

# CURRICULUM VITAE

## CONTACT DETAILS

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Father: Mr. Iqbal Khan

DOB:12/10/1985

Languages: English, Hindi, Urdu,  
Arabic

Citizenship: India

## RESEARCH INTERESTS

### **Clinical Biochemistry;**

Cardiovascular Pharmacology; Drug  
Discovery; Molecular Biology; Free  
Radical Biology; Natural product;  
Bioinformatics.

Paper Published: 11

Abstract Published: 17

## ACADEMIC REFEREES

### **1. Dr. M. Salman Khan**

Associate professor,  
Dept. of Biosciences, Integral  
University, Lucknow, U.P. India.

Mobile no.: 09452614072

Email id: [mskhan@iul.ac.in](mailto:mskhan@iul.ac.in)

### **2. Dr. Rajeev Kr. Sharma**

#### **Director,**

PCIM, Ministry of AYUSH,  
Ghaziabad, U.P. India.

Mobile no.: 09899564166

Email id: [rajeevplim@yahoo.co.in](mailto:rajeevplim@yahoo.co.in)

### **3. Dr. Faiyaz Ahmad**

Staff Scientist

Cardiovascular Pulmonary Branch,  
NHLBI, NIH, Bethesda, MD 20892,  
USA.

Email: [ahmadf@nhlbi.nih.gov](mailto:ahmadf@nhlbi.nih.gov)

## **Dr. DANISH IQBAL**

دانش

### **Experience:**

More than 6 years at teaching  
(academic) and research positions



## **PROFESSIONAL EXPERIENCE:**

April 2016-Till Date: **Assistant Professor**, Department of  
Medical Laboratory Sciences, Majmaah University, Saudi  
Arabia.

September 2015- March 2016: **Assistant Professor**, School of  
Biotechnology, IFTM University, Moradabad, U.P., India.

August 2012- July 2015: **JRF**, Department of Science and  
Technology, under SERB Project, Govt. of India

August 2010-July 2012: **Teaching supporting staff** (Lab-  
Instructor), Integral University, Lucknow, U.P., India

October 2009-August 2010: **Teacher** (Lecturer), G.F. (P.G.)  
College (MJP Rohilkhand University), Shahjahanpur, U.P,  
India

February 2009-May 2009: **Trainee** (M.Sc.), PLIM, Ministry  
of Health and Family Welfare, Ghaziabad, U.P., India

## **PATENT:**

Patent application No: 308/DEL/2014

Dated: 03/02/2014 (10:54:31)

Publication Date: 20/06/2014

Title of the invention: Use of *Ficus virens* Ait Extract and  
Novel Compound Isolated Therefrom against 3-Hydroxy-3-  
Methylglutaryl-CoA Reductase Inhibitory Activity,  
Hyperlipidemia And Oxidative Stress

## **ABOUT ME:**

I have more than 6 years of experience as part time faculty  
member and research scholar under DST sponsored project.  
One patent has been filed at IPO, New Delhi, India. During  
my academic career I have published 11 research papers in  
international journals having good impact factor. During the  
period I have attended 15 Conferences/Workshop/Seminar. I  
have been awarded as **Best Presentation Award** at AMU,  
Aligarh, India.

## **OBJECTIVE:**

To utilize my skills and abilities, where I can contribute to the organizational goals, growth and strength there by simultaneously acquire new skills in the service of mankind.

## **DOCTOR OF PHILOSOPHY (Ph. D.):**

**Ph.D. Topic:** Therapeutic Impact of *Ficus virens* Ait. and *Ficus palmata* Forsk. Extract and their Bioactive Constituents on Cigarette Smoke Induced Oxidative Stress and Hyperlipidemia: An *In-vivo* and *In-silico* Study

Supervisor: Dr. M. Salman Khan

Co-supervisor: Dr. Mohd. Sajid Khan

Department of Biosciences, Integral University, Lucknow, U.P., India.

## **RESEARCH PROFILE:**

- My Ph.D. research work was supported through SERB, DST, Government of India (SR/FT/LS-43/2011).

- I have sound knowledge of Lipoprotein Biochemistry, Enzyme inhibition kinetics, Animal cell culture and Bioinformatics as well as in Bioassay guided isolation, purification and characterization of active chemical compound from plant origin.

