



# FACULTY FULL NAME: Dr. Cyril Cyrus

POSITION: Assistant Professor

## Personal Data

Nationality | Indian

Date of Birth | 22<sup>nd</sup> June 1979

Department | Biochemistry

Official UoD Email | [ccyrus@iau.edu.sa](mailto:ccyrus@iau.edu.sa)

Office Phone No. | 31151

## Language Proficiency

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

## Academic Qualifications (Beginning with the most recent)

Date	Academic Degree	Place of Issue	Address
2001 – 2008	PhD - Genetics	India	University of Madras, Chennai
1999 – 2001	M.Sc.	India	University of Madras, Chennai
1996 – 1999	B.Sc.	India	University of Madras, Chennai

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

PhD	Down Syndrome – Cytogenetic Profile, Probable Etiology and Parental Origin Using Chromosomal and Molecular Polymorphisms
Master	Effect of Anti-cancer drug Cyclophosphamide in mitosis
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, KSA	16-9-2017	Till Date
Assistant Professor	IRMC	Imam Abdulrahman Bin Faisal University, KSA	29-11-2010	15-9-2017
Research Scientist	Indian Council for Medical Research	Manipal Hospital, Bangalore, India	September, 2009	October, 2010
Senior Cytogeneticist	Genetics	Manipal Hospital, Bangalore, India	07-02-2008	30-10-2010

### Administrative Positions Held: (Beginning with the most recent)

Administrative Position	Office	Date
Mentor - Faculty Mentorship Certification Program	IRMC, Imam Abdulrahman Bin Faisal University, KSA	16-10-2016 to 15-9-2017
Mentor - Saudi Aramco-Research Science Initiative (SARSI)	IRMC, Imam Abdulrahman Bin Faisal University, KSA	2015-2017
Mentor – MAWHIBA 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	Cyril Cyrus, Samir Al-Mueilo, Chittibabu Vatte, Shahanas Chathoth, Yun Li et al.	Assessing Known Chronic Kidney Disease Associated Genetic Variants in Saudi Arabian Populations	BMC Nephrology 2018;19 (1), 88
2	Cyril Cyrus, Mona H. Ismail, Shahanas Chathoth, Chittibabu Vatte et al.	Analysis of the Impact of Common Polymorphisms of the FTO and MC4R Genes with the Risk of Severe Obesity in Saudi Arabian Population	Genetic testing and molecular biomarkers 2018;22 (3), 170-177
3	Chittibabu Vatte, Ali M Al Amri, Cyril Cyrus, Shahanas Chathoth et al.	Tyrosine kinase domain mutations of EGFR gene in head and neck squamous cell carcinoma.	OncoTargets and therapy. 2017;10:1527-1533



4	<b>Cyril Cyrus</b> , Chittibabu Vatte, J. Francis Borgio, Abdullah Al-Rubaish et al.	Existence of HbF enhancer haplotypes at HBS1L-MYB intergenic region in transfusion dependent Saudi $\beta$ -thalassemia patients.	BioMed Research International 2017; Volume 2017 Article ID 1972429, 7
5	Romain Lévy, Satoshi Okada, Vivien Béziat, Kunihiro Moriya, Caini Liu, Louis Yi Ann Chai, Mélanie Migaud, Fabian Hauck, Amein Al Ali, <b>Cyril Cyrus</b> et al	Genetic, immunological, and clinical features of patients with bacterial and fungal infections due to inherited IL-17RA deficiency	Proc Natl Acad Sci U S A. 2016 Dec 20;113(51):E8277-E8285
6	Yehia Mohamed, Layla Bashawri, Chittibabu Vatte, Eman Abu-rish, <b>Cyril Cyrus</b> et al.	The in vitro generation of multi-tumor antigen-specific cytotoxic T cell clones: Candidates for leukemia adoptive immunotherapy following allogeneic stem cell transplantation.	Molecular Immunology 2016; 77: 79–88
7	<b>Cyril Cyrus</b> , Chittibabu Vatte et al.	The impact of common polymorphisms in CETP and ABCA1 genes with the risk of coronary artery disease in Saudi Arabians.	Human Genomics 2016;10:8
8	Chittibabu Vatte, <b>Cyril Cyrus</b> et al.	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; 36(2):105-11
9	Ali M. Al-Amri, Chittibabu Vatte, <b>Cyril Cyrus</b> et al.	Novel Mutations of PIK3CA Gene in Head and Neck Squamous Cell Carcinoma.	Cancer Biomarkers 2016;16:(3):377-383
10	Chathoth S., Al-Mueilo S., <b>Cyril Cyrus</b> ., et al.	Elevated Fibroblast Growth Factor 23 concentration: Prediction of mortality among Chronic Kidney Disease.	Cardiorenal Med 2016;6:73–82
11	N. Chandra, <b>Cyril Cyrus</b> , L. Prema, P. Nallasivam, A. Ramesh, P. M. Gopinath and K. M. Marimuthu	Cytogenetic Evaluation of Down Syndrome: A Review of 1020 Referral Cases.	Int J Hum Genet, 10(1-3): 87-93 (2010)
12	<b>Cyril Cyrus</b> , Padmalatha Rai, N Chandra, Gopinath PM, K Satyamoorthy	MTHFR Gene Variants C677T, A1298C and their Association with Down	. Indian Journal of Human Genetics 15(2): 61-64 (2009)



