

CURRICULUM VITAE



PERSONAL INFORMATION

DR. ZAHID HUSSAIN

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Google scholar Profile:

<https://scholar.google.com.my/citations?hl=en&imgq=Dr.+Zahid+Hussain&user=UEd8PGQAAAAJ>

EDUCATION

- Ph.D. Pharmaceutics, Universiti Kebangsaan Malaysia, Malaysia, **2014**
- Pharm-D (Doctor of Pharmacy), University of Sargodha, Pakistan, **2008**
- F.Sc. (Pre-medical), B.I.S.E, Gujranwala, Pakistan, **2003**
- Matriculation (SSC), B.I.S.E, Gujranwala, Pakistan, **2000**

EMPLOYEMENT HISTORY

Sep 2019 – to date : Assistant Professor, Department of Pharmaceutics and Pharmaceutical Technology, University of Sharjah, Sharjah, United Arab Emirates.

May 2015 – Aug 2019: Senior lecturer, Department of Pharmaceutics, Faculty of Pharmacy, Universiti Teknologi MARA, Puncak Alam Campus, Malaysia.

- May 2015 – Aug 2019: Course coordinator for “Physicochemical Basis for Pharmacy” (PHC400), Department of Pharmaceutics, Faculty of Pharmacy, Universiti Teknologi MARA, Puncak Alam Campus, Malaysia.
- Aug 2014 – April 2015: Lecturer, Faculty of Pharmacy, SEGi University, Kota Damansara Main Campus, Kuala Lumpur, Malaysia.
- Aug 2014 – April 2015: Module coordinator, (B-Pharm Program), Faculty of Pharmacy, SEGi University, Kota Damansara Main Campus, Malaysia.
- June 2013 – June 2014: Lecturer (Part-time), Department of Pharmacology, Faculty of Medicine, Lincoln University College, Petaling Jaya, Selangor Malaysia.
- Jan 2011 – Aug 2014: Research Assistant, Department of Pharmaceutics, Faculty of Pharmacy, Universiti Kebangsaan Malaysia, Kuala Lumpur, Malaysia.
- June 2008 – Dec 2010: Executive Regional Sales officer, Gujranwala Punjab Base, Ray Pharmaceuticals, Karachi, Pakistan.

Teaching Experience: 8 years

Total Working Experience: 10 years

TEACHING AREA – COURSE TAUGHT

- Advanced Pharmaceutics
- Physical Pharmacy
- Fundamentals of Pharmaceutics I & II
- Drug Delivery System I & II
- Pharmacokinetics and Biopharmaceutics
- Pharmaceutical Industry Practice
- Pharmaceutical Materials Characterization
- General Pharmacology and Systemic Pharmacology

RESEARCH ACTIVITIES

Research interest

- Targeted Drug Delivery Systems
- Multi-functional nanomedicines
- PEGylated nanomedicines
- Advanced drug delivery systems
- Ex vivo and In vivo animal models
- Pharmacological, immunological, and histological examinations

Research Grants (National/International)

1. Development and Evaluation of Novel Multi-functionalized Nanomedicines for Early diagnosis and Efficient Treatment of Breast cancer – **AED 40,000** (Sep 2020 – Aug 2022) (Principle investigator).
2. Development of Novel Topical Formulation of Hyaluronic Acid And Tacrolimus as Water Soluble Chitosan Nanoparticles: Characterization And Investigation of Anti-dermatitic and Cosmetic Effects (600-IRMI/DANA 5/3/LESTARI (0007/2016)) – **RM 20,000** (2016–2018) (Principle investigator).
3. Development And Moisturizing Properties of Palm Oil Containing Aqueous Cream For Treatment of Dry Skin Conditions (600-IRMI/MyRA 5/3/LESTARI (0133/2016)) – **RM 20,000** (2016–2018) (Co-investigator).
4. Plant Heteropolysaccharides for Non-steroidal Eczema cream. (600-RMI/DANA 5/3/LESTARI (63/2015)) – **RM 20,000** (2015-2018) (Co-investigator).
5. Eco-friendly L. Rhinocerotis-Chitosan Stablized Gold Nanoparticles as a Healing Accelerator for Diabetic Wound Dressing. (AP-2017-008/3) – **RM 100,000** (2017–2019) (Co-investigator).

Research students (Postgraduates/graduates)

PhD

1. Mohd Hafiz Bin Mohd Jaafar (2017618232) “Plant Heteropolysaccharides for Non-steroidal Eczema cream” (2016–2020).

Master students

1. Mahnoor Naseem Ahmed Naseem (ID U20105718) “Hyaluronic Acid Functionalized Nanoparticles for Co-Delivery of Methotrexate and Zoledronic Acid: Fabrication, Characterization and in Vitro Evaluation Using RAW 264.7 and LNCaP Cells” – University of Sharjah, UAE (2021–2023).
2. Lama Abdulrahim Abdul Moti “Hyaluronic Acid Functionalized Polymeric Nanoparticles for Targeted delivery of Tamoxifen and Paclitaxel: Fabrication, Characterization and in Vitro Evaluation” – University of Sharjah, UAE (2021–2023).

3. Jafar Raid M. Hussain Al-Shadidi (ID U19104606) “PEGylated Polymeric Nanoparticles as Anticancer Drug Delivery System: Optimization, Stability and Interaction with Various Cancer Cells” – University of Sharjah, UAE (2021–2023).
4. Nik Amanina Farhanah Abu Hassan (2016651306) “Chitosan nanoparticles loaded with caffeine for improved delivery to the skin and hair follicles” – Universiti Teknologi MARA, Malaysia (2016–2018).
5. Nursyafiqah Sahrin Ayum (2016447104) “Development and evaluation of alpha-arbutin loaded chitosan nanoparticles for percutaneous delivery” (2016–2018).

Graduation Projects

1. Moisturizing effects of water soluble chitosan based hyaluronic acid cream (2015–2016).
2. Moisturizing effects of water soluble chitosan based vitamin-E cream (2015–2016).
3. Moisturizing effects of QV-cream based water soluble chitosan formulation (2015–2016).
4. Betamethasone loaded chitosan nanoparticles: preparation, characterization and colloidal stability (2016–2017).
5. Preparation, characterization and in vitro release kinetics of betamethasone loaded polymeric nanoparticle: understanding the effect of pH and preparation conditions (2016–2017).
6. Evaluation of successful fabrication & morphological characteristics of betamethasone encapsulated nanoparticles (2016–2017).
7. Hyaluronic acid: an efficient biomaterial for treatment of skins, joint, and eyes disease (2017–2018).
8. Efficacy of hyaluronic acid based formulations for cosmetic effects: a critical review (2017–2018).
9. Hyaluronic acid modified betamethasone encapsulated polymeric nanoparticles: fabrication, characterization, in vitro release kinetics and dermal targeting (2017–2018).
10. Betamethasone loaded nanoparticles: fabrication, characterization and in vitro release kinetics (2017–2018).

Active Research Collaborations

1. **Dr. Shahzeb Khan**, Assistant Professor, Department of Pharmaceutics, Faculty of Pharmacy, Malakand University, KPK, Pakistan.
2. **Dr. Mohammed Sohail**, Assistant Professor, Department of Pharmaceutics, Faculty of Pharmacy, COMSATS University, Islamabad, Pakistan.
3. **Dr. Rai Mohammed Sarfraz**, Assistant Professor, Department of Pharmacy, University of Sargodha, Punjab, Pakistan

4. **Dr. Mohammed A.S Abourehab**, Department of Pharmaceutics, Faculty of Pharmacy, Umm Al-Qura University, Makkah, Saudi Arabia.
5. **Dr. Nor Amlizan Ramli**, Deputy Dean Faculty of Pharmacy, Universiti Teknologi MARA, Puncak Alam Campus, Malaysia – *“Investigation of cosmetic and anti-dermatitic potential of Konjac Glucomanon”* – 2015–2018.

