

PROFESSOR DR. MUHAMMAD ZEESHAN DANISH

(PhD, Gold Medalist)

- 1- **Email:** zeeshan.danish@pu.edu.pk - Cell: +92-304-4041222, +92-304-4041222 - Office = + 92-9211616
- 2- **POSTAL ADDRESS:** Punjab University College of Pharmacy, Allama Iqbal Campus, Punjab University, Lahore.
- 3- **HOME ADDRESS:** House No.4-C, Street No.8, New Campus, Punjab University Lahore
- 4- **MARITAL STATUS:** Married & blessed with 04 Children (02 Daughters and 02 Sons)
- 5- **Present Occupation/Specialty:** Director of the Punjab University Nanotechnology, Advanced Biopharmaceuticals and Tissue Engineering Center (PU-NanoBioTec) and Professor of Pharmaceutics (University of the Punjab), DNA/RNA Forensic Scientist, expert in Gene Delivery/Therapy, Drug Analyst, Policy Maker, Legal Drug expert, expert in Criminal Drug related Forensic Cases/laws and proceedings/investigations, Research and Educational policies for Pharmacists and Medical Professionals, Independent Consultant/expert in Regulatory affairs, Formulation Scientist, Expert in all aspects of Chemicals and Biological drugs/forensic testing, (Vaccines and vaccination, Antibodies, Interleukins, Interferons, Insulin), Product Development and Clinical Trials of Pharmaceutical.
- 6- **DATE OF BIRTH** 01-01-1978 AGE: 46 Years, 02 Months and 03 days on the last date of Application.

7- **EDUCATION:** (PhD from No. 01 Pharmacy Institutes in U.K and Top 70 University in the World)

No.	Main Degrees/Certificates	University/College/Board	Grades/Division/Field	Years Attended	
				From	To
1	Fellowship (Product development)	Aegis Cardiovascular Foundation, Aventura, Florida, United States of America	Nanotechnology and Cancer Therapeutics	July 2015	September 2015
2	Post Doctorate DNA/RNA Formulations (Forensic Sciences)	Tracetag international Cardiff, Wales/School of Pharmacy, The University of Nottingham, United Kingdom	Industrial Scale DNA/RNA formulations for Tracing/Forensic Applications	December 2013	March 2014
3	PhD (Pharmaceutics: DNA/RNA Formulations)	School of Pharmacy, The University of Nottingham, United Kingdom	Gene Therapy, Nanotechnology, DNA/RNA Technology for Medical/Forensic Applications	2010	2014
4	MPhil (Pharmaceutics)	University College of Pharmacy (UCP), University of the Punjab, Lahore, 54000, Pakistan	GPA 3.7 Out of 4	2006	2009
5	Master is Business Administration (MBA Marketing)	Institute of Business Administration (IBA), University of the Punjab, Lahore, Pakistan	GPA 3.24 Out of 4	2002	2004
6	Bachelors in Pharmacy (B. Pharmacy)	University College of Pharmacy (UCP), University of the Punjab , Lahore, Pakistan	First Division Or A-Grade	1997	2002
7	FSC (Pre-medical)	Board of Intermediate and Secondary Education, D.G.Kha	First Division Or A-Grade	1994	1996
8	Matriculation (Science with Biology)	Board of Intermediate and Secondary Education, D.G.Khan	First Division Or Grade	1992	1994

8- PROFESSIONAL RESEARCH/TEACHING/ADMINISTRATIVE EXPERIENCE:

(Total Relevant Experience of more than 21 Years as supervisor with hands on practice in different research laboratories/institutes of International repute)

1. **Director:** Punjab University Nanomedicines, Biopharmaceuticals and Tissue Engineering Center (NanoBioTec), Faculty of Pharmacy, University of the Punjab, Lahore, Pakistan. (10-10-2023 to date).
2. **Head/In charge:** Punjab University Nanomedicines, Biopharmaceuticals and Tissue Engineering Center (NanoBioTec), Faculty of Pharmacy, University of the Punjab, Lahore, Pakistan. (Sept. 2018 to 10-10-2023).
3. **Professor of Pharmaceutics (Pharmaceutics),** Punjab University College of Pharmacy, (19-05-2019 to date)
4. **Associate Professor (Pharmaceutics),** University College of Pharmacy, University of the Punjab (Jan 2016 to date).
5. **Member Drug Court,** District and Sessions Courts, Lahore, Primary and secondary Healthcare, Government of the Punjab, (July 2017 to July 2018).
6. **Assistant Professor (Pharmaceutics),** University College of Pharmacy, University of the Punjab (Jan 2015 to Jan. 2016).
7. **Superintendent bin Waleed Hall,** University of the Punjab, Lahore, Pakistan (May 2017 September 2017)
8. **Visiting Scholar/Fellowship:** Product development and Clinical trial management, Aegis Cardiovascular Foundation, Orlando Aventura, Florida, and U.S.A. (15 June 2015 to date).
9. **Post doctorate Technology Transfer Associate:** Tracetag International Cardiff, Wales/School of Pharmacy, The University of Nottingham, United Kingdom NG72RD. (2014).
10. **Consultant Scientist:** Product development SHER Ltd West-Bridgeford U.K. (September 2014 to date).
11. **Consultant Scientist:** Technology Transfer Associate, (Jan2014 to March 2014): DNA based Tracing Technology for environmental applications: TraceTag International, Wales (Cardiff) U.K in collaboration with School of Pharmacy, University of Nottingham U.K.
12. **Visiting Lecturer:** School of Pharmacy, University of Nottingham, United Kingdom: Training of undergraduate Pharmacy students for the subject of Microbiology, dispensing of sterile product from bench to bedside and Manufacturing and dispensing of dosage forms (2010 to 2012 for the period of three years).
13. **Lecturer Pharmaceutics:** University College of Pharmacy, University of the Punjab, Lahore Pakistan (June 2004 to December 2009): Research and education, Undergraduate and postgraduate level teaching and Research.
14. **Visiting Lecturer:** University College of Pharmacy, University of the Punjab, Lahore Pakistan.
15. **Product Specialist:** Bio-care Pharmaceutica, Pvt. Ltd. Pakistan (Dec. 2003 to June.2004): Sales and marketing for interferon Alpha 2B to treat the patients suffering from Hepatitis B and C. Training of sales representatives and staff.
16. **Territory Manager:** Pfizer Laboratories (Pvt. Ltd) Pakistan (June 2002 to Dec.2003). Sales and Marketing and training for different CVS, antibiotics and analgesics.

