

CV and List of Publications

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EDUCATION

Ph.D. (Organic Chemistry) 2007
H. E. J. Research Institute of Chemistry
University of Karachi, Karachi-75270, Pakistan

Thesis Title: "Isolation, Structure Elucidation and Biotransformation Studies on Secondary Metabolites from *Withania Somnifera* and Related Plants"

M.Sc. (Organic Chemistry) 2000
University of Karachi, Karachi-75270, Pakistan

B.Sc. (Chemistry, Biochemistry, Microbiology) 1998
Jinnah University for Women, Karachi, Pakistan

AWARDS & HONORS (INTERNATIONAL)

- Elected as Pakistan Hub Participant of "A Global Network of the Tropical neglected Diseases (NTD)", funded by "Grand Challenge Research Fund (GCRF)" and managed by the Durham University, UK (<https://ntd-network.org/>) 2019
- TWAS (The World Academy of Sciences for the advancement of science in developing countries) Young Affiliate 2013 2013
- Appointed as Visiting Scientist at Atta-ur-Rahman Institute for Natural Product Discovery (RiND), University Technology Mara (UiTM), Malaysia. 2013
- TWAS Regional Prize for Young Scientist from the Third World Academy of Sciences (TWAS) 2011

AWARDS & HONORS (NATIONAL)

- Member of Pakistan Academy of Sciences 2017
- Elected as Joint Secretary of the Pakistan Crystallographic Association 2010
- Merit Scholarship for Ph. D. Students from HEC (Higher Education Commission, Pakistan), 2003
- 1st class 1st position in M. Sc. (Chemistry) 2001
- AlHaj Molvi-Riazudin Gold Medal for Securing 1st Position in M.Sc. (Chemistry) 2001

EXPERIENCE

Professor
H.E.J. Research Institute of Chemistry
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August 2021
Present

Associate Professor
 H.E.J. Research Institute of Chemistry
 International Center for Chemical and Biological Sciences
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 January 2017
 Present

Assistant Professor
 H.E.J. Research Institute of Chemistry
 International Center for Chemical and Biological Sciences
 University of Karachi
 July 2010
 Dec. 2016

Research Officer
 H.E.J. Research Institute of Chemistry
 International Center for Chemical and Biological Sciences
 University of Karachi
 July. 2008 -
 May 2010

Post Doctoral Research Associate
 Single X-Ray Crystallography Laboratory, School of Chemical
 Sciences and Food Technology, Faculty of Science and Technology,
 Universiti Kebangsaan, Malaysia
 Nov. 2007 -
 April 2008

Senior Research Fellow
 H.E.J. Research Institute of Chemistry
 University of Karachi, Karachi-75270, Pakistan
 "Isolation, Structure Elucidation and Biotransformation Studies
 on Secondary Metabolites from *Withania somnifera* and related
 Plants"

**OTHER
 SERVICES**

- Incharge Single-Crystal X-ray Diffraction Facility of the ICCBS Since 2010 to date
- Coordinator, PABIC (Pakistan Biotechnology Information Center, <https://www.pabic.com.pk/contact/>) Since 2013 to date
- Coordinator, XRD Techniques User Group of Pakistan (XRD-PAK)
- Actively involved as team member for organizing scientific events, such as workshops and conferences for both ICCBS and PABIC.

A. BOOKS EDITED

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|----|--|-----------------|
| 1. | “ <i>Science of Spices and Culinary Herbs: Latest Laboratory, Pre-clinical and Clinical Studies Vol. I</i> ”, Atta-ur-Rahman, Choudhary M. I. and Yousuf S., Bentham Science Publishers, Amsterdam (2019). | The Netherlands |
| 2. | “ <i>Science of Spices and Culinary Herbs: Latest Laboratory, Pre-clinical and Clinical Studies Vol. IP</i> ”, Atta-ur-Rahman, Choudhary M. I. and Yousuf S., Bentham Science Publishers, Amsterdam (2020). | The Netherlands |
| 3. | “ <i>Science of Spices and Culinary Herbs: Latest Laboratory, Pre-clinical and Clinical Studies Vol. IIP</i> ”, Atta-ur-Rahman, Choudhary M. I. and Yousuf S., Bentham Science Publishers, Amsterdam (2020). | The Netherlands |

B. CHAPTERS IN BOOKS

Published in

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|----|---|---------|
| 4. | “Seperation of Phenyl Propanoids and Evaluation of Their Antioxidant Activities”, Yousuf S. , Choudhary M. I. and Atta-ur-Rahman, Advance Protocols in oxidative Stress II (appear in a series, Methods in Molecular Biology, 594), <i>The Humana Press</i> , 357 (2010). | USA |
| 5. | Agriculture Biotechnology in OIC Countries-Role of COMSTECH and PABIC, Choudhary M. I., and Yousuf S. , Communication Challenges and Convergence in Crop Biotechnology, Published by ISAAA and SEARCA, (2011). | USA |
| 6. | Publications: Contributing to the Robust Knowledge on Crop Biotechnology and Science Communication, Arujnan M., Odhong J., Zhang T., Abdalla N., Choudhary B., Yousuf S. and Attathom S. published in ISAAA Breifs 45, From Monologue to Stakeholders Engagement: The Evaluation of Biotech. Communication. Published by ISAAA (2013). | USA |
| 7. | “Withanolides- Chemistry and Antitumor Activity”, Choudhary M. I. Yousuf S. , and Atta-ur-Rahman, Hand Book of Natural Products, published by Springer, 3465 (2013). | Germany |
| 8. | “Lichens: Chemistry and Biological Acitivites”, Yousuf S. , Choudhary M. I. and Atta-ur-Rahman, Studies in Natural Product Chemistry, published by Elsevier 3465 (2014). | USA |

C. RESEARCH PUBLICATIONS

Published in

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|----|--|-------------|
| 1. | Choudhary M. I., Yousuf S. , Nawaz S. A., Ahmed S., Atta-ur-Rahman, “Cholinesterase Inhibiting Withanolides from <i>Withania somnifera</i> ”, <i>Chem. Pharm. Bull.</i> , 58(11) 1358 (2004). | Japan |
| 2. | Choudhary M. I., Yousuf S. , Ahmed S., Samreen , Yasmeeen K., Atta-ur-Rahman, “Antileishmanial physalins from <i>Physalis minima</i> ”, <i>Chemistry and Biodiversity</i> , 2 1164 (2005). | Switzerland |
| 3. | Choudhary M. I., Nawaz S. A., Zaheer-ul-Haq, Lodhi A., Jalil S., Riaz N., Yousuf S. , Malik A., Atta-ur-Rahman, “Withanolides, a new calsss of cholinesterase inhibitors with calcium antagonistic properties”, <i>BBRC</i> , 334, 276-287 (2005). | UK |
| 4. | Choudhary M. I., Yousuf S. , Anjum S., Atta-ur-Rahman, Fun Hoong-Kun, Ali S., “5 α -Chloro-16,24-cyclo-13,14-secoergost-2-ene-18,26-dioic acid-14:17,14:27-diepoxy-6 α ,13,20,22-tetrahydroxy-1,15-dioxo- γ -lactone δ -lactone meth- anolsolvate monohydrate”, <i>Acta cryst. E</i> , 61 3523 (2005). | USA |
| 5. | Choudhary M. I., Yousuf S. , Samreen, Shah S. A. S., Ahmed S., Atta-ur-Rahman “Biotransformation of physalin H and antileishmanial activity of transformed products”, <i>Chem. Pharm. Bull.</i> 54(7) 927-930, (2006). | Japan |
| 6. | Yamin B. M., Deris H., Malik Z. M., Yousuf S* , “N-(Biophenyl-4-yl-carbonyl)-N-(2-pyridyl-methyl) thiourea”, <i>Acta Cryst. E</i> , 64 o360 (2007). | USA |

7. Choudhary M. I., **Yousuf S.**, Samreen, Ahmed S., Atta-ur-rahman, "New leishmanicidal physalins from *Physalis minima*", *Nat. Prod. Res.*, **21(10)** 877 (2007). UK
8. Yamin B. M., **Yousuf S***, Yousof M. S. M., Joushu R. H., "*N*-(2,4-dimethylphenylcarbamothioyl)-2-methylbenzamide", *Acta Cryst. E*, **64** o832 (2008). USA
9. Yamin B. M., **Yousuf S.**, Yousof M. S. M., Joushu R. H., "2-Methyl-*N*-(3-methylpyridine-2-yl)carbamothioylbenzamide", *Acta Cryst. E*, **64** o833 (2008). USA
10. Yamin B. M., **Yousuf S***, Yousof M. S. M., Zakaria T. N. T. D., "(2-Methylbenzoyl)-3-methylthiourea", *Acta Cryst. E*, **64** o1227 (2008). USA
11. Koko W. S., Mesaik M. A., **Yousuf S.**, Choudhary M. I., '*In Vitro* immunomodulatory properties of selected sudanese medicinal plants', *J. Ethnopharmacology.*, **118** 26, (2008). The Netherlands
12. Ashiq U., Jamal R. A., Tahir M. N., **Yousuf S***, Khan I. U., "4-Methoxybenzohydrazide", *Acta Cryst. E*, **65** o1551 (2009). USA
13. Owoeye O., **Yousuf S.**, Akhter M. N., Qamar K., Dar A., Farombi E O., Onwuka S., Choudhary M. I., "Another anticancer elemanolide from *Vernonia amygdalina* Del", *Int. J. Biol. Chem. Sci.*, **4(1)** 226 (2010). Australia
14. Choudhary M. I., Hussain S., **Yousuf S.**, Muddasar, Dar A., Atta-ur-Rahman, "Chlorinated and diepoxy withanolides from *Withania somnifera* and their cytotoxic effects against human cancer cell lines", *Phytochemistry*, **17(16)** 2205 (2010). UK
15. **Yousuf S***, Zafar S., Choudhary M. I., Ng S. W., "17 β -Hydroxy-17 α -(hydroxymethyl)estr-4-en-3-one", *Acta Cryst. E* **66** o2894 (2010). USA
16. **Yousuf S***, Latif A., Arfan M., Choudhary M. I., "1,2,4-Trimethoxy dibenzofuran-3-ol", *Acta Cryst. E*, **66** o3066 (2010). USA
17. Ali Q., **Yousuf S***, M. R. Shah, Ng S. W., "*tert*-Butyl 2-[4-(2-{4-[(*tert*-butoxycarbonyl)methoxy]-3-methylphenyl]-2-propyl)-2-methylphenoxy]-acetate", *Acta Cryst. E*, **66** o1750 (2010). USA
18. Ali Q., **Yousuf S***, M. R. Shah, Ng S. W., "Di-*tert*-butyl 2,2'-[(biphenyl-4,4'-diyl)dioxy]diacetate", *Acta Cryst. E*, **66** o1739 (2010). USA
19. K. Shah, **S. Yousuf***, Shah M. R., S. W. Ng, "Di-*tert*-butyl 2,2'-[9*H*-fluorene-9,9-diylbis(*p*-phenyleneoxy)]diacetate", *Acta Cryst. E*, **66** o1705 (2010). USA
20. **Yousuf S***, Ahmad R., Ali Z., Choudhary M. I., Ng S. W., "(20*S*)-20-Acetoxy-4-pregnene-3,16-dione from *Commiphora weightii*", *Acta Cryst. E*, **66** o3301 (2010). USA
21. Yousaf A., **Yousuf S***, Yu P., Nighat A., Ali M. K., "1-Oxo-2,3-dihydro-1-*H*-pyrrolizine-2,2-diylbis(methylene)dibenzoate", *Acta Cryst. E*, **67** 0172 (2011). USA
22. Musharraf S. G., Ali A., Ali R. A., **Yousuf S***, Atta-ur-Rahman, Choudhary M. I., "Analysis and development of structure-fragmentation relationships in withanolides using an electrospray ionization quadrupole time-of-flight tandem mass spectrometry hybrid instrument", *Rapid Commun. Mass Spectrom.*, **25** 104 (2011). UK
23. **Yousuf S.**, Kamdem R. S. T., Nagadjui B. T., Wafo P., Hoog-kun Fun, "3 α -Hydroxytricucalla-8,24-diene-21-oic acid", *Acta Cryst. E*, **67** o937-o938 (2011). USA
24. **Yousuf S.**, Kamdem R. S. T., Nagadjui B. T., Wafo P., Hoog-kun Fun, "A cocrystal of 3 α -Hydroxytricucalla-8,24-diene-21-oic acid and 3 β -flurotricucalla-7,24-diene-21-oic acid (0.897:0.103)", *Acta Cryst. E*, **67** o1015-o1016 (2011). USA

