohit Rana, Onkar Nayal, Hemraj Nandanwar and **Sushil K. Maurya\*** (2020) “Synthesis of bioactive complex small molecules ciprofloxacin conjugates and evaluation of their antibacterial activity”. *ACS Combinatorial Science* 22 (9) 440-445.
- ❖ Rohit Rana, Shudh Kirti Dolma, **Sushil K. Maurya\*** & S. G. Eswara Reddy\* (2020) “Insecticidal activity and structure–activity relationship of sugar embedded macrocycles for the control of aphid (*Aphis craccivora* Koch)”. *Toxin Reviews* 39(2), 197-203.
- ❖ Rahul Upadhyay, Rohit Rana, Aakriti Sood and **Sushil K. Maurya\*** (2019) “Formic acid driven rapid and green anti-Markovnikov hydrothiolation of styrenes” *ACS Omega* 2019, 4, 12, 15101-15106.
- ❖ Manoj Jangra, Manpreet Kaur, Rushikesh Tambat, Rohit Rana, **Sushil K. Maurya**, Neeraj Khatri, Abdul Gafur and Hemraj Nandanwar\* (2019) “Tridecaptin M, a new variant discovered in mud bacterium shows

- activity against colistin- and extremely drug-resistant Enterobacteriaceae” *Antimicrobial Agents and Chemotherapy*, 63 (6) e00338-19. DOI: 10.1128/AAC.00338-19.
- ❖ Simmi Sharma, Onkar S. Nayal, Arti Sharma, Rohit Rana and **Sushil K. Maurya\*** (2019) “Tin(II) triflate catalysed synthesis of 3-Methyleneisoindolin-1-ones” *ChemistrySelect* 4, 1985-1988.
  - ❖ Onkar S. Nayal, Maheshwar S. Thakur, Rohit Rana, Rahul Upadhyay, and **Sushil K. Maurya\*** (2019) “Lewis’s acid catalyzed direct nucleophilic substitution reaction of alcohols for the functionalization of aromatic amines” *ChemistrySelect*, 4, 1371-1374.
  - ❖ Maheshwar S. Thakur, Onkar S. Nayal, Rohit Rana, Arti Sharma, Neeraj Kumar and **Sushil K. Maurya\*** (2018) “An Efficient Metal-Free Mono N-Alkylation of Anilines via Reductive Amination using Hydrosilanes” *Eur. J. Org. Chem.*, 6729-6732.
  - ❖ Maheshwar S. Thakur, Onkar S. Nayal, Rahul Upadhyay, Neeraj Kumar and **Sushil K. Maurya\*** (2018) “2-Aminoquinazolin-4(3H)-one as an organocatalyst for the synthesis of tertiary amines” *Org. Lett.* 20, 1359-1362.
  - ❖ Onkar S. Nayal, Maheshwar S. Thakur, Manoranjan Kumar, Shaifali, Rahul Upadhyay and **Sushil K. Maurya\*** (2018) “Sustainable and efficient CuI-NPs-Catalyzed cross-coupling approach for the synthesis of tertiary-3-aminopropenoates, triazoles and ciprofloxacin” *Asian J. Org. Chem.* 7, 776-780.
  - ❖ Maheshwar S. Thakur, Onkar S. Nayal, Rohit Rana, Manoranjan Kumar, Sushila Sharma, Neeraj Kumar and **Sushil K. Maurya\*** (2018) “Unravelling 2-aminoquinazolin-4(3H)-one as an organocatalyst for the chemoselective reduction of nitroarenes” *New Journal of Chemistry* 42 ,1373 - 1378.
  - ❖ “Ligand-free iron(II)-catalyzed N-alkylation of hindered secondary arylamines with non-activated secondary and primary alcohols *via* a carbocationic pathway” O. S. Nayal, M. S. Thakur, M. Kumar, N. Kumar, **Sushil K. Maurya\***, *Adv. Synth. Catal.* 360 (2018),730-737.
  - ❖ **Sushil K. Maurya\***, Rohit Rana (2017) “An eco-compatible strategy for the diversity-oriented synthesis of macrocycles exploiting carbohydrate-derived building blocks”. *Beilstein J. Org. Chem.* 13, 1106-1118.
  - ❖ **Sushil K. Maurya\*** (2017) “Synthetic Studies Towards the Crassifoside F: Synthesis of Oxygen-Rich Bicyclic Core” *Asian J. Org. Chem.* 6(2) 224-234.
  - ❖ **Sushil K. Maurya**, Mark Dow, Stuart Warriner and Adam Nelson\* (2013), “Synthesis of skeletally- diverse alkaloid-like molecules: Exploitation of metathesis substrates assembled from triplets of building blocks” *Beilstein J. Org. Chem.* 9, 775–785.
  - ❖ Sarah Murrison, **Sushil K. Maurya**, Christian Einzinger, Ben McKeever-Abbas, Stuart Warriner and Adam Nelson\* (2011) "Synthesis of Skeletally-Diverse Alkaloid-like Small Molecules ", *Eur. J. Org. Chem.* 2354–2359.
  - ❖ Lisa Sharling, Xiaoping Liu, Deviprasad R. Gollapalli, **Sushil K. Maurya**, Lizbeth Hedstrom and Boris Striepen\*, (2010) "A screening pipeline for antiparasitic agents targeting *Cryptosporidium* inosine monophosphate dehydrogenase" *PLoS Neglected Tropical Diseases* 4 (8), e794.
  - ❖ **Sushil K. Maurya**, Deviprasad R. Gollapalli, Shivapriya Kirubakaran, Minjia Zhang, Corey R. Johnson, Nicole K. Benjamin, Lizbeth Hedstrom and Gregory D. Cuny,\* (2009) "Triazole Inhibitors of *Cryptosporidium parvum* Inosine 5'-Monophosphate Dehydrogenase" *J. Med. Chem.* 52 (2009) 4623- 4630.
  - ❖ **Sushil K. Maurya** and Srinivas Hotha\*, (2006) "Synthesis of spiroannulated dihydroisobenzofuranylated