Publication Summary

• Current Total Impact Factor	411.56
• Peer reviewed publications	92
• Book chapter (published)	5
• Citations	2150 (Google Scholar)
• H-index	29 (Google Scholar)
• i-10 index	53 (Google Scholar)

Book Chapters

1. Qurat Ul Ain, Muhammad Asim Farooq, Bilgen Caliskan, Anam Ahsan, Md Aquib, **Zahid Hussain**, Bo Wang. **Chapter 15:** In: Akash M., Rehman K., Hashmi M. (eds) Endocrine Disrupting Chemicals-induced Metabolic Disorders and Treatment Strategies. Emerging Contaminants and Associated Treatment Technologies, 2021. Springer, Cham. https://doi.org/10.1007/978-3-030-45923-9_7.
2. **Zahid Hussain***, S. Khan, M.A.S. Abourehab, H.E. Thu. **Chapter 9:** Silver Nanoparticles: a promising Nanoplatform for Targeted Delivery of Therapeutics and optimised therapeutic efficacy. *In book: “Metal Nanoparticles for Drug Delivery and Diagnostic Applications”*, 2020. Publisher: Elsevier, p. 141-173. <https://doi.org/10.1016/B978-0-12-816960-5.00009-4>.
3. Qurat UL Ain, Debmalya Roy, Anam Ahsan, Muhammad Asim Farooq, Md Aquib, **Zahid Hussain**, Brobbey Emmanuel, Bo Wang. **Chapter 10:** Stability Studies of Parenteral Products. In: Akash M.S.H., Rehman K. (eds) Drug Stability and Chemical Kinetics. 2020. Springer, Singapore. https://doi.org/10.1007/978-981-15-6426-0_15.
4. **Zahid Hussain***. **Chapter 11:** Towards development of novel diagnostic nano-imaging platform for lung cancer. *In book: “Nanotechnology-Based Targeted Drug Delivery Systems for Lung Cancer”*, 2019. Publisher: Elsevier, p. 269-292. <https://doi.org/10.1016/B978-0-12-815720-6.00011-3>.

5. Tarek A. Ahmad*, **Zahid Hussain**. Preparation of Parenteral In Situ Gel Formulations Based on Smart PLGA Polymers: Concepts to Decrease Initial Drug Burst and Extend the Drug Release. In book, Biodegradable Polymers: Recent Developments and New Perspectives. **Chapter: 9**: Publisher: IAPC Publishing, Zagreb, Croatia, 2017, Editors: Geraldine Rohman, pp.315-336.

Publications – 2021

1. **Zahid Hussain***, Muhammad Abdur Rahim, Nasrullah Jan, Hassan Shah, Mutasem Rawas-Qalaji, Shahzeb Khan, Mohammad Sohail, Hnin Ei Thu, Nor Amlizan Ramli, Rai Muhammad Sarfraz, Mohammed A.S. Abourehab. Cell membrane cloaked nanomedicines for bio-imaging and immunotherapy of cancer: Improved pharmacokinetics, cell internalization and anticancer efficacy. *Journal of Controlled Release 2021, 335: 130-157 (I.F = 9.77, Q1)*.
2. **Zahid Hussain***. Nanotechnology guided newer intervention for treatment of osteoporosis: efficient bone regeneration by up-regulation of proliferation, differentiation and mineralization of osteoblasts. *International Journal of Polymeric Materials and Polymeric Biomaterials 2021; 70(1): 1-13 (I.F = 2.61, Q2)*.
3. Syed Ahmed Shah, Muhammad Sohail, Muhammad Usman Minhas, Shahzeb Khan, **Zahid Hussain**, Arshad Mahmood, Mubeen Kousar, Hnin Ei Thu, Mudassir Abbasi, Mehboob ur Rehman Kashif. Curcumin-laden hyaluronic acid-co-Pullulan-based biomaterials as a potential platform to synergistically enhance the diabetic wound repair. *International Journal of Biological Macromolecules 2021; 185: 350-368 (I.F = 6.95, Q1)*.
4. Maryam Shafique, Muhammad Sohail, Muhammad Usman Minhas, Toubha Khaliq, Mubeen Kousar, Shahzeb Khan, **Zahid Hussain**, Arshad Mahmood, Mudassir Abbasi, Heather C. Aziz, Syed Ahmed Shah. Bio-functional hydrogel membranes loaded with chitosan nanoparticles for accelerated wound healing. *International Journal of Biological Macromolecules 2021, 170: p 207-221 (I.F = 6.95, Q1)*.
5. Muhammad Abdur Rahim, Nasrullah Jan, Safiullah Khan, Hassan Shah, Asadullah Madni, Arshad Khan, Abdul Jabar, Shahzeb Khan* Abdelbary Elhissi, **Zahid Hussain**, Heather C Aziz, Muhammad Sohail, Mirazam Khan, Hnin Ei Thu. Recent Advancements in Stimuli Responsive Drug Delivery Platforms for Active and Passive Cancer Targeting. *Cancers, 13(4), 670. Cancer 2021 (I.F = 6.63, Q2)*.
6. Syed Muhammad Hassan Shah, Syed Muhammad Mukarram Shah, Shahzeb Khan, Farhat Ullah, Syed Wadood Ali Shah, Mehreen Ghias, Muhammad Shahid, Hugh DC.

Smyth, **Zahid Hussain**, Muhammad Sohail, Abdelbary Elhissi, Mohammad Isreb. Efficient design to fabricate smart Lumefantrine nanocrystals using DENA® particle engineering technology: Characterisation, in vitro and in vivo antimalarial evaluation and assessment of acute and sub-acute toxicity. *Journal of Drug Delivery Science and Technology*, 2020; 61: 102228 (I.F = 3.98, Q2).

7. Umaira Rehman, Rai Muhammad Sarfraz, Asif Mahmood, **Zahid Hussain**, Hnin Ei Thu, Nadiyah Zafar, Muhammad Umar Ashraf, Nighat Batool. Smart pH-responsive copolymeric hydrogels for controlled delivery of capecitabine: Fabrication, Optimization and in vivo toxicology screening. *Current Drug Delivery* 2021. doi: 10.2174/1567201818666210212085912. (In press); (I.F = 2.56, Q2).
8. **Zahid Hussain**, Hnin Ei Thu*, Mohammad Aly Haider, Shahzeb Khan, Mohammed Sohail. Fahad Hussain. Biological Interaction of Nanomaterials May Induce Severe Nanotoxicity: A Review on Mechanism of Toxicokinetics and Toxicodynamics. *Wikipedia of Polymer and Polymer Technology*, 2021 (In press); (I.F = 1.58, Q2).
9. Hajra Afeera Hamid, Shahzeb Khan, Syed Muhammad Noor Shah, Muhammad Asghar, Muhammad Shahid, **Zahid Hussain**, Muhammad Sohail, Barkat Ali Khan, Fazli Amin, Syed Umer Jan, Abdelbary Elhissi, Syed Muhammad Hassan Shah, Muhammad Usman, Minhas, Syed Wadood Ali Shah, Naveed Ahmad. Piroxicam loaded polymer hybrid microspheres based tablets with modified release kinetics: Development, Characterization and in Vivo evaluation. *Pakistan Journal of Pharmaceutical Sciences* 2021, (In press); (I.F = 0.68, Q3).
10. S. Bashir, M. Aamir, R.M. Sarfaraz, **Zahid Hussain**, M.U. Sarwer, A. Mahmood, M.R. Akram, M.N. Qaisar. Fabrication, characterization and in vitro release kinetics of tofacitinib-encapsulated polymeric nanoparticles: a promising implication in the treatment of rheumatoid arthritis. *International Journal of Polymeric Materials and Polymeric Biomaterials* 2020, 70:7, 449-458 (I.F = 2.61, Q2).