25. **Yousuf S.**, Johnson A. S., Kazmi S. A., Offiong O. E., Hoog-kun Fun, "3,5-Diamino-4H-1-1,2,4-triazol-1-ium(6-carboxylato)cuprate (II) trihydarte", *Acta Cryst. E*, **67** m509-m510 (2011). USA
26. **Yousuf S.**, Musharraf S. G., Khan I., Samiullah., Hoog-kun Fun, "Absolute configuration of (2S)-4-(4-hydroxyphenyl)butane-2-ol", *Acta Cryst. E*, **67** o952-o0960 (2011). USA
27. Sultana R., Hossain R., Adhikari A., Ali Z, **Yousuf S***, Choudhary M. I., Ali M. Y., Zaman M. S., "Drimane-type sesquiterpenes from *Polygonum hydropiper*", *Planta Medica*, **77(16)**, 1848-51 (2011) USA
28. **Yousuf S.**, Johnson A. S., Kazmi S. A., Hemamalini. M., Hoog-kun Fun, "3,5-Diamino-4H-1-1,2,4-triazol-1-ium hydroxonium bis (pyridine-2,6-dicarboxylato)Cobalt (II) pyridine-2,6-dicarboxylic acid monohydrate", *Acta Cryst. E* **67**, m1105-m1106 (2011). USA
29. Jamal R. A., Ashiq U., **Yousuf S***, Qurat-ul-Ain, "3-Amino-N₂-(2-oxo-2,3-dihydro-1H-indol-3-ylidene)benzohydrazide", *Acta Cryst. E*, **67** o2166- (2011). USA
30. Ashiq U., Jamal R. A., **Yousuf S***, "3,4,5-Trihydroxybenzohydrazide", *Acta Cryst. E*, **67** o2462-o2463 (2011). USA
31. Zeb. A., **Yousuf S***, "(E)-1-(1-(3-nitrophenyl)ethylidene)-2-O-tolylhydrazine", *Acta Cryst. E*, **67** o2801-o2802 (2011). USA
32. **Yousuf S.**, Musharraf S. G., Iqbal N., Adhikari A., Choudhary M. I., "3 α -Dimethylamino-20-(N-methylacetamido)pregn-5-ene", *Acta Cryst. E*, **67** o2918-o22920 (2011). USA
33. **Yousuf S***, Bibi M., Choudhary M. I., "21-Hydroxypregna-1,4-diene-3,20-dione", *Acta Cryst. E*, **67** o2122-o2124 (2011). USA
34. Ramsay S. T. K., Wafo P., **Yousuf S.**, Ali, Adhikari A., Rasheed S., Khan I. A., Ngadjui B. T., Hoong-Kun Fun, and Choudhary M. I., "Canarene: A triterpenoid with a unique carbon skeleton from *Canarium schweinfurthii*", *Org. Lett.*, **13 (20)**, 5492–5495 (2011). USA
35. Choudhary M. I., Alam M. S., Atta-ur-Rahman, **Yousuf S.**, Wu Yang-Chang, Lin An-Shen, and Shaheen F. "Pregnenolone derivatives as anticancer agents", *Steroids*, **76**, 1554–1559 (2011). Netherland
36. Aslam M., Anis I., **Yousuf S***, Afza N., Nelofar A., "5-Chloro-2-(4-nitrobenzylideneamino)phenyl(phenyl)methanone", *Acta Cryst. E.*, **67** o3215-o03216 (2011). USA
37. Aslam M., Anis I., **Yousuf S***, Afza N., Nelofar A., "5-Chloro-2-(2-hydroxybenzylideneamino)phenyl(phenyl)methanone", *Acta Cryst. E*, **67** o3442-o3443 (2011). USA
38. Jamal R. A., Ashiq U., **Yousuf S***. "(3Z)-3-Hydrazinylideneindoline-2-one", *Acta Cryst. E*, **67** o2576 (2011). USA
39. Choudhary M. I., Zafar S., **Yousuf S.**, Kayani H. F., Saifullah, Khan S., "Biotransformation of oral contraceptive ethynodiol diacetate and methyloestrenolone by cell suspension cultures of medicinal plants", *Chemistry Central Journal*, **6(1)**, 109 (2012). USA
40. Khan T. M., Bibi M., **Yousuf S.**, Qureshi I. H., Atta-ur-Rahman, Al-Majid A. M., Mesaik M. A., Khalid S., Sattar S., Atia-tul-Wahab, Choudhary M. I., "Synthesis of some potent immunomodulatory and anti-inflammatory metabolites by fungal transformation of anabolic steroid oxymetholone", *Chemistry Central Journal*, **6**, 153 (2012). USA
41. Atta-ur-Rahman., Haroone M. S., Tareen R. B., Mesaik M. A., Jan S., Abbaskhan A., Asif M., Gulzar T., Al-Majid A. M., **Yousuf S.**, Choudhary, M. I. M.I., "Secondary Metabolites of *Sophora mollis* subsp. griffithii (Stocks) Ali", *Phytochem. Lett.*, **5**, 613–616 (2012). UK

42. Elhassan O. M. G., **Yousuf S.**, Adhikari A., Rehman M. H., Khalid A., Omer H., Hoong-Kun Fun., Jahan H., Choudhary M. I., Yagi S., "Phytochemistry and antiglycation activity of *Aloe sinkatana* Reynolds", *Phytochem. Lett.*, **5**, 725–728 (2012). UK
43. Musharraf, S. G., Uddin J., Akhter M., Parvez M., Khan S., **Yousuf S.**, Khan S., Choudhary M. I., "Biotransformation of an antimalarial drug, artemether by plant and fungal cell cultures", *J. Molecular Catalysis B. Enzymatic*, **82** 80-85 (2012). UK
44. Firdous S., Ansari, N. H., Ng S. W., **Yousuf S***, Malik A., "Crystal structure of a novel furo-furan lactone from *Heliotropium eichwaldi*", *Z. Naturforsch.*, **67(B)** 269-271 (2012). UK
45. Hameed A., Anwar A., **Yousuf S.**, Khan K. M., Basha F. Z., "Tetra-*n*-butylammonium fluoride-mediated dimerization of (α -methylbenzylidene)malononitriles to form polyfunctional 5,6-dihydropyridines derivatives under solvent-free conditions", *Eur. J. Chem.*, **3(2)** 179-185 (2012). UK
46. Aslam M., Anis I., Afza N., Ibrahim M., **Yousuf S***, "17-(Pyrimidin-2-yl)-8,16-dioxo-17-azatetracyclo[7.7.1.0^{2,7}.0^{10,15}]heptadeca-2,4,6,10,12,14-hexaene", *Acta Cryst. E*, **68** o440 (2012). USA
47. Aslam M., Anis I., Afza N., Safdar M., **Yousuf S***, "{2-[(3-Bromobenzylidene)amino]-5-chlorophenyl}(phenyl)methanone", *Acta Cryst. E*, **68** o645 (2012). USA
48. **Yousuf S.**, Khan M., Fazal S., Butt N., Basha, F. Z., 5-(Prop-2-ynyl)-5*H*-dibenzo[*b,f*]azepine", *Acta Cryst. E*, **68** o1101 (2012). USA
49. Warad I., Alruwaili A., Al-Resayes S. I., Choudhary M. I., **Yousuf S***, "5,5-Dimethyl-2,2-*bis*(pyridin-2-yl)-1,3-diazinane", *Acta Cryst. E*, **68** o1786 (2012). USA
50. **Yousuf S***, Zeb. A., Basha, F. Z., "2-(2-Methyl-5-nitro-1*H*-imidazol-1-yl)-ethyl 4-fluorobenzoate", *Acta Cryst. E*, **68** o952 (2012). USA
51. Aslam M., Anis I., Afza N., Yasmeen S., **Yousuf S***, "{5-Chloro-2-[(4-chlorobenzylidene)-amino]phenyl}(phenyl)methanone", *Acta Cryst. E*, **68** o644 (2012). USA
52. Zeb. A., **Yousuf S***, Basha, F. Z., "2-(2-Methyl-5-nitro-1*H*-imidazol-1-yl)-ethyl 2-bromobenzoate", *Acta Cryst. E*, **68** o1218 (2012). USA
53. Aslam M., Anis I., Afza N., Hussain, M. T., **Yousuf S***, "2-[(2-Methoxybenzylidene)amino]phenol", *Acta Cryst. E*, **68** o1447 (2012). USA
54. **Yousuf S***, Arshad M., Butt, M. H., Saeed S., Basha, F. Z., "2-Azido-1-(4-fluorophenyl)ethanone", *Acta Cryst. E*, **68** o1268 (2012). USA
55. **Yousuf S***, Bano S., Choudhary M. I., "17 α -Acetoxy-11 β -hydroxy-6 α -methylpregn-4-ene-3,20-dione", *Acta Cryst. E*, **68** o2006 (2012). USA
56. Arshad M., **Yousuf S***, Butt, M. H., Saeed S., Basha, F. Z., "2-Azido-1(4-methylphenyl)ethanone", *Acta Cryst. E*, **68** o1608 (2012). USA
57. **Yousuf S***, Arshad M., Butt, M. H., Saeed S., Basha, F. Z., "2-Azido-1(4-nitrophenyl)ethanone", *Acta Cryst. E*, **68** o1952 (2012). USA
58. **Yousuf S***, Khan M., Fazal S., Butt M., Basha, F. Z., "5-(Prop-2-ynyl)-5*H*-dibenzo[*b,f*]azepine", *Acta Cryst. E*, **68** o1101 (2012). USA
59. **Yousuf S***, Siddiqui H., Farooq R., Choudhary M. I., "*N*-(4-Methoxy-2-nitrophenyl)-*N*-(methylsulfonyl)methanesulfonamide", *Acta Cryst. E*, **68** o2090 (2012). USA