		syndrome: A Case-Control Study from South India	
13	<b>Cyril Cyrus</b> , Harpreet Kaur, Solomon F.D. Paul, Jegatheesan T, Chandra.	A de novo reciprocal t(2;18) translocation with regular trisomy 21.	Genetic Testing. 11(4): 459-462 (2007)
14	<b>Cyril Cyrus</b> , Emmanuel Cyril, Kotturathu Mammen Cherian, Snehal Kulkarni, Chandra Nallathambi.	Down syndrome with tandem 21;21 rearrangement and ebstein's anomaly — A case report.	International Journal of Cardiology 115 e58–e60 (2007)
15	<b>Cyril Cyrus</b> , Teena K., Solomon F.D.Paul, Chandra N., Meena J., Anuradha D., Ramesh A., Gopinath P.M. and Marimuthu K.M.	Familial Robertsonian Translocation 13;21 in a Down Syndrome patient with XYY/XY Mosaicism.	Int J Hum Genet, 6(4): 291-295 (2006)
16	<b>Cyril Cyrus</b> , Chandra N, Jegatheesan T, Chandralekha K, Ramesh A, Gopinath P. M., Marimuthu K. M.	Down syndrome child with 48,XXY,+21 karyotype.	Indian Journal of Human Genetics 11(1): 47-48 (2005)

#### Refereed Scientific Research Papers Accepted for Publication

#	Name of Investigator(s)	Research Title	Journal	Acceptance Date
	<b>Cyril Cyrus</b> , Chittibabu V, Shahanas C et al.	Hemoglobin switching modulator SNPs rs5006884 is associated with increased HbA2 in $\beta$ -thalassemia carriers	Archives of Medical Science	September, 2018
	Chittibabu V, <b>Cyril Cyrus</b> , Shahanas C et al.	Helical and kinase domain mutations of PIK3CA and association with hormone receptor expression in breast cancer	Oncology Letters	October, 2018
	Shahanas C, Mona Ismail, <b>Cyril Cyrus</b> et al.	Association of Uncoupling Protein 1 (UCP1) gene polymorphism with obesity: A case-control study	BMC Medical Genetics	November, 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
	Chittibabu, Cyril Cyrus & Prof. Amein Al Ali.	Study of KIF6 Trp 719Arg Gene Polymorphism as a Predictor Risk factor for Coronary events in CVD patients of Eastern Province of Saudi Arabia ( <b>DSR-IAU 2012184</b> ).	31-01-2013
	Shahanas Chathoth & Cyril Cyrus	Evaluation of the role of Fibroblast Growth Factor 23 as a biomarker for chronic kidney disease in Saudi Arabia ( <b>DSR-IAU 2012187</b> ).	31-01-2013
	Chittibabu, Cyril Cyrus, Tariq Hashim & Ali Al Amri	PIK3CA Exon 9 and 20 polymorphism analysis in Head and Neck Squamous cell Carcinoma patients from eastern province of Saudi Arabia ( <b>DSR-IAU 2013148</b> ).	09-06-2014
	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 ( <b>DSR-IAU 2013177</b> ).	20-09-2014
	Cyril Cyrus, Chittibabu, Amein Al Ali	Association of ABCA1 (R219K, V825I) and CETP (TaqIB, I405V) polymorphisms with cardiovascular disease in the eastern province of Saudi Arabian population ( <b>GDRG – KACST LGP 32-44</b> ).	31-08-2015
	Cyril Cyrus, Zaki Nasserullah, Amein Al-Ali, Shahanas Chathoth, Mohammed Al-Madan	DNA Polymorphisms at Quantitative Trait Locus in $\beta$ -Thalassemia patients are regulators of Hb F Levels: BCL11A, HBS1L-MYB, and HBG mutations and its association with Hb F level ( <b>GDRG – KACST LGP 31-34</b> ).	22-10-2015
	Munirah Khalid Aldarwish, Cyril Cyrus	Detection of Q429A polymorphism of 5, 10-methylenetetrahydrofolate reductase in coronary artery disease subjects ( <b>SARSI</b> )	25-06-2015
	Shog Khalid Alahmed, Cyril Cyrus	Detection of A222V polymorphism of 5, 10-methylenetetrahydrofolate reductase in coronary artery disease subjects ( <b>SARSI</b> )	25-06-2015



