



FACULTY FULL NAME: FIRDOS ALAM KHAN

POSITION: PROFESSOR

Personal Data

Nationality | INDIAN

Date of Birth | MAY 1ST, 1969

Department | INSTITUTE FOR RESEARCH & MEDICAL CONSULTATIONS (IRMC)

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Language Proficiency

Language	Read	Write	Speak
Arabic	Yes	Yes	No
English	Yes	Yes	Yes
Urdu	Yes	Yes	Yes

Academic Qualifications (Beginning with the most recent)

Date	Academic Degree	Place of Issue	Address
October 1997	PhD Neuroscience	Nagpur, India	Nagpur, India
March 1994	MSc Zoology	Nagpur, India	Nagpur, India
March 1990	BSc Zoology, Chemistry, Botany	Nagpur, India	Nagpur, India

PhD, Master or Fellowship Research Title: (Academic Honors or Distinctions)

PhD	Studies on some neuroactive substances containing systems in the brain of <i>Clarias batrachus</i> (Linn.): Structure-Function Correlates
Master	
Fellowship	

Professional Record: (Beginning with the most recent)

Job Rank	Place and Address of Work	Date
Professor	Department of Stem Cell Biology, Institute for Research & Medical Consultations, Imam Abdulrahman Bin Faisal University, Dammam, Saudi Arabia	Sept 2017



Professor		School of Life Sciences, Manipal University Dubai Campus, Dubai, United Arab Emirates	Sept 2009 to Jun 2017
Associate Professor		School of Life Sciences, Manipal University Dubai Campus, Dubai, United Arab Emirates	Dec-2005-August 2009
Research Scientist/Assistant Professor Rank		Embryonic Stem Cell Laboratory, Reliance Life Sciences, Mumbai, India	Aug 2002-Nov-2005
Postdoctoral Associate		Department of Brain and Cognitive Sciences, Massachusetts Institute of Technology (MIT), Cambridge, Massachusetts 02139 USA.	Nov-1998-May-2001

Administrative Positions Held: (Beginning with the most recent)

Administrative Position	Office	Date
Chairman	Department of Stem Cell Biology, Institute for Research & Medical Consultations, Imam Abdulrahman Bin Faisal University, Dammam, Saudi Arabia	Since September 2017
Chairperson	School of Life Sciences, Manipal University Dubai Campus, Dubai, United Arab Emirates	Dec 2005 to Jun 2017

Scientific Achievements

Published Refereed Scientific Researches (Major Publications)

(In Chronological Order Beginning with the Most Recent)

#	Name of Investigator(s)	Research Title	Publisher and Date of Publication
1	Firdos Alam Khan, Dana Almohazey, Munthar Alomari, and Sarah Ameen Almofty.	Impact of nanoparticles on neuron biology: current research trends.	International Journal of Nanomedicine. 2018; 13: 2767–2776. Published online 2018 May 9. PMID: 29780247; https://doi:10.2147/IJN.S165675
2	Firdos Alam Khan, Sultan Akhtar, Sarah Ameen Almofty, Dana Almohazey and Munthar Alomari.	FMSP-Nanoparticles Induced Cell Death on Human Breast Adenocarcinoma Cell Line (MCF-7 Cells): Morphometric Analysis.	Biomolecules 2018, 8(2), 32. DOI: 10.3390/biom8020032
3	Firdos Alam Khan, Sultan Akhtar, Dana Almohazey, Munthar Alomari, Sarah Ameen Almofty & Abdelhamid Eliassari.	Fluorescent magnetic submicronic polymer (FMSP) nanoparticles induce cell death in human colorectal carcinoma cells.	Artificial Cells, Nanomedicine, and Biotechnology, DOI: 10.1080/21691401.2018.1491476
4	Firdos Alam Khan, Sultan Akhtar, Dana Almohazey, Munthar Alomari and Sarah Almofty.	Extracts of clove (<i>Syzygium aromaticum</i>) potentiate FMSP-nanoparticles induced cell death in MCF-7 cells.	International Journal of Biomaterials. DOI: 10.1155/2018/8479439
5	Firdos Alam Khan, Dana Almohazey, Munthar Alomari and Sarah Almofty.	Isolation, Culture and Functional Characterization of Human	Stem Cell International. DOI: 10.1155/2018/1429351



