

# LIST OF PUBLICATIONS

## A. PEER-REVIEWED RESEARCH PUBLICATIONS:

Total citations = 1211, h-index: 22 (Google Scholar citation index)

| Year  | Publications   | Impact Factor | Published in |
|---|--|---------------|--------------|
| <b>Published, Accepted and Submitted Publications</b> |  |               |              |
| 2018  | 1. Eltayeb Fadul, Arsalan Nizamani , Saima Rasheed, Achyut Adhikari , Sammer Yousuf , Shahida Berzin , Nezhun Gören , M. Iqbal Choudhary , and <b>Khalid A</b> (2018) Identification of Antioxidant and anti-glycation activity of New Geigerianoloid and other natural compounds from <i>Geigeria alata</i> (DC), Oliv & Hiern; <i>Natural Product Research</i> (corresponding author, <b>accepted</b> ). | 1.9           | England      |
|   | 2. Hassan A Alhazmi, Waquar Ahsan, Ibraheem M. Attafi, <b>Khalid A</b> , Siddig I Abdelwahab, Mohammad Al Bratty, Shahnaz Sultana (2018) Elemental Profiling of Smokeless Tobacco Samples using Inductively Coupled Plasma-Mass Spectrometry (ICP-MS), and Assessment of their Health Hazards, <i>Pharmacog Magazine</i> ( <b>accepted</b> ).  | 1.52          | INDIA        |
|   | 3. <b>Khalid A</b> , Hassan A. Alhazmi, Ashraf N. Abdalla, Waquar Ahsan, Shahnaz Sultana, Mohammad Al Bratty (2018) Cytotoxicity Evaluation of Smokeless Tobacco Samples of Jazan Region of Saudi Arabia as Promoter of Cancer Cell Proliferation, <i>Toxicological &amp; Environmental Chemistry</i> (corresponding author, submitted for publication).   |               | UK           |
|   | 4. Ghada M. Taha, Sahar Abdalla, Yossra Abdelmalik, Christina Y Ishak, and <b>Khalid A</b> (2018) ; Structural Properties of Acetylcholinesterase in Pyridine as Co-solvent; <i>South African Journal of Chemistry</i> (corresponding author, submitted for publication).  |               | South Africa |
|   | 5. Mohammed S. Alawi, Talal A. Awad, Magdi A. Mohamed, <b>Khalid A</b> , Esraa M.O. Ismail, Fatima A., Sehrish Naz, Zaheer UL-Haq, (2018) Discovery of New Xanthenes as Acetylcholine Esterase Inhibitors: an Integrative <i>In silico</i> and <i>In vitro</i> Approach, <i>Molecular Simulation</i> (submitted for publication).  |               | UK           |
|   | 6. Hassan A. Alhazmi, <b>Khalid A</b> , Shahnaz Sultana, Siddig Ibrahim Abdelwahab, Waquar Ahsan, Ibraheem M. Attafi, Mohammad Al Bratty (2018) GC-MS and Chemometric Analysis of Different Twenty-One Smokeless Tobacco (shammah) Samples of Jazan Region of Saudi Arabia, <i>South African J of Chemistry</i> (submitted for publication).   | -             | South Africa |
| 2016  | 7. Abdelwahab, SI., Hassan, A.F., Mariod, A.A., Al-Sheraji, S.H., Namrma, P., Taha, M.M.E., Ismail, A. <b>Khalid A</b> (2016) <i>Catha edulis</i> Forsk. (khat): Antioxidative activities and chemical diversities using HPLC-DAD-MS/MS analysis of some Ethiopian and Yemenis varieties; <i>Ciência e Técnica Vitivinícola</i> , Vol. 30 (10) 299-323   | 0.702         | Portugal     |
| 2015  | 8. El-Ameen NM, Taha MM, Abdelwahab SI, <b>Khalid A</b> , Elfatih F, Kamel MA, (2015); Anti-diabetic Properties of Thymoquinone is unassociated with Glycogen Phosphorylase Inhibition; <i>Pharmacognosy J.</i> , 7(6) 406-410   | 1.201         | India        |
|   | 9. Gihan O. M. EL hassan, Achyut Adhikari, Omer M. Abdalla, Ahmed Shukrulla, <b>Khalid A</b> , M. Iqbal Choudhary, M. A. Mesaik and Sakina Yagi, (2015) Chemical constituents of <i>Euphorbia polyacantha</i> Boiss. and their immunomodulatory properties, <i>Rec. Nat. Prod.</i> 9 (1), 146-152, 2015.   | -             | Turkey       |

