# **Muhammad Irfan Siddique**

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# **Objective:**

To pursue a challenging career in an esteemed and vibrant organization, that would utilize my potential and experience to a maximum extent while providing me opportunities of growth and professional excellence.

# **Academic Qualification:**

PhD Pharmaceutics

University of Kebangsaan Malaysia (Malaysia)

PhD Research Project

PRE-CLINICAL SAFETY EVALUATION, SCALING UP AND HUMAN CLINICAL SAFETY AND EFFICACY OF CO-LOADED HYDROCORTISONE-HYDROXYTYROSOL CHITOSAN NANOPARTICLES FOR THE TREATMENT OF ATOPIC DERMATITIS

• **M.Sc. Pharmaceutical Sciences** University of Greenwich (UK)

#### **Modules Studied:**

Pharmaceutical Analysis & Testing Microbiology and Introduction to Biotechnology Medicinal Chemistry & Therapeutics Pharmaceutical Product Development Manufacture & Control Ethical, Professional and Legal Issues

#### M.Sc. Research Project

EXPERIMENTAL AND THEORETICAL STUDIES OF  $\delta$ -VALEROLACTAM USING RAMAN and FTIR SPECTROSCOPY

## **Co-Curricular Workshops and Practice**

Attended special GC, LCMS, NIR, RAMAN, UV, X-RAY DEFRACTION & NMR workshops & Labs at University of Greenwich

**Training course** 

Attended HPLC two day training course from JHON STUART ACADEMY UK and got certificate upon its successful completion.

## • Pharm-D (Doctor of Pharmacy)

Baqai Medical University, Pakistan (Karachi) CGPA – 3.23 2004-2009

# **Professional Experience:**

Organization:	Institute of Pharmaceutical sciences, UVAS Lahore
Designation:	Assistant professor
Location:	Lahore, Pakistan
Tenure:	(August-2017 till now)
Organization:	Akhtar Saeed College of Pharmaceutical Sciences
Designation:	Assistant professor
Location:	Lahore, Pakistan
Tenure:	(Oct-2016 to August 2017)



2010-2011

2014-2017

Organization:	Lahore College of Pharmaceutical Sciences
Designation:	Senior Lecturer
Location:	Lahore, Pakistan
Tenure:	(Jan-2012 to Feb-2014)
Organization:	Kolak Snack foods ltd.
Designation:	Laboratory Analyst
Location:	London, UK
Tenure:	6-months (April-2011 to Oct-2011)
Organization:	Kasmani Pharmacy, Hayes
Designation:	Pharmacy Technician
Location:	London
Tenure:	1-Year (Nov-2009 to Nov-2010)

## Post-Graduate Students Supervisor

M. Phil Produced (06) M. Phil In progress (11) **Research Group Patent:** 

- Nanoparticle Loaded Biodegradable Film for Diabetic Wound Healing.( Under review)
- Chitosan-based Skin Targeted Nanoparticles Drug Delivery System and Method, PCT No. PCT/MY/2014/000262. Malaysian Patent No. PI 2013004157.

## **Research Publications:**

- 1. Qurrat-ul-ain Khan, **Muhammad Irfan Siddique**\*, Fatima Rasool, Muhammad Naeem, Muhammad Usman & Muhammad Zaman Development and characterization of orodispersible film containing cefixime trihydrate. *Drug Development and Industrial Pharmacy*, **I.F. 2.365**
- Ahmad Z, Khan MI, Siddique MI, Sarwar HS, Shahnaz G, Hussain SZ, Bukhari NI, Hussain I, Sohail MF. Fabrication and Characterization of Thiolated Chitosan Microneedle Patch for Transdermal Delivery of Tacrolimus. AAPS PharmSciTech. 2020 Feb;21(2):1-2. AAPS PharmSci Tech. I.F 2.401.
- **3.** Wardah Ashfaq, Khurram Rehman, **Muhammad Irfan Siddique** & Qurrat-Al-Ain Khan. Eicosapentaenoic Acid and Docosahexaenoic Acid from Fish Oil and Their Role in Cancer Research. *Food review international*. **I.F. 4.113**.
- 4. Siddique MI, Saima Tufail, Ze Heng Ker, Tahir Mehmood Khan, Fatima Rasool, Muhammad Farhan Sohail and Nabeel Shahid. Towards fast and cost-effective up-scaling of Nano-encapsulations by Ionic-gelation method using model drug for the treatment of atopic dermatitis. *PJPS* I.F. 0.562.
- 5. Muhammad Ijaz Riaz, Hafiz Shoaib Sarwar, Mubashir Rehman, Umar Farooq Gohar, Syed Atif Raza, **Muhammad Irfan Siddique**, Gul Shahnaz, Muhammad Farhan Sohail. Study of erythrocytes as a novel drug carrier for the delivery of artemether. *BJPS* **I.F. 0.814**.
- 6. Siddique MI, Katas H, Amin MC, Ng SF, Zulfakar MH, Buang F, Jamil A, Syed Maaz Nadeem. Potential treatment of atopic dermatitis: tolerability and safety of cream containing nanoparticles loaded with hydrocortisone and hydroxytyrosol in human subjects. *Drug Delivery and Translational Research*, I.F. 2.664.
- 7. Siddique MI, Nabeel shahida, Zunera Razzaqa, Haliza Katasb, Muhammad khurram waqasa, Kashif-ur-Rahmana. Fabrication and characterization of Matrix Type Transdermal Patches Loaded with Tizanidine Hydrochloride: Potential Sustained Release Delivery System. *Drug Development and Industrial Pharmacy*, I.F. 2.365