- **Bioactivity guided fractionation of plant extract and *in-vitro* analysis**

- **Enzyme inhibition kinetics**

- **Molecular informatics study**

- **Candidate drugs in pipe line, animal model**

Novel bioactive compound (n- Octadecanyl-O-  $\alpha$ -D-glucopyranosyl (6'→1'') -O-  $\alpha$ -D-glucopyranoside) and plant extract was also evaluated for their *in-vivo* hypolipidemic and antioxidant property in triton-induced animal model (**Iqbal *et al.*, 2015**).

One patent has been filed for this study at IPO, New Delhi, India (**Patent application No: 308/DEL/2014**).

- **Risk factor induced animal model and biochemical analysis**

I make cigarette smoking-exposed hyperlipidemic animal model to check the hypolipidemic potential of FVBM fraction/bioactive compound and found that these drugs showed a comparable effect with standard drug atorvastatin.

Plasma, liver and lungs lipid analysis (TC, TG).

Plasma lipoprotein profile analysis (LDL-C, HDL-C, VLDL-C).

Hepatic HMG-CoA reductase assay.

Blood nicotine and carbon monoxide saturation assay.

Assay for lipid peroxidation in plasma, erythrocytes, liver and lungs.

Assay for antioxidant defense systems (CAT, SOD, GST, Gpx, GSH and Gred) of liver and lungs.

Histopathological study of liver and lung sections.

- **I am also well versed in fermentative production, pure culture techniques (Streak plate, Spread plate), colony counting, antibiotic susceptibility testing.**

## PUBLICATIONS:

### PAPERS PUBLISHED: 11

1. Danish Iqbal, M. Salman Khan, Amir Khan, Saheem Ahmad. Extenuating the role of *Ficus virens* Ait and its novel bioactive compound on antioxidant defense system and oxidative damage in cigarette smoke exposed rats. *Biomedical Research and Therapy* 2016, 3(7): 723-732.
2. Iqbal D and Ahmad N. Cardiovascular Diseases and its Treatment. *SM J Pharmac Ther.* 2016; 2(1): 1009.
3. Khushtar, M., Siddiqui, H. H., Dixit, R. K., Khan, M. S., **Iqbal, D.**, & Rahman, M. A. Amelioration of gastric ulcers using a hydro-alcoholic extract of Triphala in indomethacin-induced Wistar rats. *European Journal of Integrative Medicine.* 2016.
4. Alvi SS, **Iqbal D**, Ahmad S, Khan MS. "Molecular rationale delineating the role of lycopene as a potent HMG-CoA reductase inhibitor: in vitro and in silico study." *Nat Prod Res.* 2015 Nov 7:1-4.
5. **Danish Iqbal**, M. Salman Khan, Mohd. Sajid Khan, Saheem Ahmad, Md. Sarfaraj Hussain & Mohd. Ali "Bioactivity Guided Fractionation and Hypolipidemic Property of a Novel HMG-CoA reductase Inhibitor from *Ficus virens* Ait." *Lipids in Health and Disease*, 2015, 14: 1-15.
6. **Danish Iqbal**, M. Salman Khan, Amir Khan, Mohd. Sajid Khan, Saheem Ahmad, Ashwani k Srivastava and Paramdeep Bagga "In-vitro Screening for  $\beta$ -hydroxy- $\beta$ -methylglutaryl-CoA Reductase Inhibitory and Antioxidant Activity of Sequentially Extracted Fractions of *Ficus Palmata* Forsk" *BioMed Research International*, manuscript number 762620, 2014.
7. **Danish Iqbal**, M. S. Khan, M. S. Khan, S. Ahmad, A. K. Srivastava, "An *In Vitro* and Molecular Informatics Study to Evaluate the Antioxidative and  $\beta$ -hydroxy-  $\beta$ -methylglutaryl-CoA Reductase Inhibitory Property of *Ficus virens* Ait," *Phytotherapy Research*, 28 (6); 899-908, 2014.
8. F. Akhter, A. Hashim, M.S. Khan, S. Ahmad, **D. Iqbal**, A.K. Srivastava, M.H. Siddiqui, "Antioxidant,  $\alpha$ -amylase inhibitory and oxidative DNA damage protective property of *Boerhaavia diffusa* (Linn.) root," *South African Journal of Botany*, vol. 88, pp. 265-272, 2013.
9. **Danish Iqbal**, Raju K. Pawar, Rajeev Kr. Sharma. Physico-Chemical and Chromatographic (HPTLC) Standardization of *Holoptelea Integrefolia* (Stem Bark), *Journal of Recent Advances in Applied Science.* 2012; 27: 75-79.
10. Mujahid M, Sharma M, Aqil M, **Iqbal D** and Prem Kapur. Drug Utilization and Adverse Drug Reaction Monitoring in NSAID users in a South Delhi Hospital, *International Journal of Research in Pharmacy and Chemistry.* 2012, 2(1): 103-108.
11. **Danish Iqbal**, Raju K. Pawar, Rajeev Kr. Sharma. Physico-chemical Standardization of *Butea monosperma* (Lam.) Kuntze (Palasha): An Ayurvedic Drug, *International Journal of Pharmaceutical Quality Assurance* 2010; 2(1): 49-51.

