

PROFILE		
1	NAME	Sadia Sultan
2	ACADEMIC POSITION	Prof Madya
3	STATUS OF APPOINTMENT	Contract
4	CITIZENSHIP	Pakistan
5	EDUCATION	Ph.D
6	WORKING EXPERIENCE	16 Years
7	CURRENT ACADEMIC RESPONSIBILITIES	▪ To Coordinate Fundamentals of Pharmaceutical chemistry, (Coordinator, Curriculum Reviewer). ▪ To teach the Fundamentals of Pharmaceutical Chemistry, pharmaceutical organic chemistry, Pharmaceutical Analysis, Spectroscopic techniques in organic chemistry, Pharmacognosy, Medicinal Chemistry and Pharmaceutical Analysis. ▪ To supervise postgraduate research students (PhD, MSc) and undergrad. ▪ To publish high quality research articles and chapters. ▪ To evaluate Research Grant Proposal at Faculty and University level. ▪ To Vet Final Exam Papers at department and Faculty level. ▪ To operate Analytical and Semi-prep HPLC, Nuclear Magnetic Resonance (NMR spectrometer instrument (Bruker avance III Ultra shielded 500 MHz spectrometer) and LC- MS (Agilent). ▪ To conduct work shop and hands on LC-MS, IR and NMR. ▪ To Organize Workshop and International conferences. ▪ To write national and international grants for research
8	RESEARCH INTERESTS/ PROJECTS	• Exploring bioactive secondary metabolites from Plant, Soil and Marine Endophytic fungi. (Using Dereplication and OSMAC) • Biotransformation of exogenous substrates using microorganisms and plant tissue cultures. • Epigenetic Regulators as Tools for Drug Discovery from Fungi. • Development of a Multifaceted (MESCUS) Protocol in the Search for Novel Bioactive Entities from Microorganisms. • Identification of Fungi. DNA extraction etc. • Modern method applications in nuclear magnetic resonance (NMR) spectroscopy and LC-MS.

		• Biological screening using antimicrobial assays. • Design and execution of multi-step organic syntheses.
9	PUBLICATIONS	[1] Furqan Ahmad Siddique , Matloob Ahmad * , Usman Ali Ashfaq , Muhammad Muddassar , Sadia Sultan and Magdi E. A. Zaki, Identification of Cyclic Sulfonamides with an N-Arylacetamide Group as α-Glucosidase and α-Amylase Inhibitors: Biological Evaluation and Molecular Modeling <i>Pharmaceuticals</i> (MDPI), 2022, 15, 106. https://doi.org/10.3390/ph15010106. (Q1) [2] Sharifah Nurfazilah Wan Yusop, Sadia Sultan* Syahrul Imran Abu Bakar, Kamran Ashraf, Mohd Ilham Adenan, Biocatalytic, modifications of ethynodiol diacetate by fungi, anti-proliferative activity, and acetylcholinesterase inhibitory of its transformed products <i>Journal of Steroids</i>, 171, 2021. (108832) (Q2) (Scopus indexed, IF2019 = 2.5). [3] Imran Ahmad Khan, Matloob Ahmad, *, Usman Ali Ashfaq, Sadia Sultan, * and Magdi E.A. Zaki, Discovery of Amide-Functionalized Benzimidazolium Salts as Potent α-Glucosidase Inhibitors, <i>Molecules</i>, 2021, 26, 4760 (Q1). [4] Kamran Wilayat, Matloob Ahmad, *, Usman Ali Ashfaq, Zulfiqar Ali Khan, Sadia Sultan *. Synthesis and α-glucosidase inhibition studies of norfloxacin-acetanilide hybrids, <i>Pakistan Journal of Pharmaceutical Science</i> 2021 JPS.2021.34.5SUP.1909-1915. (Q3) [5] Kamran