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|------|-----|---|-------|----------|
| 2014 | 10. | Al-Aboudi, A., Al-Qawasmeh, R.A., Shahwan, A., Mahmood, U., <b>Khalid, A.</b> , Ul-Haq, Z.; (2015) In-silico identification of the binding mode of synthesized adamantyl derivatives inside cholinesterase enzymes; <i>Acta Pharmacol Sin.</i> 2015: 1–8.   | 2.5   | China    |
|      | 11. | Mohammed, S.O., ElShahaby, O.A., Hafez, E.E., <b>Khalid, A.</b> , Ahmed, E., (2014); Characterization and Purification of Urease Enzyme from New Proteus Mirabilis Strain; <i>Journal of Advanced Scientific Research</i> 5(4).   | -     | India    |
|      | 12. | Dirar, A.I., Mohamed, M.A., Ismail, E.M.O., Khalid, H.S., Elfatih, F., <b>Khalid, A.</b> , (2014) <i>In Silico</i> Molecular Docking of Di-(2-Ethylhexyl) Phthalate and 13-Hexyloxacyclotridec-10-En-2-One Identified In Ambrosia Maritima L. (ASTERACEAE); <i>World Journal of Pharmaceutical Research</i> ; 3(10):08-16.  | -     | Bulgaria |
|      | 13. | Dirar, A.I., Mohamed, M.A., Khalid, H.S., Osman, B., Fadul, E., <b>Khalid, A.</b> (2014) <i>In Vitro</i> Antioxidant Activity and Phytochemical Profile of Three Antitumor Medicinal Plants Grown in Sudan; <i>World Journal of Pharmaceutical Research</i> ; 3(9):136-142.   | -     | Bulgaria |
|      | 14. | Abuzeid, N., Kalsum, S., Koshy, R.J., Larsson, M., Glader, M., Andersson, H., Raffetseder, J., Pienaar, E., Eklund, D., Alhassan, M.S., AlGadir, H.A., Koko, W.S., Schön, T., Mesaik, M.A., Abdalla, O.M., <b>Khalid, A.</b> , Lerm, M., (2014) Antimycobacterial activity of selected medicinal plants traditionally used in Sudan to treat infectious diseases. <i>J Ethnopharmacol.</i> 2014 Nov 18;157:134-9. | 2.94  | Ireland  |
|      | 15. | Gihan, O.M. ELhassan, Achyut Adhikari, Omer M. Abdalla, Ahmed Shukrulla, <b>Khalid, A.</b> , M. Iqbal Choudhary, Mohammed A. Mesaik, Sakina Yagi (2014) Chemical Constituents of Euphorbia Polyacantha Boiss. and their Immunomodulatory Properties; <i>Records of Natural Products</i> , 9(1):146-152..  | 1.02  | Turkey   |
|      | 16. | Wahbi HI, Ishak CI, <b>Khalid, A.</b> , Adlan T; (2014); Inverse Virtual Screening of Some New Pyrazolo-[1,5-a]pyrimidine ; 4,6-Dihetarylpyrimidin-2-amine and Ethyl 2-oxo-4,6-di(hetar-2-yl)cyclohex-3-encarboxylate Heterocyclic Compounds From 1,3-Dihetaryl-2-propen-1-one <i>Int. J. Pharm. Phytopharmacol. Res.</i> 4 (1): 13-19  | 0.852 | India    |
|      | 17. | Hilmi Y1, Abushama MF, Abdalgadir H, <b>Khalid, A.</b> , Khalid H. (2014); A study of antioxidant activity, enzymatic inhibition and in vitro toxicity of selected traditional Sudanese plants with anti-diabetic potential. <i>BMC Complement Altern Med.</i> 7;14:149.  | 1.88  | UK       |
|      | 18. | Yousif, R. and <b>Khalid, A.</b> (2013) Comparative Modeling of Serotonin Receptors 5ht2a and 5ht2c and In-silico Investigation of their Potential as off-target to Ethinylestradiol, <i>J. Pharm. Drug. Deliv. Res.</i> (Accepted).  | -     | USA      |
|      | 19. | Elnour, M.A., Elegamy, A.A., Koko, W.A., <b>Khalid, A.</b> , Fadul, E. (2013) Antioxidant Activity and Cytotoxicity of some Sudanese Medicinal Plants, <i>Int. J. Adv. Ind. Eng.</i> 1, 20-23 (Epub, March, 2013).  | -     | USA      |
| 2012 | 20. | Elhassan, G. O. M., Adhikari, A., Yousof, S., Rahman, M.H., <b>Khalid, A.</b> , Omer, H., Fun, H. K., Choudhary, M. I., Yagi, S.(2012) Phytochemistry and Antiglycation Activity of <i>Aloe sinkatana Reynolds</i> , <i>Phytochemistry Lett.</i> 5, 725–728 (Epub Aug 27, 2012).  | 1.222 | England  |

