



## Dr. J. Francis Borgio M. Sc., Ph. D.,

**Associate Professor of Molecular Genetics,**  
Department of Genetic Research,  
**Chairman, Department of Epidemic Diseases Research,**  
Institute for Research and Medical Consultations (IRMC),  
Imam Abdulrahman Bin Faisal University,  
(Formerly: University of Dammam),  
P. O. Box 1982 Dammam, 31441,  
Saudi Arabia.



**Ranked among top 2% scientists in the world** by Stanford University

as the most influential scientists in 2020 ([Link](#)). Published: 19 Oct 2021.  
**Council Member** | Institute for Research and Medical Consultations.  
**Leader** | Microbiology Research Group  
**Academic Editor** | *PLOS ONE*  
**Course coordinator** | Microbiology [MSBE 820] for Post Graduates  
**Committee Chair** | Safety Committee at IRMC  
**TOPIC EDITOR** | **Frontiers in Medicine, Molecular Informatics in Precision Medicine**  
**Topic Editor** | **Frontiers in Microbiology**  
**Associate Editor** | Frontiers in Pediatrics  
**Editor** | **Brain Sciences**

**Research Areas of Interest\_** | Genome mining of Antibiotic Resistant and Biosynthetic genes.  
 | Molecular genetics of Unknown Recurrent Pregnancy Loss, Autism and Migraine.  
 | Invasive and Non-invasive Early prenatal diagnosis of inherited diseases.  
 | Networks of interacting genes in HbF elevation and HbA2 borderline.  
 | Molecular mechanisms of multidrug-resistant pathogens.

### Personal Data

Nationality | Indian  
 Date of Birth | 10.10.1981  
 Department | Department of Genetic Research, Institute for Research and Medical Consultations,  
 Official UoD Email | fbalexander@iau.edu.sa  
 Office Phone No. | + 966 13 3330864  
 Mobile No. | + 966 567391981  
 Alternative Email | borgiomicro@gmail.com

### Language Proficiency

Language	Read	Write	Speak
English	✓	✓	✓
Others - Tamil	✓	✓	✓



### Academic Qualifications (Beginning with the most recent)

Date	Academic Degree	Place of Issue	Address
Oct 2018	Trialect Fellowship in Red Blood Cell Physiology	Switzerland	University of Zürich, Zürich, Switzerland
March 2010	Ph. D.,	INDIA	Manonmanium Sundaranar University, Tirunelveli, India
April 2004	Microbiology	INDIA	Sri Paramakalyani College, Alwarkurichi, Tirunelveli, India

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

<b>PhD</b>	RAPD analyses of <i>Metarhizium anisopliae</i> and its bioefficacy on <i>Dysdercus cingulatus</i> (Highly Recommended)
<b>Master</b>	Optimization of exopolymer production using bacterial strains
<b>Traineeship</b>	Trialect Fellowship in Red Blood Cell Physiology, Clinical Translational Research-Anemia and Red Blood Cells Traineeship, Red Blood Cell Research Group, Institute of Veterinary Physiology, <b>University of Zürich, Zürich, Switzerland.</b>
<b>Trialect Fellowship</b>	Trialect Fellowship in Covid-19 Variants and Virus-Cell Interactions, Department of Neurosciences, Biomedicine and Movement Sciences, <b>University of Verona, Verona, Italy</b>

### Professional Record: (Beginning with the most recent)

Job Rank	Place and Address of Work			Date
<b>Associate Professor of Molecular Genetics</b>	Department of Genetic Research, Institute for Research and Medical Consultations	Imam Abdulrahman Bin Faisal University (Formerly: University of Dammam) <b>(Ranked among top 500 globally in 2023 QS ranking)</b>	Apr 2017	Till date
<b>Chairman</b>	Department of Epidemic Diseases Research, Institute for Research and Medical Consultations	Imam Abdulrahman Bin Faisal University (Formerly: University of Dammam) <b>(Ranked among top 500 globally in 2023 QS ranking)</b>	Feb 2019	Till date
Team Representative	Department of Genetic Research, Institute for Research and Medical Consultations (IRMC),	University Of Dammam & Saudi Arabia	June 2016	Nov 2017
Member, IRMC Main Council	Institute for Research and Medical Consultations (IRMC),	University Of Dammam & Saudi Arabia	Dec 2015	Dec 2017
Assistant Professor	Institute for Research and Medical Consultations	University Of Dammam & Saudi Arabia	Feb 2011	Apr 2017
Assistant Professor	Microbiology	St. Joseph's College, Bangalore, INDIA	June 2008	Jan 2011
Faculty – Research Associate	Molecular Biology	Genecity Laboratories Pvt. Ltd., Pune, INDIA.	Sep 2007	June 2008



**ADDITIONAL CERTIFICATE COURSES COMPLETED:**

Degree	Year	Institute	Remark
NIH web based training course "Protecting Human Research Participants"	May 2015	National Institute of Health, USA	Certificate No: 1759096
NCBE (National Committee for BioEthics) Web-based training course	Sep 2015	KACST, Saudi Arabia	Certificate No: 100400
Enterprise LINUX server administration	Aug 2016	Kalvi Institute Pvt. Limited, India	1st July 16 to 31st Aug 2016
Risk Management for Professional	Mar 2019	Institute for Risk Management, UK	17 to 21 March 2019

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

Administrative Position	Office	Date
<b>CHAIRMAN</b> , Department of Epidemic Diseases Research	Institute for Research and Medical Consultations (IRMC), Imam Abdulrahman Bin Faisal University <b>(Ranked among top 500 globally in 2023 QS ranking)</b>	Since 03 Feb 2019
<b>LEADER: Microbiology Research Group</b>	Institute for Research and Medical Consultations (IRMC), Imam Abdulrahman Bin Faisal University <b>(Ranked among top 500 globally in 2023 QS ranking)</b>	Since 17 Nov 2021
<b>Committee Chair</b> , Safety Committee	Institute for Research and Medical Consultations (IRMC), Imam Abdulrahman Bin Faisal University	Since 6 <sup>th</sup> Oct 2021
<b>Co-Ordinator</b> , IRMC's Self-study Reports "Program management and quality Assurance" for Postgraduate Programs	Institute for Research and Medical Consultations (IRMC), Imam Abdulrahman Bin Faisal University	Since 28 <sup>th</sup> Dec 2022
<b>Committee Chair</b> , Training and Development Committee	Institute for Research and Medical Consultations (IRMC), Imam Abdulrahman Bin Faisal University	13 <sup>th</sup> Oct 2019-05 <sup>th</sup> Oct 2021
<b>Co-Ordinator</b> , IRMC- Summer Research Program – 2021/2022/2023	Institute for Research and Medical Consultations (IRMC), Imam Abdulrahman Bin Faisal University	Jan 2021--Aug 2023
<b>Co-Ordinator</b> , IRMC-Internship Program-2021 (IRMC-InP-2021)	Institute for Research and Medical Consultations (IRMC), Imam Abdulrahman Bin Faisal University	Aug 2020-05 <sup>th</sup> Oct 2021
<b>Co-Ordinator</b> , Risk management committee	Institute for Research and Medical Consultations (IRMC), Imam Abdulrahman Bin Faisal University	Apr 2019
<b>Co-Ordinator</b> , IRMC- Summer Research Program – 2020	Institute for Research and Medical Consultations (IRMC), Imam Abdulrahman Bin Faisal University	Jan 2020--05 <sup>th</sup> Oct 2020
<b>Course coordinator</b> for Microbiology [MSBE 820-LECF (9850) & MSBE 820-LECM (9852)]	M.Sc. in Biotechnology & Entrepreneurship at Institute for Research and Medical Consultations (IRMC), Imam Abdulrahman Bin Faisal University	Since Oct 2019
<b>Co-Ordinator</b> , IRMC- Summer Research Program – 2019	Institute for Research and Medical Consultations (IRMC), Imam Abdulrahman Bin Faisal University	Feb 2019 to Oct 2019
<b>TEAM REPRESENTATIVE</b> , Department of Epidemic Diseases Research	Institute for Research and Medical Consultations (IRMC), University of Dammam, Dammam	28 Nov 2018 to 02 Feb 2019
<b>MEMBER</b> , IRMC MAIN COUNCIL	Institute for Research and Medical Consultations (IRMC), University of Dammam,	17 <sup>th</sup> Dec 2015 to Dec 2017
Member of the Managing Committee,	International Indian School – Dammam, (An Indian Embassy school with >18,000 students) Dammam, SAUDI ARABIA.	14 May 2015 to 15 Nov 2017