Ashraf, Mohd Rafiul Haque, Mohd Ami3, Niyaz Ahmad, Wasim Ahmad, Sadia Sultan, Syed Adnan Ali Shah, Ahmed Mahmoud Alafeefy, Mohd Mujee, Muhammad Fikriy Bin Shafie, An Overview of Phytochemical and Biological Activities: <i>Ficus deltoidea</i> jack and Other <i>Ficus</i> spp. <i>Journal of Pharmacy and BioScience Allied</i> 2021, 13, 11-25 (Q2). [6] Furqan Ahmad Siddique, Sana Aslam, Matloob Ahmad, Usman Ali Ashfa, Muhammad Muddassar , Sadia Sultan,

		Saman Taj, Muzammil Hussain, Dae Sung Lee and Magdi E. A. Zaki, Synthesis and alpha- Glucosidase Inhibition of 2-[3-(Benzoyl/4-bromobenzoyl)-4-hydroxy-1,1-dioxido-2Hbenzo [e] [1,2]thiazin-2-yl]-N-arylacetamides: An In Silico and Biochemical Approach Molecules, 2021, 26, 3043. (Q1). https://doi.org/10.3390/molecules26103043. [7] Mohammad Humayoon Amini, Kamran Ashraf, Fatimah Salim, Siong Meng Lim, Kalavathy Ramasamy, Nurhuda Manshoor, Sadia Sultan, Wasim Ahmad, Important insights from the antimicrobial activity of <i>Calotropis procera</i>, Arabian Journal of Chemistry, 2021, 14, 103181 (Q1). [8] Sharifah Nurfazilah Wan Yusop, Sadia Sultan* Syahrul Imran Abu Bakar, Mohd Ilham Adenan, Medroxyprogesterone derivatives from microbial transformation as anti-proliferative agents and acetylcholinesterase inhibitors (combined <i>in vitro</i> and <i>in silico</i> approaches), Journal of Steroids, 164, 108735, 2020. https://doi.org/10.1016/j.steroids.2020.108735 (Scopus indexed, IF2019 = 2.5). [9] Afshan Kanwal, Saif Ullah, Matloob Ahmad, Julie Pelletier, Sana Aslam, Sadia Sultan, Jean Sévigny, Mazhar Iqbal, and Jamshed Iqbal, Synthesis and Nucleotide Pyrophosphatase/Phosphodiesterase Inhibition Studies of Carbohydrazides Based on Benzimidazole-Benzothiazine Skeleton, Chemistry Select 2020, 5, 14399–14407. doi.org/10.1002/slct.2020 [10] Ayesha Malik, Nasir Rasool, Iram Kanwal, Muhammad Ali Hashim, Ameer Fawad Zahoor, Gulraiz Ahmad, Syed Adnan Ali Shah, Sadia Sultan and Zainul Amiruddin Zakaria, Suzuki-Miyaura Reaction of (4-bromophenyl)-4,6-dichloropyrimidine through Commercially Available Palladium Catalyst: Synthesis, Optimization and Their structural Aspects
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	Identification through Computational Studies, MDPI, Processes 2020, 8, 1342. [11] Kamran Wilayat, Matloob Ahmad, Azhar Rasu, Muhammad Nadeem Arshad, Sadia Sultan, Abdul Hameed, Abdullah Synthesis, characterization and antimicrobial activity of norfloxacin based acetohydrazides, <u>Pakistan Journal of Pharmaceutical Sciences</u> 2020 020.33.2.SUP.855-860.1 [12] Farhat Ibraheem , Matloob Ahmad, Saba Aslam, Sadia Sultan Synthesis, molecular docking and anti-diabetic studies of novel benzimidazole-pyrazoline hybrid molecules <u>Pakistan Journal of Pharmaceutical Sciences</u> 2020 JPS.2020.33.2.SUP.847-854.1 [13] Kamran Ashraf, Hasseri Halim, Siong Meng Lim, Kalavathy Ramasamy, Sadia Sultan, In vitro antioxidant, antimicrobial and antiproliferative study of four different extracts of three