|      |     |   |       |             |
|------|-----|---|-------|-------------|
| 2011 | 21. | Akhtar, M., Anis, I., Ali, Z., Mustafa, S. A., Khan, A., <b>Khalid, A.</b> , Shah, M. R., Galal, M., Khan, I. A. and Choudhary, M. I. (2012): Methylenebissantin: a rare methylene-bridged bisflavonoid from <i>Dodonaea viscosa</i> which inhibits the <i>Plasmodium falciparum</i> enoyl-ACP reductase. <i>Bioorg. Med. Chem. Lett.</i> <b>22</b> 610–612 (Epub 28 Oct, 2011) . | 2.661 | USA         |
|      | 22. | Ghayur, M. N., Kazim, S. F., Rasheed H., <b>Khalid, A.</b> , Jumani, M. I., Choudhary, M. I., and Gilani, A. H. (2011). Identification of antiplatelet and acetylcholinesterase inhibitory constituents in betel nut. <i>Journal of Chinese Integrative Medicine.</i> <b>9</b> (6) 619-625 (Jun. 2011).   | 0.961 | China       |
|      | 23. | Bankeu, J. J. K., Khayala, R., Lenta, B. N., Nougoué, D. T., Ngouela, S. A., Mustafa, S. A., <b>Khalid, A.</b> , et al. (2011) Isoflavone Dimers and Other Bioactive Constituents from the Figs of <i>Ficus mucoso</i> . <i>J Nat. Prod.</i> <b>74</b> (6), 1370–1378 (May 2011).   | 3.159 | USA         |
| 2010 | 24. | Bankeu, J. J. K., Mustafa, S. A., Gojayevev, A. S., Lenta, B. D., Nougoué, D. T., Ngouela, S. A., <b>Khalid, A.</b> , et al. (2010): Ceramide and Cerebroside from the Stem Bark of <i>Ficus mucoso</i> (Moraceae), <i>Chem. Pharm. Bull.</i> <b>58</b> (12) 1661-1665 (Dec., 2010).  | 1.698 | Japan       |
|      | 25. | Sultana, N. and <b>Khalid, A.</b> (2010): Phytochemical and enzyme inhibitory studies on indigenous medicinal plant <i>Rhazya stricta</i> . <i>Nat. Prod. Res.</i> <b>24</b> (4):305-14 (March, 2010).  | 0.782 | UK          |
| 2009 | 26. | Al-Aboudi, A., Odeh, H., <b>Khalid, A.</b> , Naz, Q., Choudhary, M. I. and Atta-ur-Rahman (2009): Butyrylcholinesterase inhibitory activity of testosterone and some of its metabolites, <i>J. Enzym. Inhib. Med. Chem.</i> , <b>24</b> (2):553-558 (April 2009)  | 1.667 | UK          |
| 2008 | 27. | Ghayur, M. N., Gilani, A. H., Ahmed, T., <b>Khalid, A.</b> , Nawaz, S. A., Agbedahunsi, J. M., Choudhary, M. I., and Houghton, P. J. (2008): Muscarinic, Ca <sup>++</sup> antagonist and specific butyrylcholinesterase inhibitory activity of dried ginger extract might explain its use in dementia, <i>J. Pharma. Pharmac.</i> <b>60</b> : 1375–1383.                          | 1.718 | UK          |
|      | 28. | Nawaz, S.A., Umbreen, S., <b>Khalid, A.</b> , Ansari, F. L., Atta-ur-Rahman, Choudhary, M. I.(2008): Structural insight into the inhibition of acetylcholinesterase by 2, 3, 4, 5-tetrahydro-1, 5-benzothiazepines, <i>J. Enzym. Inhib. Med. Chem.</i> <b>23</b> (2): 206–212 (April, 2008).  | 1.667 | UK          |
|      | 29. | Sultana, N., Atta-ur-Rahman and <b>Khalid, A.</b> (2008): A New Fatty Ester and a New Triterpene from <i>Skimmia laureola</i> , <i>Nat. Prod. Res.</i> <b>22</b> (1):37-47 (Jan., 2008).  | 0.572 | UK          |
| 2006 | 30. | Atta-ur-Rahman, <b>Khalid, A.</b> , Sultana, N., Ghayur, M. N., Mesaik, M. A., Khan, M. R., Gilani, A. H. and Choudhary, M. I. (2006): New Natural Cholinesterase Inhibiting and Calcium Channels Blocking Quinoline Alkaloids, <i>J. Enzym. Inhib. Med. Chem.</i> <b>21</b> (6), 703-710 (Dec., 2006).   | 1.667 | UK          |
|      | 31. | Choudhary, M. I., Shahnaz, S., Parveen, S., <b>Khalid, A.</b> , Ayatollahi, S. A. M., Atta-ur-Rahman and Pervez, M. (2006): New Triterpene Alkaloid Cholinesterase Inhibitors from <i>Buxus hyrcana</i> , <i>Chem. Biodivers.</i> <b>3</b> (9), 1039-1052 (2006).   | 1.416 | Switzerland |

