



Curriculum Vitae

Dr. Muhammad Farrukh Nisar
(Ph.D., Post Doc.)

h-Index: 34 Citations: 3377 i10-Index: 60

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Google Scholar:

https://scholar.google.com/citations?hl=en&user=SorCi4QAAAAJ&view_op=list_works&authuser=3&sortby=pubdate

Web of Science ID: <https://www.webofscience.com/wos/author/record/GQQ-8386-2022>

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Mission statement: To accept challenges and work in a dynamic environment.

CURRENT STATUS:

1. **Assistant Professor** (12.2018 to date; On academic Leave), Department of Physiology and Biochemistry, Cholistan University of Veterinary and Animal Sciences, Bahawalpur, 63100, Pakistan.
2. **Associate Professor/Researcher**, Clinical Research Center, Medical Pathology Center, Cancer Early Detection and Treatment Center and Translational Medicine Research Center, Chongqing University Three Gorges Hospital, Chongqing University, Wanzhou District, Chongqing, 404100, China.

EDUCATIONAL BACKGROUND

- i. **Post Doctorate [06.05.2025]**, Jiangxi Agricultural University, Nanchang, 330035, Nanchang, China.
- ii. **Ph.D. [23.12.2016]** Biomedical Engineering, Chongqing University, Chongqing, 400044, P.R. China.
- iii. **M.Phil. [03.09.2008]** Cell and Molecular Biology, Quaid-i-Azam University, Islamabad, Pakistan.

AREAS OF INTEREST FOR TEACHING AND RESEARCH:

- i. Natural Anti-cancer drugs, small drug molecules, non-coding RNAs (lncRNAs, microRNAs, RNAi, etc.).
- ii. Molecular Docking and simulation, Network pharmacology, Computational biochemistry for drug designing, Nanomedicine.
- iii. Apoptosis, Autophagy, NETosis, Ferroptosis, Senescence, ER stress in tumor cells, tumor stem cells, etc.
- iv. Oncology/Cancer biology of the cell, tumorigenesis, and tissue engineering.
- v. Biochemical Pathways (Cell signaling pathways), Oxidative stress and cellular defense mechanisms through Nrf2/HO-1, cytoprotective & cell death mechanisms.

- vi. Free Radicals Biology (ROS/RNS), and physiological role in different diseases.
- vii. Photomedicine, Photo- and Chemo-therapies to treat cancer cells, photoaging.
- viii. Biomedical Materials for targeted drug delivery, Phytochemistry & TCM.

EXPERIENCE: University teaching/Research experience over 8 years.

- i. Assistant Professor (03.12.2018 - date) Department of Physiology and Biochemistry at Cholistan University of Veterinary and Animal Sciences (CUVAS), Bahawalpur, Pakistan.
- ii. Head of Department of Physiology and Biochemistry, Cholistan University of Veterinary and Animal Sciences, Bahawalpur, Pakistan. (02.01.2023 to 30.04.2024).
- iii. 1 Year of working experience of the Director of the Office of Research, Innovation, and Commercialization (ORIC) from 01.01.2022 to 03.01.2023.
- iv. Worked as Assistant Professor at interdisciplinary Research Centre in Biomedical Materials (IRCBM), COMSATS University Islamabad, Lahore Campus, Lahore, Pakistan. October, 2017 to December, 2018.
- v. Three and Half years of Research and Teaching Assistant experience in Biochemistry lab at College of Bio Engineering, Chongqing University, Chongqing (400044), China.
- vi. One and half year experience of teaching and research, University of Gujrat, Pakistan [16.09.2009 - 28.02.2011] to post graduate classes (M.Sc. & BS Hons).
- vii. Worked as research associate in Cell and Molecular Biology Lab in QAU, Islamabad, Pakistan [2006-2008].

DISTINCTIONS:

1. Successfully completed the ERASMUS+ Teaching Mobility program at University of SIEDLCE, Poland (27.01.2025 – 31.01.2025).
2. Awarded with **1st Position** in the poster competition for presenting a poster entitled, *“Natural Small De-Ironization Inducer (DII) Drug Molecules For Medicated Skin Care Products”* at 2nd International Conference on Recent Innovations in Plant Sciences and Natural Products, 15 - 16th February, 2024, University of Okara, Okara, Pakistan.
3. Awarded with **1st Position** in the poster competition for presenting poster entitled, *“The biomedical application of phytochemicals as de-ironization inducers (DII) in medicated skin care products”* at First International Conference on General Chemistry 10th-11th February 2022, organized by Department of Chemistry, COMSATS University Islamabad, Islamabad campus, Islamabad, Pakistan.
4. Awarded with **2nd Position** in poster competition for presenting poster entitled, *“Development of artificial skin for second degree burn wounds using chia seeds gel”*

in 2nd Two-Day National Training Workshop on “Bioassays for the exploration of Bioactives” during 25-26th October, 2021, conducted by Department of Biochemistry, University of Agriculture, Faisalabad, Pakistan.

5. Awarded with **1st Position** in the poster competition for presenting poster entitled, “Development of novel biomedical material using Chia seed gel combined with plant extracts for antibacterial, wound healing and drug delivery. Presented in Poster Presentation Competition on One World One Health Day, organized by One Health Club, CUVAS, Bahawalpur, Pakistan. 03.11.2020.
6. Awarded with **3rd Position** in the poster competition for presenting poster entitled, Ultraviolet radiation A: Modulation of oxidative stress responsive Nrf2/HO1 pathway to combat CoVID-19. Poster presented in Poster Presentation Competition on One World One Health Day, organized by One Health Club, CUVAS, Bahawalpur, Pakistan. 03.11.2020.
7. Awarded with **Chinese Government Scholarship** for the Ph.D. study during 09.2013 to 12.2016, at College of Bioengineering, Chongqing University, Chongqing, 400044, China. Availled an exchange program of University of Bath, UK, with Chongqing University, China.
8. **Silver Medal** in M.Sc. university exam [2005], in Islamia University annual examination, 2005. Merit Certificate awarded by IUB at 2nd Convocation in 2009. Certificate No. 1089, issued on 10.03.2006.
9. Awarded **Best Student Certificate** in Govt. Sadiq Egerton College at the eve of 125th Anniversary, 2010.
10. A certificate of performance for securing **2nd position in the university exam, and SE College** at the eve of 125th Anniversary 2010 of Govt. Sadiq Egerton College, Bahawalpur, 2010.
11. Participated in **2nd National Youth Convention**, held at Jinnah Convention Center Islamabad, 18-19 July 2005, from Bahawalpur district.

LANGUAGE PROFICIENCY: Fluent in all Four Modules of English (Native Level, British phonetics)

SKILLS: Techniques being used in Biochemistry (Cell Biology, Molecular Biology, and biorheology) labs viz.,

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|-------------------------------------|--|
| • Western Blotting (Immunoblotting) | • ELISA |
| • qRT-PCR | • Flow cytometry (Apoptosis, Cell cycle assay, Autophagy, ROS) |
| • Confocal Microscopy | • Colony Formation assay |
| • semi qRT-PCR | • Zymography (Gelatin and Casein) |
| • cDNA PCR | • Gel electrophoresis |
| • Cell Culture techniques (2-D/3-D) | |

- UVA/UVB/UV/CAP irradiations
- ROS (Reactive Oxygen species) Detection Assays.
- Cell Damage Analysis assays (MDA/LDH/SOD)
- Cell Viability/Cytotoxicity Assays
- Transfection of target genes and Gene Silencing
- Molecular Docking and Network Pharmacology
- Immunofluorescence assay
- Cell migration assay
- Preparation of routine lab consumables/reagents/media etc.
- Xenograft assays in animal models.
- Treatment/handling of animal model.
- Preparation of biomedical materials and characterization.
- Molecular docking and simulation.
- Network pharmacology tools.
- Data analytics using R
- Meta-analysis
- Drug designing and toxicological evaluations

Expert in scientific writings, project designing and management, Proficient in computer and basic applications & different programs being used in biochemical research. Excellent in verbal communication.

RESEARCH PROJECTS

Completed: HEC- Start-up research grant program approved on 09.01.2018.

Title: The Protective Effects of Encapsulated Quercetin@ZnO Against UVA-induced Photodamage in Human Epidermal Keratinocytes (HEK) by Activation of eIF2 α Phosphorylation. Grant approved: 478,098.00 PKR. (Award Letter No. 21-1819/SRGP/R&D/HEC/2018).

STUDENTS SUPERVISED

Co-supervised one MS student under research visitor program of IRCBM, CUI Lahore Campus. The student worked on the preparation and characterization of the basic materials for the anti-aging skin creams; prepared various sized drug loaded ZnO nanoparticles. Further, conducted the cell studies for these drug-loaded ZnO NPs.