Publications – 2020

11. **Zahid Hussain**, Hnin Ei Thu*, Ibrahim Elsayed, Shahzeb Khan, Mohammad Sohail, Muhammad Asim Farooq, Rai Muhammad Sarfraz. Nano-scaled materials may induce severe neurotoxicity upon chronic exposure to brain tissues: a critical appraisal and recent updates on predisposing factors, underlying mechanism and future prospects. *Journal of Controlled Release* 2020; 328: 873-894 (I.F = 9.77, Q1).

12. **Zahid Hussain***, M. Pandey, H. Choudhury, P.C. Ying, T.M. Xian, T. Kaur, G.W. Jia, B. Gorain. Hyaluronic acid functionalized nanoparticles for simultaneous delivery of curcumin and resveratrol for management of chronic diabetic wounds: Fabrication, characterization, stability and in vitro release kinetics. *Journal of Drug Delivery Science and Technology* 2020, 57: 101747 (**I.F = 3.98, Q2**).
13. **Zahdi Hussain**, Hnin Ei Thu*, Mohamed Haider, Shahzeb Khan, Mohammad Sohail, Fahad Hussain, Farman Matloob Khan, Muhammad Asim Farooq, Ahmad Nazrun Shuid. A Review of Imperative Concerns against Clinical Translation of Nanomaterials: Unwanted Biological Interactions of Nanomaterials Cause Serious Nanotoxicity. *Journal of Drug Delivery Science and Technology*, 2020; 59: 101867 (**I.F = 3.98, Q2**).
14. A.R. Abbasi, M. Sohail, M.U. Minhas, T. Khaliq, M. Kousar, S. Khan, **Zahid Hussain**, A. Munir. Bioinspired sodium alginate based thermosensitive hydrogel membranes for accelerated wound healing. *International Journal of Biological Macromolecules*, 155: p 751-765 (**I.F = 6.95, Q1**).
15. M.A. Zia, M. Sohail, M.U. Minhas, R.M. Sarfraz, S. Khan, M. de Matas, **Zahid Hussain**, M. Abbasi, S.A. Shah, M. Kousar, N. Ahmad. HEMA based pH-sensitive semi IPN microgels for oral delivery; a rationale approach for ketoprofen, *Drug Development and Industrial Pharmacy* 2020, 46(2): p 272-282 (**I.F = 3.22, Q2**).
16. H.A. Hameed, S. Khan, M. Shahid, R. Ullah, A. Bari, S.S. Ali, **Zahid Hussain**, M. Sohail, S.U. Khan, T.T. Htar. Engineering of Naproxen Loaded Polymer Hybrid Enteric Microspheres for Modified Release Tablets: Development, Characterization, in silico Modelling and in vivo Evaluation. *Drug Design, Development and Therapy*, 2020, 14: p 27-41 (**I.F = 4.16, Q1**).
17. Shahzeb Khan, Muhammad Sohail, Zahid Hussain, Muhammad Asgar, Heather Aziz, Wadud Ali, Muhammad Usman Minhas, Muhammad Shahid. Clarithromycin Loaded Lipid Polymer Hybrid Nanoparticles: Fabrication, In Vitro and In vivo Evaluation. *Pakistan Journal of Pharmaceutical Sciences*, 2020, 33(3): 1311-1317 (**I.F = 0.68, Q3**).

Publications – 2019

18. Fang G, Zhang Q, Pang Y, Thu HE, **Zahid Hussain***. Nanomedicines for improved targetability to inflamed synovium for treatment of rheumatoid arthritis: Multi-

functionalization as an emerging strategy to optimize therapeutic efficacy. *Journal of Controlled Release* 2019; 303:181-208 (I.F = 9.77, Q1).

19. **Zahid Hussain***, Khan S, Imran M, Sohail M, Shah SWA, de Matas M. PEGylation: a promising strategy to overcome challenges to cancer-targeted nanomedicines: a review of challenges to clinical transition and promising resolution. *Drug Delivery and Translational Research* 2019; 9(3): 721–734 (IF = 4.62, Q1).
20. **Zahid Hussain***, Hnin Ei Thu, Shahzeb Khan, Mohammed Sohail. Hybridization and functionalization with biological macromolecules synergistically improve biomedical efficacy of silver nanoparticles: Reconceptualization of in-vitro, in-vivo, and human clinical studies. *Journal of Drug Delivery Science and Technology* 2019; 54:101-169 (I.F = 3.98, Q1).
21. Li G, Li P, Chen Q, Thu HE, **Zahid Hussain***. Current Updates on Bone Grafting Biomaterials and Recombinant Human Growth Factors Implanted Biotherapy for Spinal Fusion: A Review of Human Clinical Studies. *Current Drug Delivery* 2019; 16: 94–110 (I.F = 2.56, Q2).
22. Md S, Kuldeep Singh JKA, Waqas M, Pandey M, Choudhury H, Habib H, Hussain F, **Zahid Hussain***. Nanoencapsulation of betamethasone valerate using high-pressure homogenization-solvent evaporation technique: optimization of formulation and process parameters for efficient dermal targeting. *Drug Development and Industrial Pharmacy* 2019; 45: 323-332 (I.F = 3.22, Q2).
23. Bukhari SNA, Hussain F, Thu HE, **Zahid Hussain***. Synergistic effects of combined therapy of curcumin and Fructus Ligustri Lucidi for treatment of osteoporosis: cellular and molecular evidence of enhanced bone formation. *Journal of Integrative Medicine* 2019; 17 (1): 38-45 (I.F = 3.03, Q1).
24. Mazzura Wan Chik, **Zahid Hussain**, Mohd Zulkefeli, Minaketan Tripathy, Sunil Kumar, Abu Bakar Abdul Majeed, K. Byrappa. Polymer-wrapped single-walled carbon nanotubes: a transformation toward better applications in healthcare. *Drug Delivery and Translational Research* 2019; 9(2): 578-594 (IF = 4.62, Q1).
25. Lidawati Zakaria, Tin Wui Wong, Nor Khaizan Anuar, Idanawati Naharudin, Minaketan Tripathy, Ravi Sheshala, **Zahid Hussain**. Enhancing sustained drug release property of chitosan in spheroids through crosslinking reaction and coacervation. *Powder Technology*, 2019; 354: 815-821 (IF = 5.13, Q1).