60. **Yousuf S***, Younas S. M., Ambreen N., Khaild K. M., Miana G. A., “3,5a,9-Trimethyl-8-(2-phenylhydrazin-1-ylidene)-4,5,5a,9btetrahydro-3aH,8H-naphtho[1,2-b]furan-2(3H)-one”, *Acta Cryst. E*, **68** o2112 (2012). USA
61. **Yousuf S***, Younas S. M., Ambreen N., Khaild K. M., Miana G. A., “8-[(2-Hydroxyphenyl)imino]-3,5a,9-trimethyl-a,4,5,5a,8,9bhexahydronaphtho[1,2-b]furan-2(3H)-one”, *Acta Cryst. E*, **68** o2158 (2012). USA
62. Warad I., Aldwayyan, A. S., Al-Jekhedab F. M. Choudhary M. I., **Yousuf S.**, “[1,2-Bis(diphenylphosphanyl)ethane-k2P,P']dichloridopalladium(II) dimethyl sulfoxide monosolvate”, *Acta Cryst. E*, **68** m984-m985 (2012). USA
63. Ashiq U., Jamal R. A., Ismail H., Khaild K. M., **Yousuf S***, “3-(2-Ethyl-2-phenylhydrazin-1-ylidene)indoline-2-one”, *Acta Cryst. E*, **68** o3473 (2012). USA
64. **Yousuf S.**, Iqbal S., Ambreen N., Khaild K. M., “1-(3-Methoxyphenyl)-2-(phenylsulfonyl)ethan-1-one”, *Acta Cryst. E*, **68** o2562 (2012). USA
65. Syukri M., Baharudin., Taha M., Ismail N. H., Ali Shah S. A., **Yousuf S***, “N'-(E)-2-Hydroxy-5-methoxybenzyl-idene]-2-methoxybenzohydrazide”, *Acta Cryst. E*, **68** o3255 (2012). USA
66. **Yousuf S***, Siddiqui H., Farooq R., Choudhary M. I., “2-[3-(1,3-Benzothiazol-2-yl)-2,2-dimethylpropyl-2-methyl-2,3-dihydro-1,3-benzothiazole”, *Acta Cryst. E*, **68** o2349 (2012). USA
67. Taha M., Syukri M., Baharudin., Ismail N. H., Ali Shah S. A., **Yousuf S***, “N'-(E)-2,3-Dihydroxybenzylidene]-2-methoxybenzohydrazide”, *Acta Cryst. E*, **68** o3256 (2012). USA
68. Taha M., Naz H., Rahman A.A., Ismail N. H., **Yousuf S***, “(E)-4-methoxy-N-(3,4,5-trihydroxybenzyl-idene)benzohydrazide methanol monosolvate”, *Acta Cryst. E*, **68** o2846 (2012). USA
69. Taha M., Naz H., Rahman A. A., Ismail N. H., **Yousuf S***, “(E)-N-Dimethoxybenzylidene)-4-methoxy-benzohydrazide”, *Acta Cryst. E*, **68** o2780 (2012). USA
70. Taha M., Naz H., Rahman A. A., Ismail N. H., **Yousuf S***, “(E)-4-methoxy-N-[(pyridin-4-yl)methylidene]benzohydrazide monohydrate”, *Acta Cryst. E*, **68** o2778 (2012). USA
71. Naz H., Taha M., Rahman A. A., Ismail N. H., **Yousuf S***, “Methyl(E)-3,5-dimethoxy-2-[[2-(4-methoxybenzo-yl)hydrazin-1-ylidene]methyl]benzoate”, *Acta Cryst. E*, **68** o2671 (2012). USA
72. Saad S. M., Ftima Itrat., Perveen S., Khaild K. M., **Yousuf S***, “N-(3-Chlorobenzylidene)-4-hydroxybenzohydrazide”, *Acta Cryst. E*, **68** o3499 (2012). USA
73. **Yousuf S***, Shah S., Ambreen N., Khaild K. M., Ahmed S.,” 2-(5-Chloro-1,3-benzothiazol-2-yl)-4-methoxyphenol”, *Acta Cryst. E*, **68** o2877 (2012). USA
74. **Yousuf S***, Shah S., Ambreen N., Khaild K. M., Ahmed S.,” 5-Chloro-2-(3,4,5-trimethoxyphenyl)-1,3-benzothiazol”, *Acta Cryst. E*, **68** o3057 (2012). USA
75. **Yousuf S.**, Shah S., Ambreen N., Khaild K. M., Ahmed S.,” 5-Chloro-2-phenyl-1,3-benzothiazol”, *Acta Cryst. E*, **68** o2799 (2012). USA
76. Sharif H. M. A., Alvi D. A., **Yousuf S***, “2-[(E)-(Nephthalen-2-yl) iminomethyl] phenol”, *Acta Cryst. E*, **68** o2629 (2012). USA
77. **Yousuf S***, Zeb. A., Batoool F., Basha, F. Z., “2-(2-Methyl-5-nitro-1H-imidazol-1-yl)ethyl methanesulfonate”, *Acta Cryst. E*, **68** o2781 (2012). USA
78. **Yousuf S***, Mukhtar A., Ambreen N., Saad S. M., Khaild K. M., “Ethyl(E)-3-(6-methyl-4-oxo-4H-chromen-3-yl)prop-2-enoate”, *Acta Cryst. E*, **68** o2948 (2012). USA

79. Arshad M., **Yousuf S***, Saeed S., Basha, F. Z., "4-Methoxy-N-(4-methoxy-2-nitrophenyl)benzamide", *Acta Cryst. E*, **68** o3028 (2012). USA
80. **Yousuf S***, Mukhtar A., Ambreen N., Saad S. M., Khaile K. M., "6-Methyl-4-oxo-4H-chromene-3-carbaldehyde", *Acta Cryst. E*, **68** o2920 (2012). USA
81. Zafar S., Bibi M., **Yousuf S***, Choudhary M. I., "New metabolites from fungal biotransformation of an oral contraceptive agent: methyloestrenolone, *Steroids*, **78** 418-425 (2013). USA
82. Choudhary M. I., Khan N., Ahmad, M., **Yousuf S.**, Fun Hoong-Kun, Soomro S., Asif M., Mesaik M. A., Shaheen F., "New inhibitors of ROS generation and T cell proliferation from *Myrtus communis*, *Org. Lett.*, **15** (8) 1862–1865 (2013). USA
83. Khan B., Nadeem S., Shah M.R., Hoda S., "Novel 1,2,3-triazole-bisphenol-based macrocycle synthesized through click chemistry", *Lett. Org. Chem.*, **10** (10) 752–757 (2013). The Netherlands
84. Hoog-kun Fun., Wan-Sin Loh., Johnson A., **Yousuf S.**, Ededet Eno., "Bis(3,5-diamino-4 H-1,2,4-triazol-1-ium)3,4-dioxycylobutane-1,2-diolate" *Acta Cryst. E*, **69** o353- o354 (2013). USA
85. Syukri M., Baharudin., Taha M., Ismail N. H., Ali Shah S. A., **Yousuf S***, "(E)-N'-(4-Cholorobenzylidene)-2-methoxybenzohydrazide" *Acta Cryst. E*, **69** o276 (2013). USA
86. Taha M., Syukri M., Baharudin., Ismail N. H., Ali Shah S. A., **Yousuf S***, "(E)-2-Methoxy-N'-(2,4,6-trihydroxybenzyl-idene)benzohydrazide" *Acta Cryst. E*, **69** o277 (2013). USA
87. Mabkhot N Y., Barakat A., Alatibi F., Choudhary M. I., **Yousuf S***, "(E)-Ethyl-2-anilino-5-[3-(dimethylamino)acryloyl]-4-phenyl-thiophene-3-carboxylate" *Acta Cryst. E*, **69** o351 (2013). USA
88. **Yousuf S***, Shah S., Ambreen N., Khaile K. M., Ahmed S., "5-Chloro-2-(4-phenyl-1,3-benzothiazol)", *Acta Cryst. E*, **69** o360 (2013). USA
89. Khaile K. M ., Khan T., Ambreen N., **Yousuf S.**, Morales A G., "An expeditious solvent free approach towards the synthesis of smaller ring sized aromatic exocyclic amin's Schiff bases" *J. Chem. Soc. Pak*, **1**(35) 188-191 (2013). Pakistan
90. Taha M., Ismail N. H., Jaafar F.M., Khaile K. M., **Yousuf S***, "(E)-2,4-Dimethyl-N'-(2-methylbenzylidene)benzohydrazide" *Acta Cryst. E*, **69** o400 (2013). USA
91. Barakat A., Al-Majid A. M., Mabkhot N. Y., Choudhary M. I., **Yousuf S***, "Dimethyl 2-(4-methylbenzylidene)malonate", *Acta Cryst. E*, **69** o919 (2013). USA
92. Saad S.M., Khan I., Haider S.M., Perveen S., Khaile K. M., **Yousuf S***, "2-[[Dimethylamino)methylidene]-amino}-5-nitrobenzotrile", *Acta Cryst. E*, **69** o75 (2013). USA
93. Saad S. M., Khan I., Perveen S., Khaile K. M., **Yousuf S***, "N-(2,5-Dimethoxyphenyl)-6-nitro-quinazolin-4-amin", *Acta Cryst. E*, **69** o8 (2013). USA
94. **Yousuf S***, Khaile K. M., Naz F., Parveen S., Miana G. A., "1-(2-Methyl-5-nitro-1 H –imidazol-1-yl) acetone" *Acta Cryst. E*, **69** o552 (2013). USA
95. Aslam M., Anis I., Afza N., Hussain A., Iqbal L., Lateef M., Noreen Z., Hussain M. T., **Yousuf S.**, "Synthesis, single crystal X-ray and biological evaluation of amino-phenol based Schiff bases", *Journal of the Chilean Chemical Society*, **58**(3) 1867-1871 (2013). USA
96. Khan W.S., Zaidi H.J., **Yousuf S.**, Khaile K. M., Ambreen N., Khan Momin., Parveen S., Miana G A., "Synthesis X-Ray Crystallography and Antimicrobial Activity of Protected and Deprotected Amides" *J. Chem. Soc. Pak, J. Chem. Soc. Pak*, **35**(3) 875-885 (2013). Pakistan