22 MS Students has already supervised From 2018-2025.

PUBLICATIONS:

Journal Articles (*co-corresponding Authors)

Sr. #	Authors Name	Title	Name of Journal	Volume No. /Page No.	Date (M.Y)	Impact Factor
1.	A Bashir, M Wang, M Liu, J Cui, Muhammad Farrukh Nisar , C Yan, JL Zhong	Bach transcription factors: Emerging molecular regulators for oxidative stress-mediated skin responses and protection	Journal of Photochemistry and Photobiology B: Biology	Vol. 281, 2026; 113491. https://doi.org/10.1016/j.jphotobiol.2026.113491	15.06.2026	4.0
2.	M Dilawar, A Malik, J Liao, S	Insulin-like growth factor	Nature	<i>Sig</i>	26.05.2	81.2

	Lin, P Zhang, J Wang, T Wu, N Zhang, Muhammad Farrukh Nisar* , G Chen* *co-corresponding Authors	receptor signaling in physiology and disease	Signal Transduction and Targeted Therapy (Nature STTT)	<i>Transduct Target Ther</i> 11 , 375 https://doi.org/10.1038/s41392-026-02843-w	026	
3.	Z Liu, K Kotwica-Mojzych, Muhammad Farrukh Nisar , J Luo*	An Integrative Bioinformatics and Experimental Approach Identifies a Novel Cell Death Index and Prognostic Biomarkers in Acute Myeloid Leukemia.	Journal of King Saud University - Science	2026 :38; 15022025 doi: 10.25259/JKSUS_1502_2025	26.05.2026	3.6
4.	C Fu, J Wu, S Hou, M Liu, S Wang, Q Du, H Yu, F Feng, K Xu, C Wang, Muhammad Farrukh Nisar*	Ginkgolide A Suppresses Osteosarcoma Proliferation and Activates the Apoptotic Pathway by Targeting the KAT2A-H3K18la Lactylation Axis	Anti-Cancer Agents in Medicinal Chemistry	DOI: https://doi.org/10.2174/0118715206443791260209074742	17.03.2026	3.0
5.	A Bashir, W Mei, L Zhang, M A khan, Muhammad Farrukh Nisar* , JL Zhong	Mechanism of tectorigenin in promoting thermal burn wound healing via the Nrf2-mediated ferroptosis pathway: Integrated pharmacological and experimental study	International Journal of Biological Macromolecules	Published, Online https://doi.org/10.1016/j.ijbiomac.2025.149890	01.01.2026	8.7
6.	CC Wan, X Hu, P Yang, M Li, Muhammad Farrukh Nisar , Z Zhou, Y Gan, Y Cai, Z Liu	Mechanism of theaflavins inhibiting the proliferation of nasopharyngeal carcinoma cells	Food Science & Nutrition	13(8):e70642. doi: 10.1002/fsn3.70642	31.07.2025	3.8
7.	X Deng, T Hou, Muhammad Farrukh Nisar , X Zhang, Y Yang, C Chen, J Chen	Investigating the Antifungal Mechanism of Hinokitiol as a novel antifungal agent: Understanding toxicity towards <i>Geotrichum citri-aurantii</i> and efficacy in controlling citrus sour rot	Phytopathology	Online doi: 10.1094/PHYTO-03-25-0119-R	25.06.2025	3.1
8.	Y Cai, W Ma, Y Hou, Muhammad Farrukh Nisar , Y Long, B Chen, X Zhang, L Huang, G Zheng, TD Yan, CP Wan.	<i>Citri Reticulatae</i> Pericarpium modulates gut microbiota: Impacts on human health	Food Research International	https://doi.org/10.1016/j.foodres.2025.116745	10.06.2025	8.5
9.	Bian C, W Yan, Z Mingwang, G Lan, L Ji; Z Miaoqiao, Z Chunling, C Long, L Mingxing, Muhammad	Ultraviolet radiation induces caspase cleavage and nuclear translocation of heme oxygenase 1 (HO-1)	The FEBS Journal	Online First: DOI:10.1111/FEBS.7	09.06.2025	4.2

	Farrukh Nisar , C Pourzand, JW Bartsch, JL Zhong, M Wang	to activate autophagy in skin keratinocytes		0144.		
10.	Y Dai, S Wang, J Luo, H Yu, Q Du, S Hou, M Liu, S Jiang, H Xu, S Ye, Muhammad Farrukh Nisar* , H Chen, J Wu	Gastrodin attenuates rheumatoid arthritis by targeting KAT8 to inhibit the lactylation of H3K9	Frontiers in Pharmacology	16: 2025. https://doi.org/10.3389/fphar.2025.1559744	27.03.2025	5.4
11.	SGG Aziz, S Aghazadeh, A Javed, S Shaheen, L Naseem, Y Sohail, AT Mohammadi, Muhammad Farrukh Nisar*	Application of artificial intelligence in stem cell therapy and gene therapy of gynecological cancers	Current Stem Cell Research and Therapy	Online DOI: 10.2174/011574888X374002250707044343	15.07.2025	2.2
12.	M Dilawar, X Yu, Y Jin, J Yang, S Lin, J Liao, Q Dai, X Zhang, Muhammad Farrukh Nisar* , G Chen	Notch signaling pathway in osteogenesis, bone development, metabolism, and diseases	The FASEB Journal	Online DOI: 10.1096/fj.202402545R	14.02.2025	4.3
13.	Muhammad Farrukh Nisar , T Yan, Y Cai, CP Wan	Immuno-oncological challenges and chemoresistance in veterinary medicine: Probiotics as a new strategic tool	Probiotics and Antimicrobial proteins	https://doi.org/10.1007/s12602-025-10468-8	14.02.2025	5.3
14.	B Wang, Y Shu, JJ Wang, Muhammad Farrukh Nisar , C Wang, G Wang, K Xu	<i>Coptis chinensis</i> Franch relies on the anti-inflammatory effect of berberine through the JAK2-STAT3-NF-κB signaling pathway and amino acid metabolism regulation to alleviate stomach heat syndrome	Current Pharmaceutical Design (Q2)	Online first DOI: 10.2174/013816128358507250102111154	16.01.2025	3.2
15.	M Li, Muhammad Farrukh Nisar , Y Gan, CP Wan	Pharmacological Aspects and Clinical Implications of Tea (Camellia Sinensis) Bioactive Compounds Against Prostate Cancer	Curr. Res. Nutrition and Food Science	2025, 13 https://bit.ly/42cip3p	13.01.2025	1.1
16.	Muhammad Farrukh Nisar , CP Wan	Nanotechnology-based Delivery Systems for Enhanced Bioavailability of Antioxidant Compounds in Fruits and Vegetables	Curr. Res. Nutrition and Food Science	2025, 13 https://bit.ly/4ai4sDe	13.01.2025	1.1
17.	Q Jian, Y Shu, Z Li, Q Chi, Muhammad Farrukh Nisar , C Wang, G Wang, K Xu	Berberine hydrochloride inhibits the proliferation and tumorigenesis of hepatocellular carcinoma	Anti-Cancer Agents in Medicinal	Accepted & Online DOI: 10.2174/01	29.12.2024	2.6