- 8. Siddique MI, Haliza Katas, Chai Yi Wen, Zahid Hussain, and Fatin Hanini Mohd Fadhil. Thermoresponsive curcumin/DsiRNA nanoparticle gels for the treatment of diabetic wounds: synthesis and drug release **Therapeutic Delivery**, March 2017, Vol. 8, No. 3, Pages 137-150 (doi: 10.4155/tde-2016-0075).
- **9.** Siddique MI, Katas H, Amin MC, Ng SF, Zulfakar MH, Buang F, Jamil A. Preclinical Safety Evaluation of Hydrocortisone-hydroxytyrosol Co-loaded Chitosan Nanoparticles Cream in Albino Wistar Rats. *Proceedings of pharmaceutical sciences research day* 2015. 2015:102.
- 10. Siddique MI, Katas H, Amin IM, Cairul M, Ng SF, Zulfakar MH, Buang F, Jamil A. Minimization of Local and Systemic Adverse Effects of Topical Glucocorticoids by Nanoencapsulation: In Vivo Safety of Hydrocortisone–Hydroxytyrosol Loaded Chitosan Nanoparticles. *Journal of pharmaceutical sciences*. 2015 Dec 1; 104(12):4276-86. I.F. 2.997
- Siddique MI, Katas H, Amin MC, Ng SF, Zulfakar MH, Jamil A. In-vivo dermal pharmacokinetics, efficacy, and safety of skin targeting nanoparticles for corticosteroid treatment of atopic dermatitis. *International journal of pharmaceutics*. 2016 Jun 30; 507(1):72-82. I.F: 4.845.

#### **Conferences:**

- 1. Muhammad Irfan Siddique, Development and Characterization of Tizanidine Hydrochloride Loaded Transdermal Patch. International Pharmacy Conference & Exhibition IPCE-2020 (Islamia University Bahawalpur, Pakistan
- 2. Muhammad Irfan Siddique, Preparation and Characterization of Curcumin Loaded Chitosan Nanoparticles in Sodium Alginate Based Gel. International Pharmacy Conference (Lahore College for Women University-2019).
- 3. Muhammad Irfan Siddique, Preparation and Characterization of Glucocorticoids Loaded Nanoparticles and its Antibacterial Activity. International Pharmacy Scientific Symposium, University of Central Punjab-2019).
- 4. Muhammad Irfan Siddique, Nanotechnology in Dermatology. *"Nanotechnology, The Future of Medicine"* Lahore College of Pharmaceutical Sceinces-2019).
- 5. Muhammad Irfan Siddique<sup>\*1,2</sup>, Haliza Katas<sup>2</sup>, Mohd Cairul Iqbal Mohd Amin<sup>2</sup>. Scaling-up the nano-fabrication and stability study of hydrocortisone and hydroxytyrosol co-loaded chitosan nanoparticles. Advances in Phytochemical Analysis (Trends in Natural Products Research, Liverpool, United Kingdom)-2018.
- Muhammad Irfan Siddique<sup>\*1,2</sup>, Haliza Katas<sup>2</sup>, Mohd Cairul Iqbal Mohd Amin<sup>2</sup>. Preparation of drug loaded nano-particle on large scale and its characterization for the treatment of atopic dermatitis. Pharmaceutical and Biochemical Sciences (PBS) 7<sup>th</sup> Pak Pharma. & Healthcare EXPO 2018.
- 7. Muhammad Irfan Siddique<sup>\*1,2</sup>, Haliza Katas<sup>2</sup>, Mohd Cairul Iqbal Mohd Amin<sup>2</sup>. Preparation of drug loaded nano-particle on large scale and its characterization for the treatment of atopic dermatitis. Pharma Asia, PPMA 2018.
- Muhammad Irfan Siddique<sup>\*1,2</sup>, Haliza Katas<sup>2</sup>, Mohd Cairul Iqbal Mohd Amin<sup>2</sup>. Fabrication of chitosan nanoparticles for boosting transdermal delivery of topical glucocorticoids: *invivo* permeation and pharmacokinetic assessment. 3<sup>rd</sup> International Health Trigon Summit 2018.
- **9.** Muhammad Irfan Siddique<sup>\*1,2</sup>, Haliza Katas<sup>2</sup>, Mohd Cairul Iqbal Mohd Amin<sup>2</sup>. Safe and nonirritant cream containing hydrocortisone and hydroxytyrosol co-loaded chitosan nanoparticles: Acute dermal toxicity and irritation studies. National Conference on Recent Advancement in Pharmaceutical Sciences 2018.
- **10.** Muhammad Irfan Siddique<sup>\*1</sup>, Haliza Katas<sup>1</sup>, Mohd Cairul Iqbal Mohd Amin<sup>1</sup>. Clinical Investigation and Biocompatibility of Encapsulated Topical Glucocorticoids. International conference on recent advances in clinical research-2017. UVAS, Lahore