97. Taha M., Ismail N. H., Jamil W., **Yousuf S.**, Jaffar F. M., Ali M. I., Kashif S. M., Hussain E., "Synthesis, evaluation of antioxidant activity and crystal structure of 2,4-dimethylbenzoylhydrazones". *Molecules*, **18** 10912-10929 (2013). Switzerland
98. Mabkhot, Y. N., Barakat, A., Al-MAjid A. M., Alshahrani, S., **Yousuf S.**, Choudhary M. I. "Synthesis, reactions and biological activity of some new *bis*-heterocyclicing compounds containing sulphur atom. *Chemistry Central Journal*, **7(112)** (2013). USA
99. Hussain Z., Hussain E., Siddiqui H., Choudhary M. I., **Yousuf S***, "2,6-Dibromo-*N*-(prop-2-ynyl)benzamide". *Acta Cryst. E*, **69** o1140 (2013). USA
100. Mabkhot Y. N., Al-Showlman S. S., Barakat A., Choudhary M. I., **Yousuf S***. "3,4-Dimethylthieno[2,3-*b*]thiophene-2,5-dicarbonitrile". *Acta Cryst. E*, **69** o1272 (2013). USA
101. Mabkhot Y. N., Altaibi F., Barakat A., Choudhary M. I., **Yousuf S***. "Ethyl 4-acetyl-5-anilino-3-methyl-thiophene-2-carboxylate". *Acta Cryst. E*, **69** o1049 (2013). USA
102. Taha M., Ismail N. H., Jaafer F. M., Aziz A. N., **Yousuf S***, Choudhary M. I., "(*E*)-*N'*-(3,4-Dihydroxybenzylidene)2,4-dimethylbenzohydrazide monohydrate", *Acta Cryst. E*, **69** o490 (2013). USA
103. Taha M., Naz H., Rasheed S., Ismail N. H., Rahman A. A., **Yousuf, S.**, Choudhary M. I., "Synthesis of 4-methoxybenzoylhydrazones and evaluation of their antiglycation activity", *Molecules*, **19(1)** 1286-1301 (2014). Switzerland
104. Al-Noaimi M. , Choudhary M. I., Awwadi F. F., Talib W. H., Hadda T. B., **Yousuf S.**, Sawafta A., Warad I. "Characterization and biological activities of two copper(II) complexes with dipropylentriamine and diamine as ligands", *Spectrochimica Acta Part A-Molecular and Biomolecular Spectroscopy*, **5(127)** 225-30 (2014). USA
105. El Ashry H. E. S., **Yousuf, S.**, Hassan H. H., Zahran M. K., Habishy A. S., "Synthesis and single-crystal X-ray diffraction studies of an arylidene-thiosemicarbazone and hydrazonyl-phenylthiazole", *Lett. Org. Chem.*, **11** 101-108 101 (2014). The Netherlands
106. Bashir S., Alam M., Adhikari A., Shresta R. L., **Yousuf S.**, Ahmed B., Perveen S., Aman A., Choudhary M. I., "New antileishmanial sesquiterpene coumarins from *Ferula narthex* Boiss", *Phytochem. Lett.*, **9(1)** 46-50 (2014). USA
107. Yahia M., Barakt A., Al-Majid A. M., Barakat A., Choudhary M. I., **Yousuf S.**, "Crystal structure of 1-(5-Acetyl-3,4-dimethyl-thieno[2,3-*b*]thiophen-2-yl)-ethanone", *Z. Crystallographie-NCS*. **229** 39 (2014). Germany
108. Mabkhot Y. N., Fahd Aldosari, Al-Showiman S. S., Barakat A., Choudhary M. I., **Yousuf S.**, "Synthesis, characterization and X-ray crystal structure of 1,1'-(3,4-diphenylthieno[2,3-*b*]thiophene-2,5-diyl)diethanone", *Journal of Chemistry*, 2014 (2014), DOI: 10.1155/2014/504860 UK
109. Barakt A., Al-Majid A. M., Al-Najjar H. J., Yahia M., Javaid S. **Yousuf S.**, Choudhary M. I., "The zwitterionic pyrimidinium adducts as antioxidants with therapeutic potential as nitric oxide scavenger", *Eur. J. Chem.*, **84(12)** 146 (2014). UK
110. Al-Majid A. M., Islam M. S., Barakat A., Al-Qahtani N. J., **Yousuf S.**, Choudhary M. I., "Tandem Knoevenagel–Michael reactions in aqueous diethylamine medium: A greener and efficient approach toward *bis*-dimedone derivatives", *Arab. J. Chem.*, 2014 <http://www.sciencedirect.com/science/article/pii/S1878535214000768> USA
111. Mabkhot Y. N., Barakat A., **Yousuf S.**, Choudhary M. I., Frey W., Hadda T. B., Mubarak S. M., "Substituted thieno[2,3-*b*]thiophenes and related congeners: synthesis, β -glucuronidase inhibition activity, crystal structure, and POM analyses", *Bioorg. Med. Chem.*, **22(23)** 6715-6725 (2014) USA

112. Shahid H. A., Hussain E., Jahangir S., **Yousuf S***, "1-(2-Methyl-5-nitro-1*H*-imidazol-1-yl)-propane-2-yl acetate", *Acta Cryst. E*, **70** o294 (2014). USA
113. Aziz A. N., Taha M., Ismail N. H., Anour E. H., **Yousuf S.**, Jamil W., Awang K., Ahmet N., Khan K. M., Kashif S. M., "Synthesis, crystal structure, DFT studies and evaluation of the antioxidant activity of 3,4-dimethoxybenzenamine Schiff bases", *Molecules*, **19** 8414-8433 (2014). Switzerland
114. Taha M., Shah S. A. A., Sultan S., Ismail N. H., **Yousuf S***, "2-[[2-(2-Hydroxy-5-methoxybenzyl-*idene*)hydrazine-1-ylidene]methyl]-4-methoxyphenol", *Acta Cryst. E*, **70** o131 (2014). USA
115. Khan K. M., Hussain S., Perveen S., Rahim F., **Yousuf S.**, Hussain E., "Sodium bromate/sodium hydrogen sulfites: a new catalyst for the synthesis of quinoxaline derivatives", *Lett. Org. Chem.*, **11** 426-431 (2014). The Netherlands
116. Baydon E., Bano S., Atia-tul-Wahab, Jabeen A., **Yousuf S.**, Mesaik A., Smith C., Choudhary M. I., "Fungal transformation and T-cell proliferation inhibitory activity of melengstrol acetate and Its metabolites", *Steroids*, **86**, 56-61 (2014). USA
117. Assem B., Al-Majid A. M., Gehad L., Fiza A., **Yousuf S.**, Choudhary M.I., Sajda A., Zaheer-Ul Haq., "Synthesis and dynamics studies of barbituric acid derivatives as urease inhibitors", *Chemistry Central Journal*, **9**, (2015) USA
118. Taha M., Ismail N. H., Baharudin M. S., Lalani S., Mahboob S., Khan K. M., **Yousuf S.**, Siddiqui S., Rahim F., Choudhary M. I., "Synthesis and crystal structure of 2-methoxybenzoylhydrazones and evaluation of their α -glucosidase and urease inhibition potential", *Med. Chem. Res.*, **24**, 1310-1324 (2015). Germany
119. Assem B., Mohammad Shahidul I., Al-Majid A. M., Ghabbour H. A., Fun H. K., Javed K., Imad R., **Yousuf S.**, Choudhary M. I., Wadood A., "Synthesis, *in vitro* biological activities and *in silico* study of dihydropyrimidines derivatives", *Bioorg. Med. Chem.*, **23**, 6740-6748 (2015). USA
120. Barakat A., Soliman S. M., Al-Majid A. M., Lotfy G., Ghabbour H. A., Fun H. K., **Yousuf S.**, Choudhary M. I., Wadood A., "Synthesis and structure investigation of novel pyrimidine-2,4,6-trione derivatives of highly potential biological activity as anti-diabetic agent", *J. Mol. Struc.*, **1098**, 365-376 (2015). The Netherlands
121. Siddiqui S., Erharuyi O., Falodun A., Choudhary M.I., **Yousuf S***, "Crystal structure of (3*S**,4*S**,4*aS**,5*R** 6*R**,6*aS**,7*R**,11*aS**,11 b*R**)-5,6-bis(benzoyloxy)-3,4*a*-dihydroxy-4,7,11*b*-trimethyl-1,2,3,4,4*a*,5,6,6*a*,7,11,11*a*,-11*b*-dodecahydrophenanthro[3,2-*M*furan-4-carboxylic acid methanol monosolvate", *Acta Cryst E. Crystallographic Comm.*, **71** O739 (2015). USA
122. Mabkhot Y. N., Al-Showiman S. S., Barakat A., **Yousuf S.**, Choudhary M. I., "Regioselective synthesis and crystal structure of ethyl-4-acetyl-5-((2-ethoxy-2-oxoethyl)thio)-3-hydroxythiophene-2-carboxylate, C₁₃H₁₆O₆S₂", *Z. Naturforsch.-NCS.*, **230** 241-242 (2015). UK
123. Mabkhot Y. N., Al-Showiman S. S., Barakat A., **Yousuf S.**, Choudhary M. I., "Crystal structure of 1-acetylimidazolidine-2,4-dione monohydrate, C₅H₈N₂O₄", *Z. Naturforsch.-NCS.*, **230**, 255-256 (2015). UK
124. **Yousuf S***, Bano H., Muhammad M. T., Khan K. M., "Crystal structure of 2-[2-(benzyloxy)benzylidene]malononitrile", *Acta Cryst E. Crystallographic Comm.*, **71**, o560 (2015). USA
125. Khan B., Minhaz A., Ali I., Nadeem S., **Yousuf S.**, Ishaq M., Shah MR., "Fluorescent supramolecular tweezers for selective recognition of cephradine", *Tett. Lett.*, **56**, 581-585 (2015). The Netherlands