		cells by regulating amino acid metabolism	Chemistry	18715206357856241223095321		
18.	Muhammad Farrukh Nisar , Daniela Calina, CP Wan, D Büsselberg, J Sharifi-Rad	Current mechanistic insights into Withaferin A: a promising potential adjuvant anticancer agent from <i>Withania somnifera</i>	Naunyn-Schmiedeberg's Archives of Pharmacology	Online DOI: 10.1007/s00210-024-03662-y	30.11.2024	3.1
19.	Q Ashraf, AI Aqib, H Majeed, SU Haq, Muhammad Farrukh Nisar , M Usman, A Muneer, S Batool, FS Ataya	Effective synergism of <i>Moringa oleifera</i> with antibiotics, body growth, and decoction replacement	South African Journal of Botany	175(2024):628-636 https://doi.org/10.1016/j.sajb.2024.10.054	09.11.2024	2.7
20.	Muhammad Farrukh Nisar , MX Li, JL Xu, CP Wan	Anti-diabetic Effects of Marine Natural Products Through Redox Modulation via Nrf2/HO-1 Cytoprotective Pathways	Frontiers in Marine Sciences	11:1438955. DOI: 10.3389/fmars.2024.1438955	13.11.2024	2.8
21.	T Yan, Muhammad Farrukh Nisar , X Hu, J Chang, Y Wang, Y Wu, Z Liu, Y Cai, J Jia, Y Xiao, CP Wan	Pyrroloquinoline Quinone (PQQ): Exploring its Impact on Human Health and Potential Benefits	Current Research in Food Science	9 (2024) 100889 DOI: 10.1016/j.crfs.2024.100889	22.10.2024	6.2
22.	SS Wang, JJ Han, Z Wang, XQ Liu, CL Wang, Muhammad Farrukh Nisar , LH Pan, K. Xu	Targeted therapy of tumors and cancer stem cells based on oxidant-regulated redox pathway and its mechanism	Current Computer Aided Drug Design	http://doi.org/10.2174/0115734099299174240522115944	30.05.2024	1.5
23.	Y Liangliang, A. Javed, Muhammad Farrukh Nisar , CP Wan	Role of phytochemicals isolated from <i>Cirsium japonicum</i> in neurological disorders	PHYTON Nutrients	DOI: 10.62368/pn.v1i01.16 Corpus ID: 269871503	15.05.2024	-
24.	Xiaomeng Hu, Muhammad Farrukh Nisar , Chunpeng (Craig) Wan, Tingdong Yan.	Marine Macrolides: An Indepth Survey of Potential Therapeutic Activities	Journal of Marine Science and Research. http://DOI:10.58489/2836-5933/009	3(1)	13.04.2024	-
25.	LQ Li, HY Xu, LH Qu, M	Water extracts of <i>Polygonum</i>	Acupunct	3(2),	June,	-

	Nisar, Muhammad Farrukh Nisar , XQ Liu, K Xu	<i>multiflorum</i> Thunb. and its active component emodin relieves osteoarthritis by regulating cholesterol metabolism and suppressing chondrocyte inflammation	ure and Herbal Medicine http://dx.doi.org/10.1097/HM9.0000000000000061	2023	2023	
26.	LL Yao, W Liu, M Bashir, Muhammad Farrukh Nisar , CP (Craig) Wan	Eriocitrin: A review of pharmacological effects	Biomedicine and Pharmacotherapy	154 (2022)	18.08.2022	7.419
27.	CP (Craig) Wan, Muhammad Farrukh Nisar , Hua Wu	Pharmacological Activities of Natural Products through the TGF- β Signalling Pathway	Evidence-Based Complementary and Alternative Medicine	Volume 2022, Article ID 9823258, 2 pages	11.04.2022	2.629
28.	Waqas MY, Javid MA, Nazir MM, Niaz N, Muhammad Farrukh Nisar , Manzoor Z, Bhatti SA, Hameed S, Khaliq MH	Extracellular vesicles and exosomes: An Insight from physiological regulatory perspectives	J. of Physiology & Biochem.	Published doi: 10.1007/s13105-022-00877-6.	01.02.2022	5.08
29.	Waqas MY, MA Javid, MM Nazir, A Aslam, SA Bhatti, A Faraz, Q Akram, N Niaz, Muhammad Farrukh Nisar , T Ahmed, M Asif, MH Khaliq, SH Munawar, Z Manzoor, Q Ali	A Review on Emerging Therapeutic Interventions for Corona Virus	J. Pharma. Res. International	33(60B): 2393-2402	26.12.2021	0.67
30.	S Ahmed, M Ibrahim, MZ Ahmed, Muhammad Farrukh Nisar , R Waheed, M Alam	Pragmatic Applications and Universality of DNA Barcoding for Substantial Organisms at Species Level: A Review to Explore a way Forward	BioMed Research International	Vol. 2022, Article ID 1846485, 19 pp.	11.01.2022	3.411
31.	ZG Shan, Muhammad Farrukh Nisar , MX Li, CH Zhang, CP Wan	Theaflavins chemistry and its health benefits	Oxidative Medicine and cellular longevity	Vol. 2021, Article ID 6256618, 16 pp.	18.11.2021	7.31
32.	Muhammad Farrukh Nisar , TT Liu, M Wang, SD Chen, L Chang, VW Karisma, W Xu, QC Diao, M Xue, XY Tang, C Pourzand, J Yang, JL Zhong	Eriodictyol protects skin cells from UVA irradiation-induced photodamage by inhibition of the MAPK signaling pathway	Journal of Photochemistry and Photobiology B: Biology	226 (2022) 112350 https://doi.org/10.1016/j.jphotobiol.2021.112350	30.10.2021	6.814

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33.	M Saleem, N Shazmeen, M Nazir, N Riaz, G Zengin, HM Ataullah, Muhammad Farrukh Nisar , M Mukhtar, MI Tousif,	Investigation on the Phytochemical Composition, Antioxidant and Enzyme Inhibition Potential of <i>Polygonum Plebeium</i> R.Br: A Comprehensive Approach to Disclose New Nutraceutical and Functional Food Ingredients	Chemistry and Biodiversity	https://doi.org/10.1002/cbdv.202100706	11.10.2021	2.745
34.	LL Yao, Muhammad Farrukh Nisar , TD Yan, CP Wan	Potential effects of Dietary Isoflavones to Drug-Induced Liver Injury	Journal Of Food Quality	Vol. 2021, ID 2870969, pp 10	20.08.2021	3.2
35.	Y Rasmi, G Babaei, Muhammad Farrukh Nisar , H Noreen, SGG Aziz	Revealed pathophysiological mechanisms of crosslinking interaction of affected vital organs in COVID- 19	Comparative Clinical Pathology (Springer)	30: 1005-1021 https://doi.org/10.1007/s00580-021-03269-2	10.09.2021	0.96
36.	Muhammad Farrukh Nisar , M Khadim, JY Chen, M. Rafiq, YL Yang, CP Wan	Pharmacological Properties and Health Benefits of Eugenol: A Comprehensive Review	Oxidative Medicine and Cellular Longevity	Vol. 2021, Article ID 2497354, pp 14	Published 17.07.2021	7.31
37.	GZ Wang, JL Wang, W Liu, Muhammad Farrukh Nisar , MA El-Esawi, CP Wan	Biological activities and chemistry of Triterpene Saponins from <i>Medicago</i> species: An update review	Evidence-Based Complementary and Alternative Medicine	ID: 6617916, pp. 11, Vol. 2021	26.05.2021	2.629
38.	Muhammad Farrukh Nisar Maryam Yousaf, M Saleem, H Khalid, K Niaz, M Yaqub, MY Waqas, A Ahmed, M Abaid-Ullah, JY Chen, CY Chen, KRR Rengasamy, CP (Craig) Wan	Development of Iron Sequester Antioxidant Quercetin@ZnO Nanoparticles with Photoprotective Effects on UVA-Irradiated HaCaT Cells	Oxidative Medicine and Cellular Longevity	Volume 2021, Article ID 6072631, pp. 11	26.08, 2021	7.31
39.	Wang M., MX Lei, L Chang, Y Xing, YY Guo, C Pourzand, Jörg W. Bartsch, JY Chen, JF Luo, VW Karisma, Muhammad Farrukh Nisar , X Lei, JL Zhong	Bach2 regulates autophagy to modulate UVA-induced photoaging in skin fibroblasts	Free Radical Biology and Medicine	169: 304-316	18.04.2021	8.101
40.	Vega WK, JL Zhong, W Wu, Muhammad Farrukh Nisar , MD Lloyd, C Pourzand, HW Liu	UVA-Triggered Drug Release and Photo-Protection of Skin	Frontiers Cell and Developmental Biology	2021, 9: Article 598717	13.01.2021	6.684