Malaysian plants, <u>Saudi Journal of Biological Sciences</u> 2020 27, 417–422. [14] Shakeel Ahmad, Saquib Jalil , Sumera Zaib , Sana Aslamc , Matloob Ahmad, , Azhar Rasul , Muhammad Nadeem Arshad, Sadia Sultan, Abdul Hameed, Abdullah M. Asirie, Jamshed Iqbal Synthesis, X-ray crystal and monoamine oxidase inhibitory activity of 4,6- dihydrobenzo[c]pyrano[2,3-e][1,2]thiazine 5,5-dioxides: In vitro studies and docking analysis, “<u>European Journal of Pharmaceutical Sciences</u>” 2019 131 9-22. (Scopus indexed IF₂₀₁₂ = 3.74). Q1 [15] Muhammad Taha, Sadia Sultan, Syahrul Imran, Fazal Rahim, Khalid Zamand, Abdul Wadoode, Ashfaq Ur Rehmane, Nizam Uddin, Khalid Mohammed Khan Synthesis of quinoline derivatives as diabetic // inhibitors and molecular docking studies, “<u>Bioorganic and Medicinal Chemistry</u>”, 27 2019, 4081–4088. [16] Muhammad Taha*, Sadia Sultan*, Muhammad Herizal, M. Qaiser Fatmi Manikandan Selvaraj, Kalavathy Ramasamy, Sobia Ahsan Halim, Siong Meng Lim, Fazal Rahim, Kamran
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	Ashraf, Adeeb Shehzad, Synthesis, anticancer, molecular docking and QSAR studies of benzoylhydrazone, "Journal of Saudi Chemical Society" 2019 23, 1168-1179. [17] Furqan Ahmed, Sumera Zaib, Saquib Jalil, Sana Aslam, Matloob Ahmed, Sadia Sultan, Humera Naz, Mazher Iqbal, Jamshed Iqbal, " Synthesis monoamine oxidase inhibition activity and molecular docking studies of novel 4-hydroxy-<i>N'</i>-[benzylidene or 1-phenylethylidene]-2-<i>H</i>/methyl/benzyl/-1,2-benzothiazine-3-carbohydrazide 1,1-dioxides, "European Journal of Medicinal Chemistry" 2018 143 1373-1386. (Scopus indexed IF₂₀₁₂ = 4.5). Q1. [18] Muhammad Taha, Syed Adnan Ali Shah, Muhammad Afifi, Syahrul Imran, Sadia Sultan, Fazal Rahim, Khalid Mohammed Khan. Synthesis, a-glucosidase inhibition and molecular docking study of coumarin based derivatives. Bioorganic Chemistry 2018; 77: 586-592 (Scopus indexed, IF₂₀₁₆ = 3.231). [19] Muhammad Taha, Syed Adnan Ali Shah, Muhammad Afifi, Syahrul Imran, Sadia Sultan, Fazal Rahim, Hayat Ullah, 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, IF₂₀₁₇ = 3.231). [20] Shakeel Ahmad Sumera Zaib, Saquib Jalil, Muhammad Shafiq, Matloob Ahmad, Sadia Sultan, Mazhar Iqbal, Sana Aslam, Jamshed Iqbal, Synthesis, characterization, monoamine oxidase inhibition, molecular docking and dynamic simulations of novel 2,1-benzothiazine-2,2-dioxide derivatives. Bioorganic Chemistry 2018, 80: 498-510 (Scopus indexed, IF₂₀₁₆ = 3.231). [21] Kamran Ashraf, Sadia Sultan Aishah Adam, Orthosiphon stamineus Benth. is an Outstanding Food Medicine: Review