## PAPERS PRESENTED IN CONFERENCE

### ABSTRACTS PUBLISHED: 17

#### International:

1. **Danish Iqbal** and M. Salman Khan. “**International Conference On Biotechnological Advancements In Free Radical Biology And Medicine**” 14TH -16TH NOV, 2015. Integral University, Lucknow, U.P., India.
2. **Danish Iqbal** and M. Salman Khan. “**International Conference and Exhibition on Biochemical & Molecular Engineering.**” October 07-08, 2013 Hilton San Antonio Airport, TX, USA. *Biochem Anal Biochem* 2013, 2:4 <http://dx.doi.org/10.4172/2161-1009.S1.003>.
3. **Danish Iqbal**, M. Salman Khan, Saheem Ahmad, Ashwani K. Srivastava. (P-47; pg no. 105) “**3<sup>rd</sup> Annual Meeting of the IABS & Symposium on Modern trend in Human Diseases**” held on Dec 14 & 15, 2013 at Department of Biochemistry, Faculty of Medicine, JNMC, AMU, Aligarh, U.P., India.
4. Fahad Khan, **Danish Iqbal Khan**, Mohd. Salman Khan and Irfan Ahmad Ansari. (P-47; pg no. 105) “**3<sup>rd</sup> Annual Meeting of the IABS & Symposium on Modern trend in Human Diseases**” held on Dec 14 & 15, 2013 at Department of Biochemistry, Faculty of Medicine, JNMC, AMU, Aligarh, U.P., India.
5. Sahir Sultan Alvi, **Danish Iqbal** and M. Salman Khan. (P-51; pg no. 109) “**3<sup>rd</sup> Annual Meeting of the IABS & Symposium on Modern trend in Human Diseases**” held on Dec 14 & 15, 2013 at Department of Biochemistry, Faculty of Medicine, JNMC, AMU, Aligarh, U.P., India.
6. **Danish Iqbal** and MS Khan. (P-42; pg no. 188) SFRR STAR 2013 International conference on “**Advance in Free Radicals, Redox Signalling and Translational Antioxidant Resesarch & XII Annual Meeting of the Society for Free Radical Research-India**” held on Jan 30-Feb 01, 2013, at CSIR-Indian Institute of Toxicology Research, Lucknow (U.P.) India.

#### National:

1. **Danish Iqbal** and M. Salman Khan. “**27<sup>th</sup> Annual National Conference and International CME**” (PP-06; pg no. 96) November 25<sup>th</sup> – 27<sup>th</sup>, 2014 at Department of Pathology, K.G.M.U., U.P., India.
2. M. Salman Khan, **Danish Iqbal**, Mohd. Sajid Khan, Saheem Ahmad, Md. Sarfaraj Hussain and Mohd. Ali. “**27<sup>th</sup> Annual National Conference and International CME**” (pg no. 78) November 25<sup>th</sup> – 27<sup>th</sup>, 2014 at Department of Pathology, K.G.M.U., U.P., India.
3. **Danish Iqbal**, Arshya Hashim, Firoz Akhter and M. Salman Khan. National Seminar on “**Reactive Oxygen Species: Roles in Animal and Plant Biology**” (PB-21; pg no. 59-60)

held on 23-24 Dec., 2011, at Department of Biochemistry, Lucknow University, Lucknow (U.P.) India.

4. Firoz Akhter, Arshya Hashim, **Danish Iqbal**, M. Salman Khan and Haris Siddiqui. National Seminar on “**Reactive Oxygen Species: Roles in Animal and Plant Biology**” (PB-16; pg no. 56-57) held on 23-24 Dec., 2011, at Department of Biochemistry, Lucknow University, Lucknow (U.P.) India.

5. M. Salman Khan, **Danish Iqbal**. Cardiovascular Diseases *INSPIRE* Internship Programme, 16<sup>th</sup> to 20<sup>th</sup> November 2011.