126. Khan M. A., Fazal ur Rehman S., Hameed A., Kousar S., Dalvandi K., **Yousuf S.**, Choudhary M. I., Bashra F. Z., "Regioselective synthesis of novel 2,3,4,4a-tetrahydro-1H-carbazoles and their cholinesterase inhibitory activities", *RSC Adv.*, **5** 59240-59250 (2015). UK
127. Mabkhot Y. N., Aldawsari F. D., Showiman S. S., Barakat A., Soliman S. M., Choudhary M. I., **Yousuf S.**, Mubarak M. S., Benm Hadda T., "Novel enamione derived from thieno [2,3-b] thiene: Synthesis, x-ray crystal structure, HOMO, LUMO, NBO analyses and biological activity", *Chemistry Central Journal*, **9** 24 (2015). USA
128. **Yousuf S***, Hussain S., Khan K. M., Choudhary M. I. "Crystal structure of methyl 2-(7-hydroxy-2-oxo-2H-chromen-4-yl)acetate, *Acta Cryst E. Crystallographic Comm.*, **71**, o677-o678 (2015). USA
129. Bano S., **Yousuf S***. "Crystal structure of *p*-toulenesulfonylmethyl isocyanide", *Acta Cryst E. Crystallographic Comm.*, **71**, o412 (2015). USA
130. Barakat A., Al-Majid A. M., Islam M. S., Warad I., Masand V. H., **Yousuf S.**, Choudhary M. I., "Molecular structure investigation and biological evaluation of Michael adducts derived from dimedone", *Res. Chem. Intermed.*, **42**, 4041-4053 (2016). USA
131. Islam M. S., Barakat A., Al-Majid A. M., Ghabbour H. A., Rahman A. F. M. M., Javaid K., Imad R., **Yousuf S.**, Choudhary M. I., "A concise synthesis and evaluation of new malonamide derivatives as potential alpha-glucosidase inhibitors", *Bioorg. Med. Chem.*, **24**, 1675-1682 (2016). USA
132. Mabkhot Y. N., Aldawsari F. D., Al-Showiman S. S., Barakat A., Soliman S. M., Choudhary M. I., **Yousuf S.**, Ben Hadda T., Mubarak M. S., "Synthesis, molecular structure optimization, and cytotoxicity assay of a novel 2-acetyl-3-amino-5[(2-oxopropyl)sulfonyl]-4-cyanothiophene", *Molecules.*, **21**(2), (2016) (In press). Doi: 10.3390/molecules21020214. Switzerland
133. Siddiqui H., Bashir M. A., Javaid K., Nizamani A., Bano H., **Yousuf S**, Rahman A. U., Choudhary M. I., "Ultrasonic synthesis of tyramine derivatives as novel inhibitors of α -glucosidase *in vitro* ", *J. Enzyme Inhib. Med. Chem.*, **25**, 1-12. (2016). UK
134. Faroque M. U., **Yousuf S***, Zafar S., Choudhary M. I., Ahmed M., "Transferred multipolar atom model for 10 β ,17 β -dihydroxy-17 α -methylestr-4-en-3-one dihydrate obtained from the biotransformation of methyloestrenolone", *Acta Crystallogr C Struct. Chem.*, **72**(5), 398-404 (2016). doi: 10.1107/S2053229616005441. USA
135. Ahmad M. S., Zafar S., **Yousuf S.**, Atia-Tul-Wahab, Atta-ur-Rahman, Choudhary M. I., "Biotransformation of 6-dehydroprogesterone with *Aspergillus niger* and *Gibberella fujikuroi*", *Steroids*, **112**: 12-67 (2016). The Netherlands
136. Bano S., Atia-tul-Wahab, **Yousuf S.**, Jabeen A., Mesaik M. A., Rahman A. U., Choudhary M. I., "New anti-inflammatory metabolites by microbial transformation of medrysone.", *PLoS One.* **22**, **11**(4): e0153951. (2016). USA
137. Siddiqui M., Ahmad M. S., Atia-tul-Wahab, **Yousuf S.**, Fatima N., Shaikh N. N., Atta-ur-Rahman, Choudhary M. I., "Biotransformation of a Potent Anabolic Steroid, Mibolerone, with *Cunninghamella blakesleeana*, *C. Echinulata*, and *Macrophomina phaseolina*, and Biological Activity Evaluation of its Metabolites". *PLoS One.* **22**, **12**(2): e0171476. (2017). USA
138. Shahid A., Noureen S., Choudhary M. I., Yousuf S., Ahmed M. "Crystal structure and electrostatic properties of prednisolone acetate studied using a transferred multipolar atom model", *Acta Crystallogr C Struct. Chem.*, **73**, 430-436 (2017). USA
139. Kezetas J. J. B., Madjouk, S. D., Kumar, R., Ali, M. S., Njakou, B. L., Yousuf, S. Crystal structure and Hirshfeld surface analysis of 3-oxours-12-ene-27a,28-dioic acid (quafrinoic acid), *Acta Crystallographica Section E: Crystallographic Communications*, **73**, 763-766 (2017). USA

140. Kumar R., Hussain S., Khan K. M., Perveen S., **Yousuf S***. "Crystal structure and Hirshfeld surface analysis of 1-(4-chlorophenyl)-2-[5-(4-chlorophenyl)-1,3,4-oxadiazol-2-yl]sulfanylethanone", *Acta Crystallographica Section E: Crystallographic Communications*, **73**, 524-527 (2017). USA
141. Bano H., Hussain S., Khan K. M., Perveen S., **Yousuf S***. "Crystal structure and Hirshfeld surface analysis of 1-(4-bromophenyl)-2-[5-(pyridin-3-yl)-1,3,4-oxadiazol-2-yl]sulfanylethan-1-one", *Acta Crystallographica Section E: Crystallographic Communications*, **73**, 623-626 (2017). USA
142. Al-Majid A. M., Islam M. S., Barakat A., **Yousuf S.**, Choudhary M. I., "Tandem Knoevenagel–Michael reactions in aqueous diethylamine medium: A greener and efficient approach toward bis-dimedone derivatives", *Arabian Journal of Chemistry*, **10**(2), 185-193 (2017). The Netherlands
143. Bhatti H. A., Khatoon M., Al-Rashida M., Bano H., Iqbal N., Zaib-un-Nisa, **Yousuf S.**, Khan K. M., Hameed A., "Facile dimethyl amino group triggered cyclic sulfonamides synthesis and evaluation as alkaline phosphatase inhibitors", *Bioorganic Chemistry*, **71**, 10-18 (2017). USA
144. Barakat A., Islam M. S., Al-Majid A. M., Soliman S. M., Ghaboour H. A., **Yousuf S.**, Choudhary M. I., Ul-Haq Z., "Synthesis, molecular structure, spectral analysis, and biological activity of new malonamide derivatives as α -glucosidase inhibitors", *Journal of Molecular Structure*, **1134**, 253-264 (2017). The Netherlands
145. Barakat A., Al-Majid A. M., Soliman S. M., Islam M. S., Ghawas H. M., **Yousuf S.**, Choudhary M. I., Wadood A., "Monoalkylated barbiturate derivatives: X-ray crystal structure, theoretical studies, and biological activities", *Journal of Molecular Structure*, **1134**, 253-264 (2017). The Netherlands
146. Barakat A., Ali M., Al-Majid A. M., **Yousuf S.**, Choudhary M. I., Khalil R., Zaheer Ul-Haq, "Synthesis of thiobarbituric acid derivatives: *In vitro* α -glucosidase inhibition and molecular docking studies", *Bioorganic Chemistry*, **75**, 99-105 (2017). USA
147. Choudhary M. I., Siddiqui M., **Yousuf S.**, Ahmad M. S., Choudhry H., "Bio-catalytic structural transformation of anti-cancer steroid, drostanolone enanthate with *Cephalosporium aphidicola* and *Fusarium lini*, and cytotoxic potential evaluation of its metabolites against certain cancer cell lines, *Frontiers in Pharmacology*, **8**(DEC), 900 (2017). Switzerland
148. Shahid H. A., Jahangir S., Hanif M., **Yousuf S.**, Qureshi N., "Frontiers in Pharmacology, **8**(DEC),900, Open Access Synthesis, spectroscopic and electrochemical characterization of secnidazole esters", *Journal of Molecular Structure*, **1149**, 792-802 (2017). The Netherlands
149. Ahmad M. S., **Yousuf S.**, Atia-tul-Wahab, Atta-ur-Rahman, Choudhary, M. I. Biotransformation of anabolic compound methasterone with *Macrophomina phaseolina*, *Cunninghamella blakesleeana*, and *Fusarium lini*, and TNF- α inhibitory effect of transformed products, *Steroids* **128**, 75-84 (2017). The Netherlands
150. Barakat A., Al-Majid, A. M., Soliman S. Yousuf, S.Choudhary M. I.,Wadood A., "Monoalkylated barbiturate derivatives: X-ray crystal structure, theoretical studies, and biologicalactivities", *Journal of Molecular Structure*, **1141**, 624-633 (2017). The Netherlands
151. Madjouka S. D., Kumar R., Njakou B. L., Yousuf S., Kezetas, J. J. B., "Crystal structure and Hirshfeld surface analysis of 3-oxours-12-ene-27a,28-dioic acid (quafrinoic acid), *Acta Crystallographica Section E: Crystallographic Communications*, **73**, 763-766 (2017). USA