41.	Zhong MJ, YY Wang, Muhammad Farrukh Nisar , J Gao, CX Bian	p75NTR and its carboxyl-terminal fragment perform contradictory roles in melanoma cell proliferation and apoptosis via modulation of NF-κB pathway	FEBS Open Bio	11(1): 226-236	26.11.2020	2.693
42.	Ahmad Ud Din, M. Mazhar, M. Wasim, W. Ahmad, A. Bibi, A. Hassan, N. Ali, W. Gang, G. Qian, R. Ullah, T. Shah, M. Ullah, I. Khan, Muhammad Farrukh Nisar , J.B. Wu	SARS-CoV-2 Microbiome Dysbiosis Linked Disorders and Possible Probiotics Role	Biomedicine & Pharmacotherapy	133 (2021): 110947	11.11.2020	6.529
43.	CY Chen, JP Huang, Muhammad Farrukh Nisar , WW Qi, JY Chen, CP Wan	Synthesis and antifungal activities of cinnamaldehyde derivatives against <i>Penicillium digitatum</i> causing citrus green mold	Journal of Food Quality	Vol. 2020, Article ID 8898692, pp. 7	15.10.2020	2.450
44.	Ahmed A, S Sarwar, Y Hu, MU Munir, Muhammad Farrukh Nisar , F Ikram, A Asif, SU Rahman, AA Chaudhry, and Ihtasham Ur Rehman	Surface-modified polymeric nanoparticles for drug delivery to cancer cells	Expert Opinion on Drug delivery	doi.org/10.1080/17425247.2020.1822321	09.09.2020	6.648
45.	S Usanmaz, CP Wan, I Kahramanoglu, Muhammad Farrukh Nisar , CY Chen, JY Chen	Light: An alternative method for physical control of postharvest rotting caused by fungi of citrus fruit	Journal of Food Quality	Vol. 2020 Article ID: 8821346 PP: 20	02.08.2020	2.450
46.	W Liu, GM Nan, Muhammad Farrukh Nisar , CP Wan	Chemical Constituents and Health Benefits of Four Chinese Plum Species	Journal of Food Quality	Article ID: 8842506, PP: 17	22.07.2020	2.450
47.	Yao LL, SY Zhu, ZY Hu, L Chen, Muhammad Farrukh Nisar , CP Wan	Anti-inflammatory Constituents from <i>Chaenomeles speciosa</i>	Natural Products Commun.	15(3): 1-5	03.2020	0.986
48.	Wei L, Muhammad Farrukh Nisar , CP Wan	Characterization of phenolic constituents from <i>Prunus cerasifera</i> Ldb Leaves	Journal of Chemistry	Vol. 2020, Article ID 5976090, PP: 5 5	01.2020	2.506
49.	Chen SD, XY Wang, Muhammad Farrukh Nisar , Mao Lin, Julia Li Zhong.	Heme Oxygenases: Cellular Multifunctional and Protective Molecule Against UV-induced Oxidative Stress	Oxidative Medicine and Cellular Longevity	2019, ID 5416728, pp 17	11.2019	5.076

50.	Xiao H*, Muhammad Farrukh Nisar* , M Wang, WH Wang, L Chen, M Lin, W Xu, QC Diao, JL Zhong * Co-first Authors	UVA-responsive ZnO@AKBA nano-particles provide a great potential for photoprotection	Materials Science and Engineering: C	107(2020): 110254	10.2019	5.88
51.	CP Wan, YT Shen, Muhammad Farrukh Nisar , WW Qi, CY Chen, JY Chen	The Antifungal Potential of carvacrol against <i>Penicillium digitatum</i> through ¹ H-NMR Based Metabolomics approach	MDPI Applied Sciences	9(11), 2240	30.05, 2019	2.474
52.	TD Yan, JL Huang, Muhammad Farrukh Nisar , CP Wan, WF Huang	The Beneficial Roles of SIRT1 in Drug-Induced Liver Injury	Oxidative Med. Cell. Longevity	2019, pp14, ID 8506195	24.04, 2019	4.936
53.	Liu L, Y Wu, CX Bian, Muhammad Farrukh Nisar , M Wang, XY Hu, QC Diao, WQ Nian, EW Wang, W Xu, JL Zhong	Heme oxygenase 1 facilitates cell proliferation via the B-Raf-ERK signaling pathway in melanoma	Cell Communication and Signaling	17(3)	12. 01. 2019	5.324
54.	WF Huang, JW He, Muhammad Farrukh Nisar , HS Li, CP Wan	Phytochemical and Pharmacological Properties of <i>Chaenomeles Speciosa</i> : an edible Medicinal Chinese Mugua	Evid. Based Complim. & Alternat. Med.	Volume 2018, Article ID 9591845, 10 pages	11. 2018	2.064
55.	Xue, F.F., S.D. Chen, Y. Liu, Muhammad Farrukh Nisar , C.X. Bian, L.Whittle, Q.C. Diao, L.J. YAN, M. Lin, J.L. Zhong	Phosphorylation of eIF2alpha alleviate UVA-induced cell damage via Nrf2/HO-1 signaling in skin epidermal cells	Free Radical Research	53(11-12): 1359-1370	29.01. 2019	3.038
56.	Muhammad Farrukh Nisar , Junwei He, Arsalan Ahmed, Youxin Yang, Mingxi Liand Chunpeng Wan	Chemical Components and Biological Activities of Genus Phyllanthus: A Recent Review	Molecules 10.3390/molecules23102567	25: 2567	10.2018	3.098
57.	WuY, L Liu, CX Bian, Muhammad Farrukh Nisar , XY Hu, XM Jiang, Jörg W. Bartsch, MJ Zhong, QC Diao, JL Zhong.	MicroRNA Let-7b inhibits keratinocytes differentiation by targeting IL-6 in psoriasis.	Cell Communication and Signaling	16(0): 58	09.2018	5.325
58.	LiXia Gao, Wu Yan, Chunxiang Bian, Muhammad Farrukh Nisar , ShiDa Chen, ChangMing Li, Ling Yu, Pin Ji, and Julia Li Zhong	Label-free Electrochemical Sensor to Investigate the Effect of Tocopherol on Generation of Superoxide Following UV Irradiation	Journal of Biological Engineering	12(1): 17	09.2018	5.256
59.	Bian CX, MJ Zhong, Muhammad Farrukh Nisar , Y Wu, MingyueOuyang, Jeorg W. Bartsch, Julia Li Zhong.	A novel heme oxygenase-1 splice variant, 14kDa HO-1, promotes cell proliferation and increases relative telomere length.	Biochem. Biophys. Res. Comm.	500: 429-434.	04.2018	2.705
60.	Parveen S., N. Riaz, M. Saleem, M. Ashraf, T. Khatoon,	Noropacursane: A New Nortriterpenoid from the Methanolic Extract of	Records of Natural Products	12 (5): 512-517	09.05.2 018	1.311

	Muhammad Farrukh Nisar , and A. Jabbar	<i>Carissa opaca</i>				
61.	Javed H., S. Tabassum, S. Erum, I. Murtaza, A. Muhammad, F. Amin and Muhammad Farrukh Nisar .	Screening and characterization of selected drugs having antibacterial potential	Pakistan J. Pharmc. Sci.,	31 (3) pp, 933-939	05.2018	0.805
62.	Wang M, GW Shi, CX Bian, Muhammad Farrukh Nisar , YY Guo, W Li, X Huang, W Xu, QC Diao, JW Bartsch, P Ji, JL Zhong	UVA irradiation enhances brusatol mediated inhibition of melanoma growth by downregulation of Nrf2-mediated antioxidant response	Oxidative Medicine And Cellular Longevity	Vol. 2018, Article ID 9742154, 15 pages	02.2018	4.936
63.	Y. Wu, C.X. Bian, C.L. Zhen, L. Liu, Muhammad Farrukh Nisar , J. W. Bartsch, J. L. Zhong, P. Ji.	hTERT mediates inhibition of epithelial-mesenchymal transition by disrupting NF- κ B signaling in oral tongue squamous cell carcinoma.	OncoTarget	8(49): 85492-85503	10.2017	5.168
64.	Parveen, S., S. Parveen, N. Riaz, M. Saleem, M. Ashraf, Qurat-ul-Ain, T. Khatoon, Muhammad Farrukh Nisar , A. Jabbar.	A New Cyclic Terephthalate from the Methanolic Extract of <i>Carissa opaca</i> .	Journal of Chemical Society of Pakistan	39(04): 610-613	10.2017	0.327
65.	Wu Y., J.L. Zhong, N. Hou, YL Sun, BT Ma, Muhammad Farrukh Nisar , Y. Teng, ZL Tan, KP Chen, YL Wang, X. Yang	MicroRNA Let-7b inhibits keratinocyte migration in cutaneous wound healing by targeting IGF2BP2	Experiment. Dermatol.	26(2): 116-123	02.2017	2.675
66.	Shiying Yang, Bin Zhou, Wei Xu, Fangfang Xue, Muhammad Farrukh Nisar , Chunxiang Bian, Xiao Huang, Li Yang, Yiguo Zhang, Jörg W. Bartsch, Julia Li Zhong	Nrf2- and Bach1 may play a role in the modulation of UVA-induced oxidative stress by acetyl-11-keto- β -boswellic acid (AKBA) in skin keratinocytes	Skin Pharmacology and Physiology	30 (1): 13-23	02.2017	2.488
67.	Shehla Parveen, Muhammad Saleem, Naheed Riaz, Muhammad Ashraf, Qurat-ul-Ain, Muhammad Farrukh Nisar and Abdul Jabbar	New Nortriterpenoids and a sphingolipid from <i>Carissa opaca</i>	Journal of Asian Natural Products Research	18(3): 222-231	2016	1.017
68.	Muhammad Farrukh Nisar , KSG Parsons, CX Bian and JL Zhong	UVA irradiation induced Heme Oxygenase-1: A novel phototherapy for Morphea	Photochem. And Photobiol.	91: 210-220.	2015	2.68
69.	Zhong, JL, CM Raval, Muhammad Farrukh Nisar , CX Bian, Jin Zhang, Li Yang and R.M. Tyrrell	Development of refractoriness of HO-1 induction to a second treatment to UVA radiation and the involvement of Nrf2 in human skin fibroblasts	Photochem. And Photobiol.	90: 1340-1348	2014	2.68
70.	Irfan Ullah, Muhammad Farrukh Nisar , Ammad Ali	Prevalence of Fasciola hepatica in Domesticated	Asian Journal of	10 (1): 85-91	2016	ISI