Norah Sulaiman Abdullah Alhindi, <b>Cyril Cyrus</b>	Detection of intronic mutation (TaqIB) of cholesteryl ester transfer protein gene in coronary artery disease subjects ( <b>SARSI</b> )	25-06-2015
Rawaa Nasser Alwohaibi, <b>Cyril Cyrus</b>	Detection of R219K mutation in CETP gene among coronary artery disease subjects ( <b>SARSI</b> )	25-06-2015
<b>Cyril Cyrus</b> , Shahanas Chathoth, Chittibabu & Samir Mueilo	Genetic Alleles and Haplotype Influence on Chronic Kidney Disease in Saudi Population ( <b>DSR-IAU 2014115</b> ).	2014-2016
Layan Bandar Almulla, <b>Cyril Cyrus</b>	Genetic polymorphisms in candidate gene to predict increased toxicity with methotrexate therapy in Saudi with Cancer ( <b>SARSI</b> )	18-07-2016
Asmaa Alsubaei, <b>Cyril Cyrus</b>	Association between MYH9 polymorphisms and renal function ( <b>SARSI</b> )	18-07-2016
Reema Fahad Bukhamseen, <b>Cyril Cyrus</b>	Role of the LDLR gene, rs2228671 polymorphism with obesity risk factor in coronary artery disease individuals ( <b>SARSI</b> )	18-07-2016
Arafat Ahmad Rashid Ahmad, Shamim Shaikh Mohiuddin, Fahd Muhanna, Abdullah Al hwiesh, <b>Cyril Cyrus</b>	Prevalence of genetic variation in PKD1&2 gene associated with autosomal dominant polycystic kidney disease in population of eastern province of Saudi Arabia ( <b>DSR-IAU 2014306</b> ).	2014-2016
<b>Cyril Cyrus</b> , Chittibabu, Amein Al Ali	Micro RNA signatures in blood as novel biomarkers for Acute myocardial infarctions ( <b>DSR-IAU 2015177</b> ).	2015-2017

### Current Researches

#	Research Title	Name of Investigator(s)
	Effect of genetic variation in IL-28B, TNF- $\alpha$ and TGF- $\beta$ genes on the clearance of hepatitis C virus: a genome-wide association study ( <b>NSTIP-KACST ASTP-11/ 10-BIO1340-46</b> ).	Alhusain J Alzahrani, Obeid Eltreifi Obeid, Amein Al-Ali, Abdulaziz Al-Quorain, <b>Cyril Cyrus</b>
	Genetic Basis of Fetal Hemoglobin in Saudi Sickle Cell Anemia ( <b>NSTIP-KACST12-MED2797-46</b> )	Amein Al-Ali, Alhusain Alzahrani, Paola Sebastiani, <b>Cyril Cyrus</b>
	Use of Induced Pluripotent Stem Cells to Study the Molecular Basis of High Fetal Hemoglobin in Saudi Sickle Cell Anemia ( <b>NSTIP-KACST 13-MED1913-46</b> )	Awatif Al-Nafie, Ahmed Al Suliman, Amein Al-Ali, <b>Cyril Cyrus</b>
	Genome-wide association study of epilepsy in the Eastern Province of Saudi Arabia ( <b>NSTIP-KACST 14-MED81-46</b> )	Abdulrahman Al Anazi, Ahmed Sabry Ammar, <b>Cyril Cyrus</b> , Hassan Ismail, Munir Nasser