26. Muhammad Sohail, Mudassir, Muhammad Usman Minhas, Shahzeb Khan, **Zahid Hussain**, Marcel de Matas, Syed Ahmed Shah, Samiullah Khan, Mubeen Kousar, Kaleem Ullah. Natural and Synthetic Polymers Based Smart Biomaterials for Management of Ulcerative Colitis: A Review of Recent Developments and Future Prospects. *Drug Delivery and Translational Research* 2019; 9(2): 595-614 (IF = 4.62, Q1).
27. Muhammad Asim Farooq, Md Aquib, Daulat Haleem Khan, **Zahid Hussain**, Anam Ahsan, Mirza Muhammad Faran Ashraf Baig, Dickson Pius Wande, Muhammad Masood Ahmad, Hafiz Muhammad Ahsan, Jiang Jiajie, Bo Wang. Recent advances in the delivery of disulfiram: a critical analysis of promising approaches to improve its pharmacokinetic profile and anticancer efficacy. *DARU Journal of Pharmaceutical Sciences* 2019, 27(2); 853–862 (I.F = 3.11, Q2).
28. Mudassir Abbasi, Muhammad Sohail, Muhammad Usman Minhas, Shahzeb Khan, **Zahid Hussain**, Arshad Mahmood, Syed Ahmed Shah, Mubeen Kousar. Novel biodegradable pH-sensitive hydrogels: An efficient controlled release system to manage ulcerative colitis. *International Journal of Biological Macromolecules* 2019; 136, 83-96 (I.F = 6.95, Q1).
29. Shah SA, Sohail M, Khan S, Minhas MU, de Matas M, Sikstone V, **Hussain Z**, Abbasi M, Kousar M. Biopolymer-based biomaterials for accelerated diabetic wound healing: A critical review. *International Journal of Biological Macromolecules* 2019; 139: 975-993. (I.F = 6.95, Q1).
30. Syed Ahmad Shah, Muhammad Sohail, Muhammad Usman Minhas, Shahzeb Khan, **Zahid Hussain**, Asif Mahmood. pH Responsive CAP-co-poly(methacrylic acid) Based Hydrogel as an Efficient Platform for Controlled Gastrointestinal Delivery: Fabrication, Characterization, In-vitro and In-vivo Toxicity Evaluation. *Drug Delivery and Translational Research* 2019; 9(2): 555-577 (IF = 4.62, Q1).
31. Stalielson Tatenda Ndlovu, Naseem Ullah, Shahzeb Khan, Pritika Ramharack, Mahmoud Soliman, Marcel de Matas, Muhammad Shahid, Muhammad Sohail, Muhammad Imran, Syed Wadood Ali Shah, **Zahid Hussain**. Domperidone nanocrystals with boosted oral bioavailability: fabrication, evaluation and molecular insight into the polymer-domperidone nanocrystal interaction. *Drug Delivery and Translational Research*. 2019; 9(1): 284-297 (I.F = 4.62, Q1).
32. Nursyafiqah Sahrum Ayumi, Shariza Sahudin, **Zahid Hussain**, M. Z. Hussain, Nor Hayati Abu Samah. Polymeric nanoparticles for topical delivery of alpha and beta

arbutin: preparation and characterization. *Drug Delivery and Translational Research*. 2019; 9(2): 482-496 (***I.F = 4.62, Q1***).

33. Ahmad U, Sohail M, Ahmad M, Minhas MU, Khan S, **Zahid Hussain**, Kousar M, Mohsin S, Abbasi M, Shah SA, Rashid H. Chitosan based thermosensitive injectable hydrogels for controlled delivery of loxoprofen: development, characterization and in-vivo evaluation. *International Journal of Biological Macromolecules*, 2019; 129: 233-245 (***I.F = 6.95, Q1***).
34. Zhang L, **Zahid Hussain**, Ren Z. Recent Advances in Rational Diagnosis and Treatment of Normal Pressure Hydrocephalus: A Critical Appraisal on Novel Diagnostic, Therapy Monitoring and Treatment Modalities. *Current Drug Targets* 2019; 20: 1041-1057 (***I.F = 3.46, Q2***).

Publications – 2018

35. Gao X, Guo L, Li J, Thu HE, **Zahid Hussain***. Nanomedicines guided nanoimaging probes and nanotherapeutics for early detection of lung cancer and abolishing pulmonary metastasis: Critical appraisal of newer developments and challenges to clinical transition. *Journal of Controlled Release* 2018; 292: 29-57 (***I.F = 9.77, Q1***).
36. Shahzeb Khan, Muhammad Imran, Tariq Tahir Butt, Syed Wadood Ali Shah, Muhammad Sohail, Arif Malik, Srijit Das, Hnin Ei Thu, Aishah Adam, **Zahid Hussain***. Curcumin Based Nanomedicines as Efficient Nanoplatfor for Treatment of Cancer: New Developments in Reversing Cancer Drug Resistance, Rapid Internalization, and Improved Anticancer Efficacy. *Trends in Food Science and Technology* 2018, 80, 8–22 (***I.F = 12.56, Q1***).
37. Fan Zhuo, Muhammad A.S. Abourehab, **Zahid Hussain***. Hyaluronic Acid Decorated Tacrolimus-Loaded Nanoparticles: Efficient Approach to Maximize Dermal Targeting and Anti-dermatitis Efficacy. *Carbohydrate Polymers* 2018; 197: 478-489. (***I.F = 9.38, Q1***).
38. **Zahid Hussain***, Mahwish Arooj, Arif Malik, Fahad Hussain, Hassan Safdar, Shahzeb Khan, Muhammad Sohail, Manisha Pandey, Hira Choudhury, Hnin Ei Thu. Nanomedicines as Emerging Platform for Simultaneous Delivery of Cancer Therapeutics: New Developments in Overcoming Drug Resistance and Optimizing Anticancer Efficacy. *Artificial Cells, Nanomedicine, and Biotechnology* (***I.F = 5.67, Q1***).

39. **Zahid Hussain***, Hnin Ei Thu, Ahmad Nazrun Shuid, Haliza Katas, Fahad Hussain. Recent advances in polymer-based wound dressings for the treatment of diabetic foot ulcer: an overview of state-of-the-art. *Current Drug Targets* 2018;19 (5): 527-550. **(I.F = 3.46, Q2)**.
40. **Zahid Hussain**, Shariza Sahudin*, Izaaz Naziyah Mohd Haliza, Mumtaz Hussain, Muhammad Luqman Mohd Sabri and Muhammad Anwar Ismail. Hemicellulase-Mediated Hydrolysis of Chitosan: An Efficient Method to Synthesize Water Soluble Chitosan. *International Journal of Pharmaceutical Sciences and Research (IJPSR)* 2018; 9 (1): 80-87 (Scopus index).
41. Bukhari SNA, Roswandi NL, Waqas M, Habib H, Hussain F, Khan S, Sohail M, Ramli NA, Thu HE, **Zahid Hussain***. Hyaluronic acid, a promising skin rejuvenating biomedicine: A review of recent updates and pre-clinical and clinical investigations on cosmetic and nutricosmetic effects. *International Journal of Biological Macromolecules* 2018; 120: 1682-1695 **(I.F = 6.95, Q1)**.
42. Li Hui Chen, Jian Feng Xue, Zhi Yong Zheng, **Zahid Hussain***. Hyaluronic Acid, an Efficient Biomacromolecule for Treatment of Inflammatory Skin and Joint Diseases: A Review of Recent Developments and Critical Appraisal of Preclinical and Clinical Investigations. *International Journal of Biological Macromolecules* 2018; 116: 572-584 **(I.F = 6.95, Q1)**.
43. Jinlei Dong, Hnin Ei Thu, Mohamed A.S. Aborehab, **Zahid Hussain***. Design and development of novel hyaluronate-modified nanoparticles for combo-delivery of curcumin and alendronate: Fabrication, characterization, and cellular and molecular evidence of enhanced bone regeneration. *International Journal of Biological Macromolecules* 2018; 116: 1268-1281. **(I.F = 6.95, Q1)**.
44. Bapi Gorain, Hira Chudhury, Manisha Pandey, Prahsnat Kesharwani, Muhammad Mustafa Abeer, **Zahid Hussain***. Carbon Nanotube Scaffolds as Emerging Nanoplatform for Myocardial Tissue Regeneration: A Review of Recent Developments and Therapeutic Implications. *Biomedicine and Pharmacotherapy* 2018; 104: 496-508 **(I.F = 6.52, Q1)**.
45. Manisha Pandey, Hira chaudhury, Tarakini Gunasegaran, Saranyah Shanmugah Nathan, Shadab Md, Minaketan Tripathy, **Zahid Hussain***. Hyaluronic Acid Modified Betamethasone Encapsulated Polymeric Nanoparticles: Fabrication, Characterization, in Vitro Release Kinetics and Dermal Targeting. *Drug Delivery and Translational Research* 2018 **(IF, 4.62, Q1)**.