monosaccharides" *Tetrahedron Lett.* 47, 3307-3310.

- ❖ Srinivas Hotha\*, **Sushil K. Maurya** and Mukund K. Gurjar, (2005) "Stereoselective synthesis of spiroannulated cyclopentenones by the Pauson–Khand reaction on carbohydrate derived enynes" *Tetrahedron Lett.* 46, 5329-5332.
- ❖ **Sushil K. Maurya**, Pratap Patil, Shubhangi B. Umbarkar, Mukund K. Gurjar, Mohan Dongare\*, Stephan Rudiger, Erhard Kemnitz, (2005) "Vapor phase oxidation of 4-fluorotoluene over vanadia–titania catalyst" *J. Mol. Catal. A: Chemical* 234, 51–57.
- ❖ **Sushil K. Maurya**, M. K. Gurjar, K. M. Malshe, P. T. Patil, M. K. Dongare\* and Erhard Kemnitz, (2003) "Solid acid catalysts for fluorotoluene nitration using nitric acid" *Green Chemistry*, 5, 720–723.

#### Patents: (Granted/Filed)

- ❖ "1,6- DIAZABICYCLO [3,2,1] OCTAN- 7- ONE DERIVATIVES AND THEIR USE IN THE TREATMENT OF BACTERIAL INFECTIONS" Kale, Amol; Dond, Bharat; Dekhane, Deepak; Loganathan, V; Patel, Mahesh Vithalbhair; Pawar, Mangesh; Shaikh, Mohammad; Patel, Piyush; Dixit, Prasad; Tadiparthi, Ravikumar; Bhagwat, Sachin; Birajdar, Satish; **Maurya, Sushil Kumar**; Patil, Vijaykumar Jagdishwar; **EP 2961751 B1**.
- ❖ "Compounds and methods for Treating Mammalian Gastrointestinal Microbial Infections" Hedstrom, Lizbeth, K.; Cuny, Gregory, D.; Gollapalli, Deviprasad, R.; Kirubakaran, Sivapriya; **Maurya, Sushil K.**; Striepen, Boris; Gorla, Suresh K.; Johnson, Corey R.; Kavitha, Mandapati; Khan, Jihan; **US 10,125,116 B1**.
- ❖ "1,6- diazabicyclo [3,2,1] octan- 7- one derivatives and their use in the treatment of bacterial infections" Kale, Amol; Dond, Bharat; Dekhane, Deepak; Loganathan, V; Patel, Mahesh Vithalbhair; Pawar, Mangesh; Shaikh, Mohammad; Patel, Piyush; Dixit, Prasad; Tadiparthi, Ravikumar; Bhagwat, Sachin; Birajdar, Satish; **Maurya, Sushil Kumar**; Patil, Vijaykumar Jagdishwar; **US 9732081 B2**.
- ❖ "N-(ALKANOYL)-7-OXO-6-SULFOOXY-1,6-DIAZABICYCLO[3.2.1]OCTANE-2-CARBONYL HYDRAZIDE DERIVATIVE AND THEIR USE AS ANTIBACTERIAL AGENTS. Patil, V. J.; **Maurya, Sushil K.**, Patel, P. A.; Bhuniya, R.; Zaki Ahmad, B. M.; Patel, M. V. **WO002017216764**.
- ❖ "Difluoro-(2-Substituted Carbamoyl-1,6-Diaza-Bicyclo [3.2.1] Oct-6-Yloxy) Acetic Acid Compounds and Their Use in Treatment of Bacterial Infections" Vijay J Patil, **Sushil Kumar Maurya**, Bharat Dond, V. Loganathan, Deepak Dekhane, Dixit, Prasad; Joshi, Prashant; Takalkar, Swapna; Mahesh Patel; **WO 002017060826**.
- ❖ "Azetidione containing compounds and their use in treatment of bacterial infections" Patil, Vijaykumar Jagdishwar; **Maurya, Sushil Kumar**; Patel, Mahesh Vithalbhair; **WO002016128867**.
- ❖ "Nitrogen containing bicyclic compounds and their use in treatment of bacterial infections" Patil, V. J.; **Maurya, Sushil K.**, Patel, P. A.; Bhuniya, R.; Zaki Ahmad, B. M.; Patel, M. V. **IN/2016/21020850** Submitted 17/06/2016.
- ❖ "Insecticidal Properties of Sapium sebiferum for the Control of Insect Pests" S G Eswara Reddy, S. K. Dolma and Sushil K. Maurya *Submitted to CSIR-IHBT Patent Unit* 26<sup>th</sup> March 2019.
- ❖ "A process for the preparation of carboxylic acids from Olefins" **Sushil K Maurya**, Rahul Upadhyay, Aakriti Sood, Rohit Rana, Rahul Kumar **Ref. 202011048467**.