	Khan Jadoon and Sobia Tabassum	Cattle of District Karak, Khyber Pakhtunkhwa, Pakistan.	Animal Sciences			
71.	Tabassum, S., F. Amin, S. Erum, H. Javed, F. Kazmi, Muhammad Farrukh Nisar , I. Ullah, I. Murtaza and M. Ashraf	Effect of hexane and ethanol extracts of ten basil genotypes on the growth of selected bacterial strains	International Journal of Agriculture and Biology	18(4): 735-740	2016	0.758
72.	Ahmed S., S. Ahmed, Muhammad Farrukh Nisar , K. Hussain, A. Majeed, P.B. Ghumroo, S. Afghan, A. Shahzad, K. Nawaz and K. Ali	Isolation and characterization of a bacterial strain for aniline degradation	African Journal of Biotechnology	9(8): 1173-1179	2010	0.565.
73.	Saleem M., M.I. Touseef, N. Riaz, A. Jabbar, M. Hafeez, S. Ahmed, Muhammad Farrukh Nisar , S. Ahmad, I. Ahmad	Phytochemicals from <i>Ipomoea carnea</i> collected from Murree hills.	J. Chemical Society of Pakistan	33(5): 747-750	2011	1.377
74.	Muhammad Farrukh Nisar , K. Hussain, A. Majeed, K. Nawaz	Analysis of Endosperm proteins and genetic diversity in Pakistani wheat varieties	Int. J. Agric. Biol.	12(2): 261-265	2010	0.94
75.	Muhammad Farrukh Nisar , A.S. Mumtaz, M. Ashraf, A. Majeed, K. Hussain, K. Nawaz	Evaluating the agromorphological variations in <i>Panicum antidotale</i> in Cholista desert, Pakistan	Int. J. Agric. Biol.	12(3): 416-420	2010	0.94
76.	Khalid Hussain, Abdul Majeed, Khalid Nawaz, Muhammad Farrukh Nisar , Farah Khan, Shahid Afghan, Kazim Ali	Comparative study for salt stress among seed, root stock and direct regenerated violet (<i>Viola odorata</i> L.) seedlings in relation to growth, ion contents and enzyme activities	African Journal of Biotechnology	9(14): 2108-2117	2010	0.565.
77.	K. Hussain, Muhammad Farrukh Nisar , A. Majeed, K. Nawaz, K.H. Bhatti, S. Afghan, A. Shahzad, S.Z. Hussain	What molecular mechanism is adapted by plants during salt stress tolerance?	African Journal of Biotechnology	9(4): 416-422	2010	0.565.
78.	X Hu; S Zhao; Y Wu; Y Cai; Muhammad Farrukh Nisar ; H Khan; CP Wan; TD Yan; W Liu	Okanin Alleviates APAP-Induced Cell Death in HepG2 Cells and Activates the Nrf2 Pathway	Biochemical Pharmacology	Submitted 04.10.2026		5.3
79.	Amir Javed, Asif Ali, Younas Sohail, Muhammad Abaidullah, Muhammad Dilawar, Muhammad Farrukh Nisar	Meta-analysis of the Potential Effects of Extracellular Vesicles for Stroke	SAGE Public Health	Submitted	11.09.2026	2.1
80.	M Dilawar, M Irfan, Muhammad Farrukh Nisar ,	Effect of Aqueous and Ethanolic Extracts of		Submitted	11.08.2026	0.9

	H Khaliq, M Y Waqas, M Rauf	<i>Podophyllum Hexandrum</i> on Male Fertility and Sex associated Hormones in Rabbits				
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CONFERENCES/SHORT COURSES: Many national and international conferences of Biochemistry and molecular biology society of Pakistan, PAJBOT Society, many short professional courses relevant to biological research and use of advanced techniques, Biochemistry and bioanalytical laboratory management.

Following is a list of courses/workshops etc.

1. Invited Speaker: 08th International Conference on Advance Pharmacy and Pharmaceutical Sciences (ICAPPS 2026), Carrying the Theme “Precision, Prediction, Practice: Engineering the Future of Therapeutic Outcomes”, From 26-28th August, 2026, at Faculty of Pharmacy, Universitas Indonesia, Jakarta, Indonesia.
2. Guest Speaker: 2nd International Conference on Recent Innovations in Plant Sciences and Natural Products, 15-16th February, 2024, University of Okara, Okara, Pakistan.
3. Guest Speaker: 3rd International Conference on Dermal Sciences 2023, Organized by Department of Dermatology, The University of Faisalabad, October, 13-14, 2023. Faisalabad, Pakistan.
4. Attended a One-Week Training Workshop on “**Data Analysis with R**”, conducted by ORIC Office, Cholistan University of Veterinary and Animal Sciences (CUVAS), Bahawalpur, Pakistan, from 17-07-2023 to 21-07-2023.
5. Keynote Speaker: 1st International Conference on Recent Innovations in Plant Sciences and Natural Products & 3rd Natural Products Exhibition. Held on 16th – 17th February, 2023, organized by Department of Botany, University of Okara, Okara, Punjab, Pakistan.
6. Invited Speaker: 2 days Global Conference on Sustainable Development in Agriculture, Biochemistry and Biotechnology (SDAABB, 2022), 15-16 February, 2023, Organized by Department of Biochemistry and Biotechnology, The Women University, Multan, Pakistan.
7. Chief Organizer: **An International Multidisciplinary Conference on Innovations in Biochemistry, Veterinary Medicine & Pharmacology**”. Department of Physiology and Biochemistry, Cholistan University of Veterinary and Animal Sciences (CUVAS), Bahawalpur, Pakistan, from 06-02-2023 to 07-02-2023.
8. Participated to present an Oral Presentation in 1st International Conference (Online) on Recent Approaches in Plant Sciences (RAPS-2022) on 30-31st March, 2022. This

- conference was organized by the Department of Botany University of Education, Lahore, Pakistan. **Title of the oral presentation:** Phytochemicals as pharmacological regulators of transcription factor Nrf2 and its downstream pathways to provide protection in noncommunicable diseases (NCDs).
9. Organizer and Participant: One Day Training on "Key Performance Indicators and HEC Policy on ORIC-2021, on 08.02.2022, as Director ORIC, CUVAS, Bahawalpur.
 10. Guest Participant in a One Day Workshop on Hands-on Training Workshop in Clinical Electrocardiography (TWCE 2022), on January 1st, 2022. Organized by, The Department of Physiology, Faculty of Veterinary and Animal Sciences, The Islamia University of Bahawalpur (www.iub.edu.pk), Bahawalpur, 63100, Pakistan.
 11. Attended as **Invited Speaker** at International Conference on Interdisciplinary Innovation and Invention in Biotechnology and Nanotechnology (IIBN) organized by Women University Multan, Multan, Pakistan, during 24-26th November, 2021.
 12. Attended 2nd Two-Day National Workshop on “**Bioassays for Exploration of Bioactives**”, conducted on 25-26th October, 2021, organized by the Department of Biochemistry, University of Agriculture, Faisalabad, Pakistan. (www.uaf.edu.pk)
 13. Participated in a “2 Days Workshop on Conducting Clinical Trials in Pakistan Challenges and Opportunities”, conducted by Interdisciplinary Research Center in Biomedical Materials (IRCBM), CUI Lahore, Pakistan. September 27-28th, 2021, Lahore, Pakistan.
 14. Successfully passed five days training workshop on **The BioRisk Management (BRM) Basic Training Course** organized by the Cholistan University of Veterinary and Animal Sciences, Bahawalpur, Pakistan. 22-26 June, 2021.
 15. Given an Oral Presentation in **Fourth International Conference on Biosciences (ICBS-2021)**, on 15th June, 2021, organized by the Biological Society of Pakistan in collaboration with the Department of Plant **Sciences**, Quaid-i-Azam University, Islamabad.
 16. Attended a three days international workshop on "**Nano-medicine Development and Challenges**" at COMSTECH, Islamabad during March 15-17, 2021.
 17. Attended and successfully completed “Faculty orientation training program”, organized by Punjab Higher Education (PHEC) department, held during November 2-6, 2020.
 18. Participated and presented a poster at, 2nd *International Pharmacy Conference & Exhibition* (IPCE 2020 - IUB). New Paradigms of Pharmacy Education & Practice in Pakistan, February 20-21, 2020. PP. 120-121.