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|------|-----|---|-------|-------------|
| 2005 | 32. | Choudhary, M. I., Nawaz, S. A., Zaheer-ul-Haq, Azim, M. K., Ghayur, M. N., Lodhi, M. A., Jalil, S., <b>Khalid, A.</b> , Ahmed, A., Rode, B. M., Atta ur-Rahman, Gilani, A. H., Ahmad, V. U., Juliflorine: A Potent Natural Peripheral Anionic-site Binding Inhibitor of Acetylcholinesterase with Calcium-channel Blocking Potential, A Leading Candidate for Alzheimer's Disease Therapy, <i>Biochem. Biophys. Res. Commun.</i> <b>332</b> , 1171–1179 (July, 2005). | 3.0   | USA         |
|      | 33. | <b>Khalid, A.</b> , Azim, M. K., Parveen, S., Atta-ur-Rahman and Choudhary, M. I., Structural Basis of Cholinesterases Inhibition by Triterpenoidal Alkaloids, <i>Biochem. Biophys. Res. Commun.</i> <b>331</b> , 1528–1532 (June, 2005).   | 3.0   | USA         |
|      | 34. | Gilani, A. H., Ghayur, M. N., <b>Khalid, A.</b> , Zaheer-ul-Haq, Choudhary, M. I. and Atta-ur-Rahman, Presence of Antispasmodic, Antidiarrhoeal, Antisecretory, and Acetylcholinesterase, Inhibitory Constituents in <i>Sarcococca saligna</i> , <i>Planta Med.</i> <b>71</b> (2), 120–125 (Feb., 2005).  | 1.628 | Germany     |
| 2004 | 35. | <b>Khalid, A.</b> , Zaheer-ul-Haq, Ghayur, M. N., Feroz, F., Atta-ur-Rahman, Gilani, A. H. and Choudhary, M. I., Cholinesterase Inhibitory and Spasmolytic Potential of Steroidal Alkaloids, <i>J. Steroid Biochem. Mol. Biol.</i> , <b>92</b> (5), 477–484 (Dec., 2004).   | 2.715 | England     |
|      | 36. | Gilani, A. H., Ghayur, M. N., Saify, Z. S., Ahmed, S. P., Choudhary, M. I. and <b>Khalid, A.</b> , Presence of Cholinomimetic and Acetylcholinesterase Inhibitory Constituents in Betel Nut, <i>Life Sci.</i> , <b>75</b> (20), 2377-2389 (Oct., 2004).   | 2.158 | England     |
|      | 37. | <b>Khalid, A.</b> , Choudhary, M. I., Zaheer-ul-Haq, Anjum S., Khan, M. R. and Atta-ur-Rahman, Kinetics and Structure-Activity Relationship studies on Steroidal Alkaloids that Inhibit Cholinesterases, <i>Bioorg. Med. Chem.</i> <b>12</b> (9), 1995-2003 (May, 2004).  | 2.018 | USA         |
|      | 38. | Orhan, I., Sener, B., Choudhary, M. I. and <b>Khalid, A.</b> , Acetylcholinesterase and Butyrylcholinesterase Inhibitory Activity of Some Turkish Medicinal Plants. <i>J. Ethnopharmacol.</i> , <b>91</b> (1), 57-60 (Mar., 2004).  | 1.420 | Ireland     |
|      | 39. | Atta-ur-Rahman, Zaheer-ul-Haq, Feroz, F., <b>Khalid, A.</b> , Nawaz, S. A., Khan, M. R. and Choudhary, M. I., New Cholinesterase Inhibiting Steroidal Alkaloids from <i>Sarcococca saligna</i> , <i>Helv. Chim. Acta</i> , <b>87</b> (2), 439-448 (Feb., 2004).   | 1.833 | Switzerland |
| 2003 | 40. | Zaheer-ul-Haq, Wellenzohn, B., Tonmunphean, S., <b>Khalid, A.</b> , Choudhary, M. I. and Rode, B. M., 3D-QSAR Studies on Natural Acetylcholinesterase Inhibitors of <i>Sarcococca saligna</i> by Comparative Molecular Field Analysis (CoMFA). <i>Bioorg. Med. Chem. Lett.</i> , <b>13</b> (24), 4375–4380 (Dec., 2003).  | 2.182 | USA         |
|      | 41. | Choudhary, M. I., Shahnaz, S., Parveen, S., <b>Khalid, A.</b> , Ayatollahi, S. A. M., Atta-ur-Rahman and Parvez, M., New Triterpenoid Alkaloid Cholinesterase Inhibitors from <i>Buxus hyrcana</i> . <i>J. Nat. Prod.</i> , <b>66</b> (6), 739-742 (Jun., 2003).  | 1.849 | USA         |