- ❖ “Process for the preparation of pharmaceutically active compounds or intermediates thereof via selective nitro reduction reactions over vanadium oxide catalyst” **Sushil K. Maurya**, Rahul Upadhyay, Shashi Kumar Ref. 202111045079.

## Invited talks, presentations and conference papers

- Rohit Rana, **Sushil K. Maurya\***, Contemporary Facets in Organic Synthesis 2017 (CFOS-2017) IIT Roorkee, 22<sup>nd</sup>-24<sup>th</sup> Dec 2017 (Poster).
- Rahul Upadhyay, Onkar S. Nayal, **Sushil K. Maurya\***, Contemporary Facets in Organic Synthesis 2017 (CFOS-2017) IIT Roorkee, 22<sup>nd</sup>-24<sup>th</sup> Dec 2017 (Poster).
- Rohit Rana, Rahul Upadhyay, **Sushil K. Maurya\***, Current Trends in Drug Discovery Research 2019 CSIR-CDRI, 20- 23<sup>rd</sup> Feb 2019 (Poster).
- MS Thakur, O S Nayal, Rahul Upadhyay, Neeraj Kumar, **Sushil K. Maurya\***, Current Trends in Drug Discovery Research 2019 CSIR-CDRI, 20- 23<sup>rd</sup> Feb 2019 (Poster).
- Arti Sharma, MS Thakur, **Sushil K. Maurya\***, Current Trends in Drug Discovery Research 2019 CSIR-CDRI, 20- 23<sup>rd</sup> Feb 2019 (Poster).
- **Sushil K. Maurya\***, 25<sup>th</sup> ISCB, International Conference (ISCBC-2019), Lucknow 12<sup>th</sup>-14<sup>th</sup> Jan. 2019 (Invited Talk).
- **Sushil K. Maurya\***, 26<sup>th</sup> ISCB International Conference 9ISCBC NIPiCON 2020), Ahmadabad, 22-24<sup>th</sup> Jan 2020 (Invited Talk).
- Aakriti Sood, Rahul Upadhyay, Rohit Rana, **Sushil K. Maurya\***, 26<sup>th</sup> ISCB International Conference 9ISCBC NIPiCON 2020), Ahmadabad, 22-24<sup>th</sup> Jan 2020 (Poster).
- Amita Kumari, **Sushil K. Maurya\***, Ashu Gulati\*, 26<sup>th</sup> ISCB International Conference 9ISCBC NIPiCON 2020), Ahmadabad, 22-24<sup>th</sup> Jan 2020 (Poster).
- **Sushil K. Maurya\***, International Conference on Smart Materials for Sustainable Technology (SMST-2020) 22-25<sup>th</sup> Feb 2020 (Invited Talk).
- Arti Sharma, **Sushil K. Maurya\***, International Conference on Smart Materials for Sustainable Technology (SMST-2020) 22-25<sup>th</sup> Feb 2020 (Poster).
- Rohit Rana, **Sushil K. Maurya\***, International Conference on Smart Materials for Sustainable Technology (SMST-2020) 22-25<sup>th</sup> Feb 2020 (Poster).
- Rahul Upadhyay, and **Sushil K. Maurya\***, Student seminar series 2021 organized by CSIR - IHBT, Palampur, 5<sup>th</sup> September 2021 (Poster).
- Shreya, Rohita Rana, Rahul Upadhyay, **Sushil K. Maurya\***, CRSI-NSC-28, IIT Guwahati, 25-27<sup>th</sup> March 2022 (Poster).
- Shashi Kumar, Rahul Kumar, **Sushil K. Maurya\***, CRSI-NSC-28, IIT Guwahati, 25-27<sup>th</sup> March 2022 (Poster).
- Rahul Kumar, Rahul Upadhyay, **Sushil K. Maurya\***, CRSI-NSC-28, IIT Guwahati, 25-27<sup>th</sup> March 2022 (Poster).