Academic Convener	International Indian School – Dammam, (An Indian Embassy school with >18,500 students) Dammam, SAUDI ARABIA.	13 May 2016 to 13 May 2017
<b>DEPUTY CHAIRMAN</b>	International Indian School – Dammam, (An Indian Embassy school with >18,500 students) Dammam, SAUDI ARABIA.	13 May 2015 to 12 May 2016
<b>TEAM REPRESENTATIVE</b> , Department of Genetic Research	Institute for Research and Medical Consultations (IRMC), University of Dammam, Dammam	05th June 2016 to Nov 2017
Member of the 2016 research proposal plan of IRMC	Institute for Research and Medical Consultations (IRMC), University of Dammam,	09th Nov 2015 to Jan 2016
Assistant Co-Ordinator, MICROCOSM, Association of Microbiology, Dept. of Microbiology,	St. Joseph's College, Bangalore, INDIA. During the academic year 2009-2010.	2009 to 2010
School People Leader for more than 1500 student	St. Jude's High School, Pallam Tamil Nadu, India.	1996 to 1997

### Scientific Achievements

Published Refereed Scientific Researches: **100**

(In Chronological Order Beginning with the Most Recent)

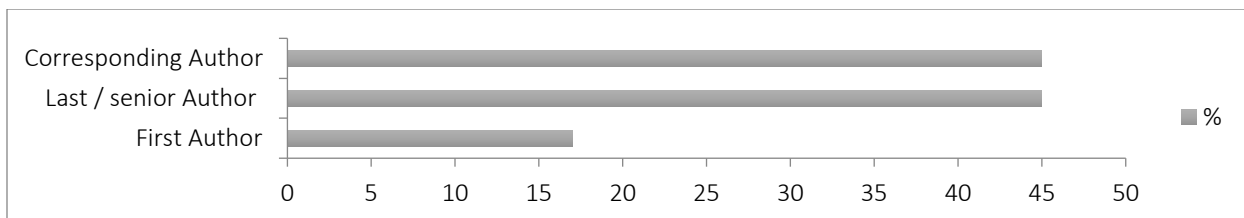
**[\*Corresponding Author]**

**Total Impact Factor: >200; Total citation >1750; H-index = 23; i10-index = 53.**

	ISI Web of Science	Scopus	Research Gate	Google Scholar
Number of Publications	78	90	98	100
Citations	941	1113	1483	1754
H-Index	16	18	22	23
Web source	<a href="#">[Link]</a>	<a href="#">[Link]</a>	<a href="#">[Link]</a>	<a href="#">[Link]</a>

**Research Gate Score: 32.99; (Higher than 90% of RG Members')**

**Author Position** [As per the web of science for WOS indexed articles]



#	Name of Investigator(s)	Research Title	Publisher and Date of Publication
1.	<b>Borgio, J.F.*</b> , 2023.	Heterogeneity in biomarkers, mitogenome and genetic disorders of Arab population with special emphasis on large-scale whole-exome sequencing. Archives of Medical Science. 19(3):765–783. Scopus Quartile 1; WoS Q2, Impact factor: <b>3.707</b> . <a href="https://doi.org/10.5114/aoms/145370">https://doi.org/10.5114/aoms/145370</a> . <a href="#">[Link]</a>	
2.	<b>Borgio, J.F.*</b> , Alhujaily, R., Alquwaie, R., Alabdullah, M.J., AlHasani, E., Alothman, W., Alaqeel, R.K., Alfaraj, A.S., Kaabi, A., Alhur, N.F., Akhtar, S., AlJindan, R., Almofty, S.A., Almandil, N.B., AbdulAzeez, S. 2023.	Mining the nanotube-forming <i>Bacillus amyloliquefaciens</i> MR14M3 genome for determining anti- <i>Candida auris</i> and anti-	

	<i>Candida albicans</i> potential by pathogenicity and comparative genomics analysis, Computational and Structural Biotechnology Journal, 21: 4261-4276, WoS: Q1, Scopus Quartile 1; <b>Impact factor: 6.000</b> <a href="#">[Link]</a> .
3.	Kotb, E.; Alabdallal, A.H.; Alsayed, M.A.; Alghamdi, A.I.; Alkhaldi, E.; AbdulAzeez, S.; <b>Borgio, J.F. 2023.</b> Isolation, Screening, and Identification of Alkaline Protease-Producing Bacteria and Application of the Most Potent Enzyme from Bacillus sp. Mar64. Fermentation 2023, 9(7): 637. <a href="#">[Link]</a>
4.	AlJindan, R.; AlEraky, D.M.; Farhat, M.; Almandil, N.B.; AbdulAzeez, S.; <b>Borgio, J.F. 2023.</b> Genomic Insights into Virulence Factors and Multi-Drug Resistance in <i>Clostridium perfringens</i> IRMC2505A. Toxins 2023, 15, 359. WoS: Q1, Impact factor: 5.075 <a href="#">[Link]</a>
5.	Almandil NB, Alismail MA, Alsuwat HS, AlSulaiman A, AbdulAzeez S, <b>Borgio JF. 2023.</b> Exome-wide analysis identify multiple variations in olfactory receptor genes ( <i>OR12D2</i> and <i>OR5V1</i> ) associated with autism spectrum disorder in Saudi females. Frontiers in Medicine. 10: 1051039. <b>WoS: Q1, Impact factor: 5.058.</b> Scopus Quartile 1; CiteScore 3.4. <a href="#">[Link]</a>
6.	Al Asoom LI, Alassaf MA, AlSulaiman NS, Boumarah DN, Almubireek AM, Alkaltham GK, Alhawaj HA, Alkhamis T, Rafique N, Alsunni A, Latif R, Alsaif S, Almohazey D, AbdulAzeez S, <b>Borgio JF. 2023.</b> The Effectiveness of Nigella sativa and Ginger as Appetite Suppressants: An Experimental Study on Healthy Wistar Rats. Vascular Health and Risk Management. 2023; 19:1-11. Scopus Quartile 1; CiteScore 4.8. <a href="#">[Link]</a> ..
7.	Aldossary, H.A., Rehman, S., Jermy, B.R., AlJindan, R., Aldayel, A., AbdulAzeez, S., Akhtar, S., Khan, FA., <b>Borgio, J.F*</b> , Al-Suhaimi, E.A. *, <b>2022.</b> Therapeutic intervention for various hospital setting strains of biofilm forming <i>Candida auris</i> with multiple drug resistance mutations using nanomaterial Ag-Silicalite-1 zeolite. Pharmaceutics 2022, 14(10), 2251. WoS: Q1, Impact factor: 6.525. <a href="#">[Link]</a>
8.	Al-Qaaneh, A.M., Al-Ghamdi, F.H., AbdulAzeez, S., <b>Borgio, J.F*</b> . <b>2022.</b> Safety of Tocilizumab in COVID-19 Patients and Benefit of Single-Dose: The Largest Retrospective Observational Study. Pharmaceutics 2022, 14(3), 624. <b>WoS: Q1, Impact factor: 6.321.</b> <a href="#">[Link]</a> .
9.	Khan J., Al Asoom LI., Al Sunni A., Rafique N., Latif R., Alabdali M., Alhariri A., Aloqaily M., AbdulAzeez S., Jahan S., Banawas S., <b>Borgio JF. 2022.</b> Whole-Exome Sequencing Reveals Migraine-Associated Novel Functional Variants in Arab Ancestry Females: A Pilot Study. Brain Sciences. 2022; 12(11):1429. WoS: Q3, Impact factor: 3.333. <a href="#">[Link]</a>
10.	Sherlin John, J., Selvaraj, P., Pushpanathan, T., Ravichandran, B., AbdulAzeez, S., <b>Borgio, J.F. 2022.</b> The Sequence Between Mitochondrial NAD1-NAD2 Genes Are Potential Molecular Markers Of Harpactorinae Predators (Heteroptera: Reduviidae). Journal of Biopesticide. 15(2):129-135. <a href="#">[Link]</a> .
11.	Osman, Y., Elsharkawy, T., Hashim, TM., Alratroot, JA., Aljindan, F., Almulla, L., Alsuwat, HS., Al Otaibi, WM., Hegazi, FM., Ibrahim, AM., <b>Borgio, JF., AbdulAzeez, S. 2022.</b> Study of Single Nucleotide Polymorphisms Associated with Breast Cancer Patients among Arab Ancestries. International Journal of Breast Cancer. 2022: 2442109. <a href="#">[Link]</a>
12.	Al Asoom L, Khan J., Al Sunni A, Rafique N, Latif R, Alabdali M, AbdulAzeez S, <b>Borgio, J.F. 2022.</b> A pilot mitochondrial genome-wide association on migraine among Saudi Arabians. International Journal of General Medicine. 2022(15):6249-6258. Scopus CiteScore 3.6, Quartile 1. WoS: Q2, Impact factor: 2.466 <a href="#">[Link]</a> .
13.	Velankanny, M., Selvaraj, P., <b>Borgio JF.</b> , Sherlin John, J and Princy Rathnamala Jayaseeli, J. <b>2022.</b> Bioefficacy of entomopathogenic fungi <i>Metarhizium anisopliae</i> (Metschn.) Sorokin against the cotton stainer, <i>Dysdercus cingulatus</i> (Fab.) (Hemiptera: Pyrrhocoridae). Journal of Biopesticides. 15(1):59-72. <a href="#">[Link]</a> .
14.	Almandil NB, AlSulaiman A, Aldakeel S, Alkuroud DN, Aljofi HE, Alzahrani SA, Almana AA, Almana A, Alabdali M, Alkhamis FA, AbdulAzeez S, <b>Borgio JF*. 2022.</b> Integration of transcriptome and exome genotyping identifies significant variants with autism spectrum disorder. Pharmaceutics, 15(2):158. Scopus CiteScore 4.6, Quartile 1; WoS: Q1, <b>Impact factor: 5.863.</b> <a href="#">[Link]</a> .
15.	Alzahrani FM, Al Faris AA, Bashawri LA, Hassan FM, El-Masry OS, Aldossary MA, Al Sultan O, <b>Borgio JF,</b> Alsahli MA, Goodeve A. <b>2022.</b> Phenotypic and genotypic signatures of VWF Exon 18 in Eastern Saudi patients previously diagnosed with type 1 Von Willebrand disease. International Journal of General Medicine, 2022(15): 5385—5394. Scopus CiteScore 3.6, Quartile 1. WoS: Q2, Impact factor: 2.466 <a href="#">[Link]</a>