46. Manisha Pandey, Hira Choudhury, Bapi Gorain, Prahsnat Kesharwani, Muhammad **Zahid Hussain***. Recent Updates on Novel Approaches in Insulin Drug Delivery: A Review of Challenges and Pharmaceutical Implications. *Current Drug Targets* 2018;19: 1782-1800 (**I.F = 3.46, Q2**).
47. Hassan Safdar, Humna Hassan, Sajal Afzal, **Zahid Hussain***. Exploring Promising Immunomodulatory Potential of Natural and Synthetic 1,3-diphenyl-2-propen-1-one Analogs: A Review of Mechanistic Insight. *Mini-Reviews in Medicinal Chemistry* 2018;18 (12): 1047-1063 (**IF, 3.86, Q2**).
48. Mohamad Aidil Tumpang, Nor Amlizan Ramli, **Zahid Hussain***. Phytomedicines Are Efficient Complementary Therapies for The Treatment of Atopic Dermatitis: A Review of Mechanistic Insight and Recent Updates. *Current Drug Targets* 2018;19 (6): 674-700. (**I.F = 3.46, Q2**).
49. Fazli Amin, Shahzeb Khan, Syed Muhammad Hassan Shah, Haroon Rahim, **Zahid Hussain**, Muhammad Sohail, Riaz Ullah, Mansour S Alsaied, Abdelaaty A Shahat. A new strategy for taste masking of azithromycin antibiotic: development, characterization, and evaluation of azithromycin titanium nanohybrid for masking of bitter taste using physisorption and panel testing studies. *Drug Design, Development and Therapy*, 2018, 12; 3855—3866 (**I.F = 4.16, Q1**).
50. Hnin Ei Thu, **Zahid Hussain**, Isa Naina Mohamed, Ahmad Nazrun Shuid. Eurycoma Longifolia, a Potential Phytomedicine for the Treatment of Cancer: Evidence of p53-mediated Apoptosis in Cancerous Cells. *Current Drug Targets* 2018; 19 (10): 1109-1126 (**I.F, 3.46, Q2**).
51. Choudhury H, Pandey M, Chin PX, Phang YL, Cheah JY, Pichika MR, Kesharwani P, **Hussain Z**, Gorain B. Transferrin receptors-targeting nanocarriers for efficient targeted delivery and transcytosis of drugs into the brain tumors: a review of recent advancements and emerging trends. *Drug Delivery and Translational Research*. 2018; 8(5):1545-1563 (**I.F = 4.62, Q1**).
52. Hnin Ei Thu, **Zahid Hussain**, Isa Naina Mohamed. Recent advances in antibacterial, antiprotozoal and antifungal trends of Eurycoma longifolia: A review of therapeutic implications and future prospects. *Current Drug Targets* 2018;19(14):1657-1671. (**I.F, 3.46, Q2**)

53. Shaimaa Ahmad, Inam Ullah Khan, Thirumala Govender, Nisar ur Rehman, Waqar Ali, Syed Muhammad Hassan Shah, **Zahid Hussain**, Shahzeb Khan. Experimental and molecular modeling approach to optimize suitable polymers for fabrication of stable fluticasone nanoparticles with enhanced dissolution and antimicrobial activity. *Drug Design Development and Therapy*, 2018 12: 255–269 (IF, 4.16, Q1).
54. Fahad Hussain, Arif Malik, Muhammad Saeed Qureshi, Muhammad Imran, Sulayman Waqar, Hassan Shafique, Zohaib Rana, Hnin Ei Thu, **Zahid Hussain**. Homeostatic relevance of vitamin D in maintaining male fertility in human: Downregulation of oxidative stress and up-regulation of anti-oxidative defense and steroidal hormones. *Asian Pacific Journal of Reproduction* 2018: 56-61 (Q2).
55. Hnin Ei Thu, **Zahid Hussain**, Isa Naina Mohamed, Ahmad Nazrun Shuid. Exploring dynamic biomedical algorithm of *Eurycoma longifolia* Jack and its bioactive phytochemicals: A review of pharmacokinetic and pharmacodynamic implications and future prospects. *Asian Pacific Journal of Tropical Medicine* 2018; 11(2): 89-97. (IF, 1.22, Q1).
56. Hnin Ei Thu, **Zahid Hussain**, Isa Naina Mohamed, Ahmad Nazrun Shuid*. *Eurycoma Longifolia*, a Promising Suppressor of RANKL-induced Differentiation and Activation of Osteoclasts: An in Vitro Mechanistic Evaluation Using RAW 264.7 Cells. *Journal of Ayurveda and integrative medicine* 2018. pii: S0975-9476(17)30319-4 (Q2).
57. Hnin Ei Thu, Isa Naina Mohamed, **Zahid Hussain**, Ahmad Nazrun Shuid. Exploring Molecular Mechanism of Bone-forming Capacity of *Eurycoma Longifolia*: Evidence of Enhanced Expression of Bone-related Biomarkers. *Journal of Ayurveda and integrative medicine* 2018; 9(4): 272-280 (Q2).
58. Hnin Ei Thu, **Zahid Hussain**, Isa Naina Mohamed, Ahmad Nazrun Shuid*. Mechanistic Insight into the Efficient Osteogenic Potential of Dihydrotestosterone: Exploring Sequential Expression of Bone-related Protein Biomarkers. *Acta Medica Iranica* 2018; 56 (4) (Q3).
59. Abu Hassan, N. A. F., Sahudin, S., **Hussain, Z.**, Hussain, M., & Hussain, M. Self-assembled chitosan nanoparticles for percutaneous delivery of caffeine: preparation, characterization and in vitro release studies. *International Journal of Applied Pharmaceutics*, 2018; 10(4), 172-185 (Q2).

60. **Zahid Hussain***, Hnin Ei Thu, Haliza Katas, Syed Nasir Abbas Bukhari. Hyaluronic Acid-Based Biomaterials: A Versatile and Smart Approach to Tissue Regeneration and Treating Traumatic, Surgical, and Chronic Wounds. *Polymer Reviews 2017; 57 (4): 594–630 (I.F = 13.28, Q1)*.
61. **Zahid Hussain***, Hnin Ei Thu, Muhammad Wahab Amjab, Fahad Hussain, Tarek A. Ahmad. Exploring recent development to improve antioxidant, anti-inflammatory and antimicrobial efficacy of curcumin: A review of new trends and future perspectives. *Materials Science and Engineering C. 2017; 77: 1316–1326 (I.F = 7.33, Q1)*.
62. **Zahid Hussain***, Hnin Ei Thu, Shioh-Fern Ng, Shahzeb Khan, Haliza Katas. Nano-encapsulation, an efficient and promising approach to maximize wound healing efficacy of curcumin: New trends and state-of-the-art. *Colloids and Surfaces B: Biointerfaces 2017; 150: 223–241 (I.F = 5.27, Q1)*.
63. **Zahid Hussain***, Hnin Ei Thu, Ahmad Nazrun Shuid, Prashant Kesharwani, Shahzeb Khan, Fahad Hussain. Phytotherapeutic Potential of Natural Herbal Medicines for the Treatment of Mild-To-Severe Atopic Dermatitis: A Review of Human Clinical Studies. *Biomedicine & Pharmacotherapy 2017; 93: 596–608 (I.F = 6.52, Q1)*.
64. Hassan Safdar, **Zahid Hussain***, Mohammed Aborehab, Humna Hassan, Sajal Afzal, Hnin Ei Thu. New Developments and Clinical Transition of Hyaluronic Acid-Based Nanotherapeutics for Treatment of Cancer: Reversing Multidrug Resistance, Tumor-Specific Targetability and Improved Anticancer Efficacy. *Artificial Cells, Nanomedicine and Biotechnology 2017; 1–14 (I.F, 5.67, Q1)*.
65. Shao M, **Zahid Hussain***, Shahzeb Khan, Marcel de Matas, Victoria Silkstone, Syed Nasir Abbas Bukhari, Hnin Ei Thu. Emerging trends in therapeutic algorithm of chronic wound healers: Recent advances in drug delivery systems, concepts-to-clinical application, and future prospects. *Critical Reviews in Therapeutic Drug Carrier Systems 2017; 34(5): 387-452 (I.F = 4.88, Q1)*.
66. Fahad Hussain, Arif Malik, **Zahid Hussain***. Phytopharmacological potential of different species of *Morus alba* and their Bioactive Phytochemicals: A review. *Asian Pacific Journal of Tropical Biomedicine 2017; 7(10): 950–956 (I.F = 1.54, Q1)*.
67. **Zahid Hussain**, Haliza Katas, Set Li Yan, Diyanadalila Jamaludin. Efficient colonic delivery of DsiRNA by pectin-coated polyelectrolyte complex nanoparticles: Preparation, characterization and improved gastric survivability. *Current Drug Delivery 2017; 14(7): 1016–1027 (I.F = 2.56, Q2)*.