|      |     |   |       |             |
|------|-----|---|-------|-------------|
| 2002 | 42. | Ghayur, M.N., Gilani, A.H., <b>Khalid, A.</b> , Choudhary, M.I., Zaheer-ul-Haq, Kalauni, S.K. and Atta-ur-Rahman, The Presence of Calcium Channel Blocking and Acetylcholinesterase Inhibitory Constituents in <i>Sarcococca saligna</i> . <i>FASEB J.</i> , <b>17</b> (4), A238 [meeting abstract] (Mar., 2003).       | 7.172 | USA         |
|      | 43. | Kalauni, S. K., Choudhary, M. I., <b>Khalid, A.</b> , Manandhar, M. D., Shaheen, F., Atta-ur-Rahman, and Gewali, M. B., New Cholinesterase Inhibiting Steroidal Alkaloids from the Leaves of <i>Sarcococca coriacea</i> of Nepalese Origin. <i>Chem. Pharm. Bull. (Tokyo)</i> , <b>50</b> (11), 1423-1426 (Nov., 2002). | 1.133 | Japan       |
|      | 44. | Atta-ur-Rahman, Akhtar, M. N., Choudhary, M. I., Tsudda, Y., Sener, B., <b>Khalid, A.</b> , and Parvez, M., New Steroidal Alkaloids from <i>Fritillaria imperialis</i> and their Cholinesterase Inhibiting Activities. <i>Chem. Pharm. Bull. (Tokyo)</i> , <b>50</b> (8), 1013-1016 (Aug., 2002).                       | 1.133 | Japan       |
|      | 45. | Atta-ur-Rahman, Zaheer-ul-Haq, <b>Khalid, A.</b> Anjum, S. Khan, M. R. and Choudhary M. I., Pregnane-type Steroidal Alkaloids of <i>Sarcococca saligna</i> : A New class of Cholinesterases Inhibitors. <i>Helv. Chim. Acta</i> , <b>85</b> (2), 678-688 (Feb., 2002).  | 1.949 | Switzerland |
| 2001 | 46. | Choudhary, M. I., Azizuddin, <b>Khalid A.</b> , Sultani, S. Z. and Atta-ur-Rahman, A New Coumarin from <i>Murraya paniculata</i> . <i>Planta Med.</i> , <b>68</b> (1), 81-83 (Jan., 2002).  | 2.289 | Germany     |
|      | 47. | Atta-ur-Rahman, Parveen, S., <b>Khalid, A.</b> , Farooq A. and Choudhary, M. I., Acetyl and Butyrylcholinesterase-Inhibiting Triterpenoidal Alkaloids From <i>Buxus papillosa</i> . <i>Phytochemistry</i> , <b>58</b> (6), 963-968 (Nov., 2001).  | 1.296 | England     |
|      | 48. | Kalauni, S. K., Choudhary, M. I., Manandhar, M. D., Atta-ur-Rahman, Gewali M. B. and <b>Khalid, A.</b> , Steroidal Alkaloids from the Leaves of <i>Sarcococca coriacea</i> of Nepalese Origin. <i>J Nat. Prod.</i> , <b>64</b> (6), 842-844 (Jun., 2001).   | 1.737 | USA         |
| 2000 | 49. | Atta-ur-Rahman, Fatima, N., Akhtar, F., Choudhary M. I. and <b>Khalid, A.</b> , New Norditerpenoid Alkaloids from <i>Aconitum falconeri</i> . <i>J. Nat. Prod.</i> , <b>63</b> (10), 1393-1395 (Oct., 2000).  | 1.878 | USA         |
| 1998 | 50. | Atta-ur-Rahman, Parveen, S., <b>Khalid, A.</b> , Farooq A., Ayatollahi S. A. M. and Choudhary, M. I., Acetylcholinesterase Inhibiting Triterpenoidal Alkaloids From <i>Buxus hyrcana</i> . <i>Heterocycles</i> , <b>49</b> (1), 481-488 (Dec., 1998).   | 0.831 | Japan       |