16.	Antonino Giambona, Margherita Vinciguerra, Filippo Leto, Filippo Cassarà, Viviana Tartaglia, Valentina Cigna, Emanuela Orlandi, Francesco Picciotto, Nourah H Al Qahtani, Eman Alsulmi, Noor B Almandil, Sayed AbdulAzeez, <b>Borgio, J.F.</b> , Aurelio Maggio. <b>2022</b> . Celomic fluid: laboratory workflow for prenatal diagnosis of monogenic diseases. <i>Molecular Diagnosis &amp; Therapy</i> , 28(2): 239-252. Impact factos: <b>4.074</b> <a href="#">[Link]</a> .
17.	Alsulaim, A.Y., Azam, F., Sebastian, T., Hassan, F.M., AbdulAzeez, S., <b>Borgio, J.F.</b> , Alzahrani, F.M. <b>2022</b> The association between two genetic polymorphisms in ITGB3 and increase risk of venous thromboembolism in cancer patients in Eastern Province of Saudi Arabia. <i>Saudi Journal of Biological Sciences</i> , 29(1): 183-189.. Scopus CiteScore 4.8, Quartile 1; WoS: Q2, <b>Impact factor: 4.219</b> . <a href="#">[Link]</a>
18.	Almahasheer AA, Mahmoud A, ElKomy H, Alqosaibi Al, Akhtar S, AbdulAzeez S, <b>Borgio, J.F.</b> <b>2022</b> . Novel feather degrading keratinases from <i>Bacillus cereus</i> group: Biochemical, genetic and bioinformatics analysis. <i>Microorganisms</i> . 10(1): 91. WoS: Q2; Impact factor: 4.926. <a href="#">[Link]</a> .
19.	Sowmiya P, Stalin Dhas T, Sai DN, Jyotsna, Anandakumar N, Kumar VG, Ravi M, Nalini S, <b>Borgio JF</b> , and AbdulAzeez S, and Karthick, V. <b>2022</b> . Genotoxicity evaluation of pectin mediated gold nanoparticles on Zebrafish embryos ( <i>Danio rerio</i> ). <i>Applied Biochemistry and Microbiology</i> . 58:186–194. WoS: Q4, Impact factor: 0.886. <a href="#">[Link]</a>
20.	<b>Borgio, J.F.</b> Alsuwat HS, Alamoudi W, Hegazi FM, Al Otaibi WM; Ibrahim AM, Almandil NB, Al-Amodi AM, Alyousef YM, Al-Shwaimi E, Al-Masoud N, Kamaraj B, AbdulAzeez, S. <b>2022</b> . Exome array identifies functional exonic biomarkers for pediatric dental caries. <i>Computers in Biology and Medicine</i> , 2022: 105019. <b>WoS: Q1; Impact factor: 6.698</b> . <a href="#">[Link]</a> ..
21.	<b>Borgio, J.F. *</b> , Alia Saeed Rasdan, Bayan Sonbol, Galyah Alhamid., Almandil NB, AbdulAzeez, S. <b>2021</b> . Emerging status of multidrug resistant bacteria and fungi in the Arabian Peninsula. <i>Biology</i> , 2021, 10(11), 1144. <b>WoS: Q1; Impact factor: 5.089</b> . <a href="#">[Link]</a> .
22.	Al Qahtani NH, AbdulAzeez S, Almandil NB, Alhur NF, Alsuwat HS, Al Taifi HA, Al-Ghamdi AA, Jermy BR, Abouelhoda M, Subhani S, Al Asoom L, <b>Borgio, J.F. *</b> <b>2021</b> . Whole-genome sequencing reveals exonic variation of ASIC5 gene results in recurrent pregnancy loss. <i>Frontiers in Medicine</i> . 8:699672. Scopus CiteScore 4.9, Quartile 1; WoS: Q1; <b>Impact factor: 5.091</b> <a href="#">[Link]</a>
23.	AlEraky, D.M., Madi, M., Tantawi, M.E., AlHumaid, J., Fita, S., AbdulAzeez, S., <b>Borgio, J.F. *</b> , Al-Harbi, F., Alagl, A.S. <b>2021</b> . Predominance of non-Streptococcus mutans bacteria in dental biofilm and its relation to caries progression. <i>Saudi Journal of Biological Sciences</i> . 28: 7390–7395. Scopus CiteScore 4.8, Quartile 1; WoS: Q2, <b>Impact factor: 4.219</b> . <a href="#">[Link]</a> .
24.	. Alhur NF, Al Qahtani NH, AlSuhaibani ES, Alsulmi E, Almandil NB, AbdulAzeez S, <b>Borgio, J.F.*</b> <b>2021</b> . Fetal nucleated red blood cells preferable than cell-free fetal DNA for early determination of gender among invasive and non-invasive source using novel four genes multiplex PCR. <i>International Journal of General Medicine</i> , 14:9697-9705. Scopus CiteScore 3.6, Quartile 1. WoS: Q2, Impact factor: 2.466 <a href="#">[Link]</a>
25.	Khan, J., Al Asoom L, Al Sunni A, Rafique N, Latif R, Al Saif S, Almandil NB, Almohazey D, AbdulAzeez S, <b>Borgio, J.F.*</b> <b>2021</b> . Genetics, Pathophysiology, Diagnosis, Treatment, Management, and Prevention of Migraine. <i>Biomedicine &amp; Pharmacotherapy</i> , 139: 111557, Scopus CiteScore 6.5, Quartile 1; WoS: Q1; <b>Impact factor: 6.529</b> . <a href="#">[Link]</a>
26.	Al Asoom L, Alajmi MS, Alsudairi RR, AlShamlan AA, Almomaten AA, Alqarni AA, Alshammari MH, Rafique N, Latif R, Al Sunni A, Almohazey D, AbdulAzeez S, <b>Borgio, J.F.</b> <b>2021</b> . Association between sex hormones and migraine in young Saudi females. <i>Saudi Medical Journal</i> July 2021, 42 (7) 793-797. WoS: Q3; Impact factor: 1.484. <a href="#">[Link]</a> .
27.	Osman, Y., Elsharkawy, T., Hashim MT., Alratroot JA., Alsuwat, HS., Al Otaibi, WM., Hegazi, FM., AbdulAzeez S, <b>Borgio, J.F.</b> <b>2021</b> . Functional multigenic variations associated with Hodgkin Lymphoma. <i>International Journal of Laboratory Hematology</i> . In Press, 43:1472–1482: <b>2.877</b> . <a href="#">[Link]</a> .
28.	AlJindan, R., AlEraky, D.M., <b>Borgio, J.F.</b> , AbdulAzeez, S., Abdalhamid, B., Mahmoud, N., Farhat, M. <b>2021</b> . Diagnostic deficiencies of <i>C. difficile</i> infection among patients in a tertiary hospital in Saudi Arabia: A laboratory-based case series. <i>Saudi Journal of Biological Sciences</i> . 28(8):4472-4477. Scopus CiteScore 4.8, Quartile 1; WoS: Q2, <b>Impact factor: 4.219</b> . <a href="#">[Link]</a>