6. Alka Sagar, Manoj Sharma, V.P. Singh and **Danish Iqbal**. National conference (UGC & DBT sponsored) on “**Recent Trends in Environmental Biotechnology for Sustainable Development**”. 28 March, 2010.

7. **Danish Iqbal**, Raju K. Pawar, Rajeev Kr. Sharma. National conference (UGC & DBT sponsored) on “**Recent Trends in Environmental Biotechnology for Sustainable Development**”. 28 March, 2010.

8. **Danish Iqbal**, Rajeev Kumar Sharma, Amreen Iqbal, Swapanil Yadav, Alka Sagar and Archana Pal. National conference on **Challenges in Life sciences with Changing Environment**. February 20-21, 2010.

9. Alka Sagar, Manoj Sharma, **Danish Iqbal** and Archana Pal. 3<sup>rd</sup> National conference on “**Leads for Futuristic Biotechnological Inputs; Indian Context**” held on 26-27 March, 2010.

10. **Danish Iqbal** and swapanil Yadav. 3<sup>rd</sup> National conference on “**Leads for Futuristic Biotechnological Inputs; Indian Context**” held on 26-27 March, 2010.

11. **Danish Iqbal**, Raju k. Pawar, Rajeev Kr. Sharma. National Symposium on “**Biodiversity & Food Security- Challenges & Devising Strategies**” Indian Institute of Pulses Research, Kanpur (U.P.) India. 10-11 Dec., 2011.

#### **DISTINCTION/ AWARDS**

- Received **Best Poster Presentation Award** at “**3<sup>rd</sup> Annual Meeting of the IABS & Symposium on Modern trend in Human Diseases**” held on Dec 14 & 15, 2013 at Department of Biochemistry, Faculty of Medicine, JNMC, AMU, Aligarh, India.
- Member in National Workshop on Nanomedicine, “**Role of Nanomedicines as therapeutic Agents against Multi-Drug Resistant Pathogens**” NWN-2014, held on 7-9 March, 2014 at department of Biosciences, Integral University, Lucknow, U.P., India.
- Secretary in **Aqsa Educational Welfare Society** for education and development, Lucknow, U.P., India

- Volunteer in *INSPIRE* Internship Program sponsored by Department of Science and Technology (DST), Ministry of Science and Technology, Government of India, New Delhi held at Department of Biotechnology, Integral University, Lucknow from 16<sup>th</sup> to 20<sup>th</sup> November 2011.
- Volunteer in National Symposium on “**Biodiversity & Food Security- Challenges & Devising Strategies**” Indian Institute of Pulses Research, Kanpur (U.P.) India. 10-11 Dec., 2011.

#### **WORKSHOPS ATTENDED:**

1. National workshop on nanomedicine “Role of Nanomedicines as Therapeutic Agents Against Multi-drug Resistant Pathogens” 7<sup>th</sup> March 2014-9<sup>th</sup> March 2014 at Department of Biosciences, Integral University, Lucknow
2. "First National Workshop on Computer Aided Drug Designing” November 9 and 10, 2013. Department of Bioengineering, Faculty of Engineering, Integral University in collaboration with Bio-EGICORE, Dept. of Life-Sciences, EGICORE at Integral University.
3. FAC Study Program: Workshop on Basics of Flow Cytometry” 21<sup>st</sup>-22<sup>nd</sup> May 2013 organized by Becton Dickinson (BD) India Pvt. Ltd. at Integral University, Lucknow
4. National level workshop on “Fundamentals of Nanoscience & Biotechnology” 28<sup>th</sup> – 31<sup>st</sup> January, 2013 at Department of Bioengineering, Faculty of Engineering, Integral University.

#### **EDUCATIONAL QUALIFICATION**

##### **Master of Science**

Subject: Biotechnology  
 Project Work: Natural Product, HPTLC  
 Year: 2007-2009  
 University: Ch. Charan Singh University,  
 Meerut, U.P., India  
 Percentage: 69.6 %

##### **Intermediate**

Subject: Biology, Physics,  
 Chemistry, Hindi, English  
 Year: 2002  
 Board: U.P. Board

##### **Bachelor of Science**

Subject: Biotechnology  
 Year: 2004-2007  
 University: Ch. Charan Singh  
 University, Meerut, U.P., India  
 Percentage: 63 %

##### **High School**

Subject: Science, Maths, Hindi,  
 English, Commerce, S. Sc.  
 Year: 2000  
 Board: U.P. Board

**DECLARATION:** All the information furnished in this document is true and given a chance I assure that I will do my best.

**Date:**

**Place:**

**Dr. DANISH IQBAL**