68. Fahad Hussain, Arif Malik, Ujala Ayyaz, Hassan Shafique, Zohaib Rana, **Zahid Hussain***. Efficient hepatoprotective activity of cranberry extract against CCl₄-induced hepatotoxicity in Wistar Albino rat model: Down-regulation of liver enzymes and strong antioxidant activity. *Asian Pacific Journal of Tropical Medicine* 2017; 10(11): 1054–1058 (I.F = 1.22, Q1).
69. Shahzeb Khan, Abdul Sadiq, Haroon Rahim, Mir Azam Khan, Syed Muhammad Hassan Shah, **Zahid Hussain**. Aceclofenac nanocrystals with enhanced in vitro, in vivo performance: formulation optimization, Characterization, analgesic and acute toxicity studies. *Drug Design, Development and Therapy* 2017; 11: 2443–2452. (I.F = 4.16, Q1).
70. Ali, Hany S. M.; Khan, Shahzeb; York, Peter; Shah, Syed Mukarram; Khan, Jahangir; **Hussain, Zahid**; Khan, Barkat Ali. A Stable Hydrocortisone Nanosuspension for Improved Dissolution: Preparation, Characterization and In Vitro Evaluation. *Pakistan journal of pharmaceutical sciences* 2017; 30(5): 1635–1643 (I.F = 0.68, Q3)
71. Hnin Ei Thu, **Zahid Hussain**, Isa Naina Mohamed, Ahmad Nazrun Shuid*. Dihydrotestosterone, a Robust Promoter of Osteoblastic Proliferation and Differentiation: Understanding of Time-Mannered and Dose-Dependent Control of Bone Forming Cells. *Iranian Journal of Basic Medical Sciences* 2017; 20: 894–904 (I.F = 2.70, Q2).
72. Hnin Ei Thu, **Zahid Hussain**, Isa Naina Mohamed, Ahmad Nazrun Shuid*. Dihydrotestosterone Downregulates Bone Resorption Activity of Osteoclasts in Dose-Dependent Manner: An in Vitro Model Using Raw 264.7 Cells. *International Journal of Pharmacy and Pharmaceutical Sciences* 2017; 9(5): 60-67 (Q3).
73. Hnin Ei Thu, Isa Naina Mohamed, **Zahid Hussain**, Ahmad Nazrun Shuid. Eurycoma Longifolia as a potential alternative to testosterone for the treatment of osteoporosis: Exploring time-mannered proliferative, differentiative and morphogenic modulation in osteoblasts. *Journal of Ethnopharmacology* 2017; 195: 143–158 (I.F = 4.36, Q2).
74. Muhammad Hassan Safdar, Humna Hasan, Mariam Anees, **Zahid Hussain***. Folic Acid-conjugated Doxorubicin-loaded Photosensitizing Manganese Ferrite Nanoparticles: Synthesis, Characterization and Anticancer Activity Against Human Cervical Carcinoma Cell Line (Hela). *International Journal of Pharmacy and Pharmaceutical Sciences* 2017; 9 (5): 60–67 (Q3).

75. Hnin Ei Thu, Isa Naina Mohammad, **Zahid Hussain**, Ahmad Nazrun Shuid. Eurycoma Longifolia as a Potential Adoptogen of Male Sexual Health: A Systematic Review on Human Clinical Studies. *Chinese journal of Natural Medicines* 2017; 15 (1): 71–80 (**I.F = 3.01, Q1**).
76. Hua-Li Qin · Jing Leng · Bahaa G. M. Youssif, Muhammad Wahab, Maria Raja, **Zahid Hussain**, Syed Nasir Abbas Bukhari. Synthesis and mechanistic studies of curcumin analogs based oximes as potential anticancer agents. *Chemical Biology & Drug Design* (**I.F = 2.82, Q2**).
77. Haliza Katas, Chai Yi Wen, Muhammad Irfan Siddique, **Zahid Hussain** & Fatin Hanini Mohd Fadhil. Thermo-responsive curcumin/DsiRNA nanoparticle gels for the treatment of diabetic wounds: Synthesis and drug release. *Therapeutic delivery* 8(3):137–150, 2017 (**Q2**).

Publications – 2016

78. Mei Shao, **Zahid Hussain***, Hnin Ei Thu, Shahzeb Khan, Haliza Katas, Tarek A Ahmed, Minaketan Tripathy, Jing Leng, Hua-Li Qin, Syed Nasir Abbas Bukhari. Drug Nanocarriers, the Future of Atopic Diseases: Advanced Drug Delivery Systems and Smart Management of Disease. *Colloids and Surfaces B: Biointerfaces* 2016; 147: 475–491 (**I.F = 5.27, Q1**).
79. **Zahid Hussain***, Hnin Ei Thu, Shariza sahudin, Syed Nasir Abbas Bukhari, Endang Kumulosasi. Recent advances in pharmacotherapeutic paradigm of mild-to-recalcitrant atopic dermatitis. *Critical Reviews in Therapeutic Drug Carrier Systems* 2016; 33(3): 213-263 (**I.F = 4.88, Q2**).
80. Hnin Ei Thu, **Zahid Hussain**, Ahmad Nazrun Shuid*. New insight in improving therapeutic efficacy of antipsychotic agents: An overview of improved in vitro and in vivo performance, efficacy upgradation and future prospects. *Current Drug Targets* (**I.F = 3.46, Q2**).
81. Syed Muhammad Hassan Shah, Farhat Ullah, Shahzeb Khan, Syed Muhammad Mukarram Shah, Marcel de Matas, **Zahid Hussain**, Muhammad Usman Minhas, Naser M AbdEl-Salam, Khaled Hafez Assi, Mohammad Isreb. Smart nanocrystals of artemether: fabrication, characterization, and comparative in vitro and in vivo antimalarial evaluation. *Drug Design, Development and Therapy*, 2016: 10, 3837–3850 (**I.F = 4.16, Q1**).

