PROFILE		
1	**NAME**	SYED ADNAN ALI SHAH
2	**ACADEMIC POSITION**	ASSOCIATE PROFESSOR
3	**STATUS OF APPOINTMENT**	CONTRACT
4	**CITIZENSHIP**	PAKISTANI (MALAYSIAN RESIDENT TALENT PASS HOLDER)
5	**EDUCATION**	PhD (Structural Organic Chemistry), ICCBS, University of Karachi, Karachi, Pakistan – 2005; Master of Science (Organic Chemistry), Department of Chemistry, University of Karachi, Karachi, Pakistan – 2000; Bachelor of Science (Hons) (Chemistry), Department of Chemistry, University of Karachi, Karachi, Pakistan – 1999.
6	**WORKING EXPERIENCE**	• Associate Professor (DM53) Faculty of Pharmacy, Universiti Teknologi MARA, Puncak Alam, 02 May 2019 – Present • Senior Lecturer (DM51) Faculty of Pharmacy, Universiti Teknologi MARA, Puncak Alam, 02 May 2008 – 01 May 2019 • Visiting Lecturer Faculty of Pharmacy, Universiti Teknologi MARA, Shah Alam Campus, 05 November 2007 – 01 May 2008 • Senior Research Officer at H.E.J. Research Institute of Chemistry, International Center for Chemical and Biological Sciences (ICCBS), University of Karachi, Karachi, Pakistan. May 2006-Oct. 2007. • Post-doc Research Employee at the Institute of Analytical and Radiochemistry, University of Innsbruck, Innsbruck, Austria. Aug. 2005-April 2006.
7	**CURRENT ACADEMIC RESPONSIBILITIES**	• PHC414: Introduction to Pharmaceutical Chemistry I (Tutorial & Practical) • PHR452: Peripheral Nervous System & Pharmacotherapeutics (Lecture & Tutorial) • PHR501: Pharmacognosy (Lecture, Tutorial & Practical) • PHR503: Cardiovascular System and Pharmacotherapeutics (Tutorial) • PHC464: Introduction to Pharmaceutical Chemistry II (Lecture, Tutorial & Practical) • PHC470: Pharmaceutical Analysis (Tutorial & Practical) • PHC525: NSAIDS, Gastrointestinal System and Pharmacotherapeutics (Lecture & Tutorial) • PHC526: Central Nervous System and Pharmacotherapeutics (Tutorial) • PHC566: Research I (Research)

		• PHC567: Research II (Research) • PH990: PhD Research • PH969: PhD Research • PH756: M. Sc. (Research) • Resource Person for PHC501(Pharmacognosy) • Resource Person for MOOC (Introduction to Pharmacognosy 1)
8	**RESEARCH INTERESTS/ PROJECTS**	• Binding mechanism of enzyme inhibitors using a combined molecular dynamics, STD-NMR, and CORCEMA-STD • Correlation studies between NMR metabolomics and *in vivo* mechanism of action of drugs • Advance NMR techniques • NMR-Based Metabolomics • Marine-Derived Fungal Metabolites • Molecular Docking Studies • Structure-Activity Relationship
9	**PUBLICATIONS**	**<u>Journal article</u>** [1] Muhammad taha, Fazal Rahim, Aftab Ahmad Khan, El Hassane Anouar, Naveed Ahmed, **Syed Adnan Ali Shah**, Mohamed Ibrahim, Zainul Amiruddin Zakari. Synthesis of diindolylmethane (DIM) bearing thiadiazole derivatives as a potent urease inhibitor. *Scientific Reports*, 2020, 10: art. no. 7969. (Scopus indexed, IF_{2019} = 4.120, Q1). [2] Muhammad taha, Fazal Rahim, Hayat Ullah, Abdul Wadood, Rai Khalid farooq, **Syed Adnan Ali Shah**, Muhammad nawaz, Zainul Amiruddin Zakari. Synthesis, in vitro urease inhibitory potential and molecular docking study of benzofuran-based-thiazoldinone analogues. *Scientific Reports*, 2020, 10: art. no. 10673. (Scopus indexed, IF_{2019} = 4.120, Q1). [3] Fazal Rahim, Khalid Zaman, Muhammad Taha, Hayat Ullah, Mehreen Ghufran, Abdul Wadood, Wajid Rehman, Nizam Uddin, **Syed Adnan Ali Shah**, Muhammad Sajid, Faisal Nawaz, Khalid Mohammed Khan. Synthesis, in vitro alpha-glucosidase inhibitory potential of benzimidazole bearing bis-Schiff bases and their molecular docking study. *Bioorganic Chemistry*, 2020; 94, art. no. 103394. (Scopus indexed, IF_{2019} = 4.831, Q1). [4] Hussain Raza, Muhammad Abbasi, Aziz-ur- Rehman, Sabahat Siddiqui, Mubashir Hassan, Qamar Abbas, **Syed Adnan Ali Shah**, Muhammad Shahid, Miss Hansol Hong. Sung-Yum Seo. Synthesis, molecular docking, dynamic simulations, kinetic mechanism, cytotoxicity evaluation of N-(substituted-phenyl)-4-{(4-[(E)-3-phenyl-2-propenyl]-1-piperazinyl} butanamides as tyrosinase and melanin inhibitors: In vitro, in vivo and in silico approaches.

		Bioorganic Chemistry, 2020; 94, art. no. 103445. (Scopus indexed, IF_{2019} = 4.831, Q1). [5] Harmeet Kaur, Siong Meng Lim, Kalavathy Ramasamy, Mani Vasudevan, **Syed Adnan Ali Shah**, Balasubramanian Narasimhan. Diazenyl schiff bases: Synthesis, spectral analysis, antimicrobial studies and cytotoxic activity on human colorectal carcinoma cell line (HCT-116). *Arabian Journal of Chemistry*, 2020; 13: 377-392. (Scopus indexed, IF_{2019} = 4.762, Q1). [6] Iram Kanwal, Aqsa Mujahid, Nasir Rasool, Komal Rizwan, Ayesha Malik, Gulraiz Ahmad, **Syed Adnan Ali Shah**, Umer Rashid, Nadiah Mad Nasir. Palladium and Copper Catalyzed Sonogashira cross Coupling an Excellent Methodology for C-C Bond Formation over 17 Years: A Review. *Catalysts*, 2020, 10, 443; doi:10.3390/catal10040443. (Scopus indexed, IF_{2019} = 3.520, Q2). [7] Veerasamy Ravichandran, Samuggam Sumitha, Cheah Yi Ning, Ooi Yi Xian, Ung Kiew Yu, Neeraj Paliwal, **Syed Adnan Ali Shah**, Minaketan Tripathy. Durian waste mediated green synthesis of zinc oxide nanoparticles and evaluation of their antibacterial, antioxidant, cytotoxicity and photocatalytic activity. *Green Chemistry Letters And Reviews*, 2020, 13, 2, 102–116. (Scopus indexed, IF_{2019} = 3.286, Q2). [8] Sabahat Zahra Siddiqui, Muhammad Arfan, Muhammad Athar Abbasi, Aziz-ur-Rehman, **Syed Adnan Ali Shah**, Muhammad Ashraf, Safdar Hussain, Rehman Shah Zaib Saleem, Rafaila Rafique, Khalid Mohammed Khan. Discovery of Dual Inhibitors of Acetyl and Butrylcholinesterase and Antiproliferative Activity of 1,2,4Triazole-3-thiol: Synthesis and In Silico Molecular Study. *ChemistrySelect,* 2020, 5, 6430–6439. (Scopus indexed, IF_{2019} = 1.811, Q2). [9] Akanksha Mishra, Sumit Tahlan, Kalavathy Ramasamy, Siong Meng Lim, **Syed Adnan Ali Shah**, Balasubramanian Narasimhan. Synthesis, Characterization, Antimicrobial and Anticancer Studies of Metal Complexes of 2-methoxy-4((3-methylpyridin-2ylimino)methyl)phenol. *Mini-Reviews in Medicinal Chemistry*, 2020, 20 , 13 , 1311 – 1317. (Scopus indexed, IF_{2019} = 2.733, Q2). [10] Sumit Tahlan, Balasubramanian Narasimhan, Siong Meng Lim, Kalavathy Ramasamy, Vasudevan Mani, **Syed Adnan Ali Shah**. Design, Synthesis, SAR Study, Antimicrobial and Anticancer Evaluation of Novel 2Mercaptobenzimidazole Azomethine Derivatives. *Mini-Reviews in Medicinal Chemistry,* 2020, 20 , 15 , 1559 - 1571. (Scopus indexed, IF_{2019} = 2.733, Q2). [11] F.O. Roheem, Q.U. Ahmed, S.Z. Mat So'ad, **Syed Adnan Ali Shah**, Latip , A.M. Alhassan, S.N.A. Syed Mohammad. Assessment of Free radical scavenging and digestive enzyme inhibitory activities of extract, fractions and isolated compounds from Tetracera

		macrophylla leaves. *Journal of Herbal Medicine*, 2020, 22, 100351. (Scopus indexed, IF_{2019} = 2.221, Q2). [12] Muhammad Athar Abbasi, Muhammad Shahid Ramzan, Aziz-ur-Rehman, Sabahat Zahra Siddiqui, Mubashir Hassan, **Syed Adnan Ali Shah**, Muhammad Ashraf, Muhammad Shahid, Sung-Yum Seo. Novel Bi-heterocycles as Potent Inhibitors of Urease and Less Cytotoxic Agents: 3-({5-((2-Amino-1,3-thiazol-4-yl)methyl)1,3,4-oxadiazol-2-yl}sulfanyl)-N-(un/substituted-phenyl) propanamides. *Iranian Journal of Pharmaceutical Research*, 2020, 19 (1): 487-506. (Scopus indexed, IF_{2019} = 1.505, Q4). [13] Naeem A. Virk, Aziz-ur- Rehman, Muhammad A. Abbasi, Sabahat Z. Siddiqui, Javed Iqbal, Shahid Rasool, Shafi U. Khan, Thet T. Htar, Hira Khalid, Sabina J. Laulloo, **Syed Adnan Ali Shah**. Microwave-assisted synthesis of triazole derivatives conjugated with piperidine as new anti-enzymatic agents. *J Heterocyclic Chem*. 2020;57:1387–1402. (Scopus indexed, IF_{2019} = 1.484, Q3). [14] Wajiha Khan, Muhammad A. Abbasi, Aziz-ur- Rehman, Sabahat Z. Siddiqui, Majid Nazir, **Syed Adnan Ali Shah**, Hussain Raza, Mubashir Hassan, Muhammad Shahid, Sung-Yum Seog. Convergent Synthesis, Free-Radical Scavenging, Lineweaver-Burk Plot Exploration, Hemolysis And In Silico Study Of Novel Indole-Phenyltriazole Hybrid Bearing Acetamides As Potent Urease Inhibitors. *J Heterocyclic Chem*. 2020;57, 7:2955–2968. (Scopus indexed, IF_{2019} = 1.484, Q3). [15] Hussain Raza, Muhammad Athar Abbasi, Aziz-ur Rehman, Sabahat Zahra Siddiqui, Mubashir Hassan, **Syed Adnan Ali Shah**, Muhammad Shahid, Hansol Hong, Sung-Yum Seo. Design, synthesis and computational studies of N-(substitutedphenyl)-4-(4-phenyl-1-piperazinyl)butanamides as potent anti-melanogenic and tyrosinase inhibitors. *Journal of Molecular Structure*, 2020, 1210, 127969. (Scopus indexed, IF_{2019} = 2.463, Q2). [16] Hafiz Muhammad Imran, Nasir Rasool, Iram Kanwal, Muhammad Ali Hashmi, Ataf Ali Altaf, Gulraiz Ahmed, Ayesha Malik, Samia Kausar, Salah Ud-Din Khan, Ashfaq Ahmad, **Syed Adnan Ali Shah**. Synthesis of halogenated [1,1 0 -biphenyl]-4-yl benzoate and [1,1 0 :3 0 ,1 00 terphenyl]-4 0 -yl benzoate by palladium catalyzed cascade CeC coupling and structural analysis through computational approach. *Journal of Molecular Structure*, 2020, 1222, 128839. (Scopus indexed, IF_{2019} = 2.463, Q2). [17] Fazal Rahima, Muhammad Tahab, Naveed Iqbal, Shawkat Hayat, Faiza Qureshid, Imad Uddin, Khalid Zaman, Abdur Rab, Abdul Wadood, Nizam Uddin, Muhammad Nawaz, **Syed Adnan Ali Shah**, Khalid Mohammed Khan. Isatin based thiosemicarbazide derivatives as potential inhibitor of α -glucosidase, synthesis and their molecular docking study. *Journal of Molecular Structure*, 2020, 1222, 128922. (Scopus indexed, IF_{2019} = 2.463, Q2).