9- INTERNATIONAL PROFESSIONAL TRAINING FOR FORENSIC& MEDICAL APPLICATIONS/ANALYSIS (PROFICIENCY CERTIFICATES FROM INTERNATIONALLY RECOGNIZED INSTITUTE)

NO.	TRAINING COURSES	DURATION	INSTITUTE	GRADE (IF ANY)
1	Imaging of the bands on western blots for DNA/RNA investigation for forensic and Medical Applications.	Short one day Training	University of Nottingham U.K	Certificate
2	LI-COR Software IR Imaging System for identification of DNA/RNA complexes for forensic and Medical Applications.	Short one day Training	University of Nottingham U.K	Certificate
3	LS-4000 Chemiluminescence for in-cell westerns to identify DNA/RNA analysis for forensic/Medical Applications.	Short one day Training	University of Nottingham U.K	Certificate
4	Fluorescent Microscopy-Evos F1 AMG to understand the Nuclear/cellular staining forensic/Medical Applications.	Short one day Training	University of Nottingham U.K	Certificate
5	SDS-Page (Sodium Dodecyle Sulfate, polyacrylamide gel electrophoresis for Protein analysis/identifications.	Short one day Training	University of Nottingham U.K	Certificate
6	RT-qPCR and Thermocycler to quantify the DNA/RNA molecules at gene level	Short one day Training	University of Nottingham U.K	Certificate
7	iCycler Biorad for Cloning and DNA/RNA Magnifications and DNA cloning	Short one day Training	University of Nottingham U.K	Certificate
8	MRX-colorimeter DYNEX to investigate the Cell apoptosis at molecular level to investigate samples at DNA level	Short one day Training	University of Nottingham U.K	Certificate
9	Cell Culture end Tissue Engineering for nucleic acid investigations and molecular evaluations	Short one day Training	University of Nottingham U.K	Certificate
10	Transmission Electron Microscopy (TEM) to evaluate the cytosolic and nuclear organelles (DNA/RNA moieties)	Short one day Training	University of Nottingham U.K	Certificate
11	How to design Primers for PCR-one day training: for Silencing and Gene Expression studies and molecular level.	Short one day Training	University of Nottingham U.K	Certificate
12	Nanodrop Instruments-ND-1000 Spectrophotometer (nanodrop Technologies Inc). for the measurement of unknown DNA/RNA concentrations in unknown samples.	Short one day Training	University of Nottingham U.K	Certificate
13	Fluorescent Spectrophotometer (F-5400 HITACHI): to investigate the Cellular components at DNA level	Short one day Training	University of Nottingham U.K	Certificate
14	Training for Viva Cell 250 to filter and elution of DNA/RNA molecules based on their molecular size/architecture	Short one day Training	University of Nottingham U.K	Certificate
15	Backman Coulter DU-800 Spectrophotometer: Investigation of cellular changes or DNA/RNA mutations.	Short one day Training	University of Nottingham U.K	Certificate
16	Freez Dryer (Modulyo (Edwards) for the preservation of nanocarriers and DNA/RNA Formulations/Samples.	Short one day Training	University of Nottingham U.K	Certificate
17	Malvern Zeta Nanoseries: Investigation of the Charge/Zeta Potential of DNA/RNA complexed systems.	Short one day Training	University of Nottingham U.K	Certificate
18	Viskotec DLS 802 for the measurement of the size of DNA/RNA unknown samples	Short one day Training	University of Nottingham U.K	Certificate
19	Gene Genius Bioimaging System: To investigate the DNA and RNA samples and protein level.	Short one day Training	University of Nottingham U.K	Certificate
20	Running Ethidium Bromide gel agarose system: to mark and compare the DNA/RNA samples for forensic and medical applications.	Short one day Training	University of Nottingham U.K	Certificate
21	Intensive learning and teaching programs at United Kingdom.	Four days training Certificate	University of Nottingham U.K	Certificate
22	Continuous Pharmaceutical education, Temple University USA	Two Weeks	Temple University USA	Certificate
23	Faculty Orientation Program, University of the Punjab.	One Week	University of the Punjab, Lahore	Certificate
24	German Language, Lahore	One Month Course Training/Certificate	Goethe Center Lahore	Certificate
25	IELTS English Certificate	Language Certificate	British Council Lahore	Certificate

10- ADDITIONAL PROFESSIONAL EXPERIENCE

1. **Member Technical:** Punjab Food, Agriculture and Drug Authority (PAFDA). 2019 to date.
2. **Visiting Research Supervisor:** PhD Project, Edinburgh University, U.K (2023-2026).
3. **Visiting Research Supervisor:** PhD Project, Loughborough University, U.K (2023-2026).
4. **Chief Scientific Officer:** NanoSol Technologies: To provide Solutions for Cancer Diagnostics and Therapeutics, Nanostarup Challenge United States of America. <https://www.youtube.com/watch?v=DoqlW5KgEGI>.
5. **Chief Advisor:** International Research and innovative Services (IRIS), Lahore, Pakistan. March 2016 to date.
6. **Member:** Expert Committee of Biologicals, Drug Regulatory Authority, (DRAP), Pakistan. 2015 date.
7. **Visiting Consultant Scientist:** Aegis Cardiovascular Foundation for Clinical Trial Settings and Product development, Aventura, Florida, City of Orlando, U.S.A. (June 2015 till onward).
8. **Visiting Research Supervisor:** PhD Project, The French National Institute of Health and Medical Research (INSERM), U869, University of Bordeaux, France, (2015-2019).
9. **Visiting Research Supervisor:** PhD Project, The Institute of Life and Medical Sciences, Bonn, Germany. (2015-2019).
10. **Visiting Research Supervisor:** PhD Project, The Ocean University China (2021 continued)
11. **Visiting Research Supervisor:** Advanced Courses, MPhil and PhD (Pharmaceutics), Faculty of Pharmacy, University of Balochistan, Quetta, Pakistan. (March 2015 to date)
12. **Consultant National Training Manager:** Advisor: Medi-Mark Pharmaceutical: Brand Management, Training of sales and marketing staff for different Pharmaceutical products including CVS and antibiotics (2005 to 2009).
13. **Consultant Training Manager:** Advisor: Laderly Bio-tech Pharmaceutical Consultant National Training Manager for Antibiotics and Analgesics. (Sept.2008 to Jan. 2009):

11- LEAD IN PROJECTS COMPLETED (MPHIL/PHD LEVEL)

S#	Degree	Session	Status	Title of Research
1	Ph.D	2015-2020	Completed	Aptamers as tools for biomedical imaging to identify the cancer cell biomarkers
2	Ph.D	2015-2020	Completed	Use of aptamers to understand the immune modulation system in macrophages and dendritic cells
3	Ph.D	2017-2021	Completed	Design and Synthesis of Linear Poly-amidoamines (PAA) as a nano-vector for gene delivery
4	Ph.D	2017-2021	Completed	Formulation and Characterization of self-assembling chitosans based nanoparticles for gene delivery
5	Ph.D	2018-2022	Completed	Gold and silver decarboxylation and C-H oxidation via oxidative free radicals and intramolecular Friedel-Craft alkylation. (Ocean University, China)
6	MS/M.Phil	2018-2020	Completed	Formulation and Characterization of Anticancer Injectable Hydrogels
7	MS/M.Phil	2018-2020	Completed	Design and Synthesis of 3-D scaffolds for drug delivery
8	MS/M.Phil	2018-2020	Completed	Formulation optimization of medicated contact lenses for ophthalmic drug delivery
9	MS/M.Phil	2018-2020	Completed	Thermo-responsive In situ depot formulations for drug delivery