29.	Latif R, Rafique N, Al Asoom L, Al Sunni A, M Salem A, AlNoaimi D, AlHarbi W, Shaikh A, AlRaddadi S, AlMuhaish L, Almohazey D, AbdulAzeez, S., and <b>Borgio, J.F.</b> 2021. Diagnostic accuracy of serum Calcitonin Gene-Related Peptide and Apolipoprotein E in Migraine: A preliminary study, <i>International Journal of General Medicine</i> . 14:851-856. Scopus CiteScore 3.6, Quartile 1. Impact factor: 2.466. <a href="#">[Link]</a>
30.	Ababutain, IM., Aldosary, SK., Aljuraifani, AA., Alghamdi, Al., Alabdallal, AH., Al-Khaldi, EM., Aldakeel, SA., Almandil, NB., AbdulAzeez, S., and <b>Borgio, J.F.</b> 2021. Identification and Antibacterial Characterization of Endophytic Fungi from <i>Artemisia sieberi</i> , <i>International Journal of Microbiology</i> , Article ID 6651020. Scopus CiteScore 3.3, Quartile 2. <a href="#">[Link]</a>
31.	AlJindan, R, AlEraky, D.M, Mahmoud, N., Abdalhamid, B., Almustafa, M., AbdulAzeez, S., <b>Borgio, J.F.</b> 2021. Drug resistance-associated mutations in ERG11 of multidrug-resistant <i>Candida auris</i> in a tertiary care hospital of Eastern Saudi Arabia. <i>Journal of Fungi</i> . 2021,(7):18. <b>Impact factor: 5.816.</b> <a href="#">[Link]</a> .
32.	Al-Qaaneh, A.M., Alshammari, T., Aldahhan, R., Aldossary, H., Alkhalifah, Z.H., <b>Borgio, J.F.*</b> 2021. Genome composition and genetic characterization of SARS-CoV-2. <i>Saudi Journal of Biological Sciences</i> . 28(3):1978-1989. <b>Impact factor: 4.219.</b> <a href="#">[Link]</a>
33.	Albakri, A.H., Al-Shuhaib, M.B.S., Alwan, S.L., AbdulAzeez, S., <b>Borgio, J.F.</b> 2021. Deleterious missense variants in the aflatoxin biosynthesis genes explain the low toxicity of <i>Aspergillus flavus</i> from infected rice. <i>Microbial Pathogenesis</i> . 152, March 2021, 104605, <b>Impact factor: 3.738.</b> <a href="#">[Link]</a>
34.	Cyrus, C., Vatte, C., Chathoth, S, AbdulAzeez S, <b>Borgio, J.F.</b> , Alfalah, R., Alsaikhan, J., Al-Ali, A.K. 2021. Hemoglobin switching modulator SNPs rs5006884 is associated with increased HbA2 in $\beta$ -thalassemia carriers. <i>Archives of Medical Science</i> . 2021;17(4):1064–1074. Scopus Quartile 1; WoS: Q2, <b>Impact factor: 3.318.</b> <a href="#">[Link]</a>
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#### Scientific Publications (BOOKS, Translations, Chapter in Books, etc.)

#	Name of Authors(s)	Title of the Book	Publishers	Year
1	J. Francis Borgio, K. Sahayaraj and I. Alper Susurluk (Eds).	Microbial insecticides: Principles and application, ISBN: 978-1-61209-223-2. <a href="#">[Link]</a>	Nova Science Publishers, New York, USA.	2011. 
2	J. Francis Borgio, Ebtessam Abdullah Al-Suhaimi and Hind Saleh Alsawat (Eds).	Souvenir & Book of Abstracts of IRMC-SRP-2020. <a href="#">[Link]</a>	Institute for Research and Medical Consultations (IRMC), Imam Abdulrahman Bin Faisal University (IAU), Dammam, Saudi Arabia.	2020. 
3	Ebtessam Abdullah Al-Suhaimi, J. Francis Borgio, and Hind Saleh Alsawat (Eds).	Souvenir & Book of Abstracts of IRMC-SRP-2021. ISBN: 978-603-91617-9-0 <a href="#">[Link]</a>	Institute for Research and Medical Consultations (IRMC), Imam Abdulrahman Bin Faisal University (IAU), Dammam, Saudi Arabia.	2021 
4	Ebtessam Abdullah Al-Suhaimi, J. Francis Borgio, Thamer Alshammari, and Razan Aldahhan (Eds).	Souvenir & Book of Abstracts of the 4th Annual IRMC Summer Research Program (IRMC-SRP-2022) ISBN: 978-603-91311-7-5 <a href="#">[Link]</a> .	Institute for Research and Medical Consultations (IRMC), Imam Abdulrahman Bin Faisal University (IAU), Dammam, Saudi Arabia.	2022. 

#### PATENTS:



1.	<b>Borgio, JF.</b> , Alhur, NF., Al Qahtani, NH., AbdulAzeez, S., Almandil NB, Alsuhaibani EA. METHOD FOR EARLY DETERMINATION OF GENDER BY MULTIPLEX PCR DETECTING FOUR GENES. (United States Patent and Trademark Office, United States Patent Application Disclosed on 09 May 2021; Filing Date: 12 Aug 2022; File Number: 17/819,472), [Link]
2.	Aldossary, H.A., Rehman S., Jermy R.B., AbdulAzeez, S., <b>Borgio, JF.</b> , Al-Suhaimi E.A. Silver Silicalite Zeolite Nanomaterials for Reducing Candida Auris Biofilms. (United States Patent and Trademark Office, United States Patent Application; File Number: 18/313,025; Filing date: May 5, 2023).
3.	<b>Borgio, JF.</b> , Alhur, NF., Al Qahtani, NH., AbdulAzeez, S. Magnetic microbeads with percoll for isolating Fetal Nucleated Red Blood Cells from mother's blood during early pregnancy. (United States Patent and Trademark Office, United States Patent Application Disclosed on 02 J 2021; Filing Date: _), [Link].
4.	<b>Borgio, JF.</b> , AbdulAzeez, S., Al-Muhanna, F., Al-Ali, A.K. Primer Compositions For Detecting Thalassemia. (United States Patent and Trademark Office, United States Patent Application 20210285051; Filing Date: 27th May 2021), Published on 16th Sep 2019; Published by United States Patent and Trademark Office [Link]
5.	<b>US PATENT GRANTED:</b> Borgio, JF., AbdulAzeez, S., Al-Muhanna, F., Al-Ali, A.K. Single tube multiplex PCR method for the detection of <i>HBA1</i> , <i>HBA2</i> and <i>HBA12</i> genes in Saudis. (United States Patent and Trademark Office, <b>United States Patent Application 20200239956</b> ; Filing Date: 25th Jan 2019), Published on 07/30/2020; Patent No: "US 11,118,229 B2" on 14 <sup>th</sup> Sep 2021. <b>Granted by United States Patent and Trademark Office.</b> [Link].
6.	<b>US PATENT GRANTED:</b> Al-Ali, AK., <b>Borgio, JF.</b> , Nasserullah, Z., AbdulAzeez, S., Al-Jarrash, S. Sequence specific primer pool for multiplex PCR and method of detecting microbial infection in thalassemia patients" Filed on 21 Oct 2014. Patent No: "US 9863009 B2" on 9 <sup>th</sup> Jan 2018. <b>Granted by United States Patent and Trademark Office.</b> [Link]