		[18] Nosheen Sia, Nasir Rasool, Komal Rizwan, Ataf Ali Altaf, Shaukat Ali, Muhammad Zubair, Arusa Akhtar, Samia Kausar, **Syed Adnan Ali Shah**. Efficient synthesis of 2,3-diarylbenzo[b]thiophene molecules through palladium (0) Suzuki–Miyaura cross-coupling reaction and their antithrombolyitc, biofilm inhibition, hemolytic potential and molecular docking studies. *Medicinal Chemistry Research*, 2020, 29, 1486–1496. (Scopus indexed, IF_{2019} = 1.783, Q3). [19] Samia Kausar, Ataf Ali Altaf, Muhammad Hamayun, Nasir Rasool, Mahwish Hadait, Arusa Akhtar, Shabbir Muhammad, Amin Badshah, **Syed Adnan Ali Shah**, Zainul Amiruddin Zakaria. i-Propylammonium Lead Chloride Based Perovskite Photocatalysts for Depolymerization of Lignin Under UV Light. *Molecules*, Acepted on 22 June 2020. (Scopus indexed, IF_{2019} = 3.267, Q2). [20] Usman Nazeer, Nasir Rasool, Aqsa Mujahid, Asim Mansha, Muhammad Zubair, Naveen Kosar, Traiq Mahmood, Ali Raza Shah, **Syed Adnan Ali Shah**, Zainul Amiruddin Zakaria, Muhammad Nadeem Akhtar. Selective Arylation of 2-bromo-4-chlorophenyl-2-bromobutanoate via a Pd-Catalyzed Suzuki Cross-coupling Reaction and its Electronic and Non-linear Optical (NLO) Properties via DFT Studies. *Molecules*, Acepted on 15 July 2020. (Scopus indexed, IF_{2019} = 3.267, Q2). [21] Anis Fadhlina Izyani Awang, Qamar Uddin Ahmed, **Syed Adnan Ali Shah**, Juliana Md. Jaffri, Kashif Ghafoor, A. B. M. Helal Uddin, Sahena Ferdosh, Md. Zaidul Islam Sarker. Isolation and characterization of novel antibacterial compound from an untapped plant, *Stereospermum fimbriatum*. *Natural Product Research*, 2020, 34, 5, 629–637. (Scopus indexed, IF_{2019} = 2.158, Q3). [22] Muhammad A. Abbasi, M. Irshad, Aziz-ur-Rehman, Sabahat Z. Siddiqui, **Syed Adnan Ali Shah**, M. Shahid. Bacterial Biofilm Inhibition, Hemolytic Activity, and StructureActivity Relationship of N-(2,3-Dihydro-1,4-Benzodioxin-6-yl)-4Nitro-N-(Substituted-Benzyl)benzenesulfonamides. *Russian Journal of Bioorganic Chemistry*, 2020, 46, 2, 223–234. (Scopus indexed, IF_{2019} = 0.682, Q4). [23] Muhammad Athar Abbasi, Zia-ur-Rehman, Aziz-ur-Rehman, Sabahat Zahra Siddiqui, Majid Nazir, Mubashir Hassan, Hussain Raza, **Syed Adnan Ali Shah**, Sung-Yum Seo. Synthesis of Bi-Heterocyclic Sulfonamides as Tyrosinase Inhibitors: Lineweaver–Burk Plot Evaluation and Computational Ascriptions. *Acta Chim. Slov.* 2020, 67, 403–414. (Scopus indexed, IF_{2019} = 1.076, Q3). [24] Mujahad Abbas, Komal Rizwan, Nasir Rasool, Muhammad Ali Hashmi, Gulraiz Ahmad, Umer Rashid, **Syed Adnan Ali Shah**. Palladium (0) Catalyzed Synthesis of Thiophene Based 1,3,4-oxadiazoles Their Reactivities and Potential Nonlinear Optical

		Properties. *Chiang Mai J. Sci.* 2020; 47, 6: 1-10. (Scopus indexed, IF_{2019} = 0.325, Q4). [25] Javed Iqbal, Aziz-ur-Rehman, Muhammad Athar Abbasi, Sabahat Zahra Siddiqui, Hira Khalid, Sabina Jhaumeer Laulloo, Tahir Ali Chohan, Shahid Rasool, **Syed Adnan Ali Shah**. BSA Binding, molecular docking and in vitro biological screening of some new 1, 2, 4-triazole heterocycles bearing azinane nucleus. *Pak. J. Pharm. Sci.*, 2020, 33 (1), pp. 149-160. (Scopus indexed, IF_{2019} = 0.596, Q2). [26] Muhammad Athar Abbasi, Aurang Zeb, Aziz-ur-Rehman, Sabahat Zahra Siddiqui, **Syed Adnan Ali Shah**, Muhammad Shahid, Hina Fatima. Synthesis, Bacterial biofilm inhibition and cytotoxicity of new NAlkyl/aralkyl-N-(2,3-dihydro-1,4-benzodioxin-6-yl)-4nitrobenzenesulfonamides. *Pak. J. Pharm. Sci.,* 2020, 33 (1), pp. 041-047. (Scopus indexed, IF_{2019} = 0.596, Q2). [27] Aziz-ur-Rehman, Samreen Gul Khan, Tanveer Hussain Bokhari, Fozia Anjum, Naheed Akhter, Shahid Rasool, **Syed Adnan Ali Shah**, Muhammad Shahid, Aneesa Arshad. Synthesis, characterization, antibacterial, hemolytic and thrombolytic activity evaluation of 5-(3-chlorophenyl)-2-((N-(substituted)-2acetamoyl)sulfanyl)-1,3,4-oxadiazole derivatives. *Pak. J. Pharm. Sci.*, 2020, 33 (2, suppl), pp. 871-876. (Scopus indexed, IF_{2019}= 0.596, Q2). [28] Muhammad Athar Abbasi, Mubashar Ijaz, Aziz-ur-Rehman, Sabahat Zahra Siddiqui, **Syed Adnan Ali Shah**, Muhammad Shahid, Hina Fatima. Synthesis of some N-sulfonated derivatives of 1-[(E)-3-phenyl-2propenyl]piperazine as suitable antibacterial agents. *Pak. J. Pharm. Sci.,* 2020, 33 (4), pp. 1609-1616. (Scopus indexed, IF_{2019}= 0.596, Q2). [29] Almas Sattar, Aziz-ur-Rehman1, Muhammad Athar Abbasi, Sabahat Zahra Siddiqui, Shahid Rasool, **Syed Adnan Ali Shah**. Synthesis of new antibacterial agents encompassing tosyl, piperidine, propanamide and 1,3,4-oxadiazole functionalities. *Pak. J. Pharm. Sci.,* 2020, 33 (4), pp. 1697-1705. (Scopus indexed, IF_{2019}= 0.596, Q2). [30] Nur Nabila Fatini Ab Muib, Hannis Fadzillah Mohsin, **Syed Adnan Ali Shah**, Ibtisam Abdul Wahab. Naturally Occurring Triterpenic Acid from the Olea species. *International Journal of Pharmaceuticals, Nutraceuticals and Cosmetic Science*, 2020, 1, 1-6. [31] I Abdul Wahab, **Syed Adnan Ali Shah**. Effective method for the purification of the lipid components in chilli powder. *GADING Journal of Science and Technology*, 2020, 3, 1, 19-25. [32] Khalid Zaman, Fazal Rahim, Muhammad Taha, Abdul Wadood, **Syed Adnan Ali Shah**, Qamar Uddin Ahmed, Zainul Amiruddin Zakaria. Synthesis of new isoquinoline-base-oxadiazole derivatives

		as potent inhibitors of thymidine phosphorylase and molecular docking study. *Scientific Reports*, 2019, 9: art. no. 16015. (Scopus indexed, IF_{2019} = 4.120, Q1). [33] Sajid Hussain, Farhat Ullah, Abdul Sadiq, Muhammad Ayaz, Azhar-ul-Haq Ali Shah, **Syed Adnan Ali Shah**, Syed Majid Shah, Akhtar Nadhman, Farman Ullah, Abdul Wadood, Mohamed El-Shazly. In silico, cytotoxic and antioxidant potential of novel Ester, 3hydroxyoctyl -5- trans-docosenoate Isolated from Anchusa arvensis (L.) M. Bieb. against HepG-2 Cancer cells. *Drug Design, Development and Therapy*, 2019:13 4195–4205. (Scopus indexed, IF_{2019} = 3.216, Q1). [34] Fazal Rahim, Sundas Tariq, Muhammad Taha, Hayat Ullah, Khalid Zaman, Imad Uddin, Abdul Wadood, Aftab Ahmad Khan, Ashfaq Ur Rehman, Nizam Uddin, Salman Zafar, **Syed Adnan Ali Shah**. New triazinoindole bearing thiazole/oxazole analogues: Synthesis, α-amylase inhibitory potential and molecular docking study. *Bioorganic Chemistry*, 2019; 92, art. no. 103284. (Scopus indexed, IF_{2019} = 4.831, Q1). [35] Mubashir Hassan, Muhammad Athar Abbasi, Aziz-ur-Rehman, Sabahat Zahra Siddiqui, Saba Shahzadi, Hussain Raza, Ghulam Hussain, **Syed Adnan Ali Shah**, Muhamamd Ashraf, Muhammad Shahid, Sung-Yum Seo, Arif Malik. Designing of promising medicinal scaffolds for Alzheimer's disease through enzyme inhibition, lead optimization, molecular docking and dynamic simulation approaches. Bioorganic Chemistry, 2019; 91, art. no. 103138. (Scopus indexed, IF_{2019} = 4.831, Q1). [36] Fazal Rahim, Muhammad Taha, Hayat Ullah, Abdul Wadood, Manikandan Selvaraj, Abdur Rab, Muhammad Sajid, **Syed Adnan Ali Shah**, Nizam Uddin, Mohammed Gollapalli. Synthesis of new arylhydrazide bearing Schiff bases/thiazolidinone: αAmylase, urease activities and their molecular docking studies. Bioorganic Chemistry, 2019; 91, art. no. 103112. (Scopus indexed, IF_{2019} = 4.831, Q1). [37] Khalid Zaman, Fazal Rahim, Muhammad Taha, Hayat Ullah, Abdul Wadood, Mohsan Nawaz, Fahad Khan, Zainul Wahab, **Syed Adnan Ali Shah**, Ashfaq Ur Rehman, Abdel-Nasser Kawde, Mohammed Gollapalli. Synthesis, in vitro urease inhibitory potential and molecular docking study of Benzimidazole analogues. *Bioorganic Chemistry*, 2019; 89, art. no. 103024. (Scopus indexed, IF_{2019} = 4.831, Q1). [38] Khalid Zaman, Fazal Rahim, Muhammad Taha, Abdul Wadood, **Syed Adnan Ali Shah**, Mohammed Gollapalli, Farhat Ullah, Ashfaq Ahmed. Synthesis, thymidine phosphorylase, angiogenic inhibition and molecular docking study of isoquinoline derivatives. *Bioorganic Chemistry*, 2019; 89, art. no. 102999. (Scopus indexed, IF_{2019} = 4.831, Q1).