10	MS/M.Phil	2018-2020	Completed	Formulation and Characterization of Solid Lipid Nano carriers for drug delivery
11	MS/M.Phil	2017-2019	Completed	Comparative Complexation behaviour of the different chitosans based nanocarriers
12	MS/M.Phil	2014-2017	Completed	Formulation design and evaluation of ranolazie and amlodipine besylate as a combination therapy to treat hypertension
13	MS/M.Phil	2015-2017	Completed	Formulation optimization and In vitro evaluation of sustained release oral hydrogels of Diacerein to treat arthritis
14	MS/M.Phil	2015-2017	Completed	Preparation and characterization of oral hydrogels of metoprolol tartarate to treat hypertension
15	MS/M.Phil	2015-2017	Completed	Synthesis, characterization and susceptibility testing of silver chitosan composite nano particles
16	MS/M.Phil	2015-2017	Completed	Green Synthesis of sliver nanoparticles from the different aquous extracts of herbal indigenous plants
17	MS/M.Phil	2015-2017	Completed	Synthesis and characterization of the lipid nano particles for drug delivery
18	MS/M.Phil	2015-2017	Completed	Formulation and pysicochemical evaluation of canaglifozine and metformin HCl
19	MS/M.Phil	2015-2017	Completed	Formulation and characterization of biodegradable chitosans based composite for drug delivery
20	MS/M.Phil	2015-2017	Completed	Synthesis and characterization of biodegradable PEGYlated chitosan based for gene delivery
21	MS/M.Phil	2015-2017	Completed	Synthesis and characterization of chitosans based alyminium complexes
22	MS/M.Phil	2015-2017	Completed	Comparative assesment of Hospital Pharmacy services in Pakistan against international standards
23	MS/M.Phil	2015-2017	Completed	Pharmacognostic and biochemical studies of activities of the extract of the different extracts of Seabuckthorn berry
24	MS/M.Phil	2013-2015	Completed	Pharmacognostic studies and biological activities of the extract of hibiscus rosa sinenses
25	B.Sc (Hons)	2015-2017	Completed	Cell viability and membrane potential effects and anticancer activity of the Seabuckthorn berry extracts
26	B.Sc (Hons)	2015-2016	Completed	Synthesis, Structure, activity relationship and formulation design of metal based antibiotics
27	MS/M.Phil	2015-2016	Completed	Evaluation of the Prescription based Counseling Practices in Community Pharmacy
28	MS/M.Phil	2016-2017	Completed	Psychometric evaluation of the stress factors and associated symptoms among the people of Balochistan

29	MS/M.Phil	2016-2017	Completed	Formulation development and quality control of the double layered CR diltiazem HCL Matrix tablet and their evaluation tablet
30	MS/M.Phil	2016-2017	Completed	Development and Evaluation of Controlled released Tablets of selected Antidiabetic drugs
31	M.Sc	2019	Completed	Formulation and Characterization of burn cream from herbal sources
32	M.Sc	2019	Completed	Formulation design and evaluation of perindopril tartarate as a sustained release tablet dosage form by utilizing natural and synthetic polymers to treat hyper tension
33	M.Sc	2019	Completed	Development and in vitro evaluation of perindopril gastroretentive floating tablets
34	MS/M.Phil	2015-2017	Completed	Development of a Tool to educate the Pharmacy Proprietors for rational use of controlled substances
35	M.Sc	2021	Completed	Design and Synthesis of the different tablet formulations as Combination therapy to treat Hypertension
36	M.Sc	2021	Completed	Design and Synthesis of the different tablet formulations as Combination therapy to treat Diabetise
37	M.Sc	2021	Completed	Design and Synthesis of the different tablet formulations as Combination therapy to treat Rheumatoid Arthritis
38	M.Sc	2021	Completed	Design and Synthesis of the different tablet formulations as Combination therapy to treat Asthma
39	M.Sc	2016-2021	Completed	Effect of aromatherapy on different patients suffering from different diseases
40	M.Sc	2016-2021	Completed	Preparation and Characterization of lipstick using salicylic acid
41	M.Sc	2016-2021	Completed	Preparation of medicated shampoo for seborrheic dermatitis
42	M.Sc	2016-2021	Completed	Preparation of Urea cream for ichthyiosis treatment
43	M.Sc	2016-2021	Completed	Preparation and Characterization of anti-aging cream using retinol
44	M.Sc	2016-2021	Completed	Preparation of broad spectrum sunscreen lotion containing oxybenzone
45	M.Sc	2016-2021	Completed	Preparation of cream for treatment of acne using benzoyl peroxide, salicylic acid
46	M.Sc	2016-2021	Completed	Formulation and characterization of combo Metformin and Atorvastatin
47	M.Sc	2016-2021	Completed	Formulation and characterization of combo Metformin and Amlodipine
48	M.Sc	2016-2021	Completed	Formulation and characterization of combo Lisinopril and Metoprolol

49	MS/M.Phil	2019-2021	Completed	Design and Development of the Generator to Produce Brown Gas to treat COVID-19 Patients
50	MS/M.Phil	2018-2020	Completed	Clinical Trials of Molecular Hydrogen in Human to Treat Cancer
51	MS/M.Phil	2018-2020	Completed	Use of Brown gas in the management of Diabetes
52	Ph.D	2020-2024	Completed	In situ depot formulation as a drug delivery system to treat chronic diseases
53	M.Sc	2020-2021	Completed	Formulation and characterization of combo Metformin and Losartan Potassium
54	M.Sc	2020-2021	Completed	Formulation and characterization of combo Lisinopril and Hydrochlorothiazide

12- INTERNATIONAL SUPERVISION OF RESEARCH PROJECTS

- 1- **PhD Research Supervision:** Nanoparticle based targeted theranostics to diagnose and treat HPV induced cancer., **Edinburgh University, U.K.** 2023-2026.
- 2- **PhD Research Supervision:** Chitosans based siRNA delivery system to treat cancer, University of **Loughborough, United Kingdom**, U.K. 2023-2026.
- 3- **PhD Research (Pharmaceutics) Supervision:** (Nucleic acid therapeutics): Aptamers as tools for biomedical imaging to identify the cancer cell biomarkers: The French National Institute of Health and Medical Research (INSERM), U869, **University of Bordeaux, France**, (2015-2019).
- 4- **PhD Research Supervision:** (Nucleic acid therapeutics) Use of Aptamers to understand the immune modulation system in macrophages and dendritic cells, **LIMES institute, Rheinische Friedrich Wilhelms Universitat Bonn, Germany** (2015-2019).
- 5- **PhD Research Supervision:** Ocean University China: Gold and silver decarboxylation and C-H oxidation via oxidative free radicals and intramolecular Friedel-Crafts alkylation. (Ocean University, China)-2021 continued.
- 6- **Masters (Pharmacy) Research Supervision:** Comparative complexation and binding behavior of siRNA and DNA homoduplexes for Gene Delivery, School of Pharmacy, University of Nottingham, United Kingdom. (2011-2012).
- 7- **MPhil:** Synthesis and characterization of metal-based nanocomposites of Antibiotics for extended therapeutic effects to treat infectious diseases, University of the Punjab, Lahore, Pakistan: 2022-2024.
- 8- **MPhil:** Synthesis and invitro evaluation of DNA and RNA PEGylated nanoparticles using linear polyamidoamines (PAAs) for forensic and therapeutic applications. University of the Punjab, Lahore, Pakistan: 2022-2024.
- 9- **MPhil:** Development and characterization of chitosans based self assembled DNA and RNA complexes for forensic and therapeutic applications. University of the Punjab, Lahore, Pakistan: 2022-2024.