19. Participated to successful completion of a “One day Hands on Training workshop *Biorisk Management in Biological Labs*”, organized by Department of Microbiology, Cholistan University of Veterinary and Animal Sciences (CUVAS), Bahawalpur, in collaboration with Pakistan Biological Safety Association (PBSA), Punjab, Pakistan. December, 20th, 2019.
20. Participated and presented an oral talk (*Photomedicine: Ultraviolet radiation A and Heme Oxygenase (HO) system*) during 1st International Conference on Recent Updates in Biotechnology 2019 (ICRUB-2019) organized by Abdul Wali Khan University, Mardan, Pakistan. October, 16-18th, 2019.
21. Participated in a One Day Symposium on Nanomedicine: *Current Scenario & Future Perspectives*, held on 06.08.2019 in Department of Pharmacy and Pharmacology at University of Agriculture, Faisalabad, Punjab, Pakistan.
22. Participated in 1st International Workshop on Biodiversity: Techniques and Tools, April 04-05, 2019, organized by Department of Zoology, Cholistan University of Veterinary and Animal Sciences (CUVAS), Bahawalpur, Pakistan.
23. Invited Speaker at 1st Annual Conference December 12-13, 2018, “The Current Usage of Nanotherapeutics & Biodrugs..... Emerging Therapy for Tomorrow”, at Department of Biological Sciences, International Islamic University Islamabad, Pakistan. Given a Talk: Heme Oxygenase (HO): An Essential Cellular Protection Mechanism Against Ultraviolet Radiation A.
24. Participated as organizer in 1st International Symposium on Tissue Engineering: Building Linkages (Clinicians, Industry and Researchers) on 25th September, 2018 at Interdisciplinary Research Center in Biomedical Materials (IRCBM), CUI Lahore, Pakistan.
25. Participated as organizer in 1st International Symposium on Advanced Energy Materials: Production to Storage (ISAEM, 2018) on 25th June, 2018 at Interdisciplinary Research Center in Biomedical Materials (IRCBM), SOMSATS University Islamabad, Lahore Campus, Lahore, Pakistan.
26. Participated as organizer in 6th International Symposium on Biomedical Materials 14-16 December, 2017, Interdisciplinary Research Center in Biomedical Materials (IRCBM), CIIT, Lahore, Pakistan.
27. Participated as *Invited Speaker* in 1st National Conference, “Sciences for the betterment of Humanity”, 04-06 May, 2017. Title: The Oxidative Medicine: *Light (UVA/Plasma) and Cell Signaling*.

28. Participated in a Socioeconomic and plant population survey conducted by WWF-Pakistan, entitled as "Baseline survey of the natural resources of *Taunsa Wild Life Sanctuary*, Taunsa, Kot Addu, Punjab, Pakistan, October, 2005, December 2005/January, 2006, April 2006. The pilot project was *Indus for All* Program.
29. Participated and presented 2 poster papers in International Conference of Plant Scientists [10th National Meeting of Plant Scientists] held at department of Botany, University of Agriculture, Pakistan, from April 21 - 24, 2008.
30. Got a certificate of participation in National Training Workshop/seminar on *Analytical Laboratory Management* from June 23 - 25, 2010. Organized by Department of Biochemistry and Molecular Biology (B&MB), Nawaz Sharif Medical College, University of Gujrat, Gujrat, Pakistan.
31. Participated in an International Conference on Biological Resources of Pakistan: problems, success, and future perspectives, 25-27 April, 2007 at Arid Agriculture University, Rawalpindi, Pakistan.
32. Have been awarded a certificate of Participation in 2-days short course on "Environmental Issues and Pollution Control (EEC-1)", held on 26-27 March, 2007 at Pakistan Engineering Council (PEC) in collaboration with IESE (NUST), Islamabad, Pakistan.
33. Qualified a 15 days 35th Postgraduate Training Course on Nuclear and Other Advanced Techniques in Agricultural and Biological Research, held at Nuclear Institute of Agriculture and Biology (NIAB), Faisalabad, Pakistan. December 04-15, 2007.
34. Successfully passed a 6-month Computer Certificate for learning basic and advanced applications at Bahawalpur Computer and Typing Institute, 05-01-2006 to 25.07.2006.
35. Awarded a certificate of active participation in 2nd Science Exhibition conducted by Jabir Bin Hayyan Chemical Society of Govt. Sadiq Egerton College, Bahawalpur during January 17-18, 2002.
36. A 1-month course on Bio Security/Food safety enhancement program, February/March 2008. Conducted at Faculty of Biological Sciences, Quaid-i-Azam University, Islamabad, Pakistan.

POSTERS/CONFERENCE PROCEEDINGS

1. Riaz, N., I. Touseef, M. Hafeez, A. Jabbar, S. Ahmad, M. Saleem and **Muhammad Farrukh Nisar**, Phytochemicals From *Ipomoea carnea* Collected From Murree Hills. Poster presented at 12th International Symposium on Natural Product Chemistry. 22-25 Nov., 2010.

2. Zhong, MJ, **Muhammad Farrukh Nisar**, SD Chen, RM Tyrrell, JL Zhong, 2017. **UVA irradiation releases antioxidants for photoprotection**. In 17th Congress of the European Society for Photobiology to be Held on September 04-08, 2017, Abstract No. 1175. Pisa, Italy.
3. **Muhammad Farrukh Nisar**, *The Oxidative Medicine: Light (UVA/Plasma) and Cell Signaling*. In 1st National Conference, “Sciences for the betterment of Humanity”, 04-06 May, 2017, Government Sadiq Woman College University, Bahawalpur, Pakistan.
4. Amina Rauf, Arsalan Ahmed, Naima Amin, Naeem Akhtar, **Muhammad Farrukh Nisar**, Anila Asif. *Making Photothermal Gold Nanoparticles Biocompatible and Stimuli Responsive by Encapsulation in Chitosan/Poly Acrylic Acid Nanocarrier*. Presented at 1st International Symposium on Tissue Engineering: Building Linkages (Clinicians, Industry and Researchers) on 25th September, 2018 at Interdisciplinary Research Center in Biomedical Materials (IRCBM), CUI Lahore, Pakistan.
5. **Muhammad Farrukh Nisar**, Haseeb Khaliq, Muhammad Yasir Waqas, Zahid Manzoor, Nasir Niaz, and Muhammad Rafiq. *Photomedicine: Ultraviolet radiation A and Heme Oxygenase (HO) system*. 1st International Conference on Recent Updates in Biotechnology, 16-18 October, 2019 (ICRUB-2019). Abstract No. ICRUB-00205. Organized by Department of Biotechnology, Abdul Wali Khan University, Mardan, KPK, Pakistan.
6. **Muhammad Farrukh Nisar**, Zahid Manzoor, Haseeb Khaliq, Muhammad Sajid, Muhammad Yasir Waqas, and Kamal Niaz. *Development of novel biomaterial using Chia seed gel with plant extracts for wound healing therapy and drug delivery*. A poster at, 2nd International Pharmacy Conference & Exhibition (IPCE 2020 - IUB). New Paradigms of Pharmacy Education & Practice in Pakistan, February 20-21, 2020. PP. 120-121.
7. H. Noreen, M. Aslam, S. Hassan, M. Bashir, N. Niaz, **Muhammad Farrukh Nisar**. Development of novel biomedical material using Chia seed gel combined with plant extracts for antibacterial, wound healing and drug delivery. Poster presented in Poster Presentation Competition on One World One Health Day, organized by One Health Club, CUVAS, Bahawalpur, Pakistan. 03.11.2020.
8. Mariam Bashir, Saba Hassan, Hina Noreen, Muhammad Rafiq, Muhammad Yasir Waqas, **Muhammad Farrukh Nisar**. Ultraviolet radiation A: Modulation of oxidative stress responsive Nrf2/HO1 pathway to combat CoVID-19. Poster presented

in Poster Presentation Competition on One World One Health Day, organized by One Health Club, CUVAS, Bahawalpur, Pakistan. 03.11.2020.