		[39] Abdul Rehman Sadiq Butt, Muhammad Athar Abbasi, Aziz-ur-Rehman, Sabahat Zahra Siddiqui, Hussain Raza, Mubashir Hassan, **Syed Adnan Ali Shah**, Muhammad Shahid, Sung-Yum Seo. Synthesis and structure-activity relationship of tyrosinase inhibiting novel bi-heterocyclic acetamides: Mechanistic insights through enzyme inhibition, kinetics and computational studies. *Bioorganic Chemistry*, 86, 2019; 459–472. (Scopus indexed, $IF_{2019} = 4.831$, Q1). [40] Abdul Rehman Sadiq Butta, Muhammad Athar Abbasi, Aziz-ur-Rehman, Sabahat Zahra Siddiqui, Mubashir Hassan, Hussain Raza, **Syed Adnan Ali Shah**, Sung-Yum Seo. Synthesis and structure-activity relationship of elastase inhibiting novel ethylated thiazole-triazole acetamide hybrids: Mechanistic insights through kinetics and computational contemplations. *Bioorganic Chemistry*, 86, 2019; 197–209. (Scopus indexed, $IF_{2019} = 4.831$, Q1). [41] Muhammad Athar Abbasi, Hussain Raza, Aziz-ur-Rehman, Sabahat Zahra Siddiqui, **Syed Adnan Ali Shah**, Sung-Yum Seo. Synthesis of novel N-(1,3-thiazol-2-yl)benzamide clubbed oxadiazole scaffolds: Urease inhibition, Lipinski rule and molecular docking analyses. *Bioorganic Chemistry*, 2019; 83, 63–75. (Scopus indexed, $IF_{2019} = 4.831$, Q1). [42] Muhammad Taha, **Syed Adnan Ali Shah**, Ajmal Khan, Fiza Arshad, Nor Hadiani Ismail, Muhammad Afifi, Syahrul Imran, Muhammad Iqbal Choudhary. Synthesis of 3,4,5-trihydroxybenzohydrazone and evaluation of their urease inhibition potential. *Arabian Journal of Chemistry*, 2019; 12: 2973-2982. (Scopus indexed, $IF_{2019} = 4.762$, Q1). [43] Muhammad Taha, Khaled A.A. Alkadi, Nor Hadiani Ismail, Syahrul Imran, Aishah Adam, Syed Muhammad Kashif , **Syed Adnan Ali Shah**, Waqas Jamil, Salman Sidiqqui, Khalid Mohammed Khan. Antiglycation and antioxidant potential of novel imidazo[4,5-b]pyridine benzohydrazones. *Arabian Journal of Chemistry*, 2019; 12: 3118-3128. (Scopus indexed, $IF_{2019} = 4.762$, Q1). [44] Sajid Hussain, Farhat Ullah, Abdul Sadiq, Muhammad Ayaz, Azhar-ul-Haq Ali Shah, **Syed Adnan Ali Shah**, Syed Majid Shah, Akhtar Nadhman, Farman Ullah, Abdul Wadood, Mohamed El-Shazly. Cytotoxicity of Anchusa arvensis against HepG-2 cell lines: Mechanistic and computational approaches. *Current Topics in Medicinal Chemistry*, 2019; 19, 2805-2813. (Scopus indexed, $IF_{2019} = 3.218$, Q2). [45] Fatimah Opeyemi Roheem, Siti Zaiton Mat Soad, Qamar Uddin Ahmed, **Syed Adnan Ali Shah**, Jalifah Latip, Zainul Amiruddin Zakaria. Evaluation of Enzyme Inhibitory and Antioxidant Activities of Entada spiralis Stem Bark and Isolation of the Active Constituents. *Molecules*, 2019, 24 (6), 1006;

		doi:10.3390/molecules24061006. (Scopus indexed, IF_{2019} = 3.267, Q2). [46] Noor Barak Almandil, Muhammad Taha, Rai Khalid Farooq, Amani Alhibshi, Mohamed Ibrahim, El Hassane Anouar, Mohammed Gollapalli, Fazal Rahim, Muhammad Nawaz, **Syed Adnan Ali Shah**, Qamar Uddin Ahmed, Zainul Amiruddin Zakaria. Synthesis of Thymidine Phosphorylase Inhibitor Based on Quinoxaline Derivatives and Their Molecular Docking Study. *Molecules*, 2019, 24, 1002; doi:10.3390/molecules24061002. (Scopus indexed, IF_{2019} = 3.267, Q2). [47] Muhammad Taha, Fazal Rahim, Muhammad Ali, Muhammad Naseem Khan, Mohammed A. Alqahtani, Yasser A. Bamarouf, Mohammed Gollapalli, Rai Khalid Farooq, **Syed Adnan Ali Shah**, Qamar Uddin Ahmed, Zainul Amiruddin Zakaria. Synthesis of Chromen-4-One-Oxadiazole Substituted Analogs as Potent β-Glucuronidase Inhibitors. *Molecules*, 2019, 24, 1528; doi:10.3390/molecules24081528. (Scopus indexed, IF_{2019} = 3.267, Q2). [48] Muhammad Athar Abbasi, Majid Nazir, Aziz-ur-Rehman, Sabahat Zahra Siddiqui, Mubashir Hassan, Hussain Raza, **Syed Adnan Ali Shah**, Muhammad Shahid, Sung-Yum Seo. Bi-heterocyclic benzamides as alkaline phosphatase inhibitors: Mechanistic comprehensions through kinetics and computational approaches. *Arch Pharm Chem Life Sci.* 2019; Mar;352(3), art. no. 1800278. doi: 10.1002/ardp.201800278. (Scopus indexed, IF_{2019} = 2.59, Q2). [49] Abbasi, Muhammad; Raza, Hussain; Rehman, Aziz; Siddiqui, Sahahat; Nazir, Majid; Mumtaz, Ayesha; **Syed Adnan Ali Shah**; Seo, Sung-Yum; Hassan, Mubashir. Synthesis, Antioxidant and In-Silico Studies of Potent Urease Inhibitors:N-(4-{[(4-Methoxyphenethyl)(substituted)amino]sulfonyl}phenyl)acetamides. *Drug Res (Stuttg)* 2019; 69(02): 111-120. DOI: 10.1055/a-0654-5074. (Scopus indexed). [50] Alhassan Muhammad Alhassan, Qamar Uddin Ahmed, Jalifah Latip, S**yed Adnan Ali Shah**. A new sulphated flavone and other phytoconstituents from the leaves of Tetracera indica Merr. and their alpha-glucosidase inhibitory activity. *Natural Product research*, 2019, 33(1), 1–8. https://doi.org/10.1080/14786419.2018.1437427. (Scopus indexed, IF_{2019} = 2.158, Q3). [51] Muhammad Athar Abbasi, Muhammad Shahid Ramzan, Aziz Ur Rehman, Sabhat Zahra Siddiqui, Mubashir Hassan, Hussain Raza, **Syed Adnan Ali Shah**, Bushra Mirza, Sung-Yum Seo. Structure-activity relationship and in silico study of unique bi-heterocycles: 5-[(2-Amino-1,3-thiazol-4-yl)methyl]-1,3,4-oxadiazole-2-thiol derivatives. *J. Serb. Chem. Soc.*. 2019, 84(7), 649-661. (Scopus indexed, IF_{2019} = 1.097, Q3).

		[52] Sana Wahid, Muddasir Hanif, Sajid Jahangir, Maryam Shafique, Hafiz Abdullah Shahid, Haji Muhammad, **Syed Adnan Ali Shah**, Muhammad Ali Versiani, Khalid M. Khan, Iftikhar Ahmad Tahiri. Secnidazole-sulfonates: Synthesis, physical, electrochemical, antibacterial & antifungal characteristics. *Journal of Molecular Structure,* 2019, 1184, 569-575. (Scopus indexed, IF_{2019} = 2.463, Q2). [53] Sumit Tahlan, Balasubramanian Narasimhan, Siong Meng Lim, Kalavathy Ramasamy, Vasudevan Mani, **Syed Adnan Ali Shah**. Design, Synthesis and Therapeutic Potential of some 6, 6'-(1,4-phenylene)bis(4-(4-bromophenyl)pyrimidin-2-amine)analogues. *Mini-Reviews in Medicinal Chemistry*, 2019; 19(7); 609 – 621. (Scopus indexed, IF_{2019} = 2.733, Q2). [54] Sanjiv Kumar, Balasubramanian Narasimhan, Siong Meng Lim, Kalavathy Ramasamy, Vasudevan Mani, **Syed Adnan Ali Shah**. Design, Synthesis and Biological Potential of 5-(2-Amino-6-(3/4-bromophenyl)pyrimidin-4-yl)benzene-1,3-diol Scaffolds as Promising Antimicrobial and Anticancer agents. *Mini-Reviews in Medicinal Chemistry*, 2019; 19(10); 851 – 864. (Scopus indexed, IF_{2019} = 2.733, Q2). [55] Sumit Tahlan, Balasubramanian Narasimhan, Siong Meng Lim, Kalavathy Ramasamy, Vasudevan Mani, **Syed Adnan Ali Shah**. 2-Mercaptobenzimidazole Schiff Bases: Design, Synthesis, Antimicrobial Studies and Anticancer Activity on HCT-116 Cell Line. *Mini-Reviews in Medicinal Chemistry*, 2019; 19(13); 1080-1092. (Scopus indexed, IF_{2019} = 2.733, Q2). [56] Sumit Tahlan, Kalavathy Ramasamy, Siong Meng Lim, **Syed Adnan Ali Shah**, Vasudevan Mani, Balasubramanian Narasimhan. 4-(2-(1H-Benzo[d]imidazol-2-ylthio) acetamido)-N-(substituted phenyl)benzamides: design, synthesis and biological evaluation. *BMC Chemistry*, 2019, 13, Article Number: 12. DOI: 10.1186/s13065-019-0533-7. (WOS indexed, IF_{2018} = 2.493, Q2). [57] Sumit Tahlan, sanjiv Kumar, Kalavathy Ramasamy, Siong Meng Lim, **Syed Adnan Ali Shah**, Vasudevan Mani, Rajana Pathania, Narasimhan B. Design, synthesis and biological profile of heterocyclic benzimidazole analogues as prospective antimicrobial and antiproliferative agents. *BMC Chemistry*, 2019, 13, Article Number: 50. DOI: 10.1186/s13065-019-0567-x . (WOS indexed, IF_{2018} = 2.493, Q2). [58] Deepika Sharma, Sanjiv Kumar, Balasubramanian Narasimhan, Kalavathy Ramasamy, Siong Meng Lim, **Syed Adnan Ali Shah**, Vasudevan Mani. Synthesis, molecular modelling and biological significance of N-(4-(4-bromophenyl) thiazol-2-yl)-2-chloroacetamide derivatives as prospective antimicrobial and antiproliferative agents. BMC Chemistry, 2019, 13, Article Number:

		46 DOI: 10.1186/s13065-019-0564-0. (WOS indexed, IF_{2018} = 2.493, Q2). [59] Deepika Sharma, Sanjiv Kumar, Balasubramanian Narasimhan, Kalavathy Ramasamy, Siong Meng Lim, **Syed Adnan Ali Shah**, Vasudevan Mani. 4-(4-Bromophenyl)-thiazol-2-amine derivatives: synthesis, biological activity and molecular docking study with ADME profile. BMC Chemistry, 2019, 13, Article Number: 60 DOI: 10.1186/s13065-019-0575-x . (WOS indexed, IF_{2018} = 2.493, Q2). [60] Mehta Shinky, Kumar Sanjiv, Marwaha Rakesh Kumar, Narasimhan Balasubramanian, Ramasamy Kalavathy, Lim, Siong Meng, **Syed Adnan Ali Shah**, Mani, Vasudevan. Title: Synthesis, molecular docking and biological potentials of new 2-(4-(2-chloroacetyl) piperazin-1-yl)-N-(2-(4-chlorophenyl)-4-oxoquinazolin-3(4H)yl)acetamide derivatives. BMC Chemistry, 2019, 13, Issue: 1 Article Number: UNSP 113 DOI: 10.1186/s13065-019-0629-0. (WOS indexed, IF_{2018} = 2.493, Q2). [61] Kumar Sanjiv, Sharma Deepika, Narasimhan Balasubramanian, Ramasamy Kalavathy, **Syed Adnan Ali Shah**, Lim, Siong Meng, Mani, Vasudevan. Title: Computational approaches: discovery of GTPase HRas as prospective drug target for 1,3-diazine scaffolds. BMC Chemistry, 2019, 13, Article Number: UNSP 96 DOI: 10.1186/s13065-019-0613-8. (WOS indexed, IF_{2018} = 2.493, Q2). [62] Tahlan Sumit, Kumar Sanjiv, Ramasamy Kalavathy, Lim Siong Meng, **Syed Adnan Ali Shah**, Mani Vasudevan, Narasimhan Balasubramanian. In-silico molecular design of heterocyclic benzimidazole scaffolds as prospective anticancer agents. BMC Chemistry, 2019, 13, Article Number: UNSP 90 DOI: 10.1186/s13065-019-0608-5. (WOS indexed, IF_{2018} = 2.493, Q2). [63] Kumar Sanjiv, Kaushik Archana, Narasimhan Balasubramanian, **Syed Adnan Ali Shah**, Lim Siang Meng, Ramasamy Kalavathy, Mani Vasudevan. Molecular docking, synthesis and biological significance of pyrimidine analogues as prospective antimicrobial and antiproliferative agents. BMC Chemistry, 2019, 13, Article Number: UNSP 85 DOI: 10.1186/s13065-019-0601-z. (WOS indexed, IF_{2018} = 2.493, Q2). [64] Muhammad Athar Abbasi, Zareen Fatima, Aziz-ur-Rehman, Sabahat Zahra Siddiqui, Syed Adnan Ali Shah, Muhammad Shahid, Hina Fatima. Synthesis of some new N-(alkyl/aralkyl)-N-(4-methoxyphenethyl) benzenesulfonamides as antibacterial agents against Escherichia coli. Pak. J. Pharm. Sci., 2019, 32 (5), pp. 1957-1964. (Scopus indexed, IF_{2019}= 0.596, Q2). [65] Muhammad Athar Abbasi, Kaniz Rubab, Aziz-ur-Rehman, Sabahat Zahra Siddiqui,Maryam Shafique, Muhammad Ashraf, Aasia Noreen, **Syed Adnan Ali Shah.** Synthesis of some new N-(alkyl aralkyl)-N-(2,3-dihydro-1,4-benzodioxan-6-yl)-4-chlorobenzenesulfonamides as possible therapeutic entrants for