- 10- **PhD Project:** Nanocarriers based bridgeable artificial skin for repair and regeneration University of the Punjab, Lahore, Pakistan: 2023-2026.
- 11- **PhD Project:** Nanocarriers to develop mRNA Vaccine for future pandemics: University of the Punjab, Lahore, Pakistan: 2023-2026.

13- RESEARCH PROJECTS/GRANTS RECEIVED/APPROVED

- a. Punjab University Nanotechnology, Biopharmaceuticals and Tissue Engineering Center (PU-Nano.Bio.Tec), Punjab University. 30 Million PKRS. 2018-2024.
- b. Member of Punjab Agriculture, Food and Drug Authority (PAFDA), 20 Billion PKRS. 2017 to date
- c. National Research Project for Universities (NRPU) HEC Grant for the 2016/17: 5.5 Million PKRS
- d. Grant for Pakistan Research for Biologicals and Evaluation Services (PROBES): Expected 500 Million PKR established for Primary and secondary health care department, Government of the Punjab.
- e. Grant Approved for PhD project (**80,000 Euros**), at LIMES institute, Rheinische Friedrich Wilhelms Universitat Bonn, Germany.
- f. Grant Approved by Higher Education Commission Pakistan for PhD project (**80,000 Euros**) at the French National Institute of Health and Medical Research (INSERM), U869, University of Bordeaux, France.
- g. University of the Punjab: Grant approved 150,000 for the year 2016.
Formulation and Characterization of Chitosans based gene delivery vectors to treat cancer.
- h. University of the Punjab: Grant received 150,000 for the year 2015, Cytotoxicity Assays of Sea-buckthorn berry extract (*Hippophae rhamnoides*) on human cell line using MTS and LDH assays for drug formulations.
- i. Post doctorate Research: Industrial scale manufacturing of DNA based tracing technology for environmental applications. Received 10, 0000£ in Feb. 2014.
- Worked as Technology Transfer associate with TraceTag International (Wales, Cardiff U.K) appointed from University of Nottingham.
- j. PhD research: Formulation and Characterization of Self-assembling, Bio-reducible Cross-linked siRNA Polyplexes for Gene Silencing (Received £80,0000), Period from 2010 to 2014.
- k. **M.Phil research:** Extraction, Phytochemical analysis and dosage formulation from sea-buckthorn (*Hippophae rhamnoides*) from 2006-2009. Grant used about 300,000 PAK Rupees for the period of 2 years from 2007 to 2009.

14- LIST OF PATENTS/BOOKS/PUBLICATIONS

[Total: 64 – {Patents-4, Books-5, Articles-54}]

PATENTS [TOTAL 04]

- 1) **POLYMER PARTICLE - UNITED STATES PATENT APPLICATION PUBLICATION (FINDINGS OF MY PHD THESIS) - PATENT PUBLISHED ON AUG. 15, 2013 IN THE NAME OF INVENTOR: PROF. MARTIN C. GARNETT FOR DNA TRACER T.**
- 2) **NOVAL CAMBO DRUG DESIGN (NCDD) OF ATORVASTATIN CALCIUM, HYDROCHLOROTHIAZIDE AND AMLODIPINE BESYLATE FOR ENHANCED PATIENT'S COMPLIANCE TO TREAT CARDIOVASCULAR COMPLICATIONS.** GOVT. OF PAKISTAN, INTELLECTUAL PROPERTY ORGANIZATION, THE PATENT OFFICE KARACHI
- 3) **QUALITY FORMULATION DESIGN FROM THE SEABUCKTHORN BERRY EXTRACT WITH MULTIPLE THERAPUTIC EFFECTS.** GOVT. OF PAKISTAN, INTELLECTUAL PROPERTY ORGANIZATION, THE PATENT OFFICE KARACHI.
- 4) **DESIGN AND DEVELOPMENT OF HYDROGEN GAS GENERATOR (DEVICE) FOR ENVIRONMENTAL & MEDICAL APPLICATIONS.** GOVT. OF PAKISTAN, INTELLECTUAL PROPERTY ORGANIZATION, THE PATENT OFFICE KARACHI.

BOOKS [TOTAL 05]

- 1) CLINICAL OBSERVATIONS AND MANAGEMENT OF COVID-19 PATIENTS IN HOSPITALS, IN THE PROOF READING PHASE
- 2) MOLECULAR HYDROGEN: A PREVENTIVE & THERAPEUTIC AGENT, IN PROOF READING PHASE.
- 3) PHARMACY EDUCATION GUIDE (PEG), IN THE PRINTING PRESS.
- 4) INJECTABLE HYDROGELS AS DRUG DELIVERY SYSTEM, IN THE PRINTING PRESS.
- 1) MIR CHAKAR KHAN RIND BALOCH, IN THE PRINTING PRESS.

PUBLISHED IN 2022/23

- 1- "DEVELOPMENT AND CHARACTERIZATION OF POLYAMIDOAMINE BASED DOXORUBICIN LOADED POLYMERIC NANOCARRIERS AND IN-VITRO EVALUATION ON LIVER CANCER CELL LINES." PAKISTAN JOURNAL OF PHARMACEUTICAL SCIENCES 36.5 (Special) (2023): 1573-1582. Mazhar, Nadia, Zeeshan Danish, and Hamid Saeed.
- 2- FORMULATION, OPTIMIZATION AND IN VITRO EVALUATION OF SUSTAINED RELEASE ORAL HYDROGELS OF DIACEREIN TO TREAT ARTHRITIS. PAKISTAN JOURNAL OF PHARMACEUTICAL SCIENCES, 36(1). Danish, Z., Hussain, R. M. A., Ijaz, H., Mughal, S., Saeed, H., Aslam, I., ... & Abdel-Daim, M. M. (2023).
- 3- EXPLORING THE POTENT COMBINATION OF QUERCETIN-BORONIC ACID, EPALRESTAT, AND UREA CONTAINING NANOETHOSOMAL KERATOLYTIC GEL FOR THE TREATMENT OF DIABETIC NEUROPATHIC PAIN: IN VITRO AND IN VIVO STUDIES. MOLECULAR PHARMACEUTICS. Usman Abid, H. M., Hanif, M., Z Danish, Mahmood, K., Abid, S., Khan, M., Khurshid, U., ... & Razaque, G. (2023).
- 4- "DOCETAXEL-LOADED METHOXY POLY (ETHYLENE GLYCOL)-POLY (L-LACTIC ACID) NANOPARTICLES FOR BREAST CANCER: SYNTHESIS, CHARACTERIZATION, METHOD VALIDATION, AND CYTOTOXICITY." PHARMACEUTICALS 16.11 (2023): 1600. Miraj, S., Saeed, H., Iqtedar, M., Albekairi, N. A., Ahmed, N., Danish, M. Z., ... & Rathore, H. A. (2023).
- 5- SYNTHESIS AND CHARACTERIZATION OF SELF-ASSEMBLING CHITOSAN-BASED NANOPARTICLES. PAKISTAN JOURNAL OF PHARMACEUTICAL Sciences, 35. Qureshi, J., Iqbal, F. M., Danish, Z., Shah, S. N. H., Umar, H., Zaman, M., ... & Islam, N. (2022).
- 6- "FACILE SYNTHESIS OF THREE-DIMENSIONAL POROUS HYDROGEL AND ITS EVALUATION." POLYMER BULLETIN 79, no. 9 (2022): 7407-7428. Danish, Zeeshan, Hira Ijaz, Ghulam Razzaque, Nauman ul Haq, and Muhammad Mahran Aslam.
- 7- DESIGN AND IN VITRO EVALUATION OF PH-SENSITIVE CROSSLINKED CHITOSAN-GRAFTED ACRYLIC ACID COPOLYMER (CS-CO-AA) FOR TARGETED DRUG DELIVERY. INTERNATIONAL JOURNAL OF POLYMERIC MATERIALS AND POLYMERIC BIOMATERIALS, 71(5), 336-348. Ijaz, H., Tulain, U. R., Minhas, M. U., Mahmood, A., Sarfraz, R. M., Erum, A., & Danish, Z. (2022).