- **11. Muhammad Irfan Siddique**<sup>\*1</sup>, Haliza Katas<sup>1</sup>, Mohd Cairul Iqbal Mohd Amin<sup>1</sup>, Ali Naim<sup>2</sup>. Development of chitosan nanoparticles of hydrocortisone-hydroxytyrosol for targeted delivery and safety in albino Wistar rats. **International pharmacy conference and exhibition, 2016**.
- **12.** Muhammad Irfan Siddique<sup>\*1</sup>, Haliza Katas<sup>1</sup>, Mohd Cairul Iqbal Mohd Amin<sup>1</sup>, Shiow-Fern Ng<sup>1</sup>, Mohd Hanif Zulfakar<sup>1</sup>, Fhataheya Buang<sup>1</sup>, Adawiyah Jamil<sup>2</sup>. In-Vivo Dermal Pharmacokinetics, Efficacy, and Safety of Skin Targeting Nanoparticles for Corticosteroid Treatment of Atopic Dermatitis. Pharmaceutical science Research day 2016.
- **13. Muhammad Irfan Siddique1**, Haliza Katas<sup>1</sup>, Mohd Cairul Iqbal Mohd Amin<sup>1</sup>, Shiow-Fern Ng<sup>1</sup>, Mohd Hanif Zulfakar<sup>1</sup>, Fhataheya Buang<sup>1</sup>, Adawiyah Jamil<sup>2</sup>. Nanoparticles Enhance Targeted Topical Corticosteroids Delivery into the Skin with Improved Safety for the Treatment of Atopic Dermatitis: In-Vivo Safety of Hydrocortisone-Hydroxytyrosol Loaded Chitosan Nanoparticles. Control release and drug delivery symposium, 2015.
- 14. Muhammad Irfan Siddique<sup>1</sup>, Haliza Katas<sup>1\*</sup>, Mohd Cairul Iqbal Mohd Amin<sup>1</sup>, Shiow-Fern Ng<sup>1</sup>, Mohd Hanif Zulfakar<sup>1</sup>, Fhataheya Buang<sup>1</sup>, Adawiyah Jamil<sup>2</sup> Preclinical safety evaluation of hydrocortisone-hydroxytyrosol co-loaded chitosan nanoparticles cream in albino Wistar rats. Pharmaceutical science Research day 2015.
- **15. Muhammad Irfan Siddique\***, Haliza Katas, Mohd Cairul Iqbal Mohd Amin. Acute dermal toxicity and acute dermal irritation of hydrocortison-hydroxytyrosol chitosan nanoparticles in albino wistar rat skin. **Control release and drug delivery symposium, 2014**.

**Research Grant:** Approved SRGP research grant from HEC. Worth 0.5 million

## **Computer Skills:**

<b>Operating Systems:</b>	Windows 7/ Windows XP
Office Tools:	MS Excel, MS Power Point and MS Word.
	Skilled in data compilation and documentation

## Language Proficiency:

Proficient in spoken and written English, Malay, Urdu and Punjabi

## **References:**

Will be furnished upon request