82. Hnin Ei Thu, Isa Naina Mohamed, **Zahid Hussain**, Norazlina Mohamed, Ahmad Nazrun Shuid. *Eurycoma Longifolia*, a Malaysian Medicinal Herb, Significantly Upregulate Proliferation and Differentiation in Pre-osteoblasts (MC3T3-E1): An In Vitro Model. *International Journal of Pharmacy and Pharmaceutical Sciences* 2016; 8 (11): 199-204 (Q3).
83. Shahzeb Khan, Waqar Ali, Nisar Ur Rahman, Syed Muhammad Mukarram Shah, **Zahid Hussain***. Self-assembled biodegradable polymeric nanoparticles with improved solubility of Carvedilol: Preparation, characterisation and in vitro release kinetics. *International Journal of Pharmaceutical Sciences and Research* 2016, 7(10): 3971-85 (Scopus index).
84. Gao-Feng Zha, Cheng-Pan Zhang, Hua-Li Qin, Ibrahim Jantan, Muhammad Sher, Muhammad Wahab Amjad, Muhammad Ajaz Hussain, **Zahid Hussain**, Syed Nasir Abbas Bukhari. (2016). Biological evaluation of synthetic α , β -unsaturated carbonyl based cyclohexanone derivatives as neuroprotective novel inhibitors of acetylcholinesterase, butyrylcholinesterase and amyloid- β aggregation. *Bioorganic & medicinal chemistry*, 2016, 24; 2352–2359. (I.F = 3.46, Q1).
85. **Zahid Hussain**, Shariza sahudin. (2016). Preparation, characterisation and colloidal stability of chitosan-tripolyphosphat nanoparticles: optimisation of formulation and process parameters, *International Journal of Pharmacy and Pharmaceutical Sciences* 2016, 8 (3), 297-308 (Q3).

Publications – 2014

86. **Zahid Hussain**, Haliza Katas, Mohd Cairul Iqbal Mohd Amin, Endang Kumulosasi, Shariza Sahudin. (2014). Downregulation of immunological mediators in 2,4-dinitrofluorobenzene-induced atopic dermatitis-like skin lesions by hydrocortisone nanoparticles. *International Journal of Nanomedicine* 2014; 9(1): 5143-5156 (I.F = 6.40, Q1).
87. **Zahid Hussain**, Haliza Katas, Mohd Cairul Iqbal Mohd Amin, Endang Kumulosasi. (2014). Efficient Immuno-Modulation of T_{H1}/T_{H2} Biomarkers in 2,4-Dinitrofluorobenzene-Induced Atopic Dermatitis: Nanocarrier-Mediated Transcutaneous Co-Delivery of Anti-Inflammatory and Antioxidant Drugs. *PLOS ONE* 2014, 9(11): e113-e143 (I.F = 3.24, Q1).

Publications – 2013

88. **Zahid Hussain**, Katas, H., Amin, MCIM., Kumolosasi, E., Buang, F., Sahudin, S. (2013). Self-assembled polymeric nanoparticles for percutaneous co-delivery of hydrocortisone/hydroxytyrosol: An ex-vivo and in-vivo study using an NC/Nga mouse model, *International Journal of Pharmaceutics* 2013; 444 (1-2): 109-119. **(I.F = 5.87, Q1)**.
89. **Zahid Hussain**, Katas, H., Amin, MCIM., Kumolosasi, E., Sahudin, S (2013). Antidermatitic Perspective of Hydrocortisone as Chitosan Nanocarriers: An Ex Vivo and In Vivo Assessment Using an NC/Nga Mouse Model, *Journal of Pharmaceutical Sciences* 2013; 102 (3): 1063-1075. **(I.F = 3.52, Q1)**.
90. Haliza Katas*, **Zahid Hussain**, and Siti Asarida Awang (2013). Bovine Serum Albumin-Loaded Chitosan/Dextran Nanoparticles: Preparation and Evaluation of Ex Vivo Colloidal Stability in Serum. *Journal of Nanomaterials* 2013 (2013), 536291 **(I.F = 2.98, Q2)**.
91. Katas, Haliza*, **Hussain, Zahid**, Rahman, Suraiya A (2013). Storage Stabilisation of Albumin-Loaded Chitosan Nanoparticles by Lyoprotectants, *Tropical Journal of Pharmaceutical Research*, 12 (2), p135. **(I.F = 0.53, Q2)**.

Publications – 2012

92. Haliza Katas, **Zahid Hussain**, and Tay Chai Ling. Chitosan Nanoparticles as a Percutaneous Drug Delivery System for Hydrocortisone. *Journal of Nanomaterials* 2012 (2012): 372725 **(I.F = 2.98, Q2)**.

Research proceedings (National/international)

1. **Zahid Hussain***, Shariza Sahudin. (2016). Preparation, characterisation and colloidal stability of chitosan-tripolyphosphate nanoparticles: optimisation of formulation and process parameters – International Journal of Pharmacy and Pharmaceutical Sciences, Vol 8, Issue 2, 2016.

Conference paper/Abstract (National/International)

1. **Zahid Hussain**, Shariza Sahudin. Hyaluronic acid decorated tacrolimus-encapsulated nanoparticles: development, characterization and in vitro release: *The 2nd International Conference on Pharmacy Education and Research Network of Asean (Asean Pharmnet 2017), November 2017.*

2. **Zahid Hussain**, Shariza Sahudin. Preparation, characterisation and colloidal stability of chitosan-tripolyphosphate nanoparticles: Optimisation of formulation and process parameters. Abstract for Poster Presentation, *The 4th International Conference on Pharmaceuticals, Nutraceuticals, and Cosmetic Sciences (IPNaCS), 2015*. Pg. 123.
3. Hnin Ei Thu, Shioh-Fern Ng and **Zahid Hussain**. Ex-vivo and In-vivo assessment of novel ibuprofen-incorporated alginate-based hydrocolloid film dressing for exudative wound management. *2nd International Conference on Advanced Medical Search (ICAMS 2015). P51 (Suppl. 1)*.
4. **Zahid Hussain**, Haliza Katas, Mohd Cairul Iqbal Mohd Amin & Shariza Sahudin. 2012. Chitosan Nanoparticles for Percutaneous Co-delivery of Hydroxytyrosol/Hydrocortisone and its In-vivo Evaluation Using NC/Nga Mouse Model. Abstract for Oral Presentation, *PharmaTech 2012*. Pg. 109.
5. **Zahid Hussain**, Haliza Katas & Shariza Sahudin. 2011. Synthesis and Characterization of Chitosan Nanoparticles Incorporated with Hydroxytyrosol/Hydrocortisone for The Treatment of Atopic dermatitis. Abstract for Poster Presentation, *The 7th Indochina Pharmaceutical Sciences Conference 2011*. Pg. 287.

Workshops/Seminars (National/international)

1. Workshop on “Books publishing with Springer Nature” at women library, University of Sharjah, U.A.E, on 17 Feb 2020.
2. Workshop on “JOVE Event” at College of Health Sciences (M23-036), University of Sharjah, U.A.E, on 24-25 Feb 2020.
3. Workshop during Innovation month in Sharjah on “The Future of everything is AI” University of Sharjah, U.A.E, on 12 Feb 2020.
4. Summit on “Branding Pharmacy via Education”, College of Pharmacy, University of Sharjah, U.A.E, on 27 Sep 2019.
5. Workshop during Innovation month in Sharjah on “How to protect and commercialize your invention?” University of Sharjah, U.A.E, on 12 Feb 2020.
6. Seminar on Scientific Writing “How To Write an Original Research Article” Faculty of Medicine, Universiti Kebangsaan Malaysia, Malaysia, 17th May 2016.
7. Workshop and Seminar on “5th Workshop on Animal Handling and Use” Faculty of Pharmacy, Universiti Teknologi Mara, Malaysia, on 28th & 29th March 2016.