PUBLISHED IN 2021

- 8- ASSOCIATION OF BREAST CANCER REPORTING DELAYS AND CARE INTERVALS WITH TUMOR SIZE IN PATIENTS WITH ADVANCED DISEASE. WOMEN & HEALTH, 61(9), 832-844. MIRAJ, S., SAEED, H., JABEEN, S., RASOOL, F., ISLAM, M., DANISH, Z., & YASMEEN, S. (2021).
- 9- PERCEPTIONS OF AND BARRIERS TO ETHICAL PROMOTION OF PHARMACEUTICALS IN PAKISTAN: PERSPECTIVES OF MEDICAL REPRESENTATIVES AND DOCTORS. BMC MEDICAL ETHICS, VOLUME # 22 (2), PAGE, 1-16, (2.4 IF).
- 10- DEVELOPMENT, CHARACTERIZATION AND OPTIMIZATION OF METHOTREXATE-OLIVE OIL NANO-EMULSION FOR TOPICAL APPLICATION. PAKISTAN JOURNAL OF PHARMACEUTICAL SCIENCES, Volume # 34 (1), Page, 205- 215. (1.0 IF).

PUBLISHED IN 2020

- 11- **DESIGN AND IN VITRO EVALUATION OF PH-SENSITIVE CROSSLINKED CHITOSAN-GRAFTED ACRYLIC ACID COPOLYMER (CS-CO-AA) FOR TARGETED DRUG DELIVERY**, INTERNATIONAL JOURNAL OF POLYMERIC MATERIALS AND POLYMERIC BIOMATERIALS, <http://doi.org/10.1080/00914037.2020.1833011>.
- 12- **FORMULATION AND OPTIMIZATION OF CAPTOPRILL-LOADED MICROSPHERES BASED COMPRESSED TABLETS: IN VITRO EVALUATION**, INTERNATIONAL JOURNAL OF POLYMERIC MATERIALS AND POLYMERIC BIOMATERIALS, <http://doi.org/10.1080/00914037.2020.1825080> (2.0 IF).
- 13- **RAPID EMERGENCE OF ANTIBACTERIAL RESISTANCE BY BACTERIAL ISOLATES FROM PATIENTS OF GYNECOLOGICAL INFECTIONS IN PUNJAB, PAKISTAN**, JOURNAL OF INFECTION AND PUBLIC HEALTH, VOLUME #: 13, PP. #: 1972-1980 (2.4 IF) .

PUBLISHED IN 2019

- 14- **METABOLOMICS AND MARKER-BASED STABILITY STUDIES OF METHANOL EXTRACT OF SEEDS OF SYZYGIUM CUMINI L.**, PAKISTAN JOURNAL OF PHARMACEUTICAL SCIENCES, VOLUME #: 32(2), PP. #: 499-504 (1.0 IF).
- 15- **A RANDOMIZED CONTROL TRIAL OF PRIMARY CARE BASED MANAGEMENT OF TYPE 2 DIABETES BY A PHARMACIST IN PAKISTAN**, BMC HEALTH SERVICES RESEARCH, VOLUME # 19, PP. #: 409-421 (1,987 IF).
- 16- **COMPARISON OF CLINICO-PATHOLOGICAL CHARACTERISTICS AND SURVIVAL OF RECURRENT OVARIAN CANCER PATIENTS ON SEVEN DIFFERENT CHEMO-PROTOCOLS**, ACTA PHARM. 69. (2019) XX-XX. [HTTPS://DOI.ORG/10.2478/ACPH-2019-0002](https://doi.org/10.2478/ACPH-2019-0002).

PUBLISHED IN 2018

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6. **Zeeshan Danish**¹, Iram Aslam¹, Nadeem Irfan¹, Khalid Hussain, Muhammad Jamshaid¹, Bashir Ahmad¹, Hamid Saeed¹, Zikria Saleem¹, Muhammad Ali², Ghulam Razaque³, Kamran Khan⁵, Akhlaq Ahmad⁵, Sadia Chaman⁴. Formulation design and in vitro evaluation of Tablet dosage form of Seabuckthorn berry extract. (Ready for submission).
7. **Zeeshan Danish**¹, Iram Aslam¹, Nadeem Irfan¹, Muhammad Jamshaid¹, Bashir Ahmad¹, Hamid Saeed¹, Zikria Saleem¹, Muhammad Ali², Ghulam Razaque³, Kamran Khan⁵, Akhlaq Ahmad⁵, Saadia Chaman⁴. Formulation design and in vitro evaluation of Tablet dosage form of Seabuckthorn berry extract (Journal of Pharmacy and Pharmacology).
8. **Zeeshan Danish**¹, Nouman Saleem¹, Maryam Qamar¹, Hamid Saeed¹, Graeme Doran, Muhammad Sohail, Sarah Shigdar, Andrew Miller, Molecular Biomarkers as a Tool for Cancer Diagnosis. (Ready for submission).
9. Qaiser Iqbal, **Zeeshan Danish**, Sajid Bashir, Muhammad Zubair, Asad Ullah Madani, Iftikhar Afzal; Pharmacokinetic Comparison of 2 Formulations of Sitagliptin (100 mg) in Healthy Pakistani Male Volunteers: A Randomized, Single-Dose, 2-Period, 2-Sequence, Crossover Study; (Ready for submission).
10. **Zeeshan Danish**¹, Usman Akhtar, Sarah Shigdar, Gunter Mayer; An emerging Advanced Drug Delivery tool: Aptamers therapeutics; (Ready for submission).