### Manuscripts Under Preparation

51. El Sayed H. El Ashry, Mohammed R. Amera, Yeldez El Kilanyd, Salih Osman Mohammed1, El Shobaky Ahmed , **Asaad Khalid** and Omar A ElShahaby; Urease inhibitor activity of Regioselectivity of the alkylation of benzimidazole 2-thione
52. Sufyan Awadelkarim, **Asaad Khalid**, Nida Ambreen, Khalid M. Khan, Talal A. Awad, M. A. Mesaik, Omer Elhag, M. Galal, Sean T. Prigge, and M. Iqbal Choudhary; (2018) New plasmodium falciparum Enoyl-ACP Reductase Inhibiting Coumarin Derivatives

53. **Khalid A**, M. Nabeel Ghayur, M. Ahmed Mesaik, Surya K. Kalauni, Atta-ur-Rahman, Anwar H. Gilani, Mangala D. Manandhar, Mohan B. Gewali, and M. Iqbal Choudhary (2018) Sarcocornine-D: a neurotrophic, non-competitive cholinesterases inhibitor that blocks calcium channels
54. Talal A. Awad, Fatima Alfatih, Amani Bashir, Jukka Leppänen, Antti Poso and **Khalid A** (2018); In vitro and in silico evaluation of Chalcones as new glycogen phosphorylase inhibitors.
55. **Khalid, A.**, Zaheer-ul-Haq, Khan W., Azim, M. K., Azizuddin, Atta-ur-Rahman, Choudhary, M. I. (2012): Experimental and Theoretical Investigations of Mechanisms on Cholinesterases Inhibition by Natural Coumarins.
56. Mustafa, S. A. A., Adnan, T. A. A., Ambreen, N., Galal, M., Khan, K. M., Abdullah, O. M., Mesaik, M. A., Choudhary, M. I., Prigge, S. T., and **Khalid, A.**, (2012): Structural Studies on the Inhibition of PfENR Enzyme by Coumarin Derivatives.

**Notes:**

- 1- ISO journal abbreviations are used.
- 2- For the current year, the latest impact factor of the journal is used.

**B. PROCEEDINGS OF SCIENTIFIC MEETINGS:**

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|------|---|
| 2005 | 57. <b>Khalid, A.</b> , Azim, M. K., Parveen, S., Atta-ur-Rahman, Choudhary, M. I., (2005): Molecular Recognition in Acetylcholinesterase-Inhibitor Complex, <i>Proceedings of the 8th International Symposium on Protein Structure Function Relationship</i> . |
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**C. LECTURES/ORAL PRESENTATIONS:**

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| 2013 | 1. "Discovery of TB drugs from medicinal plants: The Road to El Dorado" invited lecture delivered in the 1st Mediterranean Symposium on Medicinal and Aromatic Plants (MESMAP-2013), Gazimagosa, The Northern Cyprus, April 17-20, 2013.   |
| 2012 | 2. "DISCOVERY OF DRUG HITS FROM MEDICINAL PLANTS: An efficient strategy for fighting neglected diseases" lecture delivered in the 4 <sup>th</sup> International Symposium-Cum-Training Course on Molecular Medicine and Drug Research, Karachi, Pakistan, January 7 - 10, 2013.                        |
| 2011 | 3. "Natural Product Research in the Arab World: Challenges and Opportunities" invited lecture delivered in the Conference of Arab expatriate scientists "when Arab minds integrate" headquarters of the Arab League, Cairo, Egypt, Dec. 19-20, 2012.   |
| 2010 | 4. "Discovery of drug hits from medicinal plants: an efficient strategy for fighting neglected diseases" keynote lecture presented in the International Conference of Young Chemists, Jordan, Amman, April 8-10, 2012.   |
| 2011 | 5. "Discovery of drug hits from medicinal plants: an efficient strategy for fighting neglected diseases" lecture delivered in the 3 <sup>rd</sup> Annual Meeting of the COST CM0801 action "New drugs for neglected diseases & Medicinal Chemistry in Parasitology", Modena, Italy, October 5-7, 2011. |
| 2010 | 6. "Discovery of anti-malarial and anti-TB drug hits from medicinal plants" lecture delivered in the 4 <sup>th</sup> ANDI Stakeholders Meeting and Donor Conference, Addis Ababa, Ethiopia, October 24 - 27, 2011.   |
| 2010 | 7. "Discovery of specific enzyme-inhibiting hits from natural sources: an efficient strategy for fighting neglected diseases" lecture delivered in the 12 <sup>th</sup> International Symposium on Natural Products Chemistry (ISNPC-12), Karachi, Pakistan, November 22 - 25, 2010.                   |