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		of Phytochemical and Pharmacological Activities. <i>Journal of Pharmacy and BioAllied Sciences</i> 2018, 10 (3) OPUBS. [22] Kamran Ashraf, Sadia Sultan, "A comprehensive review on Curcuma longa Linn.: Phytochemical, pharmacological, and molecular study", <i>International Journal of Green Pharmacy</i>, Oct-Dec 2017 (Suppl) • 11 (4) S1. [23] Muhammad Taha*, Shah, S.A.A, Muhammad Afifi, Sadia Sultan, Nor Hadiani Ismail, "Morpholine hydrazone scaffold: synthesis, anticancer activity and docking studies <i>Chinese Chemical Letters (CCL)</i>. 2017 28, 607-611. Q2 [24] Saira Erum. Sadia Sultan*, S. Shah, S.A.A. Ashraf, M. Choudhary, M.I.; Microbial oxidation of finasteride with <i>macrophomina phaseolina</i> (KUCC730), <i>Int. J. Pharm. Pharm. Sci.</i> 2017 Vol 9 Issue 11, 17-20 (Scopus indexed, IF₂₀₁₃ = 0.58). [25] Muhammad Taha*.Sadia Sultan*, , Muhammad Azlan, Shah, S.A.A, Muhammad Nadeem Akhtar, Seema Zareen, Syahrul Imran Nor Hadiani Ismail Synthesis of a series of new 6-Nitrobenzofuran-2-Carbohydrazide derivatives with Cytotoxic and Antioxidant activities, <i>New Horizon in Translaional Medicine</i>, 2017, 4, 23-30. [26] Kamran Ashraf, Sadia Sultan, Syed Adnan Ali Shah, Chemistry, Phytochemical, Pharmacology and molecular study of Zingiber Officinale Roscoe: A Review, <i>Int. J. Pharm. Pharm. Sci.</i> 2017 Vol 9 Issue 11, 8-16 (Scopus indexed, IF₂₀₁₃ = 0.58).
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	[27] Muhammad Taha*,Sadia Sultan*, , Muhammad Herizal, Shah, S.A.A Nor Hadiani Ismail Synthesis and biological evaluation of novel N-arylidenequinoline-3- carbohydrazides as potent b-glucuronidase inhibitors, Bioorganic Medicinal Chemistry, (2016), 4, 3596-3704. (Scopus indexed, IF₂₀₁₅ = 2.98) [28] Zara Sajid, Matloob Ahmad*, Sana Aslam, Usman Ali Ashfaq, Ameer Fawad Zahoor, Furqan Ahmad Saddique, Masood Parvez, Abdul Hameed, Sadia Sultan, Hsaine Zgou and Taibi Ben Hadda Novel armed pyrazolobenzothiazine derivatives: synthesis, X-ray crystal structure and POM analyses of biological activity against drug resistant clinical isolate of staphylococcus aureus, Pharmaceutical Chemistry Journal, 2016, Vol 50 (3). [29] Sharifah nurfazilah, Sadia Sultan, Syed Adnan Ali Shah, Bohari M.Yaminn Humera Naz 11b-Hydroxymedroxyprogesterone . Acta Cryst. Sec. E 2016. [30] Atif, M.; Shah, S.A.A.; Sultan, S.; Choudhary, M.I. Solid phase microbial fermentation of anabolic steroid, dihydrotestosterone with ascomycete fungus fusarium oxysporum. Int. J. Pharm. Pharm. Sci. 2015 Vol 7 Issue 4 104-107 (Scopus indexed, IF₂₀₁₃ = 0.55). [31] Atif, M. Sadia Sultan*, Shah, S.A.A.Choudhary, M.I.; "Solid phase microbial reactions of sex hormone, trans-androsterone with filamentous fungi". Int. J. Pharm. Pharm. Sci. Vol 7 Issue 17 2015 385-388 (Scopus indexed, IF₂₀₁₃ = 0.38)
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	[32] Sadia Sultan, Lin Sun, John W. Blunt, Anthony L. J. Cole, Murray H. G. Munro, Kalavathy Ramasamy, Jean-Frédéric F. Weber. Evolving trends in the dereplication of natural product extracts. 