8. Workshop and Hands on Session “Laboratory Animal Facility and Management (LAFAM)” Faculty of Pharmacy, Universiti Teknologi Mara, Malaysia, 2nd & 3rd March 2016.
9. Workshop on “How to generate Problem Based Learning triggers and to coordinate an effective PBL session” Faculty of Pharmacy, Universiti Teknologi Mara, Malaysia, on 25th & 26th Feb 2016.
10. Workshop on “How To Write A Paper for Successful Publication in Q1 Journal” Faculty of Pharmacy, Universiti Kebangsaan Malaysia (UKM), 2015.
11. Workshop on “Research Methodology and Experimental Design” Universiti Kebangsaan Malaysia, Malaysia, 2014.
12. Workshop on “Procarta Immunoassay Reagent System Luminex Assay” i-DNA Biotechnology Sdn. Bhd. Malaysia, 2013.
13. Workshop on “Procarta Immunoassay Reagent System Luminex Assay” i-DNA Biotechnology Sdn. Bhd. Malaysia, 2013.
14. Workshop on “How to Write a Scientific Manuscript for High Impact Factor Journal” Universiti Kebangsaan Malaysia, Malaysia, 2011.
15. Workshop on “Practice of Clinical Pharmacy-The Art and Science” University of Sargodha, Pakistan, 2008.

INVITED SPEAKER

1. 18 Annual Pharma Middle East Congress. Talk title: Hyaluronic acid decorated tacrolimus-loaded nanoparticles: Efficient approach to maximize dermal targeting and anti-dermatitis efficacy. Held in November 05–07 2018, Abu Dhabi, UAE.

Conferences (National/international)

1. The 2nd International Conference on Pharmacy Education and Research Network of Asean (ASEAN PHARMNET 2017), attended as poster presenter, 2017.
2. 5th International Postgraduate Conference on Pharmaceutical Sciences, Faculty of Pharmacy, Universiti Teknologi MARA, attended as participant, 2017.
3. 2nd International Conference on Advanced Medical Search (ICAMS), 2015.
4. Pharmaceutical Sciences Research day, Faculty of Pharmacy, Universiti Kebangsaan Malaysia (UKM), attended as Participant, 2015.
5. Pharmaceutical Sciences Research day, Faculty of Pharmacy, Universiti Kebangsaan Malaysia (UKM), attended as Oral Presenter, 2014.
6. Pharmaceutical Sciences Research day, Faculty of Pharmacy, Universiti Kebangsaan Malaysia (UKM), attended as Oral Presenter, 2012.
7. PharmaTech, International Conference and Exhibition on Pharmaceutical, Nutraceutical and Cosmeceutical Technology, attended as Oral Presenter, 2012.

8. Pharmaceutical Sciences Research day, Faculty of Pharmacy, Universiti Kebangsaan Malaysia (UKM), attended as Poster Presenter, 2011.
9. The 7th Indochina Conference on Pharmaceutical Sciences, attended as Poster Presenter, 2011.

AWARDS AND RECOGNITIONS

1. Featured among Top 2% Scientists in the World based on Scopus Citation Index published by Standford University USA in 2020.
2. Outstanding Scientists Award 2020 in 9th International Scientist Awards on Engineering, Science, and Medicine, VDGGOOD Technology Factory, Trichy, India – 12 & 13 September 2020 (Profile ID: VDSA2898).
3. Three (3) of my articles featured as the “Top Most Cited Articles” published in Drug Delivery Science and Technology (impact factor 4.62, Q1).
4. Gold Medal Award, Invention, Innovation, and Drug Exposition (IIDEX 2018), Universiti Teknologi MARA (UiTM), Malaysia.
5. Gold Medal Award, Invention, Innovation, and Drug Exposition (PHARMA-IIDEX 2018), Faculty of Pharmacy, Universiti Teknologi MARA (UiTM), Malaysia.
6. Bronz Medal Award, Invention, Innovation, and Drug Exposition (IIDEX 2017), Universiti Teknologi MARA (UiTM), Malaysia.
7. Excellence Award 2016, in recognition of excellent academic and research achievements, Faculty of Pharmacy, Universiti Teknologi MARA, Puncak Alam Campus, Bandar Puncak Alam, Malaysia.
8. Best Lecturer Award 2016, Department of Pharmaceutics, Faculty of Pharmacy, Universiti Teknologi MARA, Puncak Alam Campus, Bandar Puncak Alam, Malaysia
9. Best Poster Presentation award on 2nd International Conference of Advanced Medical Search (ICAMS) 2015, Concorde Hotel, Malaysia.
10. Research Fellowship award “The Research Universiti Malaysia Fellowship Scheme 2012” (Sep 2012 to June 2013), Universiti Kebangsaan Malaysia, Malaysia.
11. Graduate Research Assistantship award (Feb 2011 to Aug 2012), Universiti Kebangsaan Malaysia, Malaysia.
12. Best Poster Presentation award, Research Day 2011, Faculty of Pharmacy, Universiti Kebangsaan Malaysia, Malaysia.

CONSULTANCY

1. Research consultancy and advisory for Shanghai Belt and road initiative International cooperation project in China. Shanghai Pudong Hospital, Fudan University, Pudong Medical Center, China (01/08/2019 – 30/09/2020).

EXTERNAL EXAMINER (PhD THESIS EVALUATION)

1. Implications of physiological and biochemical variables of prognostic importance in lead exposed subjects - The University of Lahore, Pakistan – 2017.
2. Development and characterisation of highly porous carbon based poultry feed detoxifier to ameliorate the toxic effects of ochratoxin A in Gallus Gallus Domesticus –University of Peshawar, Pakistan – 2017.

EDITORIAL BOARD MEMBER

- Associate Editor – Frontiers in Pharmacology: Experimental Pharmacology and Drug Discovery (<https://www.frontiersin.org/my-frontiers/overview>).
- Editorial Board Member – International Journal of Pharmacy and Pharmaceutical Sciences (IJPPS) (<https://innovareacademics.in/journals/index.php/ijpps/editorial-board>).
- Editorial Board Member – INNOSC Theranostics and Pharmacological Sciences. (<http://journals.innosciencespress.com/index.php/ITPS/about/editorialTeam>).

MEMBERSHIP IN PROFESSIONAL ORGANISATIONS

- Member “Drug Delivery” Research Group, RIHMS, Department of Pharmaceutics, College of Pharmacy, University of Sharjah.
- Member of Pakistan Pharmaceutical Association (MPPA), Pakistan, 2008 – To date.
- Member (MyCRS00100) of “The Malaysia Local Chapter of The Controlled Release Society” March 2017 – March 2018.
- Senior Advisor of “Initiator Pharmacist Federation (IPF)” – Malaysia Chapter, Pakistan, JAN 2015 – To date.

PEER REVIEWER OF JOURNALS (INTERNATIONAL)

- Biomaterials (Impact Factor, 13.8 – 2019).
- Trends in Food Science and Technology (Impact Factor, 11.08 – 2019).
- Materials Science & Engineering C (Impact Factor, 5.88 – 2019).
- International Journal of Nanomedicine (Impact Factor, 5.11 – 2019).
- International Journal of Pharmaceutics (Impact Factor, 4.84 – 2019).
- Expert Opinion on Drug Delivery (Impact Factor, 4.83 – 2019).
- European Journal of Pharmaceutics and Biopharmaceutics (Impact Factor, 4.63 – 2019).
- Asian Journal of Pharmaceutical Sciences (Impact Factor, 3.96 – 2019).

- Journal of Biomedical Material Research (Impact Factor, 3.52 – 2019).
- Drug Design Development and Therapy (Impact Factor, 3.22 – 2019).
- AAPS PharmSci Tech (Impact Factor, 2.42 – 2019).
- Journal of Nanoparticle Research (Impact Factor, 2.13 – 2019).
- Therapeutics and Clinical Risk Management (Impact Factor, 1.88 – 2019).
- Clinical Cosmetic and Investigative Dermatology (Impact Factor, 1.9 – 2019).

I hereby declare that all the information/facts mentioned above are true to the best of my knowledge and belief.

Best regards,

Dr. Zahid Hussain

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