		Embryonic Stem Cells: Current Trends and Challenges.	
6	Mary VM, Lahijani HA, Khan FA.	Ozone Induced Cell Death in HeLa cell Culture Mediated through Stimulation of TNF- Alpha.	MOJ Immunol 2(4): 00051. DOI: 10.15406/moji.2015.02.00051.
7	Dravida S, Pal R, Khanna A, Tipnis SP, Ravindran G, Khan F.	The transdifferentiation potential of limbal fibroblast-like cells.	Brain Res Dev Brain Res. 7;160(2):239-51.
8	Khan, FA., Saha, SG., Sarkar, A., and Subhedar, N.	B-Endorphin in the olfactory system, forebrain and pituitary of the teleost, <i>Clarias batrachus</i> (Linn).	General and Comparative Endocrinology 1999 Feb;113 (2):290-301.
9	Khan, FA., Jain, MR., Saha, SG., and Subhedar, N.	FMRFamide-like immunoreactivity in the olfactory system responds to morphine treatment in the teleost <i>Clarias batrachus</i> : Involvement of opiate receptors.	General and Comparative Endocrinology 1998 Apr;110 (1):79-87.
10	Subhedar, N., Khan, FA., and Jain, MR.	Calcitonin-like immunoreactivity in the subcommissural organ and Reissner's fiber in the teleost <i>Clarias batrachus</i> , frog <i>Rana tigrina</i> and lizard <i>Calotes versicolor</i> .	Brain Research 1997 Mar 14; 751 (1):13-9
11	Burade, VS., Jain, MR., Khan, FA., Saha, SG., and Subhedar, N.	Involvement of corticosteroid-like neurosteroids in pentobarbital-induced sleep.	NeuroReport 8:139-141. (1994)
12	Subhedar, N., Deshmukh, MK., Jain, MR., Khan, FA., and Krishna, NS.	Activation of hypothalamic neurons by intraovarian pressure signals in a teleost fish, <i>Clarias batrachus</i> : role of mechanosensitive channels	Brain Behavior & Evolution. 47:179-184 (1996)
13	Jain, MR., Khan, FA., Krishna, NS., and Subhedar, N.	Intracranial metyrapone stimulates CRF-ACTH axis in the teleost, <i>Clarias batrachus</i> : possible role of neurosteroids.	NeuroReport 1994 27;5 (16):2093-2096. (1994)

Refereed Scientific Research Papers Accepted for Publication

#	Name of Investigator(s)	Research Title	Journal	Acceptance Date
1	Sarah Mouas Asiri, Firdos Alam Khan, Ayhan Bozkurt	Synthesis of chitosan nanoparticles, chitosan-bulk, chitosan nanoparticles conjugated with glutaraldehyde with strong anti-cancer proliferative capabilities	Artificial Cells, Nanomedicine, and Biotechnology,	October 2018

Scientific Research Papers Presented to Refereed Specialized Scientific Conferences (Major

#	Name of Investigator(s)	Research Title	Conference and Publication Date
1	Khan, F.A. (2010).	In vitro generation of GABAergic neurons from mammalian embryonic stem cells	June 16-19, 2010, San Diego, California, USA.



		(abstract). International Society for Stem Cell Research 8th Annual Meeting,	
2	Khan, FA., and Subhedar, N.	Calcitonin-like immunoreactivity in the subcommissural organ and Reissner's fiber of the catfish, frog, and lizard (Abstract). Joint Meeting of the International Society for Neurochemistry	American Society for Neurochemistry held at Boston, MA, USA. 1997
3	Khan, FA., Jain, MR., Saha, SG., Burade, SG., and Subhedar, N.	Response of GnRH-immunoreactive system in the forebrain of the teleost, Clarias batrachus to opiate treatment. ((Abstract). Journal of Neurochemistry 63(Suppl.2),pp. S16. 1996
4	Khan, FA., Saha, SG., Burade, VS., and Subhedar, N. (1996).	Response of FMRFamide-like immunoreactivity in the olfactory system to intracranial morphine administration in the teleost, Clarias batrachus.	(Abstract). First Congress of the Federation of Asian-Oceania Neuroscience Societies and First IBRO Regional Congress, Pattaya, Thailand, pp. 112. 1996