- 2009**
8. "Discovery of specific enzyme-inhibiting hits from natural sources: an efficient strategy for fighting neglected diseases" invited lecture delivered at AstraZeneca India Pvt Ltd, Bangalore, India on October 25, 2010.
  9. "Discovery of specific enzyme-inhibiting hits from natural sources: an efficient strategy for fighting neglected diseases" invited lecture delivered in the 11<sup>th</sup> Eurasia Conference on Chemical Sciences (EuAsC2S-11), Dead Sea-Jordan, during October 6-10, 2010.
  10. "Discovery of natural specific enzyme inhibitors for the treatment of neglected diseases" lecture delivered in the 2<sup>nd</sup> Joint Expert Meeting among Working Groups 1/2/3/4 and MC Meeting of the COST (European Cooperation in Science and Technology) Action CM0801, Certosa di Pontignano, Siena, Italy, May 28-30, 2010.
  11. "Discovery of specific enzyme-Inhibiting natural product for the treatment of malaria and other neglected diseases" lecture delivered in the Third-World Academy of Sciences (TWAS) 11<sup>th</sup> General Conference, Durban, South Africa, October 19-23, 2009.
  12. "Discovery of Specific Plasmodium falciparum Enoyl-ACP Reductase and Dihydrofolate Reductase Inhibitors from Sudanese Medicinal Plants as Antimalarial Candidates" lecture delivered in the Bright Ideas session of the 2<sup>nd</sup> Stakeholders meeting of the African Network on Drugs and Diagnostics Innovation (ANDI), Cape Town, South Africa, October 4-6, 2009.
  13. "Discovery of specific Plasmodium falciparum enoyl-ACP reductase inhibitors as antimalarial candidates" lecture delivered in the ESF-COST High-Level Research Conference on Natural Products Chemistry, Biology and Medicine II, Acquafredda di Maratea, Italy, August 29-September 3, 2009.
- 2008**
14. "Applications of Enzyme Inhibition Studies in Drug Discovery" lecture delivered in New Trends in Sciences and Technology to Enhance Sustainable Development in Africa (a meeting organized by the Sudanese Humboldtians Association and Sponsored by Alexander von Humboldt Foundation) Khartoum, Sudan, Nov. 23-26, 2008.
  15. "Applications of experimental and theoretical enzyme inhibition studies in drug discovery" lecture delivered in the 11<sup>th</sup> International Symposium on Natural Product Chemistry, Karachi, Pakistan, Oct. 29-Nov. 01, 2008.
  16. "Enzyme Inhibiting Drugs: the Momentum of Natural Products" lecture delivered in the 1st International Workshop on Molecular Pharmacology and Immunology, Khartoum, Sudan, August 4-13, 2008.
  17. "From molecular recognition to drug design: Applications of theoretical and experimental enzyme studies" lecture delivered in the 1<sup>st</sup> International Conference on Drug Design and Discovery, Dubai, UAE, February 4-7, 2008.
- 2007**
18. "Natural Enzyme Inhibitors: Development of Enzyme inhibitors as potential drugs" an invited lecture delivered in the Institute of Environmental Research, Khartoum, Sudan, April 16, 2007.
  19. "Protein-ligand Interactions from Molecular Recognition to Drug Design: Applications of experimental enzyme kinetics and theoretical computational chemistry" lecture delivered in the 1<sup>st</sup> National Pakistan Proteomics Society Life Sciences- HEC Workshop" Karachi, Pakistan, February, 3-5 2007.
  20. "Development of enzyme inhibitors as molecular-based medicines" lecture delivered in the 1<sup>st</sup> International Symposium and Workshop-cum-Training Course on Molecular Medicine and Drug Research Islamabad, Pakistan, January, 16-30 2007.