152. Farooq R., Hussain N., **Yousuf S.**, Atta-Ur-Rahman, Choudhary M. I., "Microbial transformation of mestanolone by: *Macrophomina phaseolina* and *Cunninghamella blakesleeana* and anticancer activities of the transformed products", *RSC Advances*, **8(39)**, 21985-21992 (2018). UK
153. Kumar K. O, Rehman M. U., Choudhary M. I., **Yousuf S***, "Crystal structure and Hirshfeld surface analysis of the naturally occurring cassane-type diterpenoid, 6 β -cinnamoyl-7 β -hydroxyvouacapen-5 α -ol, Ogbeide", *Acta Crystallographica Section E: Crystallographic Communications*, **74**, 385-389 (2018). USA
154. Rashid H. U., Khan S. W., Khan M., Tariq M., Yousuf S., "Synthesis, Characterization, X-Ray Crystallography, and Antileishmanial Activities of N-Linked and O-Linked Glycopyranosides", *Journal of Chemistry*, 9648710 (2018). USA
155. Shahid A., Aziz A., Noureen S., **Yousuf S***, Choudhary, M. I., "Biotransformation, spectroscopic investigation, crystal structure and electrostatic properties of 3, 7 α -dihydroxyestra-1, 3, 5(10)-trien-17-one monohydrate studied using transferred electron-density parameters", *Acta Crystallographica Section C: Structural Chemistry*, **74(5)**, 534-541 (2018). USA
156. Siddiqui R., Iqbal U., Saify Z. S., Akhter S., **Yousuf, S.**, "Crystal structure and Hirshfeld surface analysis of 3-octyl-4-oxo-2, 6-bis(3, 4, 5-trimethoxyphenyl)piperidinium chloride", *Acta Crystallographica Section E: Crystallographic Communications*, **74**, pp. 931-934 (2018). USA
157. Rasheed S., Sánchez S. S., **Yousuf S.**, Honoré S. M., Choudhary M. I., "Drug repurposing: *In-vitro* anti-glycation properties of 18 common drugs", *PLoS ONE*, **13(1)**, 019050 (2018). USA
158. Gondal H. Y., Cheema Z. M., Zaidi J. H., **Yousuf S.**, Choudhary, M. I., "Facile synthesis of α -alkoxymethyltriphenylphosphonium iodides: new application of PPh₃/I₂", *Chemistry Central Journal*, **12(1)**, 62 (2018). USA
159. Islam, M. S., Barakat, A., Al-Majid, A. M., Khalil, R., Ul-Haq, Z., **Yousuf, S.**, "Catalytic asymmetric synthesis of indole derivatives as novel α -glucosidase inhibitors *in-vitro*", *Bioorganic Chemistry*, **79**, 350-354 (2018). USA
160. Sema D. K., Meli Lannang A., Tatsimo S. J. N., Sewald N., Choudhary M. I., "New indane and naphthalene derivatives from the rhizomes of *Kniphofia reflexa* Hutchinson ex Codd", *Phytochemistry Letters*, **26**, 78-82 (2018). UK
161. Arbain D., Nofrizal S. N., **Yousuf S.**, Choudhary M. I., "Bicyclo[3.2.1]octanoid neolignans from Indonesian red beetle leaves (*Piper crocatum* Ruiz & Pav.)", *Phytochemistry Letters*, **24**, 163-166 (2018). UK
162. Bankeu J. J. K., Madjouka S., Feuya G. R. T., Ngouela A. S., Ali M. S., **Yousuf, S.**, "Pobeguine: A monoterpene indole alkaloid and other bioactive constituents from the stem bark of *Nauclea pobeguini*", *Zeitschrift für Naturforschung*, Section C Journal of Biosciences, **73(9-10)**, 335-344 (2018). Berlin
163. Hussain E., Kumar R., Choudhary M. I., **Yousuf S***, "Crystal Engineering of Naturally Occurring Seselin to Obtain a Co-crystal with Enhanced Antileishmanial Activity, Hirshfeld Surface Analysis and Computational Insight", *Crystal Growth and Design*, **18(8)**, 4628-4636 (2018). USA
164. Hussain N., Hameed, A., Ahmad, M. S., **Yousuf, S.**, Ali, Z., Rahman, M. H., Choudhary, M. I. "New iridoids from *Lyonia ovalifolia* and their anti-hyperglycemic effects in mice pancreatic islets" *Fitoterapia*, **131**, 168-173 (2018). The Netherlands
165. Gondal H. Y., Cheema Z. M., Zaidi J. H., **Yousuf S.**, Choudhary M. I. "Facile synthesis of α -alkoxymethyltriphenylphosphonium iodides: new application of PPh₃/I₂". *Chemistry Central Journal*, **12(1)**, 62, (2018). USA

166. El-khateeb M., Harb M., Mansour A., **Yousuf S.**, “Photochemical Substitution of a Single CO Ligand of CpFe (CO) 2SeC (Y) Y'Ar [(Y) Y'=(O) O,(S) O and (S) S] by EPh₃ (E= P, As, Sb)”. *Inorganica Chimica Acta*, Article in Press, 24 February, Pages 694-697, (2019). *The Netherlands*
167. Dongmo O. L. M., Epoh N. J., Tadjoua H. T., **Yousuf S.**, Telefo P. B., Tapondjou L. A., Choudhary M. I. “Acute and sub-acute toxicity of the aqueous extract from the stem bark of *Tetrapleura tetrapleura* Taub. (Fabaceae) in mice and rats”. *Journal of Ethnopharmacology*, (236), Pages 42-49, (2019). *The Netherlands*
168. Muhammad A. J., Ahmed D., **Yousuf S.**, Tabassum N., Qamar M. T. “Synthesis, crystal structures, Hirshfeld surface analysis and spectroscopic studies of two Schiff bases of anisaldehyde and their urease and acetylcholinesterase inhibitory and antioxidant properties”. *Heliyon*, 5(5), e01758, (2019). *USA*
169. Wajid A., Ahmad M. S., **Yousuf S.**, Simjee S.U., Nisar U., Rahman A.-U., “Macrophomina phaseolina mediated intramolecular trans-esterification of picrotoxinin and study of convulsant activity of transformed product”, *Journal of Molecular Structure*, 1180, Pages 499-504, (2019). *The Netherlands*
170. Wajid A., Ahmad M.S., **Yousuf S.**, Atia-tul-Wahab, Jabeen, A., Rahman A.-U., Choudhary M.I., “Biotransformation of progestonic hormone dydrogesterone with *Macrophomina phaseolina*, and study of the effect of biotransformed products on phagocytes oxidative burst”. *Steroids*, 67-72, (2019). *The Netherlands*
171. Kumar R., Ogbeide, K. O., Rehman M-U., Owolabi B., Falodun A., Choudhary M. I., **Yousuf S***. “Crystal structure, Hirshfeld surface analysis and electrostatic potential study of naturally occurring cassane-type diterpenoid Pulcherrimin C monohydrate at 100 K” *Acta Crystallographica Section E: Crystallographic Communications*, 75, 119-123, (2019). *UK*
172. Fadu, E., Nizaman, A., Rashee, S., Adhikar, A., **Yousuf S.**, Parveen S., Gören N., Alhazmi H. A., Choudhary M. I., Khalid A. “Anti-glycating and anti-oxidant compounds from traditionally used anti-diabetic plant *Geigeria alata* (DC) Oliv. & Hiern” Article in Press, *Natural Product Research*, (2019). *The Netherlands*
173. Qamar S., Akhter Z., **Yousuf S.**, Bano H., Perveen F., “Synthesis, structural characterization, DNA binding and antioxidant studies of 4,4'-Nitrophenoxyaniline derived azo dyes”, *Journal of Molecular Structure*, 1197, 345-353, (2019). *The Netherlands*
174. Akhter S., Choudhary M. I., Siddiqui S. **Yousuf S***, “Crystal structure and Hirshfeld surface analysis of N-(2-chlorophenylcarbamothioyl)-4-fluorobenzamide and N-(4-bromophenylcarbamothioyl)-4-fluorobenzamide”, *Acta Crystallographica Section E: Crystallographic Communications*, 75, 1026-1029, (2019). *US*
175. Munir N., Masood S., Liaqat F., Tahir M. N., **Yousuf S***, Kalsoom S., Mughal E. U., Summra S. H., Maalik A., Zafar M. N., “Synthesis of new Pro-PYE ligands as co-catalysts toward Pd-catalyzed Heck-Mizoroki cross coupling reactions”, *RSC Advances*, 9(65), 37986-38000, (2019). *UK*
176. Lotfy G., Aziz Y. M. A., Said M. M., Ashry E. S. H. El., Barakat E. S. H. A., Ghabbour H.A., **Yousuf S.**, Ul-Haq. Z, Choudhary, M. I., “Synthesis of Oxindole Analogues, Biological Activity, and *In Silico* Studies”, *Chemistry Select*, 4(35), 10510-10516, (2019). *USA*
177. Barakat A., Soliman S. M., El-Faham, A., Ali, M., Al-Majid, A. M., Yousuf, S., Choudhary, M. I., “Three Multi-Components Reaction: Synthesis and X-Ray Single-Crystal of Hydroacridinone-Based Hydrazino-S-Triazine Derivative as a New Class of Urease Inhibitor”, *Crystals*, 10(1), 14, (2020). *Switzerland*
178. Fatima S. S., Kumar R., Choudhary M. I., **Yousuf S***, “Crystal engineering of exemestane to obtain a co-crystal with enhanced urease inhibition activity”, *IUCrJ*, 7, 105–112, (2020). *USA*