## Research Group Member

### Current Group Member:

**Rahul Kumar**, SRF, Ph. D Student (Ph. D. Thesis submitted on 29/03/2023)

### Past Group Member:

#### Post-Doc/RA

**Dr. Simmi Sharma**, National Post-Doctoral Fellow [Current: Post-Doctoral Fellow, Krembil Research Institute, University of Toronto, Canada]

**Dr. Maheswar S. Thakur**, Research Associate

**Dr. Avanish Kumar**, Research Associate

**Dr. Sahil Mishra**, Research Associate

#### Ph. D Awarded

**Dr. Onkar S. Nayal**, (Awarded Feb. 2018) [Current: University of Ottawa, Canada, Post-Doctoral Fellowship]

**Dr. Maheswar S. Thakur**, (Awarded Oct. 2018) [Current: Assistant Professor, St. Bide College, HPU, Shimla]

**Dr. Rohit Rana**, (Awarded Dec. 2021) [Current: Post-Doctoral Fellowship, Brandeis University, USA]

**Dr. Amita Sharma**, (Awarded March 2022) [Current: Post-Doctoral Fellowship, Emory University, USA]

**Dr. Rahul Upadhyay**, (Awarded July 2022) [Current: Post-Doctoral Fellow, Krembil Research Institute, University of Toronto, Canada]

#### Other Member

- (1) Arti Sharma, DST INSPIRE SRF, [Current: Ph. D Student at University of Freiburg, Germany]
- (2) Kajal Kaliya, SRF, Ph. D Student
- (3) Mahender Kumar, JRF, Ph. D Student
- (4) Aakriti Sood, Project Fellow
- (5) Shashi Kumar, Project Fellow
- (6) Yashpal, Project Fellow
- (7) Rahat Khan, Project Fellow
- (8) Shreya, Project Fellow
- (9) Deepak Dabur, Project Fellow
- (10) Deepak Singh, Project Fellow
- (11) Ashish Kumar, Project Fellow
- (12) Avantika Bhardwaj, Project Fellow

#### Trainees

- (1)Ms. Garima Govil, M. Sc. Trainee, Dr. B.R.A. NIT, Jalandhar. (May 2015-July 2015)
  - (2)Ms. Akansha Sharma, M. Sc. Trainee, Dr. B.R.A. NIT, Jalandhar. (May 2015-July 2015)
  - (3)Mr. Bhaskarjyoti Sarma, B. S. Trainee, Gauhati University, Guwahati. (Jan 2016-June 2016)
  - (4)Mr. Ujjwal Jyoti Goswami, B. S. Trainee, Gauhati University, Guwahati. (Jan 2016-June 2016)
  - (5)Ms. Diksha Dogra, M. Sc. Trainee, AMITY University, Gurgoan. (Jan 2017- June 2017)
  - (6)Ms. Ayushi Sharma, M. Tech. Trainee, P. U. Chandigarh. (Jan 2017- June 2017)
  - (7)Mr. Deepak Dabur, M. Sc. Trainee, Amity University, Gurgoan. (May 2017- July 2017)
  - (8)Mr. Devender Singh Aswal, M. Sc. Trainee, Amity University, Gurgoan. (May 2017- July 2017)
  - (9)Mr. Alankrit Dhiman, M. Sc. Trainee, Rayat Bahra University, Mohali. (May 2017- July 2017)
  - (10) Ms. Ruchika Verma, M. Sc. Trainee, Rayat Bahra University, Mohali. (May 2017- July 2017)
  - (11) Mr. Devender Singh Aswal, M. Sc. Trainee, Amity University, Gurgoan. (March 2018- April 2018)
  - (12) Ms. Anjana Ghosh, M. Sc. Trainee, Amity University, Gurgoan. (March 2018- April 2018)
  - (13) Ms. Komal, M. Sc. Trainee, Amity University, Gurgoan. (Feb 2018- April 2018)
  - (14) Mr. Harniz Kumar, M. Sc. Trainee, Chandigarh University, Mohali (PB). (May 2018- June 2018)
  - (15) Mr. Sangam Sharma, M.Sc. Trainee, Chandigarh University, Mohali (PB). (May 2019-June 2019)
  - (16) Ms. Sakshi Sharma, M.Sc. Trainee, DAV University, Jalandhar, Punjab (July 2021- Sep. 2021)
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