

## ADEEL MASOOD BUTT

Institute of Pharmaceutical Sciences, University of Veterinary and Animal Sciences, Lahore,  
Pakistan

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### RESEARCH INTERESTS

Drug and gene delivery, design and synthesis of biomaterials, RNAi, anticancer drug delivery across the blood-brain barrier, strategies to overcome multidrug resistance, and to uncover the underlying mechanisms and genetic changes involved in cancers.

### EDUCATION

- 2015                    **PhD** (Pharmacy), Universiti Kebangsaan Malaysia, Malaysia  
Thesis: Pluronic F127-TPGS-Chitosan Micelles Functionalized with Folic Acid for the Targeted Co-Delivery of siRNA and Doxorubicin
- 2011                    **Pharm-D**, University of Sargodha, Pakistan

### AWARDS AND HONORS

- |      |   |
|------|---|
| 2019 | Best Teacher Award<br>The University of Lahore - Gujrat Campus, Gujrat, Pakistan                              |
| 2018 | Best Teacher Award<br>The University of Lahore - Gujrat Campus, Gujrat, Pakistan                              |
| 2014 | Best Presenter Award<br>Controlled Release and Drug Delivery Symposium (CRDDS 2014)<br>Kuala Lumpur, Malaysia |
| 2012 | Best Presenter Award<br>UKM Faculty of Pharmacy Research Day, Kuala Lumpur, Malaysia                          |

### GRANTS/FELLOWSHIPS

#### Fellowships

- 2012-2014            Zamalah Fellowship  
Universiti Kebangsaan Malaysia

#### Travel Grants

- 2018                    Travel grant from Higher Education Commission (HEC) for attending The 1<sup>st</sup> International Conference on Pharmacy Science and Practice. December 6-7, Pekanbaru, Indonesia.
- 2018                    Travel grant from The University of Lahore for attending the 3<sup>rd</sup> International Health Trigon Summit. April 17-18, Lahore, Pakistan.

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- 2013 Travel grant from Universiti Kebangsaan Malaysia for attending The 8<sup>th</sup> Pharma Indochina Conference on Pharmaceutical Sciences. December 4-5, Ho Chi Minh City, Vietnam.
- 2011 Travel grant from Universiti Kebangsaan Malaysia for attending 7<sup>th</sup> Pharma Indo-China Conference on Pharmaceutical Sciences. December 14-16, Bangkok, Thailand.

### PUBLICATIONS

- 2019 Xiyang Yi Chen, **Adeel Masood Butt**, and Mohd Cairul Iqbal Mohd Amin. Enhanced paracellular delivery of vaccine by hydrogel microparticles-mediated reversible tight junction opening for effective oral immunization. *Journal of Controlled Release*. 311-312: 50-64.
- 2019 Xiyang Yi Chen, **Adeel Masood Butt**, and Mohd Cairul Iqbal Mohd Amin. Molecular evaluation of oral immunogenicity of hepatitis B antigen delivered by hydrogel microparticles. *Molecular Pharmaceutics*. 16: 3853-3872.
- 2017 Mohd Cairul Iqbal Mohd Amin, **Adeel Masood Butt**, Muhammad Wahab Amjad and Prashant Kesharwani. Polymeric micelle in targeting and delivery of drugs. In: Nanotechnology-based approaches for targeting and delivery of drugs and genes. *Elsevier (Academic Press)*. Cambridge, Massachusetts.
- 2016 Ng Khen Eng, Mohd Cairul Iqbal Mohd Amin, Haliza Katas, Muhammad Wahab Amjad, **Adeel Masood Butt**, Arun K Iyer and Prashant Kesharwani. pH-responsive triblock copolymeric micelles decorated with a cell-penetrating peptide for efficient doxorubicin delivery. *Nanoscale Research Letters*. 11: 539.
- 2016 **Adeel Masood Butt**, Mohd Cairul Iqbal Mohd Amin, Haliza Katas, Rahman Jamal, Nor Azian Abdul Murad and Prashant Kesharwani. Doxorubicin and siRNA co-delivery via pH-responsive mixed micellar polyplexes provide enhanced cancer therapy in multidrug-resistant tumors. *Molecular Pharmaceutics*. 13: 4179-4190.
- 2015 Muhammad Wahab Amjad, Mohd Cairul Iqbal Mohd Amin, Haliza Katas, **Adeel Masood Butt**, Prashant Kesharwani and Arun K Iyer. The in vivo antitumor activity of folate-conjugated cholic acid-polyethylenimine micelles for the co-delivery of doxorubicin and siRNA to colorectal adenocarcinomas. *Molecular Pharmaceutics*. 12: 4247-4258.
- 2015 **Adeel Masood Butt**, Mohd Cairul Iqbal Mohd Amin and Haliza Katas. Synergistic effect of pH-responsive folate-functionalized poloxamer 407-TPGS-mixed micelles on targeted delivery of anticancer drugs. *International Journal of Nanomedicine*. 10: 1321-1334.
- 2012 **Adeel Masood Butt**, Mohd Cairul Iqbal Mohd Amin, Haliza Katas, Narong

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Sarisuta, Wasu Witoonsaridsilp, and Ruthairat Benjakul. In vitro characterization of pluronic F127 and D- $\alpha$ -tocopheryl polyethylene glycol 1000 succinate mixed micelles as nanocarriers for targeted anticancer-drug delivery. *Journal of Nanomaterials*. DOI: 10.1155/2012/916573.