- 179 Boraie A. T. A., Sarhan A. A. M., **Yousuf S.**, Barakat, A., "Synthesis of a new series of nitrogen/sulfur heterocycles by linking four rings: Indole; 1,2,4-triazole; pyridazine; and quinoxaline", *Molecules*, **25(3)**, 450, (2020) Switzerland
- 180 Altowyan M. S., Ali M., Soliman S. M., Al-Majid A. M., Islam M. S., Yousuf S., Choudhary M. I., Ghabbour H. A., Barakat A., "Synthesis, computational studies and biological activity of oxamohydrazide derivatives bearing isatin and ferrocene scaffolds", *Journal of Molecular Structure*, **1202**, 127372. (2020). The Netherlands
- 181 Tabassum N., Varras P. C., Arshad F., Choudhary M. I., **Yousuf S***, "Biological activity tuning of antibacterial urotropine via co-crystallization: synthesis, biological activity evaluation and computational insight", *CrystEngComm*, **22**, 3439 – 3450, (2020). <https://doi.org/10.1039/D0CE00226G> UK
- 182 Qamar S., Akhter Z., **Yousuf S.**, Perveen, F., "pH-sensitive 4,(4-Nitrophenoxy)benzeneamine) derived azo dye: X-ray crystallographic, DFT and electrochemical studies", *Journal of Molecular Structure*, 1220, art. no. 128667, (2020). DOI: 10.1016/j.molstruc.2020.128667 The Netherlands
- 183 Zia M., Hameed S., Ahmad I., Tabassum N., **Yousuf S.**, "Regio-isomeric isoxazole sulfonates: Synthesis, characterization, electrochemical studies and DNA binding activity", *Journal of Molecular Structure*, **1220**, art. no. 128635, (2020). DOI: 10.1016/j.molstruc.2020.128635 The Netherlands
- 184 Alshahrani S., Soliman S. M., Alamary A. S., Al-Majid A. M., Haukka M., **Yousuf S.**, Barakat, A., "Synthesis of enaminones-based benzo[d]imidazole scaffold: Characterization and molecular insight structure", *Crystals*, **10** (10), 1-14, (2020). DOI: 10.3390/cryst10100955 Switzerland
- 185 Naz S., Uddin N., Ullah K., Haider A., Gul A., Faisal S., Nadhman A., Bibi M., **Yousuf S.**, Ali S., "Homo- and heteroleptic Zinc(II) carboxylates: Synthesis, structural characterization, and assessment of their biological significance in *in vitro* models", *Inorganica Chimica Acta*, **511**, (2020). DOI: 10.1016/j.ica.2020.119849 The Netherlands
- 186 Fadul E., Nizamani A., Rasheed S., Adhikari A., **Yousuf S.**, Parveen S., Gören N., Alhazmi H. A., Choudhary M. I., Khalid A., "Anti-glycating and anti-oxidant compounds from traditionally used anti-diabetic plant *Geigeria alata* (DC) Oliv. & amp; Hiern", *Natural Product Research*, **34** (17), 2456-2464, (2020). DOI: 10.1080/14786419.2018.1542388 The Netherlands
- 187 Boraie A. T. A., Soliman S. M., **Yousuf S.**, Barakat A., "Synthesis single crystal X-ray structure DFT studies and hirshfeld analysis of new benzylsulfanyl- triazolyl-indole scaffold", *Crystals*, **10(8)**, 1-14, (2020). DOI: 10.3390/cryst10080685 Switzerland
- 188 El-khateeb M., Kumar R., Yousuf S., "Half sandwich iron *S*-alkyl dithiocarbonato complexes: Synthesis, characterization and reactivity", *Journal of Molecular Structure*, **1211**, (2020). DOI: 10.1016/j.molstruc.2020.128092 The Netherlands
- 189 Boraie A. T. A., Soliman S. M., **Yousuf S.**, Bibi M., Barakat A., "*N*-acetyl indole linked to a fused triazolo/thiadiazole scaffold: Synthesis, single crystal x-ray structure, and molecular insight", *Crystals*, **10** (7), 1-17., (2020). DOI: 10.3390/cryst10070600 The Netherlands
- 190 Gadallah A. S., Mujeeb-Ur-Rehman, Atta-Ur-Rahman, **Yousuf S.**, Atia-Tul-Waha, Jabeen A., Swilam M. M., Khalifa S. A. M., El-Seedi H. R., Choudhary M. I., "Anti-inflammatory principles from *Tamarix aphylla* L.: A bioassay-guided fractionation study", *Molecules*, **25(13)**, (2020). DOI: 10.3390/molecules25132994 Switzerland
- 191 Sharma A., Barakat A., Al-Rasheed H. H., Al-Majid A. M., **Yousuf S.**, Choudhary M. I., El-Faham A., de la Torre B. G., Albericio F., "Crystal structure and theoretical investigation of thiobarbituric acid derivatives as nonlinear optical (NLO) materials", *Crystals*, **10(6)**, (2020). DOI: 10.3390/cryst10060442 Switzerland

- 192 Ali M., Barakat A., El-Faham A., Al-Majid A. M., **Yousuf S.**, Ashraf S., Ul-Haq, Z., Choudhary M. I., de la Torre B. G., Albericio F., "Enamine barbiturates and thiobarbiturates as a new class of bacterial urease inhibitors", *Applied Sciences*, **10(10)**, (2020). DOI: 10.3390/app10103523 *Switzerland*
- 193 Barakat A., Soliman S. M., Ali M., Elmarghany A., Al-Majid A. M., **Yousuf, S.**, Ul-Haq Z., Choudhary M. I., El-Faham A. "Synthesis, crystal structure, evaluation of urease inhibition potential and the docking studies of cobalt(III) complex based on barbituric acid Schiff base ligand", *Inorganica Chimica Acta*, **503**, (2020). DOI: 10.1016/j.ica.2019.119405 *The Netherlands*
- 194 Naz S., Sirajuddin M., Hussain I., Haider A., Nadhman A., Gul A., Faisal S., Ullah S., **Yousuf S.**, Ali S., "2-Phenylbutyric acid based organotin(IV) carboxylates; synthesis, spectroscopic characterization, antibacterial action against plant pathogens and in vitro hemolysis", *Journal of Molecular Structure*, **1203**, (2020) *The Netherlands*
- 195 Bibi M., Choudhary M. I., **Yousuf S***, "Crystal structure and Hirshfeld surface analysis of the methanol solvate of sclareol, a labdane-type diterpenoid", *Acta Crystallographica Section E: Crystallographic Communications*, **76**, 294-297 (2020). DOI: 10.1107/S2056989020001474 *UK*
- 196 Zulfiqar A., Ahmed D., Fatima R., **Yousuf S.**, "Green synthesis, urease inhibitory activity and antioxidant potential of 4-bromo-2-(((2'-chloro-4'-nitrophenyl)imino)methyl)phenol Schiff base", *Journal of Molecular Structure*, **1202**, (2020). DOI: 10.1016/j.molstruc.2019.127263 *The Netherlands*
- 197 Barakat A., Soliman S. M., Alshahrani S., Islam M. S., Ali M., Al-Majid A. M., **Yousuf S.**, "Synthesis, X-ray single crystal, conformational analysis and cholinesterase inhibitory activity of a new spiropyrrolidine scaffold tethered benzo[b]thiophene analogue", *Crystals*, **10(2)**, (2020). DOI: 10.3390/cryst10020120 *Switzerland*
- 198 Abbas S., Rashid F., Ulker E., Zaib S., Ayub K., Ullah S., Nadeem M. A., **Yousuf S.**, Ludwig R., Ali S., Iqbal J., "Anticancer evaluation of a manganese complex on HeLa and MCF-7 cancer cells: design, deterministic solvothermal synthesis approach, Hirshfeld analysis, DNA binding, intracellular reactive oxygen species production, electrochemical characterization and density functional theory", *Journal of Biomolecular Structure and Dynamics*, (2020). DOI: 10.1080/07391102.2020.1726818 *UK*
- 199 Ali M., Barakat A., El-Faham A., Al-Rasheed H. H., Dahlous K., Al-Majid A. M., Sharma A., **Yousuf S.**, Sanam M., Ul-Haq Z., Choudhary M. I., de la Torre B. G., Albericio F., "Synthesis and characterisation of thiobarbituric acid enamine derivatives, and evaluation of their α -glucosidase inhibitory and anti-glycation activity", *Journal of Enzyme Inhibition and Medicinal Chemistry*, **35(1)**, 692-701, (2020). DOI: 10.1080/14756366.2020.1737045 *UK*
- 200 Kausar N., Ullah S., Khan M. A., Choudhary M. I., **Yousuf, S***, "Celebrex derivatives: Synthesis, α -glucosidase inhibition, crystal structures and molecular docking studies", *Bioorganic Chemistry*, 104499, (2021). *USA*
- 201 Iqbal U., Choudhary M. I., **Yousuf S***, "Synthesis of co-crystals of anti-cancer nandrolone as a potential leads towards treatment of cancer", *Journal of Molecular Structure*, **1224**, 128981 (2021). *The Netherlands*
- 202 Abbas S., Rashid F., Ulker E., Zaib S., Ayub K., Ullah S., Nadeem M. A., Yousuf S., Ludwig R., Ali S., Iqbal J., "Anticancer evaluation of a manganese complex on HeLa and MCF-7 cancer cells: design, deterministic solvothermal synthesis approach, Hirshfeld analysis, DNA binding, intracellular reactive oxygen species production, electrochemical characterization and density functional theory", *Journal of Biomolecular Structure and Dynamics*, **39(3)**, 1068–1081 (2021) *UK*
- 203 Akhter S., Ullah S., Yousuf S., Atia-tul-Wahab, Siddiqui H., Choudhary M. I., "Synthesis, crystal structure and Hirshfeld Surface analysis of benzamide derivatives of thiourea as potent inhibitors of α -glucosidase *in-vitro*", *Bioorganic Chemistry*, **107**, (2021), Article number 104531 *USA*

- | | | |
|-----|---|-------------|
| 204 | Shaheen A., Ashiq U., Jamal R. A., Khan K. M., Gul S., Yousuf S., Ali S. T., "Design and synthesis of fluoroquinolone derivatives as Potent α -Glucosidase inhibitors: in vitro inhibitory screening with <i>In Silico</i> docking studies"; <i>Chemistry Select</i> , 6(10) , 2483 - 249112 (2021). | USA |
| 205 | Bimetallic iron–palladium catalyst system as a lewis-acid for the synthesis of novel pharmacophores based indole scaffold as anticancer agents, Islam M. S., Ali M., Al-Majid A. M., Alamarly A. S., Alshahrani S., Yousuf S., Choudhary M. I., Barakat A., <i>Molecules</i> , 26(82) , (2021) Article number 2212 | Switzerland |