		Alzheimer's disease and Type-2 Diabetes . Pak. J. Pharm. Sci., 2019, 32 (1), pp.061-068. (Scopus indexed, IF_{2019}= 0.596, Q2). [66] Aziz-ur-Rehman, Saira Jabeen Aslam, Muhammad Athar Abbasi, Sabahat Zahra Siddiqui, Shahid Rasool, **Syed Adnan Ali Shah**. Synthesis, spectral analysis and biological evaluation of sulfamoyl and 1,3,4-oxadiazole derivatives of 3-pipecoline. Pak. J. Pharm. Sci., 2019, 32(3), pp.987-996. (Scopus indexed, IF_{2019}= 0.596, Q2). [67] Majid Nazir, Muhammad Athar Abbasi, Aziz-ur-Rehman, Sabahat Zahra Siddiqui, **Syed Adnan Ali Shah**, M Shahid, H Fatima, Sunniya Iftikhar, Rahman Shah Zaib Saleem. Synthesis of new S-substituted derivatives of 5-[3-(1H-indol-3yl)propyl]-1,3,4-oxadiazol-2-ylhydrosulfide as suitable antibacterial and anticancer agents with moderate cytotoxicity. Pak. J. Pharm. Sci., 2019, 32 (6), pp.2585-2597. (Scopus indexed, IF_{2019}= 0.596, Q2). [68] Khadija Nafeesa, Aziz-ur-Rehman, Muhammad Athar Abbasi, Sabahat Zahra Siddiqui, Shahid Rasool, **Syed Adnan Ali Shah**, Muhammad Ashraf, Bakhat Jahan, Muhammad Arif Lodhi, Farman Ali Khan. α-Glucosidase inhibitory potential and hemolytic evaluation of newly synthesized 3,4,5-trisubstituted-1,2,4-triazole derivatives. Pak. J. Pharm. Sci., 2019, 32 (6), pp.2651-2658. (Scopus indexed, IF_{2019}= 0.596, Q2). [69] Ayesha Khan, Ajmal Khan, Umar Farooq, Muhammad Taha, **Syed Adnan Ali Shah**, Sobia Ahsan Halim, Arfa Akram, Mohammed Ziauddin Khan, Abdul Khaliq Jan, Ahmed Al-Harrasi. Oxindole-based chalcones: synthesis and their activity against glycation of proteins. Medicinal Chemistry Research, 2019, 28 (6) pp 900–906. (Scopus indexed, IF_{2019} = 1.783, Q3). [70] Syed Majid Shah, Farhat Ullah, Muhammad Ayaza, Abdul Sadiq, Sajid Hussain, Azhar-ul-Haq Ali Shah, **Syed Adnan Ali Shah**, Abdul wadood, Akhtar Nadhman. β-sitosterol from Ifloga spicata (Forssk.) Sch. Bip. as potential anti-leishmanial agent against leishmania tropica: Docking and Molecular insights. Steroids, 2019, 148, pp. 56-62. (Scopus indexed, IF_{2019} = 1.948, Q2). [71] Syed Majid Shah, Farhat Ullah, Muhammad Ayaz, Abdul Sadiq, Sajid Hussain, Azhar-ul-Haq Ali Shah, **Syed Adnan Ali Shah**, Nazif Ullah, Farman Ullah, Ikram Ullah, Akhtar Nadhman. Benzoic Acid Derivatives of Ifloga spicata (Forssk.) Sch.Bip. as Potential Anti-Leishmanial against Leishmania tropica. Processes 2019, 7, 208; doi:10.3390/pr7040208. (Scopus indexed, IF_{2018} = 2.753, Q2). [72] V. Ravichandran, S. Vasanthi, S. Shalini, **Syed Adnan Ali Shah**, M. Tripathy, Neeraj Paliwal. Green synthesis, characterization, antibacterial, antioxidant and photocatalytic activity of Parkia speciosa leaves extract mediated silver nanoparticles. Results in Physics, 2019, 15, art. no. 102565. (Scopus indexed, IF_{2019}= 4.019, Q1).

		[73] NA Virk, Aziz-ur-Rehman, MA Abbasi, SZ Siddiqui, A Ashraf, J Iqbal, S Rasool, H Khalid, SJ Laulloo, SU Khan, **Syed Adnan Ali Shah.** Biological screening and docking studies of unique hybrids synthesized by conventional versus microwaveassisted techniques. Tropical Journal of Pharmaceutical Research, 2019, 18 (5), pp. 1109-1117. (Scopus indexed, IF_{2018} = 0.439, Q3). [74] Muhammad Athar Abbasi, Sajid Riaz, Aziz-ur-Rehman, Sabahat Zahra Siddiqui, **Syed Adnan Ali Shah**, Muhammad Ashraf, Muhammad Arif Lodhi, Farman Ali Khan. Synthesis of new 2-{2,3-dihydro-1,4-benzodioxin-6-yl[(4-methylphenyl) sulfonyl]amino}-N-(un/substituted-phenyl) acetamides as α-glucosidase and acetylcholinesterase inhibitors and their in silico study. Brazilian Journal of Pharmaceutical Sciences, 2019, 55, art. no. e17032. (Scopus indexed, IF_{2018} = 0.512, Q2). [75] Muhammad Athar Abbasi, Wajiha Khan, Aziz-ur-Rehman, Sabahat Zahra Siddiqui, Ghulam Hussain, **Syed Adnan Ali Shah**, Muhammad Shahid, Khalid Mohammed Khan. Journal of the Chemical Society of Pakistan, 2019, 41 (4), pp. 685-694. (Scopus indexed, IF_{2018} = 0.393, Q4). [76] Muhammad Athar Abbasi, Seon-Mi Yu, Aziz-ur-Rehman, Sabahat Zahra Siddiqui, Song Ja Kim, Hussain Raza, Mubashir Hassan, Abdul Rehman Sadiq Butt, S **Syed Adnan Ali Shah**, Sung-Yum Seo. Toxicology Reports, 2019, 6, pp. 897-903. (Scopus indexed). [77] Munawar Hussain, Zaheer Ahmed, Shamsun N. Khan, **Syed Adnan Ali Shah**, Rizwana Razi, Syahrul Imran, Muhammad Khalid, Bakhat Ali, Muhammad B. Irshad, Faisal Nawaz, Muhammad I. Chaudhry. Current Organic Chemistry, 2019, 23, 1857-1866. (Scopus indexed, IF_{2018} = 1.933, Q3). [78] Muhammad Athar Abbasi, Majid Nazir, Aziz-ur-Rehman Aziz-ur-Rehman, **Syed Adnan Ali Shah**, Muhammad Shahid, Sabahat zahra Siddiqui. Synthesis and structure-activity relationship of 1-[(E)-3-phenyl-2-propenyl] piperazine derivatives as suitable antibacterial agents with mild hemolysis. Scientia Iranica C, 2019, 26(6), 3375-3386 (Scopus indexed, IF_{2018} = 0.718, Q3). [79] Muhammad Athar Abbasi, Seong-Hui Eo, Aziz-ur-Rehman, Sabahat Zahra Siddiqui, Yohan Han, Seon-Mi Yu, Song Ja Kim, Mubashir Hassan, Hussain Raza, **Syed Anan Ali Shah**, Sung-Yum Seo. Anti-proliferative and migratory inhibition study of b16f10 in mouse melanoma cells induced by synthetic indole-oxadiazole bearing butanamides. Open J. Chem. 2019, 2(1), 21-29; doi:10.30538/psrp-ojc2019.0010. [80] Muhammad Taha, **Syed Adnan Ali Shah**, Muhammad Afifi, Syahrul Imran, Sadia Sultan, Fazal Rahim, Khalid Mohammed Khan. Synthesis, □-glucosidase inhibition and molecular docking

study of coumarin based derivatives. Bioorganic Chemistry, 2018; 77: 586-592 (Scopus indexed, IF_{2017} = 3.929).

[81] Muhammad Taha, **Syed Adnan Ali Shah**, Muhammad Afifi, Syrul Imran, Sadia Sultan, Fazal Rahim, Nor Hadiani Ismail, Khalid Mohammed Khan. Synthesis, Molecular Docking Study And Thymidine Phosphorylase Inhibitory Activity Of 3-Formylcoumarin Derivatives. Bioorganic Chemistry, 2018, 78; 17–23 . (Scopus indexed, IF_{2017} = 3.929).

[82] Hayat Ullah, Fazal Rahim, Muhammad Taha, Imad Uddin, Abdul Wadood, **Syed Adnan Ali Shah**, Rai Khalid Farooq, Mohsan Nawaz, Zainul Wahab, Khalid Mohammed Khan. Synthesis, molecular docking study and in vitro thymidine phosphorylase inhibitory potential of oxadiazole derivatives. Bioorganic Chemistry, 2018, 78; 58–67 . (Scopus indexed, IF_{2017} = 3.929).

[83] Hanif Ahmad, Shujaat Ahmada, Mumtaz Alia, Abdul Latif, **Syed Adnan Ali Shah**, Humera Naz, Najeeb ur Rahman, Farzana Shaheen, Abdul Wadood, Hidayat Ullah Khan, Manzoor Ahmad. Norditerpenoid alkaloids of Delphinium denudatum as cholinesterase inhibitors. Bioorganic Chemistry, 2018, 78; 427–435. (Scopus indexed, IF_{2017} = 3.929).

[84] Muhammad Tariq Javid, Fazal Rahim, Muhammad Taha, Mohsan Nawaz, Abdul Wadood, Muhammad Ali, Ashik Mosaddik, **Syed Adnan Ali Shah**, Rai Khalid Farooq. Synthesis, SAR elucidations and molecular docking study of newly designed isatin based oxadiazole analogs as potent inhibitors of thymidine phosphorylase. Bioorganic Chemistry, 2018, 79; 323–333. (Scopus indexed, IF_{2017} = 3.929).

[85] Muhammad Athar Abbasi, Mubashir Hassan, Aziz-ur-Rehman, Sabahat Zahra Siddiqui, Hussain Raza, **Syed Adnan Ali Shah**, Sung-Yum Seo. Synthesis, in vitro and in silico studies of novel potent urease inhibitors: N-[4- T ({5-[(3-Un/substituted-anilino-3-oxopropyl)sulfanyl]-1,3,4-oxadiazol-2-yl} methyl)-1,3-thiazol-2-yl]benzamides. Bioorganic & Medicinal Chemistry, 2018, 26; 3791-3804. (Scopus indexed, IF_{2017} = 2.881).

[86] Siti Noor Hajar Zamrus, Muhammad Nadeem Akhtar, Swee Keong Yeap, Ching Kheng Quah, Wan-Sin Loh, Noorjahan Banu Alitheen, Seema Zareen, Saiful Nizam Tajuddin, Yasmin Hussin, **Syed Adnan Ali Shah**. Design, synthesis and cytotoxic effects of curcuminoids on HeLa, K562, MCF-7 and MDA-MB-231 cancer cell lines. Chemistry Central Journal, 2018, 12:31. (Scopus indexed, IF_{2017} = 2.284).

[87] Snehlata yadav, Siong Meng Lim, Kalavathy Ramasamy, Vasudevan Mani, **Syed Adnan Ali Shah**, Abhishek Mathur, Balasubramanian Narasimhan. Synthesis and evaluation of antimicrobial, antitubercular and anticancer activities of 2-(1-benzoyl-1H-benzo[d]imidazol-2-ylthio)-N-substituted acetamides.