#### Scientific Research Papers Presented to Refereed Specialized Scientific Conferences

#	Name of Investigator(s)	Research Title	Conference and Publication Date
1.	Rahaf Alhujaily, Ayedah Kaabi, Norah F Alhur, Noor B Almandil, Sarah Almofty, Sayed Abdul Azeez, J Francis Borgio.	Bacterial genome mining for effective biosynthetic gene cluster against <i>Candida auris</i> .	Saudi Journal of Medicine & Medical Sciences. 2023; 11(1):116. [Link]
2.	Maraam M. Al Qout, Sadeem S. Alrubaian, Norah F. Alhur, Noor B. Almandil, Abdulla AlSulaiman, Sayed Abdul Azeez, J Francis Borgio.	Variants in <i>OR12D2</i> Gene in Children with Autism Lower the Risk of Developing ADHD.	Saudi Journal of Medicine & Medical Sciences. 2023; 11(1):115. [Link]
3.	Ghadah AlQarni, Manar Abufour, Shahad AlAli, Norah F Alhur, Noor B Almandil, Dana Almohazey, Sultan Akhtar, Nourah H Al Qahtani, Fahd M. AlShehri, Sayed Abdul Azeez, J Francis Borgio.	Morphological Features of Fetal Nucleated Red Blood Cells in Early Pregnancy Using Microscopic and Molecular Techniques.	Saudi Journal of Medicine & Medical Sciences. 2023; 11(1):114. [Link]
4.	Ahmed A Al yateem, Bader S Alsolo, Norah Fahad Alhur, Sarah Almofty, Noor B Almandil, Nourah H Al Qahtani, Fahd M. AlShehri, J Francis Borgio, Sayed Abdul Azeez.	Direct Cell Multiplex PCR for Detecting Gender and Gene Variation in Early Pregnancy.	Saudi Journal of Medicine & Medical Sciences. 2023; 11(1):113. [Link]
5.	Fahad Aljabbari, Hezam Alqahtani, Adel Zeidan, Norah F Alhur, Sarah Almofty, Noor B Almandil, Sana Al-Jarrash, Zaki A Naserullah, Lubna Ibrahim Al-Asoom, J Francis Borgio, Sayed Abdul Azeez.	Identification of Interrupting HBB Variants to Validate the Specificity of a Novel SCD-Specific ARMS-PCR Assay.	Saudi Journal of Medicine & Medical Sciences. 2023; 11(1):112. [Link]



6.	Yahya Alsomali, Nourah H. Al Qahtani, Sayed Abdulazeez, J. Francis Borgio*. 2022. ARMS PCR for Identifying Pathogenic Variation in ASIC5 Gene. Supplement issue - Mawhiba research enrichment program-2021. Saudi Journal of Medicine & Medical Sciences. 2022; 10(4):538. <a href="#">[Link]</a>
7.	Mohammed Basim, Mohammad Azam Ansari, Sayed Abdulazeez, J. Francis Borgio. 2022. Isolation, Identification, and Characterization of Microbes from Currency Notes. Supplement issue - Mawhiba research enrichment program-2021. Saudi Journal of Medicine & Medical Sciences. 2022; 10(4):540. <a href="#">[Link]</a>
8.	Wesam Algurashi, Nourah H. Al Qahtani, Sayed Abdulazeez, J. Francis Borgio*. 2022. Designing Single Tube Multiplex Gender PCR using ACTB, RBMY1A1, DYS14 and CDY1 Genes. Supplement issue - Mawhiba research enrichment program-2021. Saudi Journal of Medicine & Medical Sciences. 2022; 10(4):536. <a href="#">[Link]</a>
9.	Mohammed Alsalman, Nourah H. Al Qahtani, Sayed Abdulazeez, J. Francis Borgio*. 2022. ACTB, KDM5D, UTY and USP9Y Genes on Developing Single Tube Sex Determination PCR. Supplement issue - Mawhiba research enrichment program-2021. Saudi Journal of Medicine & Medical Sciences. 2022; 10(4):535. <a href="#">[Link]</a>
10.	Khalid Ahmed Al-shubailiy, Nourah H. Al Qahtani, J. Francis Borgio, Sayed Abdulazeez. 2022. Multiplexing ACTB, KDM5D, RBMY and CDY1 Genes for Developing Sex Determination PCR. Supplement issue - Mawhiba research enrichment program-2021. Saudi Journal of Medicine & Medical Sciences. 2022; 10(4):534. <a href="#">[Link]</a>
11.	Hyder Basheer Al-Sinan, Nourah H. Al Qahtani, J. Francis Borgio, Sigrid Swagemakers, Hari S. Sharma, Peter J. van der Spek, Sayed Abdulazeez. 2022. Identifying Functional Variation in ALMS1 Gene using ARMS PCR. Supplement issue - Mawhiba research enrichment program-2021. Saudi Journal of Medicine & Medical Sciences. 2022; 10(4):533. <a href="#">[Link]</a>
12.	Ali AL-Khalifah, Nourah H. Al Qahtani, J. Francis Borgio, Sayed Abdulazeez. 2022. Effectiveness of KDM5D, ACTB, DYS14, and SRY Genes on Gender Specific Multiplex PCR. Supplement issue - Mawhiba research enrichment program-2021. Saudi Journal of Medicine & Medical Sciences. 2022; 10(4):532. <a href="#">[Link]</a>
13.	Abdullah Al-Hamadat, Nourah H. Al Qahtani, J. Francis Borgio, Sigrid Swagemakers, Hari S. Sharma, Peter J. van der Spek, Sayed Abdulazeez. 2022. Genotyping an Exonic Variation in PKHD1 gene using ARMS PCR. Supplement issue - Mawhiba research enrichment program-2021. Saudi Journal of Medicine & Medical Sciences. 2022; 10(4):531. <a href="#">[Link]</a>
14.	Sarah Althuwaiqeb, Sukaina Aldamen, Remah Alzayyat, Batoul Alqahtani, Norah F Alhur, Nourah H Al Qahtani, Sayed AbdulAzeez S, <b>Borgio JF*</b> . 2022. Novel Multiplex PCR for Non-Invasive Early Fetal Gender Determination. At "6th HEALTH PROFESSIONS CONFERENCE 2022, at King Saud Bin Abdulaziz University for Health Sciences – Al Ahsa, Saudi Arabia. On 25 to 27 Jan 2022. <b>(Received 1<sup>st</sup> Place during the Poster Presentation)</b> <a href="#">[Link]</a> .
15.	Azhar Alhariri, Majed Aloqaily, Norah F Alhur, Al Qahtani NH, AbdulAzeez S, <b>Borgio JF*</b> . 2022. Screening and Identification of Genetic Variations in the Prenatal Samples using ARMS PCR and Sequencing. Abstracts of "Institute for Research and Medical Consultations (IRMC) - Summer Research Program – 2021" presented at Imam Abdulrahman Bin Faisal University, Dammam, Saudi Arabia, on September 14, 2021. Saudi Journal of Medicine & Medical Sciences. 2022;10(1):92. <a href="#">[Link]</a> .
16.	Aqeelah Salman Alfaraj, Maryam Jawad Alabdullah, Rawan Khalid Alaqeel, Alsuwat HS, Almofty SA, Akhtar S, AlJindan R, AbdulAzeez S, <b>Borgio JF*</b> . 2022. Screening and Isolation of Novel Native Bacteria with Anti-Candida Activity against Multidrug-Resistant Candida auris. Abstracts of "Institute for Research and Medical Consultations (IRMC) - Summer Research Program – 2021" presented at Imam Abdulrahman Bin Faisal University, Dammam, Saudi Arabia, on September 14, 2021. Saudi Journal of Medicine & Medical Sciences. 2022;10(1):92. <a href="#">[Link]</a> .
17.	Batoul Alqahtani, Remah Alzayyat, Sarah Althuwaiqeb, Sukaina Aldamen, Alhur NF, Al Qahtani NH, AbdulAzeez S, <b>Borgio JF*</b> . 2022. Novel Multiplex PCR for Early Non-invasive Fetal Gender Determination. Abstracts of "Institute for Research and Medical Consultations (IRMC) - Summer Research Program – 2021" presented at Imam Abdulrahman Bin Faisal University, Dammam, Saudi Arabia, on September 14, 2021. Saudi Journal of Medicine & Medical Sciences. 2022;10(1):91. <a href="#">[Link]</a>
18.	Rahaf Khalid Alquwaie, AlGhamdi, Hind Saleh Alsuwat, Noor B Almandil, Abdulla AlSulaiman, Sayed AbdulAzeez., <b>J. Francis Borgio*</b> . 2021. Oud Odorant Molecules Interact with Mutated OR6C74 can Activate Olfactory Receptors. Abstracts of "Institute for Research and Medical Consultations (IRMC) - Summer Research