21. "Searching for new natural enzyme inhibiting drug candidates: The story of a fight against neurodegenerative disorders" lecture delivered in the 1<sup>st</sup> International Symposium and Workshop-cum-Training Course on Molecular Medicine and Drug Research, Karachi, Pakistan, January,16-30 2007.
22. "Protein ligand interactions: How far can we see? The case of cholinesterase inhibition by natural coumarins" lecture delivered in the 9<sup>th</sup> International Symposium on Protein Structure Function Relationship, Karachi, Pakistan, January 11-14, 2007.
23. "Searching for New Natural Enzyme Inhibiting Drug Candidates: The story of our fight against neurodegenerative disorders" invited lecture delivered at the University of Gezira, Wad Madani, Sudan, Dec. 5, 2006.
24. "New Natural Quinoline and Steroidal Alkaloid Cholinesterases Inhibitors: Interesting Leads for the Treatment of Alzheimer's Disease" lecture delivered in the 10<sup>th</sup> International Symposium on Natural Product Chemistry, Karachi, Pakistan, Jan. 6-9, 2006.
25. "Searching for Alzheimer's Disease Treatment: Structural Proteomic and Biochemical Studies on Natural Cholinestrases Inhibitor" lecture delivered in the 18<sup>th</sup> FAOBMB International Symposium, Lahore, Pakistan, November 20-23, 2005.
26. "Biochemical and Structural Proteomic Studies on Natural noncompetitive cholinesterases inhibitors" lecture delivered in the AFASSA Symposium on Natural Product Chemistry, Karachi, Pakistan, July 25-27, 2005.
27. "Comparative study on structural basis of acetylcholinesterase and butyrylcholinesterase inhibition" lecture delivered in the 8<sup>th</sup> Biennial National Conference of PSBMB (Pakistan Society for Biochemistry and Molecular Biology), Karachi, Pakistan, March 7-9, 2005.
28. "Studies on Molecular Recognition in Acetylcholinesterase-Inhibitor Complex" lecture delivered in the 8<sup>th</sup> International Symposium on Protein Structure Function Relationship, Karachi, Pakistan, January 7-10, 2005.
29. "Enzyme Inhibition: Important Theoretical and Practical Considerations" invited lecture delivered in the Pak-China Binational Workshop on the Pharmacology and Standardization of Herbal Medicines, International Center for Chemical Sciences, H.E.J. Research Institute of Chemistry, University of Karachi, Pakistan, October 22-27, 2004.
30. "Application of computer modeling in molecular recognition phenomenon" invited lecture delivered in the Workshop on Bioinformatics Organized by Dr. Panjwani Center for Molecular Medicine and Drug Research, International Center for Chemical Sciences, University of Karachi, Pakistan, October 4, 2004.
31. "Molecular Docking: An Important Tool for Drug Development" invited lecture delivered in the SAARC-HEJ International Training Course on Bioassay and Pharmaceutical Techniques for Drug Development, H.E.J. Research Institute of Chemistry, International Center for Chemical Sciences, University of Karachi, Pakistan, Oct. 10-15, 2003.
32. "Cholinesterase Inhibition: New Potential Natural Candidates for the Treatment of Alzheimer's Disease" invited talk (online PowerPoint presentation), Herbal Medicine and Medicinal Plants Interest Group, American Society for Pharmacology and Experimental Therapeutics (ASPET), [http://www.aspet.org/public/interest\\_groups/herbal\\_medicinal\\_plant/Cholinesterase\\_alzheimer.pps](http://www.aspet.org/public/interest_groups/herbal_medicinal_plant/Cholinesterase_alzheimer.pps)
33. "Cholinesterases Inhibition: New Potential Natural Candidates for the Treatment of Alzheimer's Disease" lecture delivered in the 6<sup>th</sup> National Conference on Biochemistry and Molecular Biology, Shah Abdul Latif University, Khairpur, Sindh, Pakistan, Feb. 15-17, 2001.



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| 2000 | 34. "Kinetic Studies on Acetylcholinesterase Inhibition" practical session instructed in the <i>International Workshop on the Technology for Product Development From Medicinal Plants</i> , H.E.J. Research Institute of Chemistry, International Center for Chemical Sciences, University of Karachi, Karachi, Pakistan, Jan. 21-27, 2000. |
| 1999 | 35. "Enzyme Inhibition: An Exciting tool for Drug Discovery" lecture delivered in the <i>Second National Workshop on the Use of Bioassay Techniques for the New Drug Development</i> , H.E.J. Research Institute of Chemistry, International Center for Chemical Sciences, University of Karachi, Karachi, Pakistan, Aug. 26-28, 1999.       |
| 1998 | 36. "Potent New Natural Inhibitors for Acetylcholinesterase" lecture delivered in the <i>9<sup>th</sup> National Chemistry Conference</i> , Department of Chemistry, University of Karachi, Karachi, Pakistan, Dec. 4-6, 1998.   |
| 1997 | 37. "Enzyme Inhibition: Theoretical Considerations" lecture delivered in the <i>National Workshop on the Use of Bioassay Techniques for the New Drug Development</i> , H.E.J. Research Institute of Chemistry, International Center for Chemical Sciences, University of Karachi, Karachi, Pakistan, July 8, 1997.                           |