9. Mariam Bashir, Misbah Aslam, Muhammad Sajid, **Muhammad Farrukh Nisar**. Development of artificial skin for second degree burn wounds using chia seeds gel. A poster presented at the 2nd Two-Day National Training Workshop on “Bioassays for the exploration of Bioactives” during 25-26th October, 2021, conducted by Department of Biochemistry, University of Agriculture, Faisalabad, Pakistan.
10. Sabba Hassan, H Noreen, AI Aqib, MY Waqas, Qurat ul Ain, M Bashir, MA Qureshi, M Jan, M Rafiq, **Muhammad Farrukh Nisar**. Study of the Antioxidants, antimicrobial, and cytotoxicity potential of Vernonia cinerascens. International Conference on Interdisciplinary Innovation and Invention in Biotechnology and Nanotechnology (IIBN)-2021, Women University, Multan, Pakistan. November, 24-26.11.2021. Abstract ID# P-IIBN-36, pp 78.
11. MA Qureshi, AI Aqib, Qurat ul Ain, M Bashir, H Noreen, S Hassan, M Rafiq, **Muhammad Farrukh Nisar**. Antimicrobial potential of Leptadenia pyrotechnica against various pathogenic bacterial and fungal strains. International Conference on Interdisciplinary Innovation and Invention in Biotechnology and Nanotechnology (IIBN)-2021, Women University, Multan, Pakistan. November, 24-26.11.2021. Abstract ID# P-IIBN-22, pp 64.
12. Mariam Nisar, F Mazhar, A Javed, M Rizwan, H Khaliq, M Sajid, **Muhammad Farrukh Nisar**. **The introduction of natural de-ironization inducers (DII) technology in the medicated skin care products.** International Conference on Interdisciplinary Innovation and Invention in Biotechnology and Nanotechnology (IIBN)-2021, Women University, Multan, Pakistan. November, 24-26.11.2021. Abstract ID# P-IIBN-32, pp 74.
13. Qurat ul Ain, H Noreen, M Nisar, S Hassan, M Bashir, MY Waqas, M Rafiq, M Sajid, **Muhammad Farrukh Nisar**. Ultraviolet Radiations A (UVA) mediated oxidative stress modulates microRNAs expression and involvement of Nrf2/HO-1 pathway in increasing telomere length. International Conference on Interdisciplinary Innovation and Invention in Biotechnology and Nanotechnology (IIBN)-2021, Women University, Multan, Pakistan. November, 24-26.11.2021. Abstract ID# P-IIBN-34, pp 76.
14. Q Babar, H Noreen, M Nisar, A Javed, **Muhammad Farrukh Nisar**. Nano-encapsulation of Phenolic Compounds Coupled with UVA Light Exposure May

Induce the Activation of Nrf2 Antioxidant Pathway in Melanoma. International Conference on Interdisciplinary Innovation and Invention in Biotechnology and Nanotechnology (IIBN)-2021, Women University, Multan, Pakistan. November, 24-26.11.2021. Abstract ID# P-IIBN-33, pp 75.

15. **Muhammad Farrukh Nisar**, Photo-medicine: UVA, Cell signalling and therapeutics. International Conference on Interdisciplinary Innovation and Invention in Biotechnology and Nanotechnology (IIBN)-2021, Women University, Multan, Pakistan. November, 24-26.11.2021. Abstract ID# O-IIBN-26, pp 34.

BOOK CHAPTERS

1. **Muhammad Farrukh Nisar**, Chunpeng Wan, Zahid Manzoor, Muhammad Yasir Waqas, Kamal Niaz, Muhammad Mazhar Ayaz. Glycosidic derivatives of flavonoids. Elsevier Book Series (Recent Advances in Natural Products Analysis). Chapter 3.2, Pp. 57-76. Publishing Date: 01.09.2019. eBook ISBN: 9780128175194. <https://doi.org/10.1016/C2018-0-00121-8>.
2. **Mohammed Bule**, Fazlullah Khan, **Muhammad Farrukh Nisar**, Kamal Niaz. Tannins (Hydrolysable Tannins, Condensed Tannins, Phlorotannins, Flavono-Ellagitannins). Elsevier Book Series (Recent Advances in Natural Products Analysis). Chapter 3.6, Pp. 132-144. Publishing Date: 01.09.2019. eBook ISBN: 9780128175194. <https://doi.org/10.1016/C2018-0-00121-8>.
3. Siddique F., **Muhammad Farrukh Nisar**, M. Manzoor, F. Hussain, M. Saeed, K. Rahim, A. Javaid. Chapter Name: **Genomic Organization of SARS-CoV-2**: Book series title: Coronavirus Disease 2019 (COVID-19): Epidemiology, Biochemistry, Diagnostics and Treatment; Volume 1; A Coronavirus Disease 2019 (COVID-19): A perspective of new Scenario; Bentham Science Publishers, 2021. 98-132 (35), [DOI: 10.2174/9789814998932121010007](https://doi.org/10.2174/9789814998932121010007).
4. **Muhammad Farrukh Nisar**, Ahmad Uddin, Kamal Niaz, F. Siddiq, Chunpeng Wan, Julia Li Zhong. Chapter Name: **Photomedicine (Ultraviolet radiations A): Modulation of Nitric Oxide (NO) production to combat CoVID-19**: Book series title: Coronavirus Disease 2019 (COVID-19): Epidemiology, Biochemistry, Diagnostics and Treatment; Volume 1; A Coronavirus Disease 2019 (COVID-19): A perspective of new Scenario; Bentham Science Publishers, 2021. Pp: 192-218 (27). [DOI: 10.2174/9781681089072121020011](https://doi.org/10.2174/9781681089072121020011).
5. Zahid Manzoor, Shaukat Hussain Munawar, **Muhammad Farrukh Nisar**, Muhammad Yasir Waqas, Muhammad Mazhar Munir. **Computational Methods for**

- COVID-19 Treatment:** Book series title: Coronavirus Disease 2019 (COVID-19): Epidemiology, Biochemistry, Diagnostics and Treatment; Volume 1; A Coronavirus Disease 2019 (COVID-19): A perspective of new Scenario; Bentham Science Publishers, 2021. Pp: 288-313 (26). [DOI: 10.2174/9781681089072121020015](https://doi.org/10.2174/9781681089072121020015).
6. Shaukat Hussain Munawar, Zahid Manzoor, **Muhammad Farrukh Nisar**, Muhammad Yasir Waqas, Imran Ahmad Khan. **Evaluation of SARS-CoV-2 Neutralizing Antibodies in Sera Using Live Virus Microneutralization Assay.** Coronavirus Disease 2019 (COVID-19): Epidemiology, Biochemistry, Diagnostics and Treatment; Volume 1; A Coronavirus Disease 2019 (COVID-19): A perspective of new Scenario; Bentham Science Publishers, 2021. Pp: 301-314 (14). DOI: [10.2174/9789814998932121010014](https://doi.org/10.2174/9789814998932121010014)
 7. **Muhammad Farrukh NISAR**, Kang XU, Amir JAVED, Asif ALI, Sania SHAHEEN, Muhammad RAFIQ, Muhammad Yasir WAQAS, Zahid MANZOOR, Shaukat Hussain MUNAWAR. **non-coding RNAs: recent advancements in the development and biochemistry as novel anti-tumor drug molecules.** Current Studies in Health and Life Sciences 2023. **ISRES Publications. Section II: Life Sciences.** Pp. 240-282. ISBN 978-625-6959-18-7. Web link: https://www.isres.org/books/978-625-6959-18-7_31-12-2023.pdf
 8. M Nisar, M Dilawar, A Javed, M Rafiq, M Arfan, S ur Rahman, K Niaz, **Muhammad Farrukh Nisar**. Chapter Title: Current trends in the development and biochemistry of drugs. Book Title: Recent Advances in Industrial Biochemistry, Springer Publishers, Holland, Editors: MZ Hashmi, A Saeed, SG Musharraf, W Shuhong. ISBN: 978-3-031-50988-9. May 09, 2024. Pp. 347-370. https://doi.org/10.1007/978-3-031-50989-6_13.
 9. Malik A, Muhammad Farrukh Nisar, M Dilawar, H Fatima, F Siddique, M Sajid. 2024. Phytochemicals activating non-coding RNAs (ncRNAs) to modulate ferroptosis in human cancers and aging. VETERINARY MEDICINE ENHANCING ANIMAL HEALTH AND WELL BEING. Edited by Asif Raza, M. Watanabe, S Sugiharto. PP:415-474. ISBN: (e)Book: 978-627-94503-6-4. <http://doi:10.5281/zenodo.13739806>
 10. Javed A, S Shaheen, MM Ayaz, H Fatima, M Rafiq, MY Waqas, AI Aqib, SH Munawar, Z Manzoor, Muhammad Farrukh Nisar. 2024. Pharmacokinetics sand Pharmacodynamics in nanoparticle drug delivery in animals. VETERINARY MEDICINE ENHANCING ANIMAL HEALTH AND WELL BEING. Edited by

