



FACULTY FULL NAME: SHAHANAS CHATHOTH

POSITION: ASSISTANT PROFESSOR

Personal Data

Nationality | INDIAN

Date of Birth | 20-10-1978

Department | BIOCHEMISTRY

Official UoD Email | schathoth@iau.edu.sa

Office Phone No. |

Language Proficiency

Language	Read	Write	Speak
Arabic	Yes	Yes	No
English	Yes	Yes	Yes
Hindi	Yes	Yes	Yes
Malayalam	Yes	Yes	Yes
Tamil	Yes	No	Yes

Academic Qualifications (Beginning with the most recent)

Date	Academic Degree	Place of Issue	Address
2010	PhD - Biotechnology	India	Acharya Nagarjuna University
2007	MPhil	India	Acharya Nagarjuna University
2003	MSc	India	Periyar University
2000	BSc	India	Kannur University

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

PhD	Purification and Characterization of neutral Ceramidase from camel brain and Cellular signalling mechanisms in UVC-induced apoptosis of camel fibroblast cell line Dubca.
Master	An Investigation on intracloal variability of rooted cuttings of black pepper (<i>Piper nigrum</i>) using molecular biology technique Random Amplified Polymorphic DNA (RAPD).
Fellowship	



Professional Record: (Beginning with the most recent)

Job Rank	Department	Place and Address of Work	Date	
Assistant Professor	Biochemistry	Imam Abdulrahman Bin Faisal University, Dammam, KSA	16-09-2017	Till Date
Assistant Professor	IRMC	Imam Abdulrahman Bin Faisal University, Dammam, KSA	10-12-2010	15-09-2017
Research Assistant	Biochemistry	UAE University	Jan. 2005	May. 2010

Administrative Positions Held: (Beginning with the most recent)

Administrative Position	Office	Date
Mentor – Saudi-Aramco Research Science Initiative (SARSI)	IRMC, Imam Abdulrahman Bin Faisal University, Dammam, KSA	2015-2017
Mentor – MOWHIBA program	IRMC, Imam Abdulrahman Bin Faisal University, KSA	2015-2017

Scientific Achievements

Published Refereed Scientific Researches

(In Chronological Order Beginning with the Most Recent)

#	Name of Investigator(s)	Research Title	Publisher and Date of Publication
1	Shahanas Chathoth Mona H Ismail Chittibabu Vatte Cyril Cyrus Zhara Al Ali Sadananda Acharya Aisha M Al Barqi Khandaker A Ahmed Amein Al Ali	Association of Uncoupling Protein 1 (UCP1) gene polymorphism with obesity: A case-control study.	BMC Medical Genetics, 2018
2	Cyril Cyrus Samir Al-Mueilo Chittibabu Vatte Shahanas Chathoth Yun R. Li Hatem Qutub Rudaynah Al Ali Fahad Al-Muhanna Matthew B. Lanktree Khaled R Alkharsah	Assessing known chronic kidney disease associated genetic variants in Saudi Arabian populations.	BMC Nephrology, 2018



	Abdullah Al-Rubaish Brian Kim-Mozeleski Brendan Keating Amein Al Ali		
3	Cyril Cyrus Mona Hassan Ismail Shahanas Chathoth Chittibabu Vatte Majd Hasen Amein Al Ali	The Impact of Common Polymorphisms in FTO and MC4R Gene with the Risk of Severe Obesity in Saudi Arabian Population.	Genetic Testing and Molecular Biomarkers, 2018
4	Haytham Al-Mahalawy Hatem Abuohashish Shahanas Chathoth Naif Al-Masoud Badr Al-Jandan	Articaine Versus Lidocaine Concentration in the Palatal Tissues After Supraperiosteal Buccal Infiltration Anesthesia.	Journal of Oral and Maxillofacial Surgery, 2018
5	Chittibabu Vatte Ali M Al Amri Cyril Cyrus Shahanas Chathoth Sadananda Acharya Tariq M Hashim Zhara Al Ali Saleh T Alshreadah Ahmed Alsayyah Amein K Al-Ali	Tyrosine kinase domain mutations of EGFR gene in head and neck squamous cell carcinoma.	Onco Targets Therapy, 2017
6	Cyril Cyrus Chittibabu Vatte J Francis Borgio Abdullah Al-Rubaish Shahanas Chathoth Zaki A Nasserullah Sana Al Jarrash Ahmed Sulaiman Hatem Qutub Hassan Alsaleem Alhusain J Alzahrani Martin H Steinberg Amein K. Al Ali	Existence of HbF Enhancer Haplotypes at HBS1L-MYB Intergenic Region in Transfusion-Dependent Saudi β -Thalassemia Patients.	Biomed Res International, 2017
7	Rabia Latif Nazish Rafique A M Salem Mona H. AlSheik Shahanas Chathoth	Correlation between circulatory Kisspeptin and Adipokines in normal and over-weight Saudi females during menstrual cycle.	Biological Rhythm Research, 2017