Patents Granted/ Applied

#	Name of Inventors (Supported by)	Patent Title	Report Date
1	Firdos Alam Khan and Satish Totey	In vitro generation of GABAergic neurons from embryonic stem cells and their use in the treatment of neurological disorders.	United States Patent # 7,820,439; Issue date: 10-26-2010
2	Firdos Alam Khan and Satish Totey	Establishment of a human embryonic stem cell line using mammalian cells.	United States Patent # 7, 8211, 817; Issue date: 10-12-2010
3	Firdos Alam Khan and Satish Totey	Pluripotent embryonic-like stem cells derived from corneal limbus, methods of isolation and uses thereof.	United States Patent Application No: 8,067,233, Issue Date: 29 November 2011.

Books Published

#	Name of Author	Book Title	Report Date
1	Firdos Alam Khan	Biotechnology Fundamentals- 2nd Edition	(2015) Published by CRC Press (Taylor and Francis Group, USA) http://www.amazon.com/Biotechnology-Fundamentals-Second-Firdos-Alam/dp/149872342X/ref=sr_1_1?s=books&ie=UTF8&qid=1453722392&sr=1-1&keywords=firdos
2	Firdos Alam Khan	Biotechnology in Medical Sciences	(2014) Published by CRC Press (Taylor and Francis Group, USA) http://www.amazon.com/Biotechnology-Medical-Sciences-Firdos-Alam/dp/1482223678/ref=sr_1_1?ie=UTF8&qid=1402288233&sr=8-1&keywords=firdos

Current Researches



#	Research Title	Name of Investigator(s)
1	Efficient Method of Production of GABAergic Neurons Derived from Human Cord Blood Stem Cells by Using Nanoparticles” granted by Dean of Scientific Research, Imam Abdulrahman Bin Faisal University, Dammam, Saudi Arabia	Firdos Alam Khan
2	Impact of nanoparticles and biomaterials on cancer cells biology: In vitro and cellular assay	Firdos Alam Khan, Ayhan Bozkurt, Sultan Akhtar

Contribution to Scientific Conferences and Symposia

#	Conference Title	Place and Date of the Conference	Extent of Contribution
1	World Bio Summit & Expo November 02-04, 2015 Dubai, UAE	Invited lecture on topic “Adult human limbal-corneal tissue possessed the self-renewing and multi-lineage differentiation Capacity	Invited Speaker
	4th Middle East Conference on Healthcare Informatics on 22-24 April 2013 at Hotel Crown Plaza, Dubai, UAE.	Structure-Based Drug Discovery: Accomplishments & Challenges	Invited Lecture
	9th International Conference on Innovation in Information Technology and Workshop organized by College of Information Technology, UAE University, Al Ain, UAE on March 17th, 2013.	Role of Information Technology in Drug Discovery	Keynote Speaker
	First genetics and Biotechnology Conference, held at Zayed University, Dubai, on December 21, 2009.	Future of Genetics & Biotechnology Field	Invited Lecture
	Bombay Hospital, March 2003	Stem cell therapy for Neurological Disorder	Invited lecture

Membership of Scientific and Professional Societies and Organizations

- International Brain Research Organization (IBRO)
- Society for Neuroscience
- Neuroscience Society of India

Teaching Activities

Undergraduate



#	Course/Rotation Title	No./Code	Extent of Contribution (no. of lectures/Tutorials. Or labs, Clinics)
1	Pharmacology -BSc Biotechnology at Manipal University Dubai	BBT-201	48 lectures/Semester Taught for 5 years
2	Business of Biotechnology -BSc Biotechnology at Manipal University Dubai	BBT-305	48 lectures/Semester Taught for 5 years
3	Biomedicine -BSc Biotechnology Honors at Manipal University Dubai	BBT-402	48 lectures/Semester Taught for 5 years