3: Further lasiodiplodins from <i>Lasiodiplodia theobromae</i>, an endophyte from <i>Mapania kurzii</i>. Tetrahedron Lett 55 (2014) 453–455. (Scopus indexed, IF2012 = 2.40). [33] Ei Hassane Anouar, Zuhra Bashir, Manar Zulkefelee, Mizaton Hazizul Hassan, Maisarah Mohd, Rohatya, Sadia Sultan, Jean Frederic F, Weber, Antioxidant activity, NMR, Xray, ECD and UV/visible spectra of terrein; Experimental and theoretical approaches, Journal of Molecular Structure, 1060 (2014) 102–110 (Scopus indexed, IF2012 = 1.404). [34] Sadia Sultan[*], M. Zaimi bin Mohd Noor, El Hassane Anouar[*], Syed Adnan Ali Shah[*], Fatimah Salim, Rohani Rahim, Zuhra Bashir Khalifa Al Trabolsy and Jean-Frédéric F. Weber[*] Structure and Absolute configuration of 20β-hydroxy prednisolone a biotransformed product of an prednisolone by a marine endophytic fungus <i>Penicilliumlapidosum</i>: Experimental and DFT approaches International Journal of Molecule Sciences (2014), 19, 13775-13787 (Scopus IF = 2.4). [35] Sultan, S*, Atif, M, Shah, S.A.A.; Choudhary, M.I. "Microbial Metabolism of An anti-HIV and anti-Malarial Natural Product Andrographolide" Int. J. Pharm. Pharm. Sci. Vol 6 Issue 11, 195-198, Dec 2014. [36] Sadia Sultan, Muhammad Taha, Syed Adnan Ali Shah, Bohari M.Yaminn Hamizah Mohd Zaki (<i>E</i>)-3-Chloro-<i>N</i>-(2-fluorobenzylidene)thiophene-2- carbohydrazide . Acta Cryst. Sec. E 2014 (Scopus indexed, IF2012 = 0.347) [37] M.I Choudhary, Muhammad Atif[*], Syed Adnan Ali[*], Sadia
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		Sultan*, Saira Erum, Atta-ur-Rheman. Biotransformation of dehydroabietic acid with microbial cell cultures and α-Glucosidase inhibitory activity of resulting metabolites, <i>Int. J. Pharm. Pharm. Sci.</i> 2014, 6, issue 7,375-378 (Scopus indexed, IF₂₀₁₂ = 0.38) ISSN- 0975-1491. [38] Syed Adnan Ali Shah *, Tan Huey Ling *, Sadia Sultan * Muhammad Afifi Bin Mohd Faridz, Mohamad Azlan Bin Mohd Shah, Sharifah nurfazilah, Munawar Hussain, Microbial-catalyzed biotransformation of multifunctional triterpenoids derived from phytonutrients, <i>Int. J. Mol. Sci.</i> 2014, 15, 12027-12060 (Scopus IF = 2.4). [39] Taha, M.; Shah, S.A.A.; Sultan, S.; Ismail, N. H.; Yousuf, S. "2-[[2-(2-Hydroxy-5-methoxybenzylidene) hydrazin-1-ylidene] methyl]-4-methoxyphenol" <i>Acta Cryst. Sec. E70</i> 2014, o1312014 (ISSN 1600-5368) (Scopus indexed, IF2012 = 0.347). [40] Rasha Saad, NurAsyikin, JiyauddinKhan, Samer Aldahlli, SadiaSultan, JunainahAbdulhamid, Eddy Yusuf2, FadliAsmani "Determination of minimum inhibitory concentration utilizing microtitreplate bioassay for three malaysian herbal medicines" <i>Int.J.A.PS.BMS</i> , 2014, Vol.3.(1) ,280-290, (ISSN-2277-9280). [41] Rasha Saad, Tan Pohyeen, JiyauddinKhan Li Wenji, SadiaSultan, Junainah AbdulHameed, Eddy Yusuf, MohdFadli, "Phytochemical screening and antioxidant activity of different parts from five malaysian herbs" <i>The Experiment</i>, 2014, Vol. 19(2), 1336-1347 (ISSN-2319-2119). [42] Sadia. Sultan*, M. I. Choudhary, Shamsun Nahar Khan Urooj Fatima, Rahat Azhar Ali, Muhammad Atif, Atta-ur-Rahman and M. Qaiser Fatmi, Fungal Transformation of Cedryl Acetate and alpha-Glucosidase Inhibition Assay,
