



Chemistry Section
School of Sciences
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DR. SYED SALAHUDDIN | ASSOCIATE PROFESSOR

CURRENT DESIGNATION/ INVOLVEMENT	Currently working as an Associate Professor in Department of Chemistry, School of Science, Maulana Azad National Urdu University (Central University), Hyderabad, Telangana, India.
AREA OF SPECIALIZATION	Bioorganic Chemistry Nodal Officer, Bachelor of Vocational Program
ONGOING ACADEMIC RESEARCH/PROJECTS	New Approaches to Discover Biologically Active Small Molecules
INNOVATION WITH FIELD OF STUDY AND COLLABORATIVE EFFORTS	List with all details
ACADEMIC AND ADMINISTRATIVE EXPERIENCE	<ul style="list-style-type: none">▪ NODAL OFFICER, BACHELOR OF VOCATIONAL PROGRAM (2021 TO PRESENT)▪ DEPUTY TRAINING AND PLACEMENT OFFICER, MAULANA AZAD NATIONAL URDU UNIVERSITY, HYDERABAD (2021 TO PRESENT)▪ GENERAL SECRETARY, NATIONAL SCIENCE FAIR ACADEMY, HYDERABAD, INDIA (2017 – PRESENT)
EDUCATIONAL QUALIFICATION	<ul style="list-style-type: none">▪ DOCTOR OF PHILOSOPHY (Ph.D.) 2007 Department of Chemistry, University of Bern, Switzerland▪ POST-DOCTORAL FELLOW (2008-2009) The Scripps Research Institute, La Jolla, San Diego, California, USA▪ POST-DOCTORAL FELLOW (2009-2012) Stanford University, California, USA
TEACHING PROFICIENCY	Organic reaction mechanisms, Spectroscopy, Bioorganic Chemistry and Structural Chemistry
RESEARCH PUBLICATION DETAILS	1. Khan SA, Ullah Q, Syed Salahuddin , Alimuddin, Almalki ASA, Kumar S, Obaid RJ, Alsharif MA, Alfaifi SY, Parveen H, Microwave assisted one-pot synthesis,

photophysical and physicochemical studies of novel biologically active heterocyclic Donor (D)- π -Acceptor (A) chromophore. **Bioorg Chem.** 2021 Jul;112:104964.

2. Aillaud C, Bosc C, Peris L, Bosson A, Heemeryck P, Van Dijk J, Le Fric J, Boulan B, Vossier F, Sanman LE, **Salahuddin Syed**, Amara N, Couté Y, Lafanechère L, Denarier E, Delphin C, Pelletier L, Humbert S, Bogyo M, Andrieux A, Rogowski K, Moutin MJ. Vasohibins/SVBP are tubulin carboxypeptidases (TCPs) that regulate neuron differentiation. **Science.** 2017 Dec 15;358(6369):1448-1453.

3. Verdoes, M.; Bender, K.O.; Segal, E.; van der Linden, W. A.; **Salahuddin, S.**; Nimali P. Withana, N. P.; Sanman, L.E.; and Bogyo, M. An improved quenched fluorescent probe for imaging of cysteine cathepsin activity. **J. Am. Chem. Soc.** **2013.** 135, 14726.

4. Morell, M.; Nguyen Duc, T.; Willis, A. L.; **Salahuddin, S.**; Lee, J.; Deu, E.; Deng, Y.; Xiao, J.; Turk, B. E.; Jessen, J. R.; Weiss, S. J.; Bogyo, M. Coupling protein engineering with probe design to inhibit and image matrix metalloproteinases with controlled specificity. **J. Am. Chem. Soc.** **2013.** 135, 9139.

5. Edgington LE., Verdoes M., Ortega A., Lee J., **Salahuddin, S.**, Bachmann M., Blum G., Bogyo. Functional imaging of legumain in cancer using a quenched activity-based probe. **J Am Chem Soc.** **2013** 135(1):174-82.

6. G., Blum G., Verdoes M., Liu H, **Syed Salahuddin.**, Edgington LE., Gheysens O., Miao Z., Jiang H., Gambhir SS., Bogyo M., Cheng Z. Non-invasive imaging of cysteine cathepsin activity in solid tumors using a ^{64}Cu -labeled activity-based probe. **PLoS One.** **2011**; 6(11):e28029.

7. Maillard, N., Babiak, P., **Salahuddin, S.**, Biswas, R., Mandrich, L., Manco, G., Reymond, J.-L. Fivesubstrate cocktail as a sensor array for measuring enzyme activity fingerprints of Lipases and Esterases. **Anal Chem.** **2011.** 15;83(4):1437-42.

8. Zhang, H., **Salahuddin, S.**, Barbas III, C.F. Highly enantio- and diastereoselective Mannich reactions of Glycine Schiff bases with in situ generated N-Boc-imines catalyzed by a cinchona alkaloid thiourea. **Organic Letters.** **2010.** 12: 708-711.

