

SYED OVAIS

Assistant Professor Chemistry
Higher Education Department
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Educational Qualifications

- **Ph. D. Chemistry** from Department of Chemistry, Jamia Hamdard, New Delhi (2009-2014).
- **M. Sc. Chemistry** from Department of Chemistry, Jamia Hamdard, New Delhi, (2004-2006), (**Gold Medalist**).
- **LLB** from Chaudhary Charan Singh University, Meerut, (2014-2017).
- **Qualified Indian Patent Agent Examination (IN/PA/2563)**
- **General course on intellectual property** from WIPO academy (April 29 to July 28, 2013).

Academic and Professional Achievements

- Registered Indian Patent Agent (IN/PA/2563)
- Gold medalist in Post-Graduation.
- Academic excellence award.
- Hakeem Abdul Majeed Scholarship
- **Best poster presentation** in National Conference 2011 "*CHEMISTRY: EDUCATION AND RESEARCH FRONTIERS*".

Work Experience

(a) **Organization:** Higher Education Department

- **Designation:** Assistant Professor
- **College/ Duration:** S. P. College; 20-04-2017 to 11-05-2022
: GDC Surenkote; 14-05-2022 to till date

(b) **Organization:** K & S Partners.

- **Designation:** Patent Attorney
- **Duration:** 25-03-2014 to 15-04-2017
- **Key Responsibilities:**

SYED OVAIS

- Patent drafting in the areas of Chemistry, bio-chemistry, pharmaceuticals, bio-pharmaceuticals and medical diagnostics.
- Patent prosecution and litigation
- Attended Hearings before Controller of Patents, Government of India
- Patent searches, opinions on patent-ability, freedom to operate apart from managing patent portfolios of clients.

Expertise in Patents

- Drafted number of patents for various reputed National and International Institutions/ Universities like **CSIR Labs, NIPER Mohali, NIPER Hyderabad, Delhi University, Eli Lilly, Incyte Pharma, BASF SE** Etc.
- Performed number of searches for patentability of subject matter and provided expert opinion.
- Patent analysis and market survey.

Research Experience

- Synthesis of various classes of **synthetic compounds** like Chalcones, Pyrazolines, Aroyl propionic acids, Aroyl acrylic acids, Pyridazinones, Sulfonylurea, Sulfonylthiourea etc.
- Purification of these compounds by various techniques like **thin layer chromatography, column chromatography**.
- Characterization of these compounds by various analytical techniques like **UV, IR, NMR, ¹³C NMR, MS**.
- Biological evaluation of these synthesized compounds like **anti-inflammatory, pro-inflammatory markers** (TNF- α , PGE₂, nitric oxide levels etc), **anti-cancer** (both *in vitro* and *in vivo*), **analgesic** and **anti-diabetic** activities.
- **Research Fellow** in project funded by **Defense Research and Development Establishment (DRDE), Ministry of Defense, Govt. of India**, carried out at Dept. of Chemistry, JamiaHamdard, New Delhi, India (Topic: Preparation, Characterization and Toxicological Studies of Polymeric and Metallic Nanoparticles Encapsulated MiDMSA for Effective Treatment of Chronic Arsenic Poisoning).

Research Project

- **Company:** Ranbaxy Research Laboratories, Gurgaon.
- **Research Title:** Synthesis of Oglemilast: A new drug for Asthma and COPD.

Instrumental & Analytical Techniques Known:

- Working Knowledge and data interpretation of various lab equipments: UV, IR, NMR and MS.
- Column Chromatography, Flash Chromatography.