	Program – 2020” presented at Imam Abdulrahman Bin Faisal University, Dammam, Saudi Arabia, on November 18, 2020. Saudi Journal of Medicine & Medical Sciences. 2021;9:93. <a href="#">[Link]</a> .
19	Fatimah Dheem Aldosari, Hind Saleh Alsuwat, Noor B Almandil, Abdulla AlSulaiman, <b>J. Francis Borgio</b> , Sayed AbdulAzeez. <b>2021</b> . Impact of variations in DRD2 gene on the structure of DRD2 protein and interaction with risperidone: A pharmacogenetics study. Abstracts of “Institute for Research and Medical Consultations (IRMC) - Summer Research Program – 2020” presented at Imam Abdulrahman Bin Faisal University, Dammam, Saudi Arabia, on November 18, 2020. Saudi Journal of Medicine & Medical Sciences. 2021;9:97. <a href="#">[Link]</a> .
20	Norah Abdulraheem Alzahrani, Amaal Ghazi AlOtaibi, Maha M. AlShammari, Lubna Ibrahim Al Asoom, <b>J. Francis Borgio</b> . <b>2021</b> . Deep Learning Vs. Machine Learning Based Screening of COVID-19 Using Chest X-Ray Images. Abstracts of “Institute for Research and Medical Consultations (IRMC) - Summer Research Program – 2020” presented at Imam Abdulrahman Bin Faisal University, Dammam, Saudi Arabia, on November 18, 2020. Saudi Journal of Medicine & Medical Sciences. 2021;9:101. <a href="#">[Link]</a> .
21	Norah Ali AlGhamdi, Hind Saleh Alsuwat, Sayed AbdulAzeez., <b>J. Francis Borgio*</b> . <b>2021</b> . In Silico Approaches: The Composition Variations of SARS-CoV-2 Spike Protein and Human ACE2 Contribute to the level of Infection. Abstracts of “Institute for Research and Medical Consultations (IRMC) - Summer Research Program – 2020” presented at Imam Abdulrahman Bin Faisal University, Dammam, Saudi Arabia, on November 18, 2020. Saudi Journal of Medicine & Medical Sciences. 2021;9:99. <a href="#">[Link]</a> .
22	Wejdan Mohammed AlGhamdi, Hind Saleh Alsuwat, Noor B Almandil, Abdulla AlSulaiman, <b>J. Francis Borgio</b> , Sayed AbdulAzeez. <b>2021</b> . Effect of Amino Acid Substitutions in OR9K2 on the Olfactory Neural Response activating Odor Molecules. Abstracts of “Institute for Research and Medical Consultations (IRMC) - Summer Research Program – 2020” presented at Imam Abdulrahman Bin Faisal University, Dammam, Saudi Arabia, on November 18, 2020. Saudi Journal of Medicine & Medical Sciences. 2021;9:92. <a href="#">[Link]</a> .
23	Maram Adnan Alismail, Hind Saleh Alsuwat, Noor B Almandil, Abdulla AlSulaiman, Sayed AbdulAzeez, J. Francis Borgio. <b>2020</b> . A pilot exome-wide association analysis for candidate genes for ASD in Saudi females. In: Abstracts of “Institute for Research and Medical Consultations (IRMC) - Summer Research Program for Undergraduate Students – 2019” presented at Imam Abdulrahman Bin Faisal University, Dammam, Saudi Arabia, on October 6, 2019. Saudi Journal of Medicine & Medical Sciences. 8(1): 68. <a href="#">[Link]</a>
24	Hamsa M. Alsubaie, Hind Saleh Alsuwat, Noor B Almandil, Abdulla AlSulaiman, Sayed AbdulAzeez, J. Francis Borgio. <b>2020</b> . Y-haplotype and exome-wide association study for pathogenic variants and genes significantly raise the risk of autism in Saudi males. In: Abstracts of “Institute for Research and Medical Consultations (IRMC) - Summer Research Program for Undergraduate Students – 2019” presented at Imam Abdulrahman Bin Faisal University, Dammam, Saudi Arabia, on October 6, 2019 Saudi Journal of Medicine & Medical Sciences. 8(1): 67. <a href="#">[Link]</a>
25	Angela Vitrano, Antonella Meloni, Walter Addario Pollina, Mehran Karimi, Amal El-Beshlawy, Mahmoud Hajipour, Vito Di Marco, Saqib Hussain Ansari, Aldo Filosa, Paolo Ricchi, Adriana Ceci, Shahina Daar, Sylvia Titi Titi Singer, <b>J F Borgio</b> , Alessia Pepe, Salvatore Scondotto, Gabriella Dardanoni, Rosario Di Maggio, Massimiliano Sacco, Elliott P. Vichinsky, Aurelio Maggio; Development of a Severity Score System for Thalassemia Syndromes. <b>Blood 2019</b> ; 134 (Supplement_1): 2225. doi: <a href="https://doi.org/10.1182/blood-2019-124675">https://doi.org/10.1182/blood-2019-124675</a> ( <b>Impact factor: 16.562</b> ) <a href="#">[Link]</a>
26	<b>Borgio, J.F.</b> , Delivered a Guest Lecture on “Molecular genetics and Consanguinity” at IRMC-Summer Research Program -2019, organized by Institute for Research and Medical Consultations (IRMC), Imam Abdulrahman Bin Faisal University, Dammam, Kingdom of Saudi Arabia, on July 03, 2019.
27	<b>Borgio JF</b> , AbdulAzeez S, Naserullah ZA, Al-Jarrash S, Al-Madan MS, Al-Suliman AM, AlKhalifah MA, ElFakharay HI, Al-Ali AK. Phenomics of interacting globin gene variants in Saudi population at Human and animal welfare (ZooCong-2018), organized by Department of Zoology, St. Xavier's College (autonomous), Palayamkottai -627 002, Tamil Nadu, India, on January 10-13, <b>2018</b> . <b>Plenary Lecture</b>
28	<b>Borgio JF</b> . Globin Gene Variants: Co-inheritance and Couples at risk (G2 Vs C2)" at " National Seminar on Genetic Diseases with Emphasis on Thalassemia" held on January 8th <b>2018</b> at Department of Biotechnology, Malankara Catholic College, Mariagiri, Kaliakkavilai, Tamil Nadu, India. <b>Guest Lecture</b>