		Chemistry Central Journal, 2018, 12:66 (Scopus indexed, IF_{2017} = 2.284). [88] Sanjiv Kumar, Siong Meng Lim, Kalavathy Ramasamy, Vasudevan Mani, **Syed Adnan Ali Shah**, Balasubramanian Narasimhan. Design, synthesis, antimicrobial and cytotoxicity study on human colorectal carcinoma cell line of new 4,4′-(1,4-phenylene) bis(pyrimidin-2-amine) derivatives. Chemistry Central Journal, 2018, 12:73 (Scopus indexed, IF_{2017} = 2.284). [89] Saloni Kakkar, Sumit Tahlan, Siong Meng Lim, Kalavathy Ramasamy, Vasudevan Mani, **Syed Adnan Ali Shah**, Balasubramanian Narasimhan. Benzoxazole derivatives: design, synthesis and biological evaluation. Chemistry Central Journal, 2018, 12:92 (Scopus indexed, IF_{2017} = 2.284). [90] Saloni Kakkar, Sanjiv Kumar, Balasubramanian Narasimhan, Siong Meng Lim, Kalavathy Ramasamy, Vasudevan Mani, **Syed Adnan Ali Shah**. Design, synthesis and biological potential of heterocyclic benzoxazole scaffolds as promising antimicrobial and anticancer agents. Chemistry Central Journal, 2018, 12:96 (Scopus indexed, IF_{2017} = 2.284). [91] Sanjiv Kumar, Jagbir Singh, Balasubramanian Narasimhan, **Syed Adnan Ali Shah**, Siong Meng Lim, Kalavathy Ramasamy, Vasudevan Mani. Reverse Pharmacophore Mapping and Molecular Docking Studies for Discovery of GTPase HRas as Promising Drug Target for Bis-pyrimidine Derivatives. Chemistry Central Journal, 2018, 12:106 (Scopus indexed, IF_{2017} = 2.284). [92] Shubham Kashyap; sanjiv Kumar; Kalavathy Ramasamy; Siong Meng Lim; **Syed Adnan Ali Shah**; Hari Om; Narasimhan B. Synthesis, Biological Evaluation and Corrosion inhibition studies of Transition Metal Complexes of Schiff base. Chemistry Central Journal, 2018, 12:117 (Scopus indexed, IF_{2017} = 2.284). [93] Neelam Vashist, Surinder Singh Sambi, Balasubramanian Narasimhan, Sanjiv Kumar, Siong Meng Lim, **Syed Adnan Ali Shah**, Kalavathy Ramasamy, Vasudevan Mani. Synthesis and biological profile of substituted benzimidazoles. Chemistry Central Journal, 2018, 12:125. (Scopus indexed, IF_{2017} = 2.284). [94] Saloni Kakkar, Sanjiv Kumar, Siong Meng Lim, Kalavathy Ramasamy, Vasudevan Mani, **Syed Adnan Ali Shah**, Balasubramanian Narasimhan. Design, synthesis and biological evaluation of 3-(2-aminooxazol-5-yl)-2H-chromen-2-one derivatives. Chemistry Central Journal, 2018, 12:130. (Scopus indexed, IF_{2017} = 2.284). [95] Sumit Tahlan, Siong Meng Lim, Kalavathy Ramasamy, **Syed Adnan Ali Shah**, Vasudevan Mani, Balasubramanian Narasimhan. Synthesis and Therapeutic Potential of 3-(2-(1H-benzo[d]imidazol-2-ylthio)acetamido)-N-(substituted phenyl)benzamide Analogues.

Chemistry Central Journal, 2018, 12:139. (Scopus indexed, IF_{2017} = 2.284).

[96] Sumit Tahlan, Balasubramanian Narasimhan, Siong Meng Lim, Kalavathy Ramasamy, Vasudevan Mani, **Syed Adnan Ali Shah**. 2-Mercaptobenzimidazole Schiff Bases: Design, Synthesis, Antimicrobial Studies and Anticancer Activity on HCT-116 Cell Line. Mini-Reviews in Medicinal Chemistry, Published online 09 October 2018 DOI: 10.2174/1389557518666181009151008. (Scopus indexed, IF_{2017} = 2.645).

[97] Sumit Tahlan, Balasubramanian Narasimhan, Siong Meng Lim, Kalavathy Ramasamy, Vasudevan Mani, **Syed Adnan Ali Shah**. Design, Synthesis, SAR Study, Antimicrobial and Anticancer Evaluation of Novel 2- Mercaptobenzimidazole Azomethine Derivatives. Mini-Reviews in Medicinal Chemistry, Published online 03 September 2018, DOI: 10.2174/1389557518666180903151849. (Scopus indexed, IF_{2017} = 2.645).

[98] Majid Nazir, Muhammad Athar Abbasi, Aziz-ur-Rehman, Sabahat Zahra Siddiqui,Hussain Raza, Mubashir Hassan, **Syed Adnan Ali Shah**, Muhammad Shahid, Sung-Yum Seo. Novel indole based hybrid oxadiazole scaffolds with N-(substituted-phenyl)butanamides: synthesis, lineweaver–burk plot evaluation and binding analysis of potent urease inhibitors. RSC Adv., 2018, 8, 25920–25931. (Scopus indexed, IF_{2017} = 2.936).

[99] Sanila Amber, **Syed Adnan Ali Shah**, Touqeer Ahmed, Saadia Zahid. Syzygium aromaticum ethanol extract reduces AlCl3-induced neurotoxicity in mice brain through regulation of amyloid precursor protein and oxidative stress gene expression. Asian Pacific Journal of Tropical Medicine, 2018; 11(2): 123-130. (Scopus indexed, IF_{2017} = 1.634).

[100] Umer Javed Butt, **Syed Adnan Ali Shah**, Touqeer Ahmed, Saadia Zahid. Protective effects of Nigella sativa L. seed extract on lead induced neurotoxicity during development and early life in mouse models. Toxicol. Res., 2018; 7: 32-40. (Scopus indexed, IF_{2017} = 1.89).

[101] Sheharbano Bhatti, **Syed Adnan Ali Shah**, Touqeer Ahmed, Saadia Zahid. Neuroprotective effects of Foeniculum vulgare seeds extract on lead-induced neurotoxicity in mice brain. Drug and Chemical Toxicology, 2018, 41(4), 399-407. (Scopus indexed, IF_{2017} = 1.531).

[102] Hanif Ahmad, Shujaat Ahmad, **Syed Adnan Ali Shah**, Hidayat Ullah Khan, Farman Ali Khan, Mumtaz Ali, Abdul Latif, Farzana Shaheen, Manzoor Ahmad. Selective dual cholinesterase inhibitors from Aconitum laeve. Journal of Asian Natural Products Research, 2018; 20(2): 172–181. (Scopus indexed, IF_{2017} = 1.091).

		[103] A.M. Alhassan, Q.U. Ahmed, J. Latip, **Syed Adnan Ali Shah**, A.'a.Y.F. Khan, M.N. Sarian, R.A. Wahab, M. Taher, M.I. Abdullahi, A. Khatib. Phytoconstituents from Vernonia glaberrima Welw. Ex O. Hoffm. leaves and their cytotoxic activities on a panel of human cancer cell lines. South African Journal of Botany, 2018; 116: 16-24. (Scopus indexed, $IF_{2017} = 1.442$). [104] Addila Abu Bakar, Muhammad Nadeem Akhtar, Norlaily Mohd Ali, Swee Keong Yeap, Ching Kheng Quah, Wan-Sin Loh, Noorjahan Banu Alitheen, Seema Zareen, Zaheer Ul-Haq, **Syed Adnan Ali Shah**. Design, Synthesis, Docking studies of Flavokawain B types Chalcones and Their Cytotoxic Effects on MCF-7 and MDA-MB-231 Cell Lines., Molecules 2018, 23, 616; doi:10.3390/molecules23030616. (Scopus indexed, $IF_{2017} = 3.098$). [105] Muhammad Athar Abbasi, Mubashir Hassan, Aziz-ur-Rehman, Sabahat Zahra Siddiqui, **Syed Adnan Ali Shah**, Hussain Raza, Sung Yum Seo. Synthesis, enzyme inhibitory kinetics mechanism and computational study of N -(4-methoxyphenethyl)-N -(substituted)-4-methylbenzenesulfonamides as novel therapeutic agents for Alzheimer's disease. PeerJ, 2018, DOI 10.7717/peerj.4962. (Scopus indexed, $IF_{2017} = 2.2$). [106] Muhammad Athar Abbasi, Mubashir Hassan, Aziz ur-Rehman, Sabahat Zahra Siddiqui, Ghulam Hussain, **Syed Adnan Ali Shah**, Muhammad Ashraf, Muhammad Shahid,Sung Yum Seo. 2-Furoic piperazide derivatives as promising drug candidates of type 2diabetes and Alzheimer's diseases: In vitro and in silico studies. Computational Biology and Chemistry, 2018, 77, 72–86. (Scopus indexed, $IF_{2017} = 1.412$). [107] Mubashir Hassan, Muhammad Athar Abbasi, Aziz-ur-Rehman , Sabahat Zahra Siddiqui, Ghulam Hussain, **Syed Adnan Ali Shah**, Muhammad Shahid, Sung-Yum Seo. Exploration of synthetic multifunctional amides as new therapeutic agents for Alzheimer's disease through enzyme inhibition, chemoinformatic properties, molecular docking and dynamic simulation insights. Journal of Theoretical Biology, 2018, 458, 169–183. (Scopus indexed, $IF_{2017} = 1.833$). [108] Aziz-ur-rehman, Khadija nafeesa, Muhammad athar abbasi, Sabahat zahra saddiqui, Shahid rasool, **Syed Adnan Ali Shah**, Muhammad ashraf, Muhammad arif lodhi, Farman ali khan, Bakht jahan. S-substituted derivatives of 1,2,4-triazol-3-thiol as new drug candidates for type II diabetes. Turk J Chem., 2018, 42: 652 – 671. (Scopus indexed, $IF_{2017} = 1.377$). [109] Muhammad S Ramzan, Muhammad A Abbasi, Aziz-ur-Rehman, Sabahat Z Siddiqui, **Syed Adnan Ali Shah**, Muhammad Ashraf, Muhammad A Lodhi, Farman A Khan, Bushra Mirza. Synthesis of 2-{[5-(aralkyl/aryl)-1,3,4-oxadiazol-2- yl]sulfanyl}-N-(4-methyl-1,3-thiazol-2-yl)acetamides: Novel bi-heterocycles as potential

		therapeutic agents. Trop. J. Pharm. Res. 2018; 17(5): 913-926. (Scopus indexed, $IF_{2017} = 0.444$). [110] Aziz-ur-Rehman, N Ahtzaz, MA Abbasi, SZ Siddiqui, S Saleem, S Manzoor, J Iqbal, NA Virk, TA Chohan, **Syed Adnan Ali Shah**. Synthesis of some new propanamide derivatives bearing 4-piperidinyl-1,3,4-oxadiazole, and their evaluation as promising anticancer agents. Trop. J. Pharm. Res. 2018; 17(6): 1145-1153. (Scopus indexed, $IF_{2017} = 0.444$). [111] Ghulam Hussain, Muhammad A Abbasi, Aziz-ur-Rehman, Sabahat Z Siddiqui, Irshad Ahmad, Rabia Malik, Muhammad Shahid, Zahid Mushtaq, **Syed Adnan Ali Shah**. Synthesis of 3-[4-(2-furoyl)-1-piperazinyl]-N- (substituted)propanamides as promising antibacterial agents with mild cytotoxicity. Trop. J. Pharm. Res. 2018; 17(7): 1397-1406. (Scopus indexed, IF_{2017}= 0.444). [112] Aziz-ur-rehman, Almas sattar, Muhammad athar abbasi, Sabahat z. siddiqui, Muhammad ashraf, Munibaanum nazir, **Syed Adnan Ali Shah**. Synthesis and Structural Analysis of Persuasive Antibacterial Agents and Enzyme Inhibitors Derived from 5-(1-(4-Tosyl)piperidin-4-yl)-1,3,4-oxadiazol-2-thiol. Asian J. Chem. 2018; 30(2): 260-264. (Scopus indexed). [113] Qamar Uddin Ahmed, Alhassan Muhammad Alhassan , Alfi Khatib , **Syed Adnan Ali Shah**, Muhammad Mahmudul Hasan, Murni Nazira Sarian. Antiradical and Xanthine Oxidase Inhibitory Activity Evaluations of Averrhoa bilimbi L. Leaves and Tentative Identification of Bioactive Constituents through LC-QTOF-MS/MS and Molecular Docking Approach. Antioxidants, 2018, 7, 137; doi:10.3390/antiox7100137. (Scopus indexed). [114] Ghulam Hussain, Muhammad Athar Abbasi, Aziz-ur-Rehman, Sabahat Zahra Siddiqui, **Syed Adnan Ali Shah**, Irshad Ahmad, Rabia Malik, Muhammad Shahid, Muhammad Salman Sarwar. Synthesis of some new 2-[4-(2-furoyl)-1-piperazinyl]-N-aryl/aralkyl acetamides as potent antibacterial agents. Pak. J. Pharm. Sci., Vol. 31, No.3, May 2018, 857-866. (Scopus indexed, $IF_{2017} = 0.804$). [115] Muhammad Shahid Ramzan, Muhammad Athar Abbasi, Aziz-ur-Rehman, Sabahat Zahra Siddiqui, **Syed Adnan Ali Shah**, Muhammad Ashraf, Bushra Mirza, Hammad Ismail. 2-{[5-(Substituted-phenyl)-1,3,4-oxadiazol-2-yl]sulfanyl}-N-(1,3-thiazol-2-yl)acetamides: New bi-heterocycles as possible therapeutic agents. Pak. J. Pharm. Sci., Vol.31, No.3(Suppl), May 2018, pp.1051-1059. (Scopus indexed, $IF_{2017} = 0.804$). [116] Naeem Akhtar Virk, Aziz-ur-Rehman, Muhammad Athar Abbasi, Sabahat Zahra Siddiqui, Umer Rashid, Javed Iqbal, Muhammad Saleem, Muhammad Ashraf, Wardah Shahid, **Syed Adnan Ali Shah**. Conventional versus microwave assisted synthesis, molecular docking and enzyme inhibitory activities of