8	Chittibabu Vatte Cyril Cyrus Abdullah M AlShehri Shahanas Chathoth Mohammed Almansori Awatif Al-Nafaie Rudaynah Al-Ali Fahad Al-Muhanna Folkert W Asselbergs Amein Al-Ali	Investigation of KIF6 Trp719Arg gene polymorphism in a case-control study of coronary artery disease and non-fatal myocardial infarction in the Eastern Province of Saudi Arabia.	Annals of Saudi Medicine, 2016
9	Shahanas Chathoth Samir Al-Mueilo Cyril Cyrus Chittibabu Vatte Awatif Al-Nafaie Rudaynah Al-Ali Brendan J. Keating Fahad Al-Muhanna Amein Al Ali	Elevated Fibroblast Growth Factor 23 Concentration: Prediction of Mortality among Chronic Kidney Disease Patients.	Cardiorenal Medicine, 2016
10	Cyril Cyrus Chittibabu Vatte Awatif Al-Nafie Shahanas Chathoth Rudaynah Al-Ali Abdullah Al-Shehri Mohammed S Akhtar Mohammed Almansori Fahad Al-Muhanna Brendan Keating Amein Al-Ali	The impact of common polymorphisms in CETP and ABCA1 genes with the risk of coronary artery disease in Saudi Arabians,	Human Genomics, 2016
11	Ali M Al-Amri Chittibabu Vatte Cyril Cyrus Shahanas Chathoth Tariq M Hashim Yehia S Mohamed Rudaynah Al Ali Abira Alsaid Amein Al Ali	Novel mutations of PIK3CA gene in head and neck squamous cell carcinoma.	Cancer Biomarkers, 2016
12	Shahanas Chathoth Faisal Thayyullathil Ala Galadari	Purification and biochemical characterization of a second type of	Hamdan Medical Journal, 2015