Publications

- Mehak Saba Lone, Mohamad Mosa Mubarak, Syed Ayaz Nabi, Farhat Ramzan Wani, Shaista Amin, Sayima Nabi, Hadiya Amin Kantroo, Mohammed Samim, Syed Shafi, Shamim Ahmad, Zahoor Ahmad, **Syed Ovais Rizvi**, Kalim Javed. Isonicotinoyl-butanoic acid hydrazone derivatives as anti-tubercular agents: In-silico studies, synthesis, spectral characterization and biological evaluation. *Medicinal Chemistry Research* (IF 2.6) Pub Date: 2023-03-01 , DOI:10.1007/s00044-023-03039-5.
- **Syed Ovais**, KalimJaved*, ShafiyaYaseen, Rafia Bashir, Pooja Rathore, RaedYaseen, Alhamzah D. Hameed, Mohammad Samim. Synthesis, antiproliferative and anti-inflammatory activities of some novel 6-aryl-2-(p-methanesulfonylphenyl)-4,5-dihydro-2H-pyridazi-3-ones. *European Journal of Medicinal Chemistry* **67**, 2013, 352-358.
- **Syed Ovais**, H. Pushpalatha, G. Bhanuprakash Reddy, Pooja Rathore, Rafia Bashir, ShafiyaYaseen, AlhamzaDheyaa, RaedYaseen, Om Prakash, MymoonaAkthar, Mohammed Samima, KalimJaved. Synthesis and biological evaluation of some new pyrazoline substituted benzenesulfonylurea/thiourea derivatives as anti-hyperglycaemic agents and aldose reductase inhibitors *European Journal of Medicinal Chemistry*doi: 10.1016/j.ejmech.2014.04.046.
- **Syed Ovais**, Rafia Bashir, ShafiyaYaseen, Pooja Rathore, Mohammed Samim, KalimJaved*. Synthesis and pharmacological evaluation of some novel 2-pyrazolines bearing benzenesulfonamide as anti-inflammatory and blood glucose lowering agents. *Medicinal Chemistry Research* 2013, 22, 1378-1385.
- **Syed Ovais**, ShafiyaYaseen, Rafia Bashir, Pooja Rathore, Mohammed Samim, Surender Singh, Vinod Nair, KalimJaved*. Synthesis and anti-inflammatory activity of celecoxib like compounds. *Journal of enzyme inhibition and medicinal chemistry*, (DOI:10.3109/14756366.2012.710847).
- Rafia Bashir, **Syed Ovais**, ShafiyaYaseen, Hinna Hamid, M. S. Alam, Mohammad Samim, Surender Singh, KalimJaved*. Synthesis of some new 1,3,5-trisubstituted pyrazolines bearing benzene sulfonamide as anticancer and anti-inflammatory agents *Bioorganic & Medicinal Chemistry Letters* **21** (2011) 4301–4305.
- I. G. Rathish, KalimJaved*Shamim Ahmad, SameenaBano, M. S. Alam, MymoonaAkhter, K.K. Pillai, **Syed Ovais**, Mohammed Samim. Synthesis and evaluation of anticancer activity of some novel 6-aryl-2-(p-sulfamylphenyl)-pyridazin-3(2H)-ones. *European Journal of Medicinal Chemistry* **49**, (2012), 304-309.
- Pooja Rathore, ShafiyaYaseen, **Syed Ovais**, Rafia Bashir, RaedYaseen, Alhamzah D. Hameed, Mohammed Samim, KalimJaved^d. Synthesis and evaluation of some new pyrazoline substituted

benzenesulfonylureas as potential antiproliferative agents. *Bioorganic & Medicinal Chemistry Letters* 24 (2014) 1685-1691.