- Asif Raza, M. Watanabe, S Sugiharto. PP: 475-508. ISBN: (e)Book: 978-627-94503-6-4. <http://doi:10.5281/zenodo.13739806>
11. Shaheen S, A Javed, MY Waqas, MM Ayaz, H Fatima, SH Munawar, AI Aqib, Z Manzoor, M Arfan, M Rafiq, Muhammad Farrukh Nisar. 2024. Safety and Toxicological Considerations of Nanoparticles in Veterinary Practice. VETERINARY MEDICINE ENHANCING ANIMAL HEALTH AND WELL BEING. Edited by Asif Raza, M. Watanabe, S Sugiharto. PP: 509-539. ISBN: (e)Book: 978-627-94503-6-4. <http://doi:10.5281/zenodo.13739806>.
 12. Qurat-ul-Ain Babar, Ayesha Saeed, Mariam Bashir, Kamal Niaz, Muhammad Rafiq, Muhammad Yasir Waqas, Muhammad Farrukh Tahir, Amjad Islam Aqib, Muhammad Dilawar, Muhammad Farrukh Nisar*. Book Chapter “History of SARS-CoV-2”. “Genetic Diversity of Coronaviruses: From SARS-CoV to SARS-CoV-2 (Volume-II)”. Bentham Science Publishers, Bentham Books ISBN: 978-981-5322-19-4. September 30, 2025.
https://drive.google.com/open?id=1Zf3Ry7sUsJ7UPEuf4tYcSCoi04AjgToP&usp=drive_fs <https://drive.google.com/file/d/1Zf3Ry7sUsJ7UPEuf4tYcSCoi04AjgToP/view>. 2025, pp 58-76. DOI:

EDITORSHIP (Books/Journals)

1. Edited a Book, “Genetic Diversity of Coronaviruses: From SARS-CoV to SARS-CoV-2 (Volume-II)”. Volume II: Published. Editors: Kamal Niaz, Muhammad Farrukh Nisar and Muhammad Sajjad Khan. ISBN: 978-981-5322-19-4. September 30, 2025.
https://drive.google.com/open?id=1Zf3Ry7sUsJ7UPEuf4tYcSCoi04AjgToP&usp=drive_fs <https://drive.google.com/file/d/1Zf3Ry7sUsJ7UPEuf4tYcSCoi04AjgToP/view>
2. Edited a Book, “Novel Coronavirus Disease-19 (COVID-19): Genetic Diversity of Coronaviruses: From SARS-CoV to MARS-CoV”. Volume I: Published.
Editors: Kamal Niaz, Muhammad Farrukh Nisar and Muhammad Sajjad Khan
https://www.benthamscience.com/ebook_volume/3825.
DOI: [10.2174/97898152749501240101](https://doi.org/10.2174/97898152749501240101)
3. Edited a book entitled, “Book Series Title: Coronavirus Disease-19 (COVID-19): A Perspective of New Scenario, Volume I: COVID-19: Epidemiology, Biochemistry, Diagnostics and Treatment, Volume III is submitted.
https://www.eurekaselect.com/ebook_volume/3114 Bentham Science Publishers, UK.
<https://benthambooks.com/future-series-by-subject/medical-sciences/sub-category/anti-infectives-and-infectious-diseases/>

4. Edited a book entitled, “Book Series Title: Coronavirus Disease-19 (COVID-19): A Perspective of New Scenario, Volume II: COVID-19: Epidemiology, Biochemistry, Diagnostics and Treatment (In Press), https://www.eurekaselect.com/ebook_volume/3129 Bentham Science Publishers, UK. <https://benthambooks.com/future-series-by-subject/medical-sciences/sub-category/anti-infectives-and-infectious-diseases/>
5. Guest Editor, editing a special issue “*Network Pharmacology and Molecular Docking for Drug Discovery*” for Biomed Research International. Impact Factor 3.411. Open to call for papers. <https://www.hindawi.com/journals/bmri/si/646349/>
6. Guest Editor, editing a special issue “*Isoflavonoid on cancer and liver injury therapeutics*” for **Frontiers in Bioscience-Landmark**. Impact Factor 4.009. Open to call for papers. <https://www.fbscience.com/editors/special-issue/1382173333747363841>
7. Previously successfully edited a special issue as Guest Editor for Evidence-Based Complementary and Alternative Medicine (eCAM). Title of special issue: *The pharmacological activities of phytochemicals involving TGF- β signaling pathway*. Call for paper is closed. **Impact Factor: 2.650** <https://www.hindawi.com/journals/ecam/si/140202/>
8. Editing a special issue as Guest Editor for Evidence-Based Complementary and Alternative Medicine (eCAM). Title of special issue: **Regulation of Redox Signaling in Tumor Immunology, and the Role of Antioxidants**. Call for paper is closed, 09-12-2022. **Impact Factor: 2.650** <https://www.hindawi.com/journals/ecam/si/105359/>
9. Edited a special issue as Guest Editor for Frontiers in Pharmacology (**Impact Factor 5.98**) & Frontiers in Oncology (**Impact Factor 6.2**). Frontiers Publishers. Call for Papers is closed 01-10.2022. <https://www.frontiersin.org/research-topics/38863/immuno-oncological-challenges-and-chemoresistance-probiotics-as-a-new-strategic-tool>

EDITORSHIP (Books/Journals)

1. Edited a Book Novel Coronavirus Disease-19 (COVID-19): Genetic Diversity of Coronaviruses: From SARS-CoV to SARS-CoV-2. Volume III: In Press.
Editors: Kamal Niaz, Muhammad Farrukh Nisar and Muhammad Sajjad Khan
https://www.eurekaselect.com/ebook_volume/3825

2. **Guest Editor:** editing a special issue “*Network Pharmacology and Molecular Docking for Drug Discovery*” for Biomed Research International. Impact Factor 3.411. Open to call for papers. <https://www.hindawi.com/journals/bmri/si/646349/>
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6. **Guest Editor:** Edited a special issue as Guest Editor for Frontiers in Pharmacology (**Impact Factor 5.98**) & Frontiers in Oncology (**Impact Factor 6.2**). Frontiers Publishers. Call for Papers is closed 01-10.2022.
<https://www.frontiersin.org/research-topics/38863/immuno-oncological-challenges-and-chemoresistance-probiotics-as-a-new-strategic-tool>
7. **Guest Editor:** Edited a Special issue in Current Computer Aided Drug Design, Impact Factor 1.9 (2023 JCR), Bentham Science Publishers. Issue Closed.
Thematic Issue Topic: Combinatorial therapies using lncRNAs and small drug molecules for tumor treatment
Web Link: <https://www.eurekaselect.com/call-for-papers-detail/4926/specialissue>
8. **Guest Editor:** Editing a Special Issue in Anti-Cancer Agents in Medicinal Chemistry (ACAMC), Impact Factor 2.6 (2023 JCR). Bentham Science Publishers. Issue call is open.
Thematic Issue Topic: Induction of cell death in cancer cells by modulating telomerase activity using small molecule drugs.
Web Link: <https://www.eurekaselect.com/call-for-papers-detail/5274/specialissue>
9. **Guest Editor:** Editing a Special Issue in Current Research in Nutrition and Food Science. Impact Factor 0.9 (2023 JCR reports). Call is Open for submission.

Research Topic Theme: Phytonutrients: Their Role in Anti-Inflammatory, Anti-Cancer, and Other Health Benefits

Web Link: <https://www.foodandnutritionjournal.org/phytonutrients-their-role-in-anti-inflammatory-anti-cancer-and-other-health-benefits/>

10. Member Editorial Review Board, Natural Product Communications, SAGE Publishers, UK. Weblink: <https://uk.sagepub.com/en-gb/asi/natural-product-communications/journal203650#editorial-board>
11. Editing a Thematic Issue “*Tumor Microenvironment: Responsive Drug Delivery Systems and Emerging Therapeutic Strategies*” in Current Drug Targets, Q2, IF 2.5, Bentham Science Publishers. <https://www.eurekaselect.com/call-for-papers-detail/7979/specialissue/mostRecent> **Call for Papers is Open till 31.03.2027**
12. Editing a Book, entitled “Phytonutrients as Therapeutics: Molecular Mechanisms in Inflammation and Age-Related Diseases. Editors: Dr. Muhammad Farrukh Nisar, Prof. Chunpeng Wan, Bentham Science Publishers. **Call for Book Chapters is Open till 31.10.2026**

Dr. Muhammad Farrukh Nisar

Ph.D., Post Doc.

14.10.2026