		new 3,4,5-trisubstituted-1,2,4-triazole analogues. Pak. J. Pharm. Sci., Vol.31, No.4(Suppl), July 2018, pp.1501-1510. (Scopus indexed, IF_{2017}= 0.804). [117] Aziz-ur-Rehman, Asia Siddiqa, Muhammad Athar Abbasi, Sabahat Zahra Siddiqui, Samreen Gul Khan, Shahid Rasool, **Syed Adnan Ali Shah**. Synthesis, spectral analysis and antibacterial activity of some novel 5- substituted-2-((6-bromo-3,4-methylenedioxybenzyl)thio)-1,3,4- oxadiazole derivatives. Pak. J. Pharm. Sci., Vol.31, No.5, September 2018, pp.1783-1790. (Scopus indexed, IF_{2017} = 0.804). [118] Javed iqbal, Aziz ur rehman, Muhammad athar abbasi, Sabahat zahra siddiqui, Hira khalid, Sabina jhaumeer laulloo, Nausheen joondan, Aniisah banu taupass, Shahid rasool, **Syed Adnan Ali Shah**. Synthesis of acetamide derivatives of 1,2,4-triazole bearing azinane and their binding interactions with bovine serum albumin (BSA) using spectroscopic techniques. Turk J Chem. 2018. 42: 1459 – 1478. (Scopus indexed, IF_{2017} = 1.377). [119] Muhammad Athar Abbasi, Ghulam Hussain, Aziz-ur-Rehman, Sabahat Zahra Siddiqui, Irshad Ahmad, Rabia Malik, Muhammad Shahid, Muhammad Salman Sarwar, **Syed Adnan Ali Shah**. Synthesis of 2-Furyl[(4-aralkyl)-1-piperazinyl]methanone derivatives as suitable antibacterial agents with mild cytotoxicity. Pak. J. Pharm. Sci. Vol.31, No.6, November 2018, pp. 2477-2485. (Scopus indexed, IF_{2017} = 0.804). [120] Muhammad Arfan, Sabahat Zahra Siddiqui, Muhammad Athar Abbasi, Aziz-ur-Rehman, **Syed Adnan Ali Shah**, Muhammad Ashraf, Jameel Rehman, Rehman Shah Zaib Saleem. Synthesis, in vitro and in silico studies of S-alkylated 5-(4- methoxyphenyl)-4-phenyl-4H-1,2,4-triazole-3-thiols as cholinesterase inhibitors. Pak. J. Pharm. Sci. Vol.31, No.6(Suppl), November 2018, pp. 2697-2708. (Scopus indexed, IF_{2017} = 0.804). [121] Muhammad A A, Aziz-ur-Rehman, Sabahat Z, **Syed Adnan Ali Shah**, Muhammad S. Synthesis and Bioactivity of Novel Tri-Heterocyclic Molecules: {4-[3-({[5-(Substituted)-1,3,4-Oxadiazol-2-Yl]Sulfanyl}Methyl) Benzoyl]-1-Piperazinyl}(2-Furyl)Methanones. Arc Org Inorg Chem Sci 1(2)-2018. AOICS.MS.ID.000108. [122] Abhishek Mathur, Siong Meng Lim, vasudevan mani, Ms Snehlata Yadav, Kalavathy Ramasamy, **Syed Adnan Ali Shah**. Synthesis and evaluation of antimicrobial, antitubercular and anticancer activities of benzimidazole derivatives. Egyptian Journal of Basic and Applied Sciences. 2018, 5, 100–109. [123] Aziz-ur Rehman, Javed Iqbal, Muhammad Athar Abbasi, Sabahat Zahra Siddiqui, Hira Khalid, Sabina Jhaumeer Laulloo, Naeem Akhtar Virk, Shahid Rasool, **Syed Adnan Ali Shah**. Compounds with 1,3,4-oxadiazole and azinane appendages to

		evaluate enzymes inhibition applications supported by docking and BSA binding. Cogent Chemistry, 2018, 4: 1441597 https://doi.org/10.1080/23312009.2018.1441597. [124] Aziz-ur Rehman, Khadija Nafeesa, Muhammad Athar Abbasi, Sabahat Zahra Siddiqui, Shahid Rasool, **Syed Adnan Ali Shah**, Muhammad Ashraf. Synthesis of new heterocyclic 3-piperidinyl-1,3,4-oxadiazole derivatives as potential drug candidate for the treatment of Alzheimer's disease. Cogent Chemistry, 2018, 4: 1472197 https://doi.org/10.1080/23312009.2018.1472197. [125] Muhammad Athar Abbasi, Ayesha Mumtaz, Aziz-ur-Rehman, Sabahat Zahra Siddiqui, **Syed Adnan Ali Shah**, Muhammad Shahid. Hemolytic profile of novel tri-heterocyclic benzamides. MOJ Bioequivalence & Bioavailability. Availab. 2018;5(3):135–139. [126] Anis Fadhlina Izyani Awang, Qamar Uddin Ahmed, **Syed Adnan Ali Shah**, Juliana Md. Jaffri, Kashif Ghafoor, A.B.M. Helal Uddin, Sahena Ferdosh, Md. Zaidul Islam Sarker. Isolation and characterization of novel antibacterial compound from an untapped plant, Stereospermum fimbriatum. Natural Product research, Accepted 26 June 2018. (In Press, Scopus indexed, $IF_{2017} = 1.928$). [127] Muhammad Taha, **Syed Adnan Ali Shah**, Muhammad Afifi, Manar Zulkeflee, Sadia Sultan, Abdul Wadood, Fazal Rahim, Nor Hadiani Ismail. Morpholine hydrazone scaffold: synthesis, anticancer activity and docking studies. Chinese Chemical Letters, 2017, 28, 607-611 (Scopus indexed, $IF_{2017} = 2.631$). [128] Muhammad Taha, **Syed Adnan Ali Shah**, Syahrul Imran, Muhammad Afifi, Sridevi Chigurupati, Manikandan Selvaraj, Fazal Rahim, Hayat Ullah, Khalid Zaman, Shantini Vijayabalan. Synthesis and in vitro study of benzofuran hydrazone derivatives as novel alpha-amylase inhibitor. Bioorganic Chemistry 75 (2017) 78–85. (Scopus indexed, $IF_{2017} = 3.929$). [129] Krishnamoorthy Venkateskumar, Subramani Parasuraman, Raju Gunasunderi, Krishnan Sureshkumar, M. Muralidhar Nayak, **Syed Adnan Ali Shah**, Khassen Khoo, Heng Wei Kai. Acyclovir-Polyethylene Glycol 6000 Binary Dispersions: Mechanistic Insights. AAPS PharmSciTech, Vol. 18, No. 6, August 2017, 2085-2094. (Scopus indexed, $IF_{2017} = 2.666$). [130] Harmeet Kaur, Siong Meng Lim, Kalavathy Ramasamy, Mani Vasudevan, **Syed Adnan Ali Shah**, Balasubramanian Narasimhan. Diazenyl schiff bases: Synthesis, spectral analysis, antimicrobial studies and cytotoxic activity on human colorectal carcinoma cell line (HCT-116). Arabian Journal of Chemistry, 2017, 1-16. (Scopus indexed, $IF_{2017} = 2.969$). [131] Sanjiv Kumar, Siong Meng Lim, Kalavathy Ramasamy, Mani Vasudevan, **Syed Adnan Ali Shah**, Balasubramanian Narasimhan. Bis-pyrimidine acetamides: design, synthesis and biological

		evaluation. Chemistry Central Journal, 2017, 11:80. (Scopus indexed, IF_{2017} = 2.284). [132] Sanjiv Kumar, Siong Meng Lim, Kalavathy Ramasamy, Mani Vasudevan, **Syed Adnan Ali Shah**, Manikandan Selvaraj, Balasubramanian Narasimhan. Synthesis, molecular docking and biological evaluation of bis-pyrimidine Schiff base derivatives. Chemistry Central Journal, 2017, 11:89. (Scopus indexed, IF_{2017} = 2.284). [133] Snehlata Yadav, Balasubramanian Narasimhan, Siong M. Lim, Kalavathy Ramasamy, Mani Vasudevan, **Syed Adnan Ali Shah**, Manikandan Selvaraj. Synthesis, characterization, biological evaluation and molecular docking studies of 2-(1H-benzo[d] imidazol-2-ylthio)-N-(substituted 4-oxothiazolidin-3-yl) acetamides. Chemistry Central Journal, 2017, 11:137. (Scopus indexed, IF_{2017} = 2.284). [134] Hanif Ahmad, Shujaat Ahmad, **Syed Adnan Ali Shah**, Abdul Latif, Mumtaz Ali, Farman Ali Khan, Muhammad Nawaz Tahir, Farzana Shaheen, Abdul Wadood, Manzoor Ahmad. Antioxidant and anticholinesterase potential of diterpenoid alkaloids from Aconitum heterophyllum. Bioorganic & Medicinal Chemistry, 2017, 25, 3368–3376. (Scopus indexed, IF_{2017} = 2.881). [135] Aliya Khalid, Rabia Shakeel, Saira Justin, Ghazala Iqbal, **Syed Adnan Ali Shah**, Saadia Zahid , Touqeer Ahmed. Pharmacological Effects of Turmeric on Learning, Memory and Expres- sion of Muscarinic Receptor Genes (M1, M3 and M5) in Stress-induced Mouse Model. Current Drug Targets, 2017, 18, 1545-1557. (Scopus indexed, IF_{2017} = 3.112). [136] Muhammad Athar Abbasi, Ghulam Hussain, Aziz-ur-Rehman, Sabahat Zahra Siddiqui, **Syed Adnan Ali Shah**, Muhammad Arif Lodhi, Farman Ali Khan, Muhammad Ashraf, Qurat-ul-Ain, Irshad Ahmad, Rabia Malik, Muhammad Shahid, Zahid Mushtaq. Synthesis of Some Unique Carbamate Derivatives bearing 2-Furoyl-1-piperazine as Valuable Therapeutic Agents. Acta Chim. Slov. 2017, 64, 159–169. DOI: 10.17344/acsi.2016.2986. (Scopus indexed, IF_{2017} = 1.104). [137] Aziz-ur-Rehman, A. Arif, M. A. Abbasi, S. Z. Siddiqui, S. Rasool, **Syed Adnan Ali Shah**. Synthesis and Pharmacological Screening: Sulfa Derivatives of 2-Pipecoline-Bearing 1,3,4-Oxadiazole Core1. Russian Journal of Bioorganic Chemistry, 2017, 43, 3, 328–339. (Scopus indexed, IF_{2017} = 0.838). [138] G. Hussain, M.A. Abbasi, Aziz-ur-Rehman, S.Z. Siddiqui, **Syed Adnan Ali Shah**, M. Ashraf, Qurat-ul-Ain, I. Ahmad, R. Malik, M.A. Lodhi, F.A. Khan, M. Shahid, H. Fatima., Synthesis and in silico study of 2-Furyl(4-{4-[(substituted)sulfonyl]benzyl}-1-piperazinyl)methanone derivatives as suitable therapeutic entrants.