17- LIST OF PATENTS FILED/PROVISIONAL APPROVAL GRANTED

1. "Novel Combo Drug Design (NCDD) of Atorvastatin Calcium, Hydrochlorothiazide and Amlodipine besylate for enhanced patient's Compliance to treat cardiovascular complications" Filed in Jan. 2016. (Solicitor's File attached).
2. "Quality Formulation Design from the Sea-buckthorn berry extract with multiple Therapeutic effects" Patent Filed in Jan. 2016. (Solicitor's File attached).

18- MEMBERSHIP OF LEARNED SOCIETIES AND OTHER ACTIVITIES IN UNIVERSITY

PUBLIC OR INTERNATIONAL AFFAIRS:

1. Member of Lahore, Gymkhana Club, 2017-2018.
2. Founder Member of the Group of Researchers and Intellectuals of Pakistan (GRIP) Foundation.
3. General Secretary of Postgraduate (**M.Phil and PhD**) courses and syllabus committee, University College of Pharmacy, University of the Punjab, Lahore, Pakistan Jan.2016 to date.
4. In charge **Multimedia and Computer lab**, Class rooms Audio Visual Committee, University College of Pharmacy, University of the Punjab, Lahore, Pakistan. 2015 to date).
5. In charge **Dengue Control Committee**, University College of Pharmacy, University of the Punjab, Lahore, Pakistan. 2015 to date).
6. In charge **safety and Security Committee**, University College of Pharmacy, University of the Punjab, Lahore, Pakistan. 2015 to date).
7. Member, **Doctoral Program Coordination Committee DPCC**), University College of Pharmacy, University of the Punjab, Lahore, Pakistan (Jan. 2015 to 2016).
8. Member, **Board of Studies**, Faculty of Pharmacy, University of Balochistan, Quetta, Pakistan (March 2015 to date).
9. Member **Alumini, University College of Pharmacy (UCP)**, University of the Punjab, Lahore Pakistan (2002 to date).
10. Member **Alumini, Institute of Business Administration (IBA)**, University of the Punjab, Lahore Pakistan (2004 to date).
11. Member **Alumini, University of Nottingham (UON), United Kingdome**. 2014 to date.
12. Member **United Kingdome and Ireland (UKICRS)**-April 2015-to date Society of Controlled Release
13. **Distinguished Editor, Journal of RNAi and Gene Silencing, University of Oxford**, United Kingdome. March, 2015 to date.
14. Member **International Aptamer Society, INSOAP, University of Oxford, U.K**, March, 2015-to date.
15. Member: **Royal Chemical Society (RCS)**, U.K, (2010-2012).
16. Member: **Pakistan Pharmacists Association (PPA)**, Pakistan, (2002 to date).
17. **RNAi Forum**: School of Pharmacy, The University of Nottingham, U.K. (2011 to date).
18. Member: **Jewish Muslim Dialogue (JMD)**, Nottingham, U.K. (2011 to date).
19. Member: **Students Union**, University of Nottingham, U.K. (2010 to date).
20. Founder member **Pharmacy Helping Society (PHS)**, School of Pharmacy, Punjab University. (2001).
21. Member and active participant: **Rotary Club**, Lahore, Pakistan (1998).
22. Founder of First **website for School of Pharmacy**, University of the Punjab, (www.pupharmacy.uni.cc), 2001.
23. **International Volunteer organization programs Association** New York City. (2010-2012).

24. Member, **Academic Staff Association**, University of the Punjab. (2004 to date).
25. Contested **Election as an Executive member** for ASA, University of the Punjab, 2006, 2007.
26. Member, **Development committee**, University College of pharmacy, University of the Punjab. (2004-2009).
27. Member, **Alumni Association IBA**, University of the Punjab, Lahore, Pakistan. (2004 to date).
28. In-charge/Architect: **Computer and Multimedia lab**, School of Pharmacy, University of the Punjab. (005 to 2009).
27. Member. **Development committee**: University college of Pharmacy, University of the Punjab, 2005-2009.
28. Secretary and Founder of **Green day**, School of Pharmacy, University of Punjab. (2005, 2006).
29. Organizing Secretary: **Pharmacy festival**, School of Pharmacy, University of Punjab, 2007.
30. Member, **Faculty News** University of the Punjab, (2009).
31. Member, **Cultural committee**, University of the Punjab, Lahore, (2008-2009).
32. Secretary, **Security Committee**, University College of Pharmacy, University of the Punjab, (2008-2009).
33. Member, **security Committee, Annual Book fair**, University of the Punjab. (2008-2009).
34. Team Member: Program teams for the implementation of **Self-Assessment Team and Quality Enhancement**
35. **Cell**. Higher Education Commission (HEC), Pakistan. (2007-2009).
36. Member: **Board of studies**, school of pharmacy, University of the Punjab. 2009.
37. Member: **Admission committee** for undergraduates, School of Pharmacy, University of the Punjab. 2005-2009.
38. Designer and member for **Prospectus committee**: School of Pharmacy, University of the Punjab, 2005-2009.

19- INVITED TALKS/GUEST SPEAKER

1. Invited Speaker: RNAi Oxford, 2016, St. Hilda's College University of Oxford, United Kingdom.
2. Centre of Excellence and Molecular Biology, University of the Punjab, Lahore. "Nanomedicines to treat Cancer"
3. Department of Polymer engineering: University of the Punjab, Lahore, Pakistan. "Design and synthesis of biodegradable Non-viral gene delivery nano-carriers for medical and environmental applications, 23th November 2015.
4. Centre of Advanced studies of vaccinology and Biotechnology (CASVAB), University of Balochistan, Quetta, Pakistan, "Targeted Drug Delivery to treat Cancer." 12th of *December 2015*.
5. Department of Plant Biology and Faculty of Pharmacy: University of Balochistan, Quetta, Pakistan, "Concepts and Applications of Gene Silencing: Techniques and Applications" 10 *December 2015*.
6. Invited Speaker and Panel of experts for Biologicals, World Health Organization (WHO) and Drug regulatory Authority (DRAP), Pakistan, "Challenges in implementing Regulations of Biosimilar Products" 19 *October 2015*, *Pearl Continental Hotel, Pakistan*.
7. "abcame, U.S.A "Polymeric delivery of siRNA to treat cancer" 2 4 *July 2015*, 1 *Kendall Square, Suite B2304, Cambridge, MA 02139-151 7, USA*.
8. Faculty of Pharmacy, University of Balochistan, International Seminar on "Research in Pharmacy: Opportunities for Pharmacists to contribute in Health care system" June 1st 2015, *Serene Hotel Quetta, Balochistan, Pakistan*.