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		Quantum Mechanical Calculations and Molecular Docking Studies of its Metabolites “European Journal of Medicinal Chemistry” 2013 62, 764-770. (Scopus indexed IF₂₀₁₂ = 4.5). [43] Shah, S.A.A.; Sultan, S.; Hassan, N.B.; Muhammad, F.K.B.; Faridz, M.A.B.M.; Hussain, F.B.M.; Hussain, M.; Adnan, H.S.; “Biotransformation of 17α-ethynyl substituted steroidal drugs with microbial and plant cell cultures: A Review” Steroids, 2013, 78 (14), 1312-1324. (Scopus indexed, IF₂₀₁₂ = 2.803). [44] Shah, S.A.A.; Sultan, S.; Zaimi, M. “Biotransformation of tissue-specific hormone tibolone with fungal culture <i>Trichothecium roseum</i>” Journal of Molecular Structure, 2013, 1042, 118-122. (Scopus indexed, IF₂₀₁₂ = 1.404). [45] Shah, S.A.A.; Sultan, S.; Adnan, H.S. “A whole-cell biocatalysis application of steroidal drugs” Orient. J. Chem., 2013, 29(2), 389-403. (Scopus indexed). [46] Sultan, S*; Ghani N. A.; Shah, S.A.A.; Ismail, N. H.; Noor, M. Z.; Naz, H. “Microbial transformation of anthraquinones-A Review” Biosci. Biotechnol. Res. Asia., 2013, 10(2). [47] Shah, S.A.A.; Sultan, S.; Adnan, H.S.; “Solid Phase Microbial Transformation of Cortisolone and Prolyl endopeptidase Inhibitory Activity of the Transformed Products” Int. J. Pharm. Pharm. Sci. 2011, 3, Suppl 1, 1-6 (Scopus indexed, IF₂₀₁₂ = 0.38). [48] Sultan, S*; Shah, S.A.A.; Sun, L.; Ramasami, K.; Cole, A.; Blunt, John.; Munro, M.; Weber, J.F.F.; “Bioactive Fungal Metabolites of 9PR2 Isolated From Roots of Callophyllum Ferrugineum” Int. J. Pharm. Pharm. Sci. 2011, 3, Suppl 1, 7-9 (Scopus indexed, IF₂₀₁₂ = 0.38). [49] Gerardo M, Casanola-Martin, Yovani Marrero-Ponce, Mahmud Tareq Hassn Khan, Arjumand Ather, Sadia Sultan, Francisco Torrens and Rechard Rotondo, TOMOCOMD-CARD description-based virtual screening of tyrosinase inhibitors: Evaluation of different
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		classification model combinations using bond-based linear indices, Bioorganic and Medicinal Chemistry 15, 1483-1503, 2007. (Scopus indexed, IF2010 = 2.9) [50] M. I. Choudhary, S. Sultan, M. T. Hassan and Atta-ur-Rahman Metabolism of 17α-Ethinyl-and 17α-Ethylsteroids, Steroids, 70, 792-800, 2005. (Scopus indexed, IF2010 = 2.8). [51] M. Iqbal Choudhary, S. Sultan, S. Jalil, S. Anjum, A. A. Rahman, H. K. Fun, and Atta-ur-Rahman Microbial Transformation of Mesterolone. Chemistry & Biodiversity 2, 392-400 2005. (Scopus indexed, IF2010 = 1.92). [52] M. I. Choudhary, S. Sultan, M. T. Hassan A. Yasin, F. Shaheen and Atta-ur-Rahman, Biotransformation of (+)-Androst-4-ene-3, 17-dione, Nat. Prod. Res. 18, 529 2004. (Scopus indexed, IF2010 = 0.90) [53] M. I. Choudhary, S. Sultan, M. Yaqoob, S. G. Musharraf, A. Yasin, F. Shaheen and Atta-ur-Rahman, Microbial Transformation of Cortisol and prolyl endopeptidase activity of transformed products, Nat. Prod. Res. 17, 389, 2003. (Scopus indexed, IF2010 = 0.90) [54] S. G. Musharraf, Atta-ur-Rahman, M. I. Choudhary and S. Sultan, Microbial Transformation of (+)-Adrenosterone, Nat. Prod. Lett. 16, 345 (2002). (Scopus indexed, IF2005 = 1.0).