Postgraduate

#	Course/Rotation Title	No./Code	Extent of Contribution (no. of lectures/Tutorials. Or labs, Clinics)
1	Cell Biology -MSc Medical Biotechnology MSc Molecular Biology & Human Genetics at Manipal University Dubai	MMB-101	48 lectures/Semester Taught for 10 years
2	Bioethics & IPR -MSc Medical Biotechnology at Manipal University Dubai	MMB-201	48 lectures/Semester Taught for 8 years
3	Cell & Tissue Engineering MSc Medical Biotechnology at Manipal University Dubai	MMB-202	48 lectures/Semester Taught for 3 years

Course Coordination

#	Course Title and Code	Coordination	Co-coordination	Undergrad.	Postgrad	From	To
1	BSc Biotechnology	Chair		BSc Biotechnology	.	2005	2017
2	MSc Medical Biotechnology	Chair		MSc Medical Biotechnology		2007	2017

Student Academic Supervision and Mentoring

#	Level	Number of Students	From	To
1	BSc	370	2005	2017
2	MSc	100	2007	2017



Supervision of Master and/or PhD Thesis

#	Degree Type	Title	Institution	Date
1	PhD	Analysis of Dietary Bioactive Compounds as Epigenetic Modifiers in Cancer Prevention	School of Life Sciences, Manipal University Dubai Campus, UAE	2015-2018
2	MSc	In vitro cell culture analysis of ozone induced cell death in human cancer cell line	School of Life Sciences, Manipal University, Dubai, UAE	2008-2010
3	MSc	To study the effect of medical ozone-induced cell death in human cancer cell line mediated by TNF-alpha	School of Life Sciences, Manipal University, Dubai, UAE	2008-2010

Administrative Responsibilities, Committee and Community Service (Beginning with the most recent)

Administrative Responsibilities

#	From	To	Position	Organization
1	Dec 2017	Till to date	Core Member of Graduate Committee for master's Program (master's in biotechnology & Entrepreneurship & Master in Nanotechnology & Entrepreneurship),	Institute for Research & Medical Consultations, Imam Abdulrahman Bin Faisal University, Dammam, Saudi Arabia
2	Dec 2013	June 2017	Chairman, Research & Development Program	Manipal University Dubai Campus, UAE
3	March 2006	March 2017	Chairperson of organizing committee for annual Biotechnology meets (Bio-Trends) held every year at Manipal University Dubai.	Manipal University Dubai Campus, UAE

Editorial Board Member

#	From	To	Position	Name of Journal
1	2010	Till to date	Associate Editor	3 Biotech (Springer Nature Publication)
2	2017	Till to date	Reviewer	Oncotarget (Nature Publication)

Volunteer Work

#	From	To	Type of Volunteer	Organization
1	2006	2017	Chief coordinator, Blood Donation Camp	Al Wasl Hospital, Dubai, UAE



UNIVERSITY PRESENTATION- ACADEMIC AFFAIRS

- Chair-Board of Studies for Biotechnology discipline at Manipal University Dubai
- Member, Board of Studies for Manipal University India and Dubai
- Member, Student Disciplinary Committee at Manipal University Dubai
- Member of University Examination Committee

Personal Key Competencies and Skills:

- 1 Pluripotent stem cells
- 2 Neural stem cells differentiation
- 3 Stem cell transplantation (preclinical)
- 4 GLP and GMP level production of stem cells
- 5 Anti-cancer molecules bioassay
- 6 In vitro and In vivo testing of Nanoparticles or Biomaterials

Social Media Association:

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Google Scholar: <https://scholar.google.ae/citations?user=fGILR-YAAAAJ&hl=en>

ResearcherID: <http://www.researcherid.com/rid/A-5190-2017>

LinkedIn: www.linkedin.com/in/firdoskhan1969

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20/11/2018