A Genome Wide Association Study of stroke in the Eastern Province of Saudi ( <b>NSTIP-KACST 14-MED1986 -46</b> )	Abdulsalam Al-Sulaiman, <b>Cyril Cyrus</b> , Hassan Ismail, Mohammad Al-Qahtani, Mohammed A, Fahd Al Khamis
Prevalence and survival impact of PIK3CA mutations in breast cancer among patients at teaching hospital ( <b>DSR-IAU 2014048</b> ).	Ali Al Amri, Chittibabu, <b>Cyril Cyrus</b> & Tariq Hashim
Evaluation of key Oncogene and tumor suppressor gene mutations in Head and Neck Squamous cell Carcinoma ( <b>DSR-IAU 2014064</b> ).	Chittibabu, <b>Cyril Cyrus</b> , Tariq Hashim & Ali Al Amri
Prospective Study Evaluating PNPLA3 and TNF $\alpha$ Gene Polymorphisms as a Risk Factor for Non-Alcoholic Fatty Liver Disease in Obese Saudi Patients Undergoing Bariatric Surgery at KFHU ( <b>DSR-IAU 2015295</b> ).	Mona Ismail, <b>Cyril Cyrus</b>
Genetic Risk factors for coronary heart disease and atherosclerosis in Saudi patients undergoing dialysis with NAFLD at KFHU ( <b>DSR-IAU 2015314</b> ).	Waleed Al Baker, <b>Cyril Cyrus</b>
Inflammasome influence on the development of the constellation of metabolic syndrome ( <b>DSR-IAU 2016-082-IRMC</b> )	<b>Cyril Cyrus</b> , Chittibabu Vatte, Mona Ismail
The Impact of Bariatric Surgery on Intestinal Microbiota in Patients with Nonalcoholic Steatohepatitis: A Pilot Study ( <b>DSR-IAU 2016-106-Med</b> ).	Mona Ismail, <b>Cyril Cyrus</b> , Hanan Alghamdi, Chittibabu Vatte
Identifying the role of ceramide in regulating Par-4 expression and the consequent cellular responses in breast cancer cell line MCF-7 ( <b>DSR-IAU 2016-116-IRMC</b> )	Shahanas Chathoth, <b>Cyril Cyrus</b> .
Prevalence and significance of P53, BCL2 and EBV in patients with nasopharyngeal carcinoma ( <b>DSR-IAU 2016-111-Med</b> ).	Ali Mohammed Al-Amri, <b>Cyril Cyrus</b> , Noor Al Mandil, Chittibabu Vatte, Ahmed Al Sayyah.
Role of Serum miRNA in Non-Alcoholic Fatty Liver Disease Patients ( <b>DSR-IAU 2016-576-Med</b> ).	Alaa Turkistani, Mona Ismail, <b>Cyril Cyrus</b> , Nada Al Zamil, Badriah Al Omari, Leenah Turkistani.
Designing Functionalized Hierarchical Nano-carrier for Mammary Carcinoma cell line MCF7 ( <b>DSR-IAU 2016-099-IRMC</b> ).	Rabindran Jermy, Vijaya Nayagam, Silviya Elanthikkal, Chittibabu Vatte, <b>Cyril Cyrus</b> .
Quality of Life, Adequacy of Dialysis, Depression & Genetic Studies of Patients with ESRD Receiving Hemodialysis or Peritoneal Dialysis ( <b>DSR-IAU 2018-169-Med</b> )	Abdullah Al-Hwiesh, Fahd Al-Muhanna, <b>Cyril Cyrus</b>
Pancreatic $\beta$ -cell Isolates Triggering Genes HHEX and TCF7L2 Polymorphisms Associate with Gestational Diabetes Mellitus ( <b>DSR-IAU 2017-094-Med</b> )	Nada Alrashidi, <b>Cyril Cyrus</b>