10	RESEARCH GRANTS	➤ Principal Investigator: Green Chemistry Reactions Using Microbial Reactions. 600-IRMI/REI 5/3(020/2018) 1st Sep 2018-29 Feb 2021, RM 32,000.00. ➤ Co-Researcher: Structural Insights into the Diverse Interaction Mechanisms of Thymidine Phosphorylase Inhibitors Using TROSY-NMR, OPLS-DA and MD simulations. 600-IRMI/FRGS 5/3 (424/2019), RM 187,400.00, 2019-2021. ➤ Co-Researcher: Absolute Structural Determination of Quinovic acid Triterpenes Using Experimental and Theoretical Vibrational Circular Dichorism Analysis, 600-IRMI 5/3/LESTARI (025/2019), RM 3,2000, 2019-2021.

	➤ Principal Investigator: Elucidation of Microbial Biotransformed Mechanism of Antitumour Agents Using Metabolomics and Gene Expression Analysis 600-IRMI/FRGS/5/3/(0119/2015) <u>Aug 2016-Jul 2018</u>, RM 103,000.00. ➤ Co-Researcher: unravelling the changes in phase ii enzymes and neurosteroid metabolism during the progression of Alzheimer disease using tg2576 mice. 600-RMI/FRGS 5/3 (28/2015) FEB 2015-JAN 2018, RM 149,700.00 ➤ Principal Investigator: Uncovering the Mechanisms of Microbial Biotransformed Antitumour Agents Using Metabolomics and Gene Expression Analysis 600-RMI/DANA/5/3/LESTARI (92/2015) <u>Dec 2015-Nov 2017</u>, RM 20,000 ➤ Co-Researcher: 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, <u>2015-Nov. 01, 2017</u>, RM 140,200.00. ➤ Principal Investigator: Role of Fungi in the Structural Modification of Selected Classes of Natural Products. 600-IRMI/DANA/5/3/RIF (39/2025), <u>2012-May. 2014-April</u>, RM 23,000. ➤ Principal Investigator: Dereplication Approach for the Identification of Biotransformed Products of Anthraquinone Crude Extracts Part 2. ERGS -600-RMI/DANA 5//PSI (236/2013) UiTM (<u>2013-2015</u>) Grant approved: RM 60,000.00(PSI Principal Investigator Support Initiative) ➤ Principal Investigator: Dereplication Approach for the Identification of Biotransformed Products of Anthraquinone Crude Extracts. ERGS Phase 04/2012) UiTM (<u>2012-2014</u>) Grant approved: RM 71,0000. ➤ Co-Researcher: phytochemical investigations of syzigium filiform var filiform. 600-RMI/DANA 5/3/RIF (347/2012) AUGUST 2012-JULY 2014, RM 30, 000 ➤ Co-Researcher: Bioassay-Guided Isolation of Alpha-Glucosidase Inhibitors from Marine-Derived Fungi. (Dana Kecemerlangan Fasa 03/2009). Dana Kecemerlangan UiTM (<u>2010-2011</u>) Grant approved: RM30, 000. ➤ Principal Investigator: Malaysian Endophytes for the Development of New Green Chemistry Reactions and
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		Syntheses. EScience /MOSTI (2008-2011) Grant approved: RM 182,000.00. <u>E-Books/Chapters</u> [1] Sadia, Sultan. “Bioactive Polyesters in Marine and Plant Endophytic Fungi” (Chapter) in Polyester Book In TECH 2012 .(Scopus cited), http://www.intechopen.com/articles/show/title/bioactive-polyesters-in-marine-and-plant-endophytic-fungi [2] Pharnaceutial Organic Chemistry I (E Text Book for Pharmacy Students), Pearson Malaysia Sdn Bhd, Choo. Che.Yen., Ibtisam Abdul Wahab, Sadia Sultan, Syed AdnanAli Shah 2013 (Scopus cited). [3] Pharnaceutial Organic Chemistry II (E Text Book for Pharmacy Students), Pearson Malaysia Sdn Bhd, Choo. Che.Yen., Ibtisam Abdul Wahab, Sadia Sultan, Syed AdnanAli Shah 2013 (Scopus cited) [4] Pharnaceutial Organic Chemistry II (Work book for Pharmacy Students), Pearson Malaysia Sdn Bhd, Sadia Sultan, Syed AdnanAli Shah, Choo. Che.Yen., Ibtisam Abdul Wahab 2014 (Scopus cited). [5] Sadia Sultan. “Molecular Docking studies of Enzyme Inhibitors Chemical Entities Chapter in Molecular Docking. Book In TECH 2018 http://dx.doi.org/10.5772/intechopen.76891.(Scopus cited).