9. University of Oxford, International Conference on RNAi and Gene Silencing, 24- 26 March 2015, Saint Hilda's College University of Oxford, United Kingdom.
10. University College of Pharmacy, University of the Punjab, Lahore, Pakistan. 18th March 2015.
11. SMi Controlled Release Conference, March 12 to 13 2014, Holiday inn London U.K.
12. University of Veterinary and Animal Sciences (UVAS), Lahore, Pakistan Jan.2014
13. University College of Pharmacy, University of the Punjab, Lahore, Pakistan, Jan. 2013 Pakistan.
14. On Radio, FM 104-5, Public Awareness about Hepatitis C, University of the Punjab, Lahore, Pakistan, (April 2006).
15. Rational use of Antibiotics in General Medicines Wards, Sheikh Zaid Hospital, Lahore, (27-June 2009.
16. Guest speaker: Bone marrow transplantation centre (BMT), Rawalpindi Combined Military Hospital, on the topic of Peripheral blood stem cell transplantation and the use of appropriate antibiotics to avoid from infections in BMT, (Jan-2007).
17. Guest speaker: Bone marrow transplantation centre (BMT), Rawalpindi Combined Military Hospital, on the topic of Peripheral blood stem cell transplantation and the use of appropriate antibiotics to avoid from infections in BMT. (Jan-2007).

20- OTHER ACTIVITIES IN UNIVERSITY PUBLIC OR INTERNATIONAL AFFAIRS

1) CLINICAL & RESEARCH EXTERNSHIPS

July & August 2001	Hospital Pharmacy, Children Hospital and educational Complex, Lahore
May-June 2000	Shaukat Khanum Cancer Hospital and Research center Lahore, Pakistan

2) HONORS, A WARDS & A CHIEVMENTS

2012 First Pakistani researcher at University of Nottingham UK who's **PhD findings were granted with International patent** for designing the safest and effective siRNA gene delivery system, School of Pharmacy, University of Nottingham.

2012 Selection as a **Postgraduate researcher** for short film and project profile interview for university of Nottingham postgraduate research website. Online (http://www.nottingham.ac.uk/pgvideos/Sciencevideos/Zeesan-Danish-sub.aspx?KeepThis=true&TB_iframe=true&height=410&width=519)

2012 Press release of the project in U.K, titled: **Next generation medicine and the pharmaceutical pioneers** 29 march. 2012. Online: (<http://www.nottingham.ac.uk/news/pressreleases/2012/march/doctoraltrainingpharmacy.aspx>).

2008 **University of the Punjab, Scholarship awarded** for PhD in Pharmacy at United Kingdom.

2007 **Selected for HEC Overseas Scholarship for PhD** in Phase 1 Batch 11 1999 **Presidential**

HEC Scholarship award from University of the Punjab, in sports 2001 **University grant commission**

(UGC) Colour holder (University blue) in foot ball 2000 Gold medal, 5000 Marathon race,

interdepartmental Athletic Championship 1999 **Gold medal, 400 race,** interdepartmental Athletic

Championship 1999 **Gold medal, 5000 Marathon race,** interdepartmental Athletic Championship

1998 **Gold medal, 5000 Marathon race,** interdepartmental Athletic Championship

1996 **Merit scholarship from Government of Pakistan** for 4 years for securing highest marks in FSC (**Position holder**)

1994 **Merit scholarship from Government of Pakistan** for 2 years for securing highest marks in Matric (**Position holder**)

1992 **Merit scholarship from Government of Pakistan** for securing highest marks in Class 8th. (**Position holder**)

21- OTHER ACTIVITIES IN UNIVERSITY PUBLIC OR INTERNATIONAL AFFAIRS:

(A) - National Scientific Campaign/Workshops/Conferences Organized/Participated

1. International pharmacy conference and exhibition organized by Pakistan Pharmacists association April-05 – 08, 2009, Lahore, Pakistan.
2. One day seminar by Eli Lilly, Pakistan April 02, 2009 on scope of pharmacists in multinational pharmaceutical organizations.
3. One day workshop by GSK, Feb.2009, career of pharmacists in sales and marketing
4. Secretary organization committee NEPT (New Era in Pharmaceutical Trading) "Impact of WTO on Pharmaceutical Industries at University College of Pharmacy, Lahore, on 12th April, 2007.
5. Organized National Anti-Hepatitis Campaign & Pharmaceutical Exhibition organized by University College of Pharmacy, University of the Punjab, Lahore in March, 2007.
6. Organized National Anti-Smoking Campaign & Pharmaceutical Exhibition organized by University College of Pharmacy, University of the Punjab, Lahore in April, 2006.
7. Organized Workshop on career counselling and professional resume writing and role of pharmacists in sales and marketing by GlaxoSmithKline Beecham at Allama Iqbal Campus, University of the Punjab organized by University College of Pharmacy, February, 2006.
8. Organized Seminar on Orientation of Pharmaceutical Marketing by Glaxo Smithkline Beecham at Allama Iqbal Campus, University of the Punjab organized by University College of Pharmacy. February, 2006.
9. Attended 13th International Pharmacy Conference & Exhibition on "Pharmaceutical Care, for Better Treatment Outcome" organized by Pakistan Pharmacists Association at Lahore on February 16-19, 2006.
10. Attended workshop on International Marketing at Senate Hall, Allama Iqbal Campus, Lahore, organized by University College of Pharmacy, University of the Punjab, Lahore, November, 2005.
11. Attended National workshop to discuss and adopt outlines of national quality assurance system for traditional medicine at Peshawar organized by National Institute of Health, Islamabad in collaboration with Ministry of Health, Govt. of Pakistan & World Health Organization, in April, 2005.
12. International Pharmaceutical Conference and Exhibition for better treatment, Hotel Avari, Lahore, 2005
13. International G.I. Scopy Conference, Hotel Serena, Quetta, 2004.
14. International Urology Conference, Pearl Continental Lahore, 2004.
15. International Conference Pakistan Pharmacist Association, Pearl Continental Lahore, 2004.
16. Attended 20th International Congress of Gastroenterology & G.I. Endoscopy at Quetta on April 9-11, 2004.
17. Attended National workshop to discuss and adopt outlines of national quality assurance system for traditional medicine at Hamdard Center Lahore organized by National Institute of Health, Islamabad in collaboration with Ministry of Health, Govt. of Pakistan & World Health Organization, on April 7–8, 2003.

18. Attended International Pharmacy Conference & Exhibition on Changing Face of Pharmacy "Better Quality of Life through Pharmacists", organized by Pakistan Pharmacists Association at Pearl Continental Lahore on March 20-23, 2003.
19. Attended International Gynecological Conference organized by All Pakistan Gynaecological Association at Pearl Continental Lahore in February, 2003.
20. Ryla (Rotary Youth Leadership Award), International, 2002.
21. Ryla (Rotary Youth Leadership Award) International Conference, 1999.
22. International DIA Conference, Pearl Continental Lahore, 1998.