		Braz. J. Pharm. Sci. **2017**;53(1):e15237. (Scopus indexed, IF_{2017} = 0.483). [139] M.A. Abbasi, Aziz-ur-Rehman, S.Z. Siddiqui, A. Sheeza, S. Nazir, I. Ahmad, R. Malik, **Syed Adnan Ali Shah**. Synthesis, Antibacterial and Lipoxygenase Inhibition Studies of N-Alkyl/Aralkyl-N-(2,3-Dihydro-1,4-benzodioxin-6-yl)-4-methylbenzenesulfonamides. Turk. J. Pharm. Sci. 2017, 14(1), 49-55. DOI: 10.4274/tjps.84756. (Scopus indexed) [140] Javed Iqbal, Aziz-ur-Rehman, Muhammad Athar Abbasi, Sabahat Zahra Siddiqui, Shahid Rasool, **Syed Adnan Ali Shah**. Synthesis, Multiparametric Structure Assessment and Biological Evaluation of Some New 1,3,4-Oxadiazoles having Piperidine Nucleus. Asian Journal of Chemistry, 2017, 29(9), 1901-1906. (Scopus indexed). [141] Muhammad Taha, Sadia Sultan, Mohamad Azlan, **Syed Adnan Ali Shah**, Waqas Jamil, Swee Keong Yeap, Shyarul Imran, Muhammad Nadeem Akhtar, Seema Zareen, Nor Hadiani Ismail, Muhammad Ali. Synthesis of a series of new 6-Nitrobenzofuran-2-carbohydrazide derivatives with cytotoxic and antioxidant activity. New Horizons in Translational Medicine. New Horizons in Translational Medicine, 2017, 4, 23–30. (Scopus indexed). [142] Muhammad Athar Abbasi, Aziz-ur-Rehman, Sabahat Zahra Siddiqui,Kaniz Rubab, Ghulam Hussain, Muhammad Ashraf, Umber Alam, Muhammad Arif Lodhi,Farman Ali Khan, **Syed Adnan Ali Shah**. Synthesis, Enzyme Inhibition and Molecular Docking Studies on 1-Arylsulfonyl-4-Phenylpiperazine Derivatives. Pak. J. Pharm. Sci., **2017**, 30(5), 1715-1724. (Scopus indexed, IF_{2017} = 0.804). [143] Kaniz Rubab , Muhammad Athar Abbasi1, Aziz-ur-Rehman , Sabahat Zahra Siddiqui , **Syed Adnan Ali Shah**, Muhammad Ashraf, Qurat-ul-Ain , Irshad Ahmad , Muhammad Arif Lodhi , Mehreen Ghufran , Muhammad Shahid, Hina Fatima. Synthesis, Pharmacological screening and computational analysis of some 2-(1H-Indol-3-yl)-N'-[(un)substituted phenylmethylidene] acetohydrazides and 2-(1H-Indol-3-yl)-N'-[(un)substituted benzoyl/2- thienylcarbonyl]acetohydrazides Pak. J. Pharm. Sci., **2017**, 30(4), 1263-1274. (Scopus indexed, IF_{2017} = 0.804). [144] J Iqbal, Aziz-ur-Rehman, MA Abbasi, SZ Siddiqui, S Rasool, K Nafeesa, SG Khan, **Syed Adnan Ali Shah**. Synthesis of N-substituted acetamide derivatives of azinane-bearing 1,3,4-oxadiazole nucleus and screening for antibacterial activity. Tropical Journal of Pharmaceutical Research, 2017, 16(2), 429-437 (Scopus indexed, IF_{2017} = 0.444). [145] A Munir, Aziz-ur-Rehman, MA Abbasi, SZ Siddiqui, A Nasir, SG Khan, S Rasool, **Syed Adnan Ali Shah**. Synthesis and Molecular

		Docking Supported Pharmacological Evaluation of New Hydrazones Derived from Ethyl Isonipecotate. Tropical Journal of pharmaceutical Research. 2017, 16 (5), 1157-1165. (Scopus indexed, IF_{2017} = 0.444). [146] Kamran ashraf, Altaf ahmad, **Syed Adnan Ali Shah**, Mohd mujeeb. Genetic diversity in accessions of indian turmeric (curcuma longa l.) using rapid markers. Int J Pharm Sci, 2017, Vol 9, Issue 10, 288-291. [147] Kamran ashraf, Sadia sultan, **Syed Adnan Ali Shah**. Phytochemistry, phytochemical, pharmacological and molecular study of zingiber officinale rosco e: a review. Int J Pharm Sci, 2017, Vol 9, Issue 11, 8-16. [148] Saira erum, Sadia sultan, **Syed Adnan Ali Shah**, Muhammad ashraf, Muhammad iqbal choudhary. Microbial oxidation of finasteride with macrophomina phaseolina (kucc 730). Int J Pharm Sci, 2017, Vol 9, Issue 11, 17-20. [149] Khadija Nafeesa, Aziz-ur-Rehman, Muhammad A. Abbasi, Sabahat Z. Siddiqui, Shahid Rasool, **Syed Adnan Ali Shah**. Synthesis, characterization and pharmacological evaluation of different 1,3,4-oxadiazole and acetamide derivatives of ethyl nipecotate. Bulletin of Faculty of Pharmacy, Cairo University, 2017, 55, 333–343. [150] Abbasi MA, AurangZeb, Aziz-ur-Rehman, Siddiqui SZ, **Syed Adnan Ali Shah**, Ashraf M, Qurat-ul-Ain. Synthetic N-(Alkyl/Aralkyl)-N-(2,3-Dihydro-1,4- Benzodioxin-6-Yl)-4-Methylbenzenesulfonamides as Acetyl cholinesterase Inhibitors. Nov Appro Drug Des Dev. 2017; 1(5) : 555573. [151] MMR Meor Affandi, Minaketan Tripathy, **Syed Adnan Ali Shah**, ABA Abdul Majeed. Solubility enhancement of simvastatin by arginine: Thermodynamics, solute solvent interactions and spectral analysis. Drug Design, Development and Therapy, 2016, 10, 959-969 (Scopus indexed, IF_{2017} = 2.935). [152] Abbasi, M.A.; Islam M.; Aziz-ur-Rehman.; Rasool, S.; Rubab, K.; Hussain, G.; Ahmad, I.; Ashraf, M.; Shahid, M.; **Syed Adnan Ali Shah**. Synthesis, Characterization, Antibacterial, α-Glucosidase Inhibition and Hemolytic Studies on Some New N-(2,3-Dimethylphenyl)benzenesulfonamide Derivatives. Tropical Journal of Pharmaceutical Research, 2016, 15 (3), 591-598 (Scopus indexed, IF_{2017} = = 0.444). [153] Sridevi Chigurupati, Neeraj Kumar Fuloria, Shivkanya Fuloria, Sundram Karupiah, Ravichandran Veerasamy, Appala Raju Nemala, Lim Jun Yi, Ang xiang Ilan, **Syed Adnan Ali Shah**. Synthesis and antibacterial profile of novel azomethine derivatives of β-phenylacrolein moiety. Tropical Journal of Pharmaceutical Research, 2016; 15 (4), 821-826. (Scopus indexed, IF_{2017} = 0.444).

		[154] Shujaat Ahmad, Hanif Ahmad, Hidayat Ullah Khan, Adnan Shahzad, Ezzat Khan, **Syed Adnan Ali Shah**, Mumtaz Ali, Abdul Wadud, Mehreen Ghufran, Humera Naz, Manzoor Ahmad. Crystal structure, phytochemical study and enzyme inhibition activity of Ajaconine and Delectinine. Journal of Molecular Structure. 2016, 1123, 441-448. (Scopus indexed, IF_{2017} = 2.011). [155] Veerasamy Ravichandran, Sethu Vasanthi, Sivadasan Shalini, **Syed Adnan Ali Shah**, Rajak Harish. Green synthesis of silver nanoparticles using Atrocarpus altilis leaf extract and the study of their antimicrobial and antioxidant activity. Materials Letters, 2016, 80, 264–267. (Scopus indexed, IF_{2017} = 2.687). [156] M. A. Abbasi, S. Tariqa, Aziz ur Rehman, S. Z. Siddiqui, I. Ahmadb, R. Malik, **Syed Adnan Ali Shah**. Synthesis of Some New N Substituted N (2,3 Dihydro [1,4] benzodioxin 6 yl) 4 Acetamidobenzenesulfonamides as Valuable Antibacterial Agents. Russian Journal of Bioorganic Chemistry, 2016, 42, (2), 198–209. (Scopus indexed, IF_{2017} = 0.838). [157] Aziz-ur-Rehman, Shahid Rasool, Muhammad Athar Abbasi, Sabahat Zahra Siddiqui, **Syed Adnan Ali Shah**. Synthesis, spectral analysis and antibacterial evaluation of N'-substituted-2-(5-(3-chlorophenyl)-1,3,4-Oxadiazol-2-ylthio)acetohydrazide derivatives. Pak. J. Pharm. Sci., 2016, 29 (4), 1307-1315. (Scopus indexed, IF_{2017} = 0.804). [158] Ghulam Hussain, Muhammad Athar Abbasi, Aziz-ur-Rehman, Sabahat Zahra Siddiqui, Muhammad Ashraf, Aasia Noreen, Muhammad Arif Lodhi, Farman Ali Khan, Muhammad Shahid, Zahid Mushtaq, **Syed Adnan Ali Shah**. Synthesis and Molecular Docking Study of Some New 4-{[4-(2-Furoyl)- 1-piperazinyl]methyl}-N-(substituted-phenyl)benzamides as Possible Therapeutic Entrants for Alzheimer's Disease. Med chem (Los Angeles), 2016, 6(2): 129-136. [159] Sharifah Nurfazilah Wan Yusop, Sadia Sultan, Bohari M. Yamin, **Syed Adnan Ali Shah**, Humera Naz. 11□-Hydroxymedroxyprogesterone. IUCrData, 2016, 1, x161075. http://dx.doi.org/10.1107/S2414314616010750. [160] Aziz-ur-Rehman, Muhammad Athar Abbasi, Sabahat Zahra Siddiqui, Ayesha Mohyuddin, Sohail Nadeem, **Syed Adnan Ali Shah**. Synthesis, spectral analysis and biological evaluation of N-alkyl/aralkyl/aryl-4-chlorobenzenesulfonamide derivatives. Pak. J. Pharm. Sci., 29 (5), 2016, 1489-1496. (Scopus indexed, IF_{2017} = 0.804). [161] Shahid Rasool, Aziz-ur-Rehman, Muhammad Athar Abbasi, Sabahat Zahra Siddiqui, **Syed Adnan Ali Shah**, Sidra Hassan, Irshad Ahmad. Synthesis, Structural Elucidation, and Antibacterial Evaluation of Some New Molecules Derived from Coumarin, 1,3,4-

		Oxadiazole, and Acetamide. Organic Chemistry International, Volume 2016, Article ID 8696817, 1-10. [162] K. Venkateskumar, R. Gunasunderi, S. Parasuraman, K. Sureshkumar, M. M. Nayak, **Syed Adnan Ali Shah**, K. Khassen, H. W. Kai. Mechanistic Insights into Acyclovir-Polyethylene Glycol 6000 Binary Dispersions. International Journal of Pharmaceutical Investigation, 6(4), 2016, 194-200. [163] Kamran Ashraf, **Syed Adnan Ali Shah**, Mohd Mujeeb. Determination of 10-gingerol in indian ginger by validated hptlc method of samples collected across subcontinent of india. Int. J. Pharm. Pharm. Sci. Vol 8 Issue 12, December 2016, 190-193 (Scopus indexed). [164] Sabahat Zahra Siddiqui, Afzaal Sarwar, Muhammad Athar Abbasi, Aziz-ur-Rehman, Mazhar Hussain, Muhammad Irshad, **Syed Adnan Ali Shah**. Synthetic N-Aralkylated-N-(2,4-dimethylphenyl)benzenesulfonamides: As Potent Anti-Bacterial Agents. J.Chem.Soc.Pak., 38(6), 2016, 1151-1158. (Scopus indexed, IF_{2017}= 0.28). [165] Anouar, El H., Zakaria, N.S.S., **Syed Adnan Ali Shah**. α-Glucosidaseactivity of oleanolic acid and its oxidative metabolites: DFT and Docking studies. Mini Rev. Med. Chem. 2015, 15, 1148-1158. (Scopus indexed, IF_{2017} = 2.645). [166] Akhtar, M.N.; Sakeh, N.F.M.; Zareen, S.; Gul, S.; Lo, K.M.; Zaheer-Ul-Haq, **Syed Adnan Ali Shah**, Ahmad, S. Design and Synthesis of Chalcone Derivatives as Potent Tyrosinase Inhibitors and Their Structural Activity Relationship. Journal of Molecular Structure. 2015, 1085, 97-103 (Scopus indexed, IF_{2017} = 2.011). [167] Ismail, N.; Akhtar, M.N.; Ismail, M.; Zareen,S.; **Syed Adnan Ali Shah**. Lajis, N. H.; Tajuddina, S.N. Neuroprotective Effects of Stem Bark of Knema laurina extracts Against H_2O_2 and Aβ1-42-induced Cell Death in Human SH-SY5Y Cells. Natural Product Research, 2015, 29(16), 1571-1574 (Scopus indexed, IF_{2017} = 1.928). [168] Taha, M, Nor H Ismail; Ajmal Khan; **Syed Adnan Ali Shah**; Ammarah Anwar; Sobia A Halim; M. Qaiser Fatmi; FazalbRahim. Synthesis of Novel Derivatives of Oxindole, their Urease Inhibition and Molecular Docking Studies. Bioorganic & Medicinal Chemistry Letters, 2015, 25, 3285-3289 (Scopus indexed, IF_{2017} = 2.442). [169] Shahid rasool, Aziz-ur-rehman, Muhammad athar abbasi, Sabahat zahra siddiqui, **Syed Adnan Ali Shah**, irshad ahmad, saira afzal. Antibacterial and enzyme inhibition screening of some new acetamide and azomethine derivatives. J. Chil. Chem. Soc., 2015, 60, No 4, 2704-2710 (Scopus indexed, IF_{2017}= 0.463). [170] Muhammad Taha, **Syed Adnan Ali Shah**, Ajmal Khan, Fiza Arshad, Nor Hadiani Ismail, Muhammad Afifi, Syahrul Imran, Muhammad Iqbal Choudhary. Synthesis of 3,4,5-trihydroxybenzohydrazone and evaluation of their urease inhibition

potential. Arabian Journal of Chemistry, 2015 (In Press, Scopus indexed, $IF_{2017} = 2.969$).