D. INTERNATIONAL PATENTS

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|----|---|-----|
| 1. | Obesity Treatment, M. Iqbal Choudhary, Yousf S., Misha Siddiqui, and Madiha Mukhtar, US Patent Number 10,765,716 B2, Application No. 15/671,191, Date of Patent, September 08, 2020 | USA |
| 2. | Anti-obesity Effect of medicinal Plants (<i>Boroga Officinalis</i> Linn.) Extracts- A Strategy to Control the Epidemic of Metabolic Disorders, M. Iqbal Choudhary, Yousf S., Misha Siddiqui, and Madiha Mukhtar, US-Patent No. 10,426,806 B1, Application No. 16/007,130, Patent Date: 10/01/2019. | USA |
| 3. | Alpha-glucosidase Inhibitors, Al-Majid A. M., Islam M. S., Barakat A., Choudhary M. I., Yousuf S., US Patent Application Number 9802894B2, Date of Patent Oct. 31, 2017. | USA |
| 4. | The Reversal of Insulin Resistance and Dyslipidemia in High-fat Diet-Induced Obese Rat Models by <i>Physalis minima</i> L. Extract., Yousf S., Noshin R., and M. Iqbal Choudhary, US Patent Application Number 16/02202626 A1, Pub. Date of Patent August 04, 2016. | USA |
| 5. | Quinazolines as β -Glucuronidase Novel Inhibitors, M. I. Choudhary, K. M. Khan, N. N. Shaikh, S. M. Saad, S. Yousuf, and Atta-ur-Rahman, US Patent No. US 2014/0256754 A1. Pub. Date of Patent September 11, 2014. | USA |
| 6. | New Formulations Against Cutaneous Leishmaniasis, Atta-ur-Rahman, M. Choudhary M. I., Yousuf S., Samreen, Soomro F. R., Perveen S., US Patent 8,287,921 B1, Date of Patent Oct. 16, 2012. | USA |
| 7. | " Diethyl Ammonium Salts of Phenyl-Substituted Thiobarbituric Acid as Anti-Diabetic Agents ", Al-Majid A. M., Islam M. S., Barakat A., Choudhary M. I., Yousuf S., US Patent Application Number 15147878, Application Docket Number 32693.79, Date of filing: 05 May, 2016. | USA |

E. Lectures in International Conferencs / Workshops

- Invited Lecture in Virtual Conference on Zoom CEFMC-2020, Crystal Engineering: From Molecule to Crystal, June 19-20, 2020, "Biological Activities Tuning of Active Pharmaceutical Ingredients via Co-crystallization".
- Lecture in 16th Conference of the Asian Crystallographic Association (AsCA 2019), UTown, National University Singapore, December 17- 20, 2019, "Crystal Engineering of Natural Products– An Efficient Approach Towards Enhanced Biological Activities".
- Lecture in Chemistry Department, Durham University, UK, 15th August, 2019, entitled, "Role of Crystal Engineering Approach To Manipulate Anti-leishmanial Activities of Natural Products".
- Lecture in 5th Science Technology Exchange Program on Challenges of Communicable- and Non-Communicable Diseases (STEP-5), International Center for Chemical and Biological Sciences, University of Karachi, Karachi, Pakistan, February 27 to March 02, 2019, entitled, "Crystal Engineering Approach To obtain Co-crystals with Improved Anti-leishmanial Activities".
- Asian Symposium on medicinal Plants, Spices and Other Natural Products XVI, December 12-14, 2018, organized by the Ministry of Science, Technology and Resaerch, and Department of Chemistry, University

- of Sri Jayewardenepura, Colombo, Sri Lanka, lecture entitled, “Crystal Engineering of Natural products– An Efficient Approach Towards Enhanced Biological Activities”.
- 2nd South East Asian Conference on Crystal Engineering (SEACCE-2), August 6-9, 2018, organized by Research Centre for Crystalline Materials (RCCM), School of Science and Technology, Sunway University, invited lecture entitled, “Crystallization as Crystal Engineering Approach To obtain Co-crystals with Improved Biological Activities”.
 - SKLEOC-ICCBS Chemistry Forum meeting, January 2-6, 2018, organized by the State Key Laboratory of Elemento-organic Chemistry (SKLEOC), Nankai University, Tianjin, China lecture entitled, “Introduction of Ongoing Research Activities at the Crystallography Laboratory of the ICCBS” was delivered to explore possibilities of collaboration between two institutions.
 - 1st South East Asia Conference on Crystal Engineering (SEACCE), September 5-7, 2016, organized by Department of Chemistry, Sri Jayewardenepura University, Sri Lanka and International Union of Crystallography, invited lecture entitled, “Co-Crystallization- A Crystal Engineering Approach Towards Enhanced Biological Activities”.
 - 5th International Symposium-cum- Training Course on Molecular Medicine and Drug Research, January 12-15, 2015, organized by International Center for chemical and Biological sciences, University of Karachi. Session lecture entitled, “Co-crystallization and Biotransformational Studies of Bioactive Natural Products- Strategies towards Enhanced Bioactivities”.
 - International Pharmacy Conference on “Emerging Fields of Pharmacy”, September 19-21, 2014, organized by Ziauddin Medical University, Department of Pharmacy, Session lecture entitled, “A Nature’s Remedy Based Treatment of Cutaneous Leishmaniasis”.
 - IYCr South Asia Regional Summit on Vistas in Structural Chemistry, April 28-30, 2014, organized by International Center for chemical and Biological sciences, University of Karachi. Session lecture entitled “Discovery of Anti-Leishmanial Leads from Natural Leads”.
 - Two days Workshop related to Single-Crystal X-ray Diffraction Technique, December 19-20, 2013, organized by the Atta-ur-Rahman Institute for Natural Product Discovery (RiND), University Technology Mara (UiTM), lecture entitled, “Fundamental of Single-Crystal X-ray Diffraction Techniques”.
 - Two days Workshop related to Single-Crystal X-ray Diffraction Technique, December 19-20, 2013, organized by the Atta-ur-Rahman Institute for Natural Product Discovery (RiND), University Technology Mara (UiTM), lecture entitled, “How to Grow a Good Quality Single-Crystal?”.
 - 14th Asian Symposium on Medicinal Plants, Spices and Other Natural Products (ASOMPS-XIV), 9-12 December, 2013, Organized by the H.E.J. Research Institute of Chemistry, International Center for chemical and Biological sciences, University of Karachi. Lecture entitled, “Biotransformation of Anabolic Steroid Oxymetholone to obtain some Potent Immunomodulatory and Anti-inflammatory Metabolites”.
 - 4th International Symposium-cum-Training Course on Molecular Medicine and Drug Research, January 7-10, 2013, Organized by the Dr. Panjwani Center for Molecular Medicine and Drug Research, University of Karachi, entitled, “New Formulation Based on *Phytolacca minima* to treat Cutaneous Leishmaniasis”.
 - 13th International Symposium of Natural Product Chemistry, November 22-25, 2012, Organized by the International Center for Chemical and Biological Sciences, H. E. J. research institute of chemistry, University of Karachi, Pakistan, entitled, “Expanding Chemical Space- Recent Examples of Structure Determination of New and Novel Natural Products by Single-Crystal X-Ray Diffraction Studies”.
 - AFRO ASIA Workshop on Advanced Topics in Chemistry, 13 TO 17TH June 2011, Organized by the TWAS Regional Office for Central and South Asia (TWAS-ROCASSA) at: Jawaharlal Nehru Centre for Advanced Scientific Research, Jakkur, Bangalore – 560 064, India, entitled, “Isolation, Structure Elucidation, X-ray Diffraction and Anti-leishmanial Studies of Bioactive Compounds”.
 - International Chemistry Conference and its Role in Science, 4-7 January, 2011, Organized by the Jinnah University for Women, Karachi, entitled, “Bio-transformational Structure Modification and Single-Crystal X-Ray Diffraction Studies of Bioactive Physalins H”.

- 12th International Symposium of Natural Product Chemistry, entitled, November 22-25, 2010, Organized by the International Center for Chemical and Biological Sciences, H. E. J. research institute of chemistry, University of Karachi, Pakistan, entitled, “The Single-Crystal X-Ray Diffraction and Biotransformation Studies of Oxymetholone”.
- 3rd Bi-National Symposium France-Pakistan, Besançon, 15-18 of July, 2010, France, entitled, “Biotransformation and Single-Crystal X-Ray Diffraction Studies on Antileishmanial Physalins H”.
- 11th International Symposium on Natural Product Chemistry, International Center for Chemical and Biological Sciences, H. E. J. Research Institute of Chemistry, University of Karachi, Pakistan, in October 2008, entitled, “Antileishmanial Physalins from *Physalis minima*”.

F. Workshop/ Courses Organized / attended as Resource Person

- Organizer of online course entitled, “Symmetry operations for crystallographers”, by Prof. Dr. Richard C. Garratt, jointly hold by the International Center for Chemical and Biological Sciences, and COMSTECH, Oct. 13 – Dec. 16, 2020.
- Organizer and resource person of the International Workshop entitled, “New Anti-leishmanial Leads from Natural Sources: Concepts and Approaches”, Organized by the Dr. Panjwani Center for Molecular Medicine and Drug Research (International Center for Chemical and Biological Sciences, University of Karachi, Karachi, Pakistan) in collaboration with NTD, A Global Network for Neglected Tropical Diseases, November 8 - 9, 2019.
- Organizer and resource person of the of the 3rd International Workshop on X-Ray Crystallography in Structural Biology, jointly organized by the Dr. Panjwani Center for Molecular medicine and Drug Research, International Center for Chemical and Biological Sciences (ICCBS), Karachi, International Union of Crystallography, and X-ray Diffraction Users Group of Pakistan (XRD-PAK) under the auspices of National Committee of Crystallography, ICCBS, Karachi, Pakistan, October 8-10, 2018.
- Organizer and resource person of the IUCr-UNESCO Open lab in Pakistan, jointly organized by International Center for chemical and Biological sciences, University of Karachi, International Union of Crystallography and UNESCO, ICCBS, Karachi, Pakistan, April 28 May 09: 2014.
- Resource person of the Two days Workshop related to Single-Crystal X-ray Diffraction Technique, Organized by the Atta-ur-Rahman Institute for Natural Product Discovery (RiND), University Technology Mara (UiTM), Malaysia, at Atta-ur-Rahman Institute for Natural Product Discovery (RiND), University Technology Mara (UiTM), Puncak Alam Campus, 42300 Bandar Puncak Alam, Selangor D. E. Malaysia. December 19-20, 2013.
- Resource person of the National workshop on crystallography, single crystal X-Ray determination held at G. C. University Lahore, Pakistan, in August 2008.