9. Bui, T., **Salahuddin, S.**, Barbas, III, F.C. Thiourea-catalyzed highly enantio- and diastereoselective additions of oxindoles to nitroolefins: Application to the formal synthesis of (+)-physostigmine. **J. Am. Chem. Soc.** **2009.** 131: 8758-8759.

10. Gavriluk, J. L., Wuellner, U., **Salahuddin, S.**, Goswani, R.K., Sinha, S.C., Barbas, III, F.C. Efficient chemical approaches to bispecific antibodies and

antibodies of high valency. *Bioorg Med Chem Lett*. **2009**. 19: 3716-3720.

11. Nguyen, K.T., Luethi, E., **Salahuddin, S.**, Urwyler, S., Bertrand, S., Bertrand, D., Reymond, J.-L. 3- (Aminomethyl)piperazine-2,5-dione as a novel NMDA glycine site inhibitors from the Chemical Universe Database GDB. *Bioorg Med Chem Lett* **2009**. 19: 3832-3835.

11. Nguyen, K.T., **Salahuddin, S.**, Urwyler, S., Bertrand, S., Bertrand, D., Reymond, J.-L. Discovery of NMDA glycine site inhibitors from the Chemical Universe Database GDB. *Chem Med Chem* **2008**. 3: 1520 -1524.

12. **Salahuddin, S.**, Renaudet, O., Reymond, J.-L., Aldehyde detection by chromogenic/fluorogenic oxime bond fragmentation. *Org. Biomol. Chem.* **2004**. 2: 1471-1475.

13. Ram, S.R., Chary, K.P., **Salahuddin, S.**, Iyengar, D.S. An efficient chemoselective production of amines from azides, using AlCl₃/NaBH₄. *Indian. Chem., Sect. B: Org. Chem. Incl. Med. Chem.* **2003**. 42B: 935- 937.

14. Reddy, G.S., **Salahuddin, S.**, Neelakantan, P., Iyengar, D.S. Conversion of α -arylidene- γ -keto esters to diarylfuran carboxylic acid esters. *Heterocyclic Commun.* **2002**. 8: 361-364.

DETAILS OF
CONFERENCE/SEMINAR
/WORKSHOP/ FDP
(ATTENDED/PRESENTED)

1. Inspire Scientific Research: Empower Science and Technology” **Salahuddin Syed, (keynote address)**. National Science Fair Academy One Day Regional Science Teaching and Learning Workshop at MS Education Academy Hyderabad, Telangana, India, on 20th Jan 2021.

2. Science and Technology for a sustainable future” **Salahuddin Syed, (keynote address)**. At National Science day seminar, Maulana Azad National Urdu University, Hyderabad, India, on 28th February 2019.

3. Chemical proteomic strategies for the discovery and development of anticancer drugs” **Salahuddin Syed, (keynote address)**. At Urdu National Science Congress, Maulana Azad National Urdu University, Hyderabad, India, on 9th February 2018.

4. Technology Integration in a 21st Century Science Classroom” **Salahuddin Syed, (keynote address)**. At Urdu National Science Congress, Maulana Azad National Urdu University, Hyderabad, India, on 16th February 2017.

5. Innovative Skills and Strategies for Dealing with Science Learning” **Salahuddin Syed, (keynote address)** Challenges and opportunities in Science Lecture Series, Maulana Azad National Urdu University, Hyderabad, India, on 4th March 2016.

6. Design, Synthesis and Evaluation of Small Molecules for Cancer Therapeutics, Organocatalysis and Probing Enzyme Activity” **Salahuddin Syed, (Invited talk)**. At National Cancer Institute, Frederick, NIH, MD, USA, 5th January 2011.

7. Activity-based probes (ABPs) for non-invasive imaging of cysteine cathepsin activity in solid tumors” **Salahuddin Syed, (Invited talk)**. At Department of Chemistry, University of Davis, California, USA, 9th December 2011.

DETAILS OF KEYNOTE
SPEAKER/RESOURCE
PERSON/ SESSION CHAIR
ETC.

ACHIVEMENTS 1.

DETAILS OF SUPERVISION 1- Aram Rahman (Ph.D research Scholar in 2nd Semester)
(M.PHIL/M.TECH/P.HD.)

PROFESSIONAL
MEMBERSHIPS

- General Secretary, National Science Fair Academy, Hyderabad, India, 2017-present
- Member of The Indian Science Congress Association (ISCA) 2016-present.
- Member of American Chemical Society (ACS) 2008-present.
- Member of International Union of Pure and Applied Chemistry (IUPAC) 2006-present.

- Organized Organic Chemistry Seminar Series at University of Bern, 2005-2006.
- Member of Swiss Chemical Society (SCS) 2002-present.

PERSONAL DETAILS

Father's Name : Syed Mohiuddin
Date of Birth : 15-05-1974
Gender : Male
Marital Status : Married
Nationality : Indian
Language Known : Urdu, English, Telugu and German
Etc..

Date: 25-04-2022

Place: Hyderabad

(Dr. Salahuddin Syed)

[Last update on: 25th April 2022]