[171] Muhammad Taha, Khaled A.A. Alkadi, Nor Hadiani Ismail, Syahrul Imran, Aishah Adam, Syed Muhammad Kashif , **Syed Adnan Ali Shah**, Waqas Jamil, Salman Sidiqqui, Khalid Mohammed Khan. Antiglycation and antioxidant potential of novel imidazo[4,5-b]pyridine benzohydrazones. Arabian Journal of Chemistry, 2015 (In Press, Scopus indexed, $IF_{2017} = 2.969$).

[172] Muhammad A Abbasi, Rabia Khizer, Aziz-ur-Rehman, Sabahat Z Siddiqui, Kaniz Rubab, Rabia Malik, Irshad Ahmad, **Syed Adnan A. Shah**. Synthesis, Antibacterial and Lipoxygenase Inhibition Studies on Some N-(4-{[(Alkyl/aralkyl)(phenethyl)amino]sulfonyl}phenyl) acetamides. Turk J Pharm Sci 12(3), 257-266, 2015. (Scopus indexed)

[173] Choudhary, M.I.; Atif, M.; **Syed Adnan Ali Shah**. Sultan, S. Solid phase microbial reactions of sex hormone, trans-androsterone with filamentous fungi. Int. J. Pharm. Pharm. Sci. 2015, 7 (1), 385-388. (Scopus indexed).

[174] Atif, M.; **Syed Adnan Ali Shah**; Sultan, S.; Choudhary, M.I. Solid phase microbial fermentation of anabolic steroid, dihydrotestosterone with ascomycete fungus fusarium oxysporum. Int. J. Pharm. Pharm. Sci. 2015, 7(4), 104-107 (IScopus indexed).

[175] M. A. Abbasi, S. Manzoor, Aziz-ur-Rehman, S. Z. Siddiqui, I. Ahmad, R. Malik, M. Ashraf Qurat-ul-Ain, **Syed Adnan Ali Shah**. Synthetic N-Alkyl/aralkyl-4-methyl-N-(naphthalen-1-yl)benzenesulfonamides as Potent Antibacterial Agents. Pak. J. Chem. 2015, 5(1), 23-29.

<u>Conference Paper</u>

[1] **Syed Adnan Ali Shah**, Sadia Sultan, Muhammad Afifi. Ist International Conferences on Pharmacy Practice, 2018. "Embracing Smart Partnership: Driving Innovation into Practice. 27-28 June 2018. Organized by: Faculty of Pharmacy, University Teknologi Mara. Malaysia.

[2] **Syed Adnan Ali Shah,** Sadia Sultan, Muhammad Afifi. 27th National and 15th International Chemistry Conference, August 22-25, **2016**, University of Malakand, KPK, Pakistan.

[3] **Syed Adnan Ali Shah,** Sadia Sultan, Muhammad Afifi. 8th ANRAP International Seminar, Jun. 23-25, **2015**, The Grand Bluewave Hotel, Shah Alam, Selangor, Malaysia.

[4] **Syed Adnan Ali Shah,** Sadia Sultan, Muhammad Afifi. ICNP2015, Mar. 24-25, **2015**, Double Tree by Hilton, Johor Bahru, Malaysia.

		Dissertation and Master thesis [1] Microbial Transformation Of Exogenous Compounds By A Series Of Fungi. 2020, Universiti Teknologi MARA Cawangan Selangor. [2] Phytochemical study of selected species from (Rubiaceae and Guttiferae) families and biological study of isolated compounds as well as synthetic compounds. 2018, Universiti Teknologi MARA Cawangan Selangor. [3] Syntheis and pharmacological activities of morphine and coumarin derivatives. 2018, Universiti Teknologi MARA Cawangan Selangor.
10	**RESEARCH GRANTS**	[1] Structural insights into the diverse interaction mechanisms of thymidine phosphorylase inhibitors using TROSY-NMR, OPLS-DA and MD Simulations. FRGS/1/2019/STG05/UITM/02/9 (Sep. 01, 2019 – Aug. 31, 2021). Grant approved: RM 187,400.00. Principal Investigator. [2] Green Chemistry Reactions using Microbial Reactions. 600-IRMI/REI 5/3 (020/2018). (Sept. 01, 2018 - Aug. 31, 2020). Grant approved: RM 32,000.00. Member. [3] Elucidation of microbial biotransformed mechanism of antitumor agents using metabolomics and gene expression analysis. Ref: FRGS/1/2016/TK10/UITM/02/3. (Aug. 01, 2016 - Jul. 31, 2018). Grant approved: RM 103,000.00. Member. [4] Uncovering the mechanisms of microbial biotransformed antitumour agents using metabolomics and gene expression analysis. 600-RMI/DANA 5/3/LESTARI (92/2015). (Dec. 01, 2015 - Nov. 30, 2017). Grant approved: RM 20,000.00. Member. [5] Elucidation of binding mechanism of α-glucosidase inhibitors using a combined molecular dynamics, STD-NMR, and CORCEMA-STD. FRGS/1/2015/SG05/UITM/02/6 (Nov. 02, 2015 - May 01, 2018). Grant approved: RM 140,200.00. Principal Investigator. [6] Correlation between NMR metabolomics and in vivo mechanism of action of antifungal agents. Part 2. Geran Principal Investigator Support Initiative (PSI) 01/2013 (Dec. 2013 - Dec. 2015). Grant approved: RM 60,000.00. Principal Investigator. [7] Correlation between NMR metabolomics and in vivo mechanism of action of antifungal agents. Part 3. Geran Cumulative Impact Factor Initiative (CIFI) 01/2013 (Dec. 2013 - Dec. 2015). Grant approved: RM 60,000.00. Principal Investigator. [8] Correlation between NMR metabolomics and in vivo mechanism of action of antifungal agents. FRGS Phase 01/2012 (2012-2015). Grant approved: RM 96,000.00. Principal Investigator.

		[9] Malaysian Endophytes for the Development of New Green Chemistry Reactions and Syntheses. eScience/MOSTI (2008-2011). Grant approved: RM 182,000.00. [10] Quantum Mechanics to Solve Stilbenes Dimerisation Determinism. FRGS/MOHE Project (2011-2013). Grant approved: RM 182,000.00. [11] Linkage development with Limoges University (France) as vcsp as a basis for quantum mechanics to solve stilbene dimerisation determinism. 600-RMI/DANA 5/3/VCSP (18/2011) (2011) Grant approved: RM 25,000.00. [12] Roles of Hydropphobicity and Anions on Self Assembled Oligopeptides. RAGS/2012/UITM/SG06/1 (2012-2014). Grant approved: RM 65,000.00. [13] Bioassay-Guided Isolation of Alpha-Glucosidase Inhibitors from MarineDerived Fungi. Dana Kecemerlangan Fasa 03/2009 (2010-2011). Grant approved: RM 30,000.00. Principal Investigator:
11	**AWARDS**	[1] SILVER Award iidex 2019, Research Innovation Business Unit (RIBU), Universiti Teknologi MARA Shah Alam [2] Bronze Medal in IIDEX 2019, Research Innovation Business Unit (RIBU), Universiti Teknologi MARA Shah Alam [3] Gold Medal in PharmIIDEX 2019, Universiti Teknologi MARA Cawangan Selangor. [4] Penyelidik Aktif Penerbitan 2018, Kategori Sains & Teknologo, Majis Apresiasi Penyelidikan & Inovasi, Universiti Teknologi MARA Cawangan Selangor, 02 May 2019. [5] Excellence Service Award (APC) 2018 [6] Gold Medal in IIDEX 2018, Research Innovation Business Unit (RIBU), Universiti Teknologi MARA Shah Alam, Sept 2018. [7] Anugerah Cemerlang Penerbitan Berindeks Tertinggi – RSD 2017, Institute of Research Management & Innovation (IRMI), Universiti Teknologi MARA Shah Alam, Jan. 2017. [8] SILVER Award iidex 2017, Research Innovation Business Unit (RIBU), Universiti Teknologi MARA Shah Alam, Sept 2017. [9] Bronze Medal in IIDEX 2016, Research Innovation Business Unit (RIBU), Universiti Teknologi MARA Shah Alam, Sept 2016. [10] Gold Medal in IIDEX 2015. Research Innovation Business Unit (RIBU), Universiti Teknologi MARA Shah Alam, Sept 2015. [11] Silver Medal in IIDEX 2015. Research Innovation Business Unit (RIBU), Universiti Teknologi MARA Shah Alam, Sept 2015. [12] Silver Medal in IIDEX 2015. Research Innovation Business Unit (RIBU), Universiti Teknologi MARA Shah Alam, Sept 2015. [13] Bronze Medal in PECIPTA 2015, Ministry of Higher Education, Malaysia, Dec. 2015
12	**INVOLVEMENT IN PROFESSIONAL ORGANISATIONS**	[1] American Chemical Society (ACS) membership (Membership No. 2410881). 2012-2019. [2] Malaysian Pharmaceutical Society (MPS) (Membership MMPS

		No. S3154). 2015-2019
13	**PARTICIPATION IN CONTINUING EDUCATION**	Conferences: **Member of Organizing Scientific Committee-**NASIC-UiTM Workshop on Drug Development from Indigenous Plants in Developing Countires. Oct. 4 – 6th, 216, Universiti Teknologi MARA Cawangan Selangor. **Invited Speaker-Syed Adnan Ali Shah,** Sadia Sultan, Muhammad Afifi. 27th National and 15th International Chemistry Conference, August 22-25, **2016**, University of Malakand, KPK, Pakistan. **Oral Presenter-Syed Adnan Ali Shah**, Sadia Sultan, Muhammad Afifi. Ist International Conferences on Pharmacy Practice, 2018. "Embracing Smart Partnership: Driving Innovation into Practice. 27-28 June 2018. Organized by: Faculty of Pharmacy, University Teknologi Mara. Malaysia. **Oral Presenter-Syed Adnan Ali Shah,** Sadia Sultan, Muhammad Afifi. 8th ANRAP International Seminar, Jun. 23-25, **2015**, The Grand Bluewave Hotel, Shah Alam, Selangor, Malaysia. **Oral Presenter-Syed Adnan Ali Shah,** Sadia Sultan, Muhammad Afifi. ICNP2015, Mar. 24-25, **2015**, Double Tree by Hilton, Johor Bahru, Malaysia. Training: • Advance NMR Experiments Training, July 30-Aug. 10, 2018 ICCBS, University of Karachi, Pakistan. • PBL Workshop (Pharmacology & Chemistry), Aug. 9-10, 2017, Faculty of Pharmacy, Universiti Teknologi MARA Cawangan Selangor. Courses: • Training-For-Trainers (ToT): Workshop on Research Content Curation and Impact Writing Skill for Online Outreach. March 4, 2019-March 6, 2019. Seminar Hall, Office of International Affairs (OIA), UiTM Shah Alam. • MOOC Development workshop (E-learning), May 03, 2017, Makmal computer 2, FF2, Universiti Teknologi MARA Cawangan Selangor. • NMR Data processing using mestrec nova workshop : hands on approach course, May 20, 2016, MAKMAL HERBARIUM AURINS, UiTM Puncak Alam, Universiti Teknologi MARA Cawangan Selangor.

14	**COMMUNITY SERVICES**	• Pelantikan Sebagai Keuta Aras 8, Bangunan FF 1 Bagi Fire Marshal Di Fakulti Farmasi, Universiti Teknologi MARA Cawangan Selangor. 01 September 2018 hingga 31 Ogos 2020.