29	Al-Amodi AM, Ghanem NZ, Sumayh A. Aldakeel, Lubna Ibrahim Al Asoom, Almandil NB, Naserullah ZA, Al-Jarrash S, AbdulAzeez S, <b>Borgio JF</b> . Is Hemoglobin A <sub>2</sub> (HbA <sub>2</sub> ) a diagnostic parameter for beta-thalassemia trait (β-TT) in the Saudi population?. 8 <sup>TH</sup> Annual Forum for Medical Research at King Abdullah International Medical Research Center, Riyadh, KSA. On 5 <sup>th</sup> to 7 <sup>th</sup> Dec <b>2017</b> . Page No: 67.
30	Fatimah Alkhalifah, Noor B Almandil, Zaki A. Naserullah, Sana Al-Jarrash, Sayed AbdulAzeez, <b>Borgio JF</b> . The -α <sup>3.7</sup> deletion is associated with reduced level of hemoglobin (HbA) in healthy females. 8 <sup>TH</sup> Annual Forum for Medical Research at King Abdullah International Medical Research Center, Riyadh, KSA. On 5 <sup>th</sup> to 7 <sup>th</sup> Dec <b>2017</b> . Page No: 78.
31	Aldakeel SA, Ghanem NZ, Al-Amodi AM, Al Asoom LS, Almandil NB, Naserullah ZA, Al-Jarrash S, AbdulAzeez S, <b>Borgio JF</b> . Six Newly Identified Variants in Beta-Globin Gene. 8 <sup>TH</sup> Annual Forum for Medical Research at King Abdullah International Medical Research Center, Riyadh, KSA. On 5 <sup>th</sup> to 7 <sup>th</sup> Dec <b>2017</b> . Page No: 116.
32	Mousa A. Alaithan, AbdulAzeez S, <b>Borgio JF</b> . A comprehensive review on the prevalence of beta-globin variations in Saudi Arabia. 2nd International SSMG Symposium, KACST in Riyadh on 26-27th April 2017.
33	Lina Ali Alhumaid, AbdulAzeez S, Naserullah ZA, Al-Jarrash S, <b>Borgio JF</b> . HBA1 Gene Mutations of Beta-Thalassemia Patients. The Health Profession Conference 2017. Held at King Saud bin Abdulaziz University for Health Sciences in Riyadh on 23-25th April 2017.
34	Batool Abdulhadi Alkhalifah, Fatimah Abduljalil Alkhalifah, Fatimah Hassan Alajwad, Zaki A. Naserullah, Sana Al-Jarrash, Ahmed M. Al-Suliman, Mohammed S. Al-Madan, Sayed AbdulAzeez, <b>Borgio JF</b> . Sequence variants in the AHSP (α-Hemoglobin stabilizing protein) gene is associated with the level of haematological parameters in Saudis. KAIMRC-ER 5TH Research Day at King Saud bin Abdulaziz University for Health Sciences, Al-Ahsa. On 4th May 2017
35	Al Shammari M, Al Ali R, Al-Balawi N, Al-Enazi M, Al-Muraikhi A, Busaleh F, Al-Sahwan A, <b>Borgio JF</b> , Abdul Azeez S, Al-Ali A, Acharya S. KCNQ1 Gene Polymorphism and its Association with CVD and T2DM in the Saudi Population. The International Genomic Medicine Conference (3rd IGMC, 2015), Jeddah, Saudi Arabia. From 30 <sup>th</sup> Nov to 3 <sup>rd</sup> Dec 2015.
36	<b>Borgio, J.F.</b> RNAi mediated gene knockdown in sucking and chewing insect pests. In: Biopesticides International Conference (BIOCICON-2009), organized by Crop Protection Research Centre, Department of Advanced Zoology and Biotechnology, St. Xavier's College (autonomous), Palayamkottai -627 002, Tamil Nadu, India, on November 26-28, 2009.
37	Khajehkarimodini, L. and <b>Borgio J.F.</b> Effect of heat and cold shock on gene expression of <i>Escherichia coli</i> NCIM 2064. In: 50 <sup>th</sup> Annual Conference of Association of Microbiologists of India (AMI) 2009, organized by National chemical Laboratory, Pune, India, December 15-18, 2009.
38	<b>Borgio, J.F.</b> and Sreekanth, K.B. <i>Gynandropsis pentaphylla</i> DC extracts on the production of microbial proteins. In: National Seminar on Morden Biology - Prespective and prospects, Kristu Jayanti College, Bangalore - 77, India, 19-20.03.09.
39	<b>Borgio, J.F.</b> and S. Farheen. Immobilization of microbial (wild and mutant) strains producing alpha amylase enzyme, on coconut fibre and alginate matrix, for enhanced activity. In: National Seminar on Morden Biology - Prespective and prospects, Kristu Jayanti College, Bangalore - 77, India, 19th and 20th March 2009.
40	<b>Borgio, J.F.</b> , et al., "Optimization of exopolymer production by <i>Pseudomonas aeruginosa</i> NCIM 2862 in the National Seminar on Biodegradation and Bioremediation, Saurashtra College, Madurai, India. 17to18.02.2005
41	<b>Borgio, J.F.</b> and K. Sahayaraj "Bioefficacy of the entomopathogenic fungus, <i>Metarhizium anisopliae</i> on <i>Dysdercus cingulatus</i> eggs." In: National Seminar on Technology and Management of Bioresearches, St. Xavier's College, Palayamkottai, India. 21to22.03.2005.
42	Subathra, M., <b>Borgio, J. F.</b> et al., Effect of foliar sprayed diazotrophs on the metabolic growth of Black gram <i>Vigna mungo</i> L. In: International Conference on Recent Advances in Biosciences, PGP College, Namakkal, India, 12to13.02.2004.



43	Subathra, M., <b>Borgio, J.F.</b> , Ramesh, S., et al., Synergistic effect of phosphobacteria, VAM and rock phosphate on the morphometric changes in Black gram <i>Vigna mungo</i> L.” In: Symposium on Recent Trends in Biosciences, Sri Paramakalyani College, Alwarkurichi, India, 27to28.02.2004
44	Ebency. I. L, <b>Borgio, J.F.</b> , Amuthan, M and Ramesh, S “Microbial and biochemical analysis of shrimp and processing environment” In: Symposium on Recent Trends in Biosciences conducted at SPKC, Alwarkurichi, Tamil Nadu, India. Ibid
45	Ramesh, M., <b>Borgio, J.F.</b> , Amuthan, M. “Impact analysis of atrazine on the phosphatase activity and biodegradation potentials of the native phosphate solubilizing bacteria” In: Symposium on Recent Trends in Biosciences, SPK.College, Alwarkurichi, India. Ibid.

#### Completed Research Projects - **AS PRINCIPLE INVESTIGATOR**

#	Name of Investigator/s	Project reference Number / Research Title	Report Date	Funding Source & Amount
1.	<b>Dr. J. Francis Borgio</b> and Dr. F.S. Qaw	<b>2012186:</b> Screening of carriers for ATRX (alpha-thalassemia/ mental retardation, X-linked) syndrome in alpha thalassemia patients in Eastern Province, Saudi Arabia.	31 Dec 2013	DSR UoD. 96,000
2.	<b>Dr. J. Francis Borgio</b> and Dr. S. AbdulAzeez	<b>32-3:</b> Development of simple multiplex PCR assay to detect the prevalent bacterial and fungal infections	4 <sup>th</sup> Dec 2013	<b>KACST</b> , 112,000
3.	<b>Dr. J. Francis Borgio</b> , Dr. Y. Al-Yousef and Dr. S. AbdulAzeez	<b>2013113:</b> Interrelationships between gene polymorphisms and dental caries among Saudi children in Eastern Province	17 <sup>th</sup> May 2015	DSR UoD. 199,000
4.	<b>Dr. J. Francis Borgio</b> , Dr. M. Al-Madan, and Dr. S. AbdulAzeez	<b>2014024:</b> Sequence variants of the AHSP gene in Saudi subjects with $\alpha$ -thalassemia and/or $\beta$ -thalassemia mutations	13 <sup>th</sup> Jan 2015	DSR UoD. 199,900
5.	<b>Dr. J. Francis Borgio</b> , Dr Fahad Al-Muhanna and Dr. A. K Al-Ali	<b>35-204:</b> Development of simple PCR method for the detection of newly discovered $\alpha$ 12 allele as part of premarital screening	20 <sup>th</sup> Aug 2016	<b>KACST</b> 152,000
6.	<b>Dr. J. Francis Borgio</b> , Dr. Y. Al-Yousef, Dr. S. AbdulAzeez, Dr.E. AlShwaimi, Dr. F. AlOnaizan	<b>2016-071-IRMC:</b> Association between the tooth decay and exonic polymorphisms in Saudis	10 <sup>th</sup> Apr 2018	DSR UoD. 200,000

#### Completed Research Projects - **AS CO-INVESTIGATOR**

#	Name of Investigator/s	Project reference Number / Research Title	Report Date	Funding Source & Amount
7.	Dr. F.S. Qaw, Dr. M.S. Akthar, <b>Dr. J. Francis Borgio</b> (Research assistant)	Screening of carriers for ATRX syndrome in alpha thalassemia patients in Eastern Province, Saudi Arabia	31 Dec 2012	DSR UoD. 99,000
8.	Dr. F.S. Qaw, <b>Dr. J. Francis Borgio</b> and Dr. S. AbdulAzeez	<b>2014019:</b> Prevalence of novel ATRX gene mutations (c.29delA and c.-51_54delAATG) in healthy Saudi population	31 Dec 2014	DSR UoD. 100,000