- Rafia Bashir, ShafiyaYaseen, **Syed Ovais**, Shamim Ahmad, Hinna Hamid, M.S. Alam, Mohammad Samim, KalimJaved*. Synthesis and biological evaluation of some novel sulfamoylphenyl-pyridazinone as anti-inflammatory agents (Part-II*) *Journal of Enzyme Inhibition and Medicinal Chemistry*, 2011, 1–5, (DOI: 10.3109/14756366.2011.577036).
- Rafia Bashir, ShafiyaYaseen, **Syed Ovais**, Hinna Hamid, M. S. Alam, Mohammad Samim, KalimJaved*. Synthesis and blood glucose lowering activity of some novel benzenesulfonylthiourea derivatives substituted with 6-aryl-4,5-dihydropyridazin-3(2H)-ones. *Medicinal Chemistry Research* 2012, 21, 428-436.
- Rafia Bashir, **Syed Ovais**, ShafiyaYaseen, Hinna Hamid, M.S. Alam, Mohammed Samim, KalimJaved*. Synthesis and blood glucose lowering activity of some novel benzenesulfonylurea derivatives substituted with 6-aryl-4,5-dihydropyridazin- 3(2H)-ones. *Medicinal Chemistry Research* DOI:2012, 21, 4352-4356.
- Rafia Bashir, KalimJaved*, ShafiyaYaseen, **Syed Ovais**, Pooja Rathore, Hinna Hamid, M.S. Alam, Mohammed Samim, Surender Singh, Vinod Nair. 6-Chloro-7-methyl-3', 4'-dimethoxyflavone - a Potent Selective COX-2 Inhibitor. *Med Chem.* 2013 Jun 1;9(4):617-23.
- ShafiyaYaseen, **Syed Ovais**, Rafia Bashir, Pooja Rathore, Mohammed Samim, Surender Singh, Vinod Nair, and KalimJaved*. Synthesis and Biological Evaluation of 4-Arylpthalzones Bearing Benzenesulfonamide as Anti-Inflammatory and Anti-Cancer Agents. *Arch. Pharm. Chem. Life Sci.* 2013, 346, 491–498.
- ShafiyaYaseen, Rafia Bashir, **Syed Ovais**, Pooja Rathore, Mohammed Samim, KalimJaved*. Synthesis and blood glucose lowering activity of some novel benzenesulfonylthiourea derivatives substituted with 4-aryl-1-oxophthalazin-2(1H)yl]-ones. *Journal of Enzyme Inhibition and Medicinal Chemistry* DOI: 10.3109/14756366.2013.78230.
- Alhamzah Dh Hameed, **Syed Ovais**, RaedYaseen, Pooja Rathore, Mohammed Samim, Surender Singh, Kalicharan Sharma, MymonaAkhtar, KalimJavedSynthesis and Biological Evaluation of New Phthalazinone Derivatives as Anti-Inflammatory and Anti-Proliferative Agents. *Arch Pharm Article first published online: 3 JAN 2016; DOI: 10.1002/ardp.201500336*
- RaedYaseen, DenizEkinici, Murat Senturk, Alhamzah Dh Hameed, **Syed Ovais**, Pooja Rathore, Mohammed Samim, KalimJaved, Claudiu T Supuran. Pyridazinone substituted benzenesulfonamides as potent carbonic anhydrase inhibitors. *Bioorganic & Medicinal Chemistry Letters*, DOI: 10.1016/j.bmcl.2015.12.016