	Mahendra Patel Sehamuddin Galadari	neutral ceramidase from camel (Camelus dromedarius) brain.	
13	Ibrahim Al-Habdan Mir Sadat-Ali Mastour S Alghamdy Akram Randhawa Shahanas Chathoth	Assessment of Pharmacokinetics and Toxicology of Sadat-Habdan Mesenchymal Stimulating Peptide (SHMSP) in Rats and Goats.	International Journal of Biomedical Science, 2014
14	Shahanas Chathoth Faisal Thayyullathil Alaa Galadari Mahendra Patel Sehamuddin Galadari	Purification and biochemical characterization of membrane-bound neutral ceramidase from camel brain (Camelus dromedarius).	International Journal Biochemical and Molecular Biology, 2013
15	Faisal Thayyullathil Siraj Pallichankandy Anees Rahman Jaleel Kizhakkayil Shahanas Chathoth Mahendra Patel Sehamuddin Galadari	Caspase-3 mediated release of SAC domain containing fragment from Par- 4 is necessary for the sphingosine- induced apoptosis in Jurkat cells.	Journal of Molecular Signaling, 2013
16	Jaleel Kizhakkayil Faisal Thayyullathil Shahanas Chathoth Abdulkader Hago Mahendra Patel Sehamuddin Galadari	Glutathione regulates caspase- dependent ceramide production and curcumin-induced apoptosis in human leukemic cells.	Free Radical Biology and Medicine, 2012
17	Mahendra Patel Faisal Thayyullathil Shahanas Chathoth Abdulkader Hago Siraj Pallichankandy Anees Rahman Sehamuddin Galadari	Curcumin induces human colon cancer cell death via p62/SQSTM1 degradation, phospho-ERK up- regulation and ceramide generation	Current Trends in Biotechnology and Pharmacy, 2012
18	Faisal Thayyullathil Shahanas Chathoth Jaleel Kizhakkayil Alaa Galadari Abdulkader Hago Mahendra Patel Sehamuddin Galadari	Glutathione selectively inhibits Doxorubicin induced phosphorylation of p53Ser ¹⁵ , caspase dependent ceramide production and apoptosis in human leukemic cells.	Biochemical and Biophysical Research Communication, 2011
19	Faisal Thayyullathil Shahanas Chathoth Allen Shahin Jaleel Kizhakkayil	Protein phosphatase 1-dependent dephosphorylation of Akt is the prime signaling event in sphingosine-induced apoptosis in Jurkat cells	Journal of Cellular Biochemistry, 2011



	Abdulkader Hago Mahendra Patel Sehamuddin Galadari		
20	Faisal Thayyullathil Shahanas Chathoth Abdulkader Hago Mahendra Patel Zdzislaw M Szulc Yusuf Hannun Sehamuddin Galadari	Purification and characterization of a second type of neutral ceramidase from rat brain: a second more hydrophobic form of rat brain ceramidase.	Biochimica et Biophysica Acta (BBA), 2011
21	Jaleel Kizhakkayil Faisal Thayyullathil Shahanas Chathoth Abdulkader Hago Mahendra Patel Sehamuddin Galadari	Modulation of curcumin-induced Akt phosphorylation and apoptosis by PI3K inhibitor in MCF-7 cells.	Biochemical and Biophysical Research Communication, 2010
22	Sehamuddin Galadari Faisal Thayyullathil Shahanas Chathoth Mahendra Patel Abdulkader Hago	Biochemical Characterization of reverse activity of human recombinant neutral ceramidase	Journal of Medical Sciences, 2009
23	Shahanas Chathoth Faisal Thayyullathil Abdulkader Hago Allen Shahin Mahendra Patel Sehamuddin Galadari	UVC-induced apoptosis in Dubca cells is independent of JNK activation and p53 (Ser-15) phosphorylation.	Biochemical and Biophysical Research Communication, 2009
24	Faisal Thayyullathil Shahanas Chathoth Mahendra Patel Abdulkader Hago Sehamuddin Galadari	Rapid reactive oxygen species (ROS) generation induced by curcumin leads to caspase-dependent and –independent apoptosis in L929 cells	Free Radical Biology and Medicine, 2008
25	Sehamuddin Galadari Faisal Thayyullathil Abdulkader Hago Mahendra Patel Shahanas Chathoth	Akt Depletion Is an Important Determinant of L929 Cell Death following Heat Stress.	Annals of the New York Academy of Science, 2008
26	Faisal Thayyullathil Shahanas Chathoth Abdulkader Hago Ulli Wernery Mahendra Patel Sehamuddin Galadari	Investigation of Heat Stress Response in the Camel Fibroblast Cell Line Dubca.	Annals of the New York Academy of Science, 2008



27	Shahanas Chathoth Faisal Thayyullathil Sehamuddin Galadari	Curcumin cell signalling: A possible target for chemotherapy.	Current Trends in Biotechnology and Pharmacy, 2008
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Refereed Scientific Research Papers Accepted for Publication

#	Name of Investigator(s)	Research Title	Journal	Acceptance Date
1	Cyril Cyrus Chittibabu Vatte Shahanas Chathoth	Hemoglobin switching modulator SNPs rs5006884 is associated with increased HbA2 in β -thalassemia carriers	Archives of Medical Science	Sept. 2018
2	Chittibabu Vatte Cyril Cyrus Shahanas Chathoth	Helical and kinase domain mutations of PIK3CA and association with hormone receptor expression in breast cancer	Oncology Letters	Oct. 2018