11	AWARDS	• Gold Award: The Virtual National e-Content Development Competition: 20th-27th August 2021: Appointment as a Material Builder Course Massive Open Online Courses (MOOC) (Pharmacognosy). • Gold Award: The Virtual National e-Content Development Competition: 11th-20th October 2020: Appointment as a Material Builder Course Massive Open Online Courses (MOOC) (Pharmacognosy). • IITEX 2014 gold award

		• <u>IIDEX 2014 An International Exposition on Research and Innovation</u> (Research Management Institute UiTM Shah Alam Malaysia) • Gold award 2014 (1) • Silver award 2014 (2) • Bronze award (2014) (2) ➤ IIDEX 2015 INVENTION, INNOVATION & DESIGN EXPOSITION 2015 (RIBU UiTM Shah Alam Malaysia). ➤ Gold Award (1). ➤ Silver Award (3). ➤ Bronze Award (2). ➤ Bronze Award PERCIPTA 2015. (1) ➤ IIDEX 2016 INVENTION, INNOVATION & DESIGN EXPOSITION 6 (RIBU UiTM Shah Alam Malaysia). ➤ Bronze Award. ➤ IIDEX 2017 INVENTION, INNOVATION & DESIGN EXPOSITION 2017 (RIBU UiTM Shah Alam Malaysia). ➤ Silver Award : 2 ➤ Bronze Award :1 ➤ Bronze Award PERCIPTA 2017. (1) ➤ IIDEX 2018 INVENTION, INNOVATION & DESIGN EXPOSITION 2018 (RIBU UiTM Shah Alam Malaysia). ➤ Gold Award:1 ➤ Bronze Award: 1 ➤ Pharm IIDEX 2018 (Faculty Pharmacy UiTM) ➤ Bronze Award: 1 ➤ Pharm IIDEX 2019 (Faculty Pharmacy UiTM) ➤ Gold Award: 2
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		➤ IIDEX 2019 INVENTION, INNOVATION & DESIGN EXPOSITION 2019 (RIBU UiTM Shah Alam Malaysia). ➤ Silver Award:1 ➤ Bronze Award: 1 ➤ Pharm IIDEX 2020 (Faculty Pharmacy UiTM) ➤ Silver Award: 4 ➤ Bronze Award: 1 ➤ IIDEX 2019 INVENTION, INNOVATION & DESIGN EXPOSITION 2019 (RIBU UiTM Shah Alam Malaysia). ➤ Bronze Award: 2. ➤ Pharm IIDEX 2021 (Faculty Pharmacy UiTM) ➤ Silver Award: 2 ➤ Bronze Award: 1
12	INVOLVEMENT IN PROFESSIONAL ORGANISATIONS	• American Chemical Society. • Malaysian Natural Product Society. • Malaysian Pharmaceutical Society (S3146). • ICCBS Alumni. • The Open Enzyme inhibition (Associate Board Member). • Experimental Pharmacology & Drug Discovery). Review Editor.
13	COMMUNITY SERVICES	• Aktiviti Penanaman pokok Bakau dan Api-Api di Pantai Kelanang, Kuala Langat (Jabatan Perikanan hlegeri Selangor Darul Ehsan) • Ramadhan Donation Drive Volunteer Project (JC Bukit Jelutong)