Book Chapters

- **Pharmacogenomics in drug metabolism**, Tasaduq Manzoor, Irfan Ahad Dar, Aarif Ali, Tawseef Manzoor, Sheikh Bilal Ahmad, Sameena Ismail, John Mohd Muneeb, **Syed Ovais**, Azher Arafah, Syed Mudasir Ahmad. Pharmacogenomics From Discovery to Clinical Implementation 2023, Pages 33-55 (<https://doi.org/10.1016/B978-0-443-15336-5.00014-2>).
- **Recent advances of dihydropyrimidinone derivatives in cancer research**. Prince Ahad Mir, Jasreen Uppal, Aneeza Noor, Mohammad Ovais Dar, Roohi Mohi-ud-din, Adil Farooq Wali, **Syed Ovais**, Reyaz Hassan Mir. Dihydropyrimidinones as Potent Anticancer Agents Medicinal Chemistry Perspective 2023, Pages 153-171 (<https://doi.org/10.1016/B978-0-443-19094-0.00006-0>).
- **Advances in the discovery of DHPMs as Eg5 inhibitors for the management of breast cancer** Fatimah Jan, Benu Chaudhary, Anshul Chawla, **Syed Ovais**, Saima Mushtaq, Adil Farooq Wali. Dihydropyrimidinones as Potent Anticancer Agents Medicinal Chemistry Perspective 2023, Page 223 (<https://doi.org/10.1016/B978-0-443-19094-0.00009-6>).
- **Taraxacum officinale: The Esculent Dandelion as Herbal Medicine**. Insha Qadir, Sheeba Nazir, Mohammad Asif Sheikh, Farha Naaz, Saika Bashir, **Syed Ovais**, Nisar A Khan, Mubashir Hussain Masoodi. Edible Plants in Health and Diseases pp 299–326. (https://doi.org/10.1007/978-981-16-4959-2_9).
- **Cichorium intybus: A Comprehensive Review on Its Pharmacological Activity and Phytochemistry**. Insha Qadir, Mohd Rabi Bazaz, Rameez Mohd Dar, **Syed Ovais**, Showkat R Mir, MI Zargar, MU Rehman Edible Plants in Health and Diseases pp 373–398. (https://doi.org/10.1007/978-981-16-4959-2_12).
- **Nigella sativa and prevention of nephrotoxicity: A comprehensive update**. Rukhsana Akhter, Shazia Nazir, Shabhat Rasool, **Syed Ovais**, Adil Farooq Wali, Huma Jan, Mohammad F Alam, Muneeb U Rehman, Saiema Rasool. Black Seeds (Nigella Sativa) Pharmacological and Therapeutic Applications 2022, Pages 423-438 (<https://doi.org/10.1016/B978-0-12-824462-3.00009-3>).
- **Therapeutic effects of Nigella sativa on hormonal dysfunctions**. Javaid A Wani, Christos Tsagkaris, Sabhiya Majid, Majid A Ganie, Rukhsana Akhter, Sheikh B Ahmad, **Syed Ovais**, Mosin S Khan, Hilal A Wani. Black Seeds (Nigella Sativa) Pharmacological and Therapeutic Applications 2022, Pages 217-238 (<https://doi.org/10.1016/B978-0-12-824462-3.00001-9>).

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Papers Presented In Conferences

- Synthesis and pharmacological evaluation of some novel 2-pyrazolines bearing benzenesulfonamide as anti-inflammatory and blood glucose lowering agents. **Syed Ovais**, Rafia Bashir, ShafiyaYaseen, Pooja Rathore, Mohammed Samim, KalimJaved* in National Conference 2011 “*CHEMISTRY: EDUCATION AND RESEARCH FRONTIERS*” (IGNOU).
- Synthesis and biological evaluation of novel 4-[3-(4-Dimethylamino-phenyl)-5-aryl-4,5-dihydro-pyrazol-1-yl]-benzenesulfonamides as anti-inflammatory and anticancer agents. **Syed Ovais**, ShafiyaYaseen, Rafia Bashir, Pooja Rathore, Mohammed Samim, Surender Singh, Vinod Nair, KalimJaved* in “*THE SECOND MEDICINAL CHEMISTRY SEMINAR (NEW DELHI) OF JSPS ASIA-AFRICA SCIENCE PLATFORM PROGRAM*” at All India Institute of Medical Sciences, (AIIMS) New Delhi.

Linguistic Ability

- English, Hindi, Urdu.

Computer Skills

- Certificate in Computing (CIC) from IGNOU.
- ISIS Draw, CHEM Draw/Sketch, ACD Labs.
- MS Office, Windows, Internet.

Personal Details

Father’s Name	Syed Mohammad Shah
Date of Birth	Ist April 1982
Marital Status	Married
Nationality	Indian
Permanent Address	Ali Pora, B.A.M Khan, Srinagar, Kashmir (J & K), India. 190011.
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Date: 18/02/2024

Place: Srinagar

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