Scientific Research Papers Presented to Refereed Specialized Scientific Conferences

#	Name of Investigator(s)	Research Title	Conference and Publication Date

Completed Research Projects

#	Name of Investigator(s) (Supported by)	Research Title	Report Date
1	Ali Al Amri Chittibabu Vatte Shahanas Chathoth Cyril Cyrus	PIK3CA Exon 9 and 20 polymorphism analysis in Head and Neck Squamous Cell Carcinoma patients from eastern province of Saudi Arabia.	2016
2	Cyril Cyrus Samir Al-Mueilo Shahanas Chathoth Chittibabu Vatte	Genetic alleles and haplotype influence on chronic kidney disease in Saudi Population	2016
3	Lubna Al-Asoom Shahanas Chathoth	The association of FTO gene variants and metabolic syndrome in young Saudi females	2016



4	Mona Ismail Shahanas Chathoth Chittibabu Vatte	Association of the Niemann-Pick C1 (NPC1) and Uncoupling Protein 1 (UCP1) gene polymorphisms with obesity from eastern province of Saudi Arabia.	2015
5	Cyril Cyrus Zaki Nasserullah Amein Al Ali Shahanas Chathoth Mohd Al Madan	DNA Polymorphisms at Quantitative Trait Locus in β -Thalassemia patients are regulators of Hb F Levels: BCL11A, HBS1L-MYB, and HBG mutations and its association with Hb F levels.	2014
6	Cyril Cyrus Mona Ismail Shahanas Chathoth	Correlation of the Melanocortin-4 Receptor (MC4R) and Fat Mass and Obesity (FTO) Gene Polymorphisms with Early-Onset and Severe Obesity Population from Saudi Arabia.	2014
7	Shahanas Chathoth Samir Al-Mueilo Cyril Cyrus	Evaluation of the role of Fibroblast Growth Factor 23 as a biomarker for chronic kidney disease in Saudi Arabia.	2013

Current Researches

#	Research Title	Name of Investigator(s)
1	Identifying the role of ceramide in regulating Par-4 expression and the consequent cellular responses in breast cancer cell line MCF-7	Shahanas Chathoth Cyril Cyrus
2	Identification of the anti-cancer therapeutic potential of black cumin (<i>Nigella sativa</i>) extract	Shahanas Chathoth Muhammed Salahuddin Muhammed Nawas
3	The role of lipidomic signatures in the diagnosis of NAFLD in Saudi patients with type II diabetes mellitus.	Esraa Bukannan Mona Ismail Shahd Alkhunaizi Shahanas Chathoth
4	Effect of Turmeric on blood pressure, body weight and serum homocysteine levels in overweight and obese Saudi females	Rabia Aamir Hussain Mona Al-Sheikh Shahanas Chathoth
5	Gene expression based molecular profiling of Triple Negative Breast Cancer	Chittibabu Vatte Sadananda Acharya Ali Al Amri Ahmed Al Sayyah Shahanas Chathoth
6	Effects of Zam Zam water on glycemic status, lipid profile, antioxidant and body composition in a high fat diet-fed rat model	Ghadeer Aljuwaie Rabia Aamir Hussain Mona Al-Sheikh Hussain Alhawaj Shahanas Chathoth



7	Estimation of sphingolipids and metabolizing enzyme levels in subcutaneous adipose tissue and blood in obese patients from Saudi Arabia.	Shahanas Chathoth Mona Ismail Hind Al Saif Chittibabu Vatte
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Contribution to Scientific Conferences and Symposia