- 2012 Muhammad Wahab Amjad, Mohd Cairul Iqbal Mohd Amin, Haliza Katas and **Adeel Masood Butt**. Doxorubicin-loaded cholic acid-polyethyleneimine micelles for targeted delivery of antitumor drugs: synthesis, characterization, and evaluation of their in vitro cytotoxicity. *Nanoscale Research Letters*. 7: 687.

### PRESENTATIONS

#### Invited Talks

- 2018 A multipronged approach for anticancer drug delivery to tumours: challenges and opportunities. *1<sup>st</sup> International Conference on Pharmacy Science and Practice*. December 6-7, Indonesia.

#### Papers Presented

- 2020 Pharmacy education in Pakistan: 1.0. *2<sup>nd</sup> International Pharmacy Conference and Exhibition*. February 20-21, Bahawalpur, Pakistan. (Oral)
- 2018 Co-delivery of siRNA and Doxorubicin for enhanced efficacy against MDR tumors. *1<sup>st</sup> CRS Asia Meeting*. September 24-25, Singapore. (Poster)
- 2018 A nano drug delivery system for overcoming resistance in cancer cells. *3<sup>rd</sup> International Health Trigon Summit*. April 17-18, Lahore, Pakistan. (Oral)
- 2017 Polymeric micelle-based nano-drug delivery system for overcoming resistance in cancer cells. *7<sup>th</sup> Asian Conference on Colloid and Interface Science*. August 8-11, Kuala Lumpur, Malaysia. (Oral)
- 2017 Targeted doxorubicin delivery via chitosan-pluronic micelles functionalized with folic acid. *Current Research in Chemical & Pharmaceutical Sciences*. January 18-20, Lahore, Pakistan. (Poster)
- 2015 Folate conjugated chitosan coated Pluronic F127-TPGS mixed micelles for the co-delivery of siRNA and doxorubicin. *Controlled Release and Drug Delivery Symposium (CRDDS) 2015*. August 15-16, Kuala Lumpur, Malaysia. (Oral)
- 2014 Chitosan-Pluronic F127 micelles for doxorubicin delivery. *The 3rd Current Drug Development International Conference (CDD 2014)*. May 1-3, Krabi, Thailand. (Oral)

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- 2014 Folate receptor targeted chitosan-Pluronic f127-folic acid micelles for doxorubicin delivery. Controlled Release and Drug Delivery Symposium (CRDDS) 2014. August 23-24, Kuala Lumpur, Malaysia. (Poster)
- 2013 Folate functionalized polymeric micelles for on-target delivery of doxorubicin reduce multi drug resistance in human colorectal adenocarcinoma (DLD-1) cells. The 8<sup>th</sup> Pharma Indochina Conference on Pharmaceutical Sciences. December 4-5, Ho Chi Minh City, Vietnam. (Oral)
- 2011 Nano weapons against Cancer: Development and characterization of polymeric micelles for the targeted delivery of anticancer drugs. 7<sup>th</sup> Pharma Indo-China Conference on Pharmaceutical Sciences. December 14-16, Bangkok, Thailand. (Oral)

### TEACHING

- 2019/20 Pharmacogony  
2019/20 Pharmaceutical Dosage Forms and Community Pharmacy  
2018/19 Pharmaceutical Dosage Forms and Dispensing Pharmacy  
2017/18 Pharmaceutical Dosage Forms (Dosage Forms Science)  
2017 Physical Pharmacy

### PROFESSIONAL REGISTRATION AND LICENSE

- 2011-Present Registered Pharmacist (Registration No: 7126-A/11)  
Punjab Pharmacy Council, Lahore, Pakistan

### PROFESSIONAL & RESEARCH EXPERIENCE

- 2020-Present Assistant Professor, Institute of Pharmaceutical Sciences  
University of Veterinary and Animal Sciences, Lahore, Pakistan
- 2016-2020 Assistant Professor, Department of Pharmacy  
The University of Lahore - Gujrat Campus, Gujrat, Pakistan
- 2011-2015 Graduate Research Assistant, Faculty of Pharmacy  
Universiti Kebangsaan Malaysia, Kuala Lumpur, Malaysia

### Departmental/University Service

Secretary (2017-2020)  
Board of Studies  
Department of Pharmacy, The University of Lahore - Gujrat Campus, Gujrat, Pakistan

Coordinator (2018-2020)  
Time Tabling, Quality Enhancement Cell & Department Discipline Committee  
Department of Pharmacy, The University of Lahore - Gujrat Campus, Gujrat, Pakistan

# ADEEL MASOOD BUTT

Member

Campus Disciplinary Committee (2017-2020)

University of Lahore - Gujrat Campus, Gujrat, Pakistan

Member Organizing Committee & Co-Chair (2016)

2<sup>nd</sup> International Multi-Disciplinary Conference 2016 (IMDC 2016)

Session Chair

1<sup>st</sup> MyCRS Scientific Conference (2015)

Kuala Lumpur, Malaysia

Member

Publicity committee (2015)

Controlled Release and Drug Delivery Symposium (CRDDS 2015)

Member

Publicity committee (2014)

Pharmaceutical Sciences Research Day, UKM

Member

Protocol committee (2012)

Faculty of Pharmacy Research Day, UKM

## EXTRACURRICULAR ACTIVITIES

2011-2015

Member Postgraduate Society

Persatuan Siswazah Fakulti Farmasi (PSFFar)

2012-2013

Vice President Postgraduate Society

Persatuan Siswazah Fakulti Farmasi (PSFFar)

## LANGUAGES

English: Fluent, Urdu: Native, Malay: Beginner

## PROFESSIONAL MEMBERSHIPS

**2014-2017**

Malaysian Controlled Release Society (MyCRS)