(B) - INTERNATIONAL CONFERENCES ATTENDED/PARTICIPATED/ORGANIZED

1. Invited Speaker at WHO Seminar on "Product development and stability studies" 27-29 March, 2016, Hospitality inn, Lahore, Pakistan.
2. Invited Speaker at International Pharmacy Conference and Exhibition, 2016. "Nanotechnology and Gene therapy as future Pharmaceutical and Next Generation Medicines" 21-24 March, PC, Lahore, 2016, Pakistan.
3. Invited Speaker at the Seminar by World Health organization (WHO) on Source Qualification of API "Implementation of Regulations of Biosimilar products in Pakistan" 2015.
4. Invited Speaker, Center of Excellence and Molecular Biology (CEMB), Lahore, Pakistan.
5. Invited Speaker, International Seminar on "Research in Pharmacy: Opportunities for Pharmacists to contribute in Health care system" June 1st 2015, Serene Hotel Quetta, Balochistan, Pakistan.
6. Poster Presentation, International Symposium and Workshop Organized by UKICRS, POP Building, University of Nottingham, United Kingdom, 16-17th of April 2015.
7. Nanofar Meeting on Nanomedicine Organized by UKICRS and School of Pharmacy, University of Nottingham, United Kingdom, 15th of April 2015.
8. Poster Presentation, International Conference RNAi and Gene Silencing, 28-29 March 2015, St Hilda's College University of Oxford, United Kingdom.
9. Poster Presentation, International Conference on Aptamer, 31 March to 1st of April 2015, St Hilda's College University of Oxford, United Kingdom.
10. Poster Presentation, International Conference on Oligos 29-30th March 2015, St Edmundus College, University of Oxford, United Kingdom.
8. Invited Speaker, International Conference on RNAi and Gene Silencing, 24-26 March 2015, Saint Hilda's College University of Oxford, United Kingdom.
9. Invited Guest Speaker, University College of Pharmacy, University of the Punjab, Lahore, Pakistan. 18th March 2015.
10. VIP Invited Guest Speaker, SMI Controlled Release Conference, March 12 to 13 2014, Holiday inn London U.K.
11. Guest speaker UVAS, Pakistan Jan.2014
12. Guest Speaker University College of Pharmacy, University of the Punjab, Lahore, Pakistan, Jan. 2013 Pakistan.
13. Annual Poster session, School of Pharmacy, University of Nottingham, U.K, June.25, (2012)
14. Annual Poster session, School of Pharmacy, University of Nottingham, U.K, June. 12, (2011)
15. Poster Presentation at International FEBS conference on Biomedical engineering and molecular sciences, Island of Spetesis, Athens, Greece: September 11-18. (2010).
16. 13th MipTe-Biovalley, the European leading event of drug discovery, Sep.21 -24-(2010), Basel, Switzerland.
17. 10th February 2010, UK: Investigation of the anti- breast cancer activity of five traditionally used Sudanese medicinal plants, School of Pharmacy, University of Nottingham, U.K.
18. 24th February 2010 : Facile synthesis of responsive nanoparticles with reversible, tunable and rapid thermal transitions from biocompatible constituents,, School of Pharmacy, University of Nottingham, U.K.

19. 24thFeb. 2010 : Novel LXXLL-related motifs in BCL1₁AXL switch COUP-TFII function from an activator to a repressor, School of Pharmacy, University of Nottingham, U.K.
20. 10thMarch 2010 : Inkjet printing as a drug formulation technique, School of Pharmacy, University of Nottingham, U.K.
21. 10thMarch 2010 : Tea Leaves – The effects of brewing on the surface chemistry and addition of aroma molecules, School of Pharmacy, University of Nottingham, U.K.
22. 24thMarch 2010 : Novel Functions of the MOZ double Plant Homeodomain (PHD), School of Pharmacy, University of Nottingham, U.K.
23. 24thMarch 2010 : Responsive Colloidal Dispersions for Reversible Building and Deconstruction of 3D Cell Environments, School of Pharmacy, University of Nottingham, U.K.
24. 31stMarch 2010 : Structural studies of Pseudomonas Quinolone Signal Regulator PqsR, School of Pharmacy, University of Nottingham, U.K.
25. 31stMarch 2010, UK: Photochemical Nano-patterning of a cell responsive surface, School of Pharmacy, University of Nottingham, U.K.
26. 14th April 2010 : Histone and p53 Post Translational Modifications in Breast Cancer, School of Pharmacy, University of Nottingham, U.K.
27. 14th April 2010 : A test bed to explore and exploit the inter-relationships between stem cell differentiation and matrix elasticity, School of Pharmacy, University of Nottingham, U.K.
28. 28th April 2010: An exploration of patient and professional perceptions of the Medicines Use Review (MUR) service - a qualitative investigation, School of Pharmacy, University of Nottingham, U.K.
29. 5th May 2010: Malodor and metabolomics, School of Pharmacy, University of Nottingham, and U.K.
30. 5th May 2010: Polymer Mediated Protein Crystallization, School of Pharmacy, University of Nottingham, U.K.
31. 12th May 2010: New Vaccines for Infectious Diseases, School of Pharmacy, University of Nottingham, U.K.
32. 12th May 2010: Novel Cannabinoid Receptor Ligands, School of Pharmacy, University of Nottingham, U.K.
33. 26th May 2010: An injectable scaffold with sustained rhbmp2 delivery for bone regeneration, School of Pharmacy, University of Nottingham, U.K.
34. 2nd June 2010: Biotherapy without the Beasties: The antimicrobial action of maggots in the context of wound healing, School of Pharmacy, University of Nottingham, U.K.
35. 2nd June 2010: Characterization and Utilization of Diphenylalanine Nanotubes in Drug Delivery, School of Pharmacy, University of Nottingham, U.K.
36. 9 June 2010: Mavenspan Limited "The Drug Industry's Mid-Life Crisis?" School of Pharmacy, University of Nottingham, U.K.
37. 29 June 2010: Friedrich Miescher Institute for Biomedical Research "Hosted by Martin Bushell (Molecular and Cellular Science), School of Pharmacy, University of Nottingham, U.K.
38. 30th June 2010: Discovery and synthesis of non ATP-competitive Polo like kinase 1 inhibitors, School of Pharmacy, University of Nottingham, U.K.
39. 7th July 2010: Identical of Novel inhibitors of mycobacterium tuberculosis Enoyl Reductase: Towards Structure-based drug design for Tuberculosis, School of Pharmacy, University of Nottingham, U.K.
40. 7th July 2010, Nanoparticle delivery across epithelium *via* transcytosis, School of Pharmacy, University of Nottingham, U.K.
41. 21 July 2010: Social Research in Medicines and Health, School of Community Health Science, University of Nottingham, U.K.
42. 28 July 2010: Department of Haematology, School of Medicine, Cardiff University "NF-KB as a promising, University of Nottingham, U.K.
43. August 2010, Therapeutic target in chronic lymphocytic leukaemia" Hosted by S Wang (Medical Chemistry and Structural Biology), University of Nottingham, U.K.

22- COUNTRIES VISITED FOR RESEARCH/ACADEMIC PURPOSE

1. United States of America
2. United Kingdom
3. Switzerland
4. Holand
5. Greece
6. Turkey
7. Saudi Arabia
8. Uzbekistan

23- REFERENCES:

- 1- Professor Dr. K.A Khan Nottingham, Email: karrak.k@ntlworld.com
- 2- Dr. Martin C. Garnett, School of Pharmacy, University of Nottingham,
[U.K. Martin.garnett@nottingham.ac.uk](mailto:U.K.Martin.garnett@nottingham.ac.uk).
- 3- Dr. Franco H. Falcone, School of Pharmacy, University of Nottingham,
[U.K. Franco.Falcone@nottingham.ac.uk](mailto:U.K.Franco.Falcone@nottingham.ac.uk).