### Contribution to Scientific Conferences and Symposia

#	Conference Title	Place of the Conference	Date of the Conference	Type	Extent of Contribution
	International conference on “Induced Pluripotent Stem Cell (iPS) and Future Therapy”	University of Dammam	April 23, 2011	Conference	Attendant
	International conference on “Genetic Risk Factors and Cardiovascular Disease”	University of Dammam	January 17, 2012	Conference	Attendant
	International conference on “Benefits & Hazards of Radioactive Sources: Life Cycle of Radiation Sources”	University of Dammam	March 5, 2012	Conference	Attendant
	International conference on “Strategies for improving research outcomes”	University of Dammam	September 15-17, 2012	Conference	Attendant
	HiSeq 2000 Applications Training	IRMC	8-10 June, 2012	Training	Attendant
	The Value of Electron Microscopy in Today's World of Medical Research	Sofitel Hotel, Khobar	19 Sept, 2012	Training	Attendant
	Novel Coronavirus: Detection, Prevalence and Research	University of Dammam	26 Sept, 2013	Workshop	Attendant
	Olympus high-end Microscopy Convention 2013	Holiday Inn, Khobar	24 Nov, 2013	Training	Attendant
	Genetics in Medicine	University of Dammam	3 Feb, 2014	Workshop	Attendant
	New Therapies in Sickle Cell Anemia	University of Dammam	12 March, 2014	Workshop	Attendant
	The Training Courses for Members of Local	University of Dammam	10 April, 2014	Training	Attendant





Committees of Research Ethics				
2D proteomics IEF12 cells	IRMC	11 Nov, 2015	Training	Attendant
Every Cell Has a Story Igniting a Revolution Through Single-Cell Systems Biology	Radisson Blu Hotel, Riyadh	26 Nov, 2014	Training	Attendant
Next Generation Sequencing Training BRCA1/BRCA2	IRMC	14-15 Dec, 2015	Workshop	Attendant
Instrument Luminex 200	IRMC	16-17 Dec, 2015	Training	Attendant
Up to Date software training	University of Dammam	04-10-2016	Training	Attendant
How to prepare for a conference	University of Dammam	05-10-2016	Training	Attendant
Research Methodology	University of Dammam	12-10-2016	Training	Attendant
Laboratory Medicine: Current aspects and future Prospects	KFHU	19 to 20-10-2016	Training	Attendant
Topic selection & Definition and Performance evaluation	University of Dammam	2-11-2016	Training	Attendant
Research funding & Data collection analysis	University of Dammam	24-11-2016	Training	Attendant
InCites: Performance Evaluation: Reports generation	University of Dammam	04-05-2016	Training	Attendant
Training course for members of local committees of Research ethics	John Hopkins ARAMCO healthcare, Dhahran	08 April 2018	Conference	Attendant
Clinical microbiology Fellowship program - Poster day	King Fahd University Hospital	06 March 2018	Conference	Attendant



### Certification Courses

#	Awardee	Course	Certification Number	Date
1.	National Institutes of Health (NIH)	Protecting Human Research Participants	1197224	13 June 2013
2.	King Abdulaziz City for Science and Technology	Bioethics online training course	100499	21 Feb 2016
3.	University of Dammam	Mentorship Program		02 June, 2016

### Membership of Scientific and Professional Societies and Organizations

- Life member (L/1077/2004) Indian Society for Human Genetics Centre For Cellular and Molecular biology, Hyderabad, India March-2004
- The Science Advisory Board - Elected as a member of The Science Advisory Board, 2111 Wilson Blvd., Suite 250, Arlington, VA 22201 on Mar 21, 2015
- 

### 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)


#### 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	Coordination	Co-coordination	Undergrad.	Postgrad.	From	To
1	MED 601	Yes				2018	2019

### 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	Medical Intern	1	1 October	30 November, 2015
2	Medical Intern	1	1 January 2018	28 February, 2018
3	6 <sup>th</sup> year Research	5	15 September 2018	30 March 2019
4	6 <sup>th</sup> 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
			Reviewer	Molecular Syndromology, Karger Publisher
			Reviewer	Cytogenetic and Genome Research, Karger Publisher
			Reviewer	Project Proposals, KACST
			Reviewer	OncoTargets and Therapy, Dove press
			Reviewer	Archives of Medical Science

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

1	
2	

Last Update

November 21, 2018