#	Conference Title	Place and Date of the Conference	Type and Extent of Contribution
1	International conference on "Induced Pluripotent Stem Cell (iPS) and Future Therapy"	University of Dammam 23-04-2011	Conference and Attendant
2	International conference on "Genetic Risk Factors and Cardiovascular Disease"	University of Dammam 17-01-2012	Conference and Attendant
3	International conference on "Benefits & Hazards of Radioactive Sources: Life Cycle of Radiation Sources"	University of Dammam 05-03-2012	Conference and Attendant
4	International conference on "Strategies for improving research outcomes"	University of Dammam 15-09-2012 to 17-09-2012	Conference and Attendant
5	HiSeq 2000 Applications Training	IRMC 8-06-2012 to 10-06-2012	Conference and Attendant
6	The Value of Electron Microscopy in Today's World of Medical Research	Sofitel Hotel, Khobar 19-09-2012	Training and Attendant
7	Novel Coronavirus: Detection, Prevalence and Research	University of Dammam 26-09-2013	Workshop and Attendant
8	Olympus high-end Microscopy Convention 2013	Holiday Inn, Khobar 24-11-2013	Training and Attendant
9	Genetics in Medicine	University of Dammam 03-02-2014	Workshop and Attendant
10	The Training Courses for Members of Local Committees of Research Ethics	University of Dammam 10-04-2014	Training and Attendant
11	2D proteomics IEF12 cells	IRMC 11-11-2015	Training and Attendant
12	Every Cell Has a Story	Radisson Blu Hotel, Riyadh 26-11-2014	Training and Attendant



	Igniting a Revolution Through Single-Cell Systems Biology		
13	Next Generation Sequencing Training BRCA1/BRCA2	IRMC 14-12-2015 to 15-12-2015	Workshop and Attendant
14	Instrument Luminex 200	IRMC 16-12-2015 to 17-12-2015	Training and Attendant
15	Up to Date software training	University of Dammam 04-10-20156	Training and Attendant
16	Research Methodology	University of Dammam 12-10-2016	Training and Attendant
17	Laboratory Medicine: Current aspects and future Prospects	KFHU 19-10-2016 to 20-10-2016	Training and Attendant
18	Topic selection & Definition and Performance evaluation	University of Dammam 02-11-2016	Training and Attendant
19	Research funding & Data collection analysis	University of Dammam	Training and Attendant
	InCites: Performance Evaluation: Reports generation	University of Dammam 04-05-2016	Training and Attendant
	Training course for members of local committees of Research ethics	John Hopkins ARAMCO healthcare, Dhahran 08-04-2018	Conference and Attendant

Membership of Scientific and Professional Societies and Organizations

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Teaching Activities

Undergraduate

#	Course/Rotation Title	No./Code	Extent of Contribution (no. of lectures/Tutorials. Or labs, Clinics)
	Biochemistry	BIOCH-305	
	Biochemistry	BIOCH-205	
	Biochemistry	BIOCH-231	
	Biochemistry	BIOCH-212	

Brief Description of Undergraduate Courses Taught: (Course Title – Code: Description)

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Postgraduate

#	Course/Rotation Title	No./Code	Extent of Contribution (no. of lectures/Tutorials. Or labs, Clinics)
1			
2			

Brief Description of Postgraduate Courses Taught: (Course Title – Code: Description)

1	
2	

Course Coordination

#	Course Title and Code	Coordinati on	Co- coordination	Undergr ad.	Postgrad .	From	To

Guest/Invited Lectures for Undergraduate Students

#	Activity/Course Title and Code	Subject	College and University or Program	Date

Student Academic Supervision and Mentoring

#	Level	Number of Students	From	To
1	6 th year Research	5	15 September 2018	30 March 2019

Supervision of Master and/or PhD Thesis

#	Degree Type	Title	Institution	Date



Ongoing Research Supervision

#	Degree Type	Title	Institution	Date

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

Administrative Responsibilities

#	From	To	Position	Organization

Committee Membership

#	From	To	Position	Organization

Scientific Consultations

#	From	To	Institute	Full-time or Part-time

Volunteer Work

#	From	To	Type of Volunteer	Organization

Personal Key Competencies and Skills: (Computer, Information technology, technical, etc.)



1	
2	

Last Update

November 26, 2018