9.	M. Al-Madan, <b>Dr. J. Francis Borgio</b> and Dr. S. AbdulAzeez	<b>2013255:</b> Molecular nature of point $\alpha^0$ and $\alpha^+$ defects in Saudis by direct DNA sequencing.	22 Feb 2015	DSR UoD. 199,800
10.	Dr. S. AbdulAzeez, Dr. Amein K Al-Ali, Dr. Awatif Al-Nafie, <b>Dr. J. Francis Borgio</b> (Research assistant)	<b>2013261:</b> Studies on genetic variants of 9p21 and 10p11.23 loci in the development of coronary artery disease in population of the Eastern Province of Saudi Arabia	02 June 2015	DSR UoD. 199,900
11.	Dr. S. AbdulAzeez, Dr. Amein K Al-Ali, Dr. Awatif Al-Nafie, and <b>Dr. J. Francis Borgio</b>	<b>2014051:</b> Microarray gene profiling of sickle cell disease with cardiovascular complications	14 <sup>th</sup> Jan 2015	DSR UoD. 199,900
12.	Dr. S. AbdulAzeez, <b>Dr. J. Francis Borgio</b>	<b>2016-077-IRMC:</b> Identification of the break/fusion point of HBA12 gene prevalent in Saudis	20 <sup>th</sup> Apr 2018	DSR UoD. 100,000
13.	Dr. Noor Barak Almandil, Dr. Mona Al-Saihat, <b>Dr. J. Francis Borgio</b> , Dr. Safa Al-Zaharani	<b>2016-057-IRMC:</b> Changes in the Molecular Pathways and Genetic Makeup in Saudis with Autism Spectrum Disorder	10 <sup>th</sup> Apr 2018	DSR UoD. 199,315
14.	Ms Alsaggaf, Sarah; <b>Dr. J. Francis Borgio</b>	<b>2018-236-Sci :</b> Studies on sulfate reducing bacteria from injection and production water samples of Saudi Aramco oilfield.	31 <sup>st</sup> Mar 2020	DSR UoD. 32,000

#### INDUSTRY RESEARCH PROJECTS

#	Name of Investigator/s	Project reference Number / Research Title	Date	Funding Source & Amount
1	<b>Dr. J. Francis Borgio</b> and Dr. Sayed AbdulAzeez	Ensure quality on RNA extraction protocol	01 Nov 2018	MOLEQULE-ON, New Zealand SAR 10,000+

#### Current Researches - **AS PRINCIPLE INVESTIGATOR**

#	Name of Investigator(s)	Research Title
1.	<b>Dr. J. Francis Borgio</b> , Dr. M. Al-Madan, Dr. Zaki A. Naserullah, Dr. S AbdulAzeez and Dr. Ahmed M Al-Suliman	<b>2012-MED-2798-46:</b> Networks of interacting genes in Saudi $\beta$ -thalassemia ( <b>NSTIP-KACST</b> )
2.	<b>Dr. J. Francis Borgio</b> , Dr. S. AbdulAzeez, Dr. N. Almandil, Dr. Nourah Al-Qahtani, Dr. Hatoun Altaifi, Dr. Rabindran Jermy, Dr. Aurelio Maggio ( <b>Italy</b> ), Dr. Antonino Giam bona ( <b>Italy</b> ), Chen Ping ( <b>China</b> )	<b>2017-100-IRMC:</b> Isolation of fetal cells from coelomatic fluid for early prenatal diagnosis of genetic diseases ( <b>DSR, IAU, KSA</b> )

#### Current Researches - **AS CO-INVESTIGATOR**

#	Name of Investigator(s)	Research Title
3.	Dr. Maha Farhat, <b>Dr. J. Francis Borgio</b>	<b>2016-055-IRMC:</b> Development of faster alternative protocol to conventional culture method in order to monitor Legionella spp. in cooling tower water in hospitals. ( <b>DSR UoD</b> )



4.	Dr.MS. Akhtar, Dr. Z. Zasserullah, Dr. S. Al-Jarrash, D.S. AbdulAzeez <b>Dr. J. Francis Borgio,</b>	<b>مص-36-132:</b> Molecular nature of HBD gene in Saudi individuals co-inherited with HBB gene mutation ( <b>KACST</b> )
5.	Dr. Marwa Madi, Dr. Sayed Abdul Azeez, Dr. Adel Alagl, Dr. Doaa Al Eraky, Dr. Jehan Alhumaid, <b>Dr. J. Francis Borgio</b>	<b>2017-190-Dent :</b> Association of genotype of oral bacteria and diabetic state with oral health condition in children in the Eastern Province, Saudi Arabia ( <b>DSR, IAU</b> )
6.	Dr. Faisal Alonaizan, Dr. Sayed Abdul Azeez, Dr. Hatem Abuohashish, Dr. Doaa Al Eraky, <b>Dr. J. Francis Borgio</b>	<b>2017-061-Dent :</b> Identification of Pulpal Ca <sup>2+</sup> Sensing Receptor Expression in Saudi Patients Diagnosed With Irreversible Pulpitis ( <b>DSR, IAU</b> )
7.	Dr. Rabindran Jermy, Dr. S. AbdulAzeez, Dr. Ebtesam Al-Suhaimi, Dr. Mohammed Salahuddin, <b>Dr. J. Francis Borgio</b>	<b>2017-091-IRMC:</b> Design and Evaluation of stimuli responsive smart hierarchical silica nanovehicle for metabolic disorder. ( <b>DSR, IAU, KSA</b> )
8.	Dr. Adel Alagl, Dr. Naif AlMasoud, Dr. Marwa Madi, <b>Dr. J. Francis Borgio,</b> Dr. Nasser Al Aqeeli, Dr. Charles Goodacre	<b>2017-193-Dent:</b> Impact of surface functionalized polymeric nanoparticles on osseointegration of titanium implants in rats: A biomimetic approach. ( <b>DSR, IAU, KSA</b> )
9.	Dr. N. Almandil, Dr. S. AbdulAzeez, <b>Dr. J. Francis Borgio,</b>	<b>2017-202-IRMC:</b> Identification of RNA Markers for Early Diagnosis of Saudi Autistic Children ( <b>DSR, IAU, KSA</b> )
10.	Dr. S. AbdulAzeez, Dr. N. Almandil, Dr. Rabindran Jermy, <b>Dr. J. Francis Borgio,</b>	<b>2017-101-IRMC:</b> In silico screening of drug structural analogs of the natural compounds with improved binding to leptin, fat mass and obesity associated protein ( <b>DSR, IAU, KSA</b> )
11.	Dr. S. AbdulAzeez, Dr. Emre Mehmet Cevik, <b>Dr. J. Francis Borgio,</b>	<b>2018-120-IRMC:</b> development of biosensor systems for early detection of cancer biomarkers. ( <b>DSR, IAU, KSA</b> )
12.	Dr Lubna Al-Asoom, and <b>Dr. J. Francis Borgio,</b>	<b>2018-028-Med:</b> Comparison of the possible angiogenic effect of Nigella sativa extract, Thymoquinone and olive oil on coronary endothelial cell culture ( <b>DSR, IAU, KSA</b> )
13.	Dr. N. Almandil, Dr. Munther Alomari, Dr. Abdulla AlSulaiman, Dr. S. AbdulAzeez, <b>Dr. J. Francis Borgio,</b>	<b>2018-094-IRMC:</b> Sorting Proteomic Salivary Biomarkers in Saudis with Autism Spectrum Disorder ( <b>DSR, IAU, KSA</b> )
14.	Dr. S. AbdulAzeez, Dr. N. Almandil, Dr. M. Salahuddin, <b>Dr. J. Francis Borgio</b>	<b>Covid19-2020-007-IRMC:</b> In silico screening of drugs for treating COVID-19 ( <b>DSR, IAU, KSA</b> )
15.	Dr S.AbdulAzeez; Dr. Noor AlMandil; Ms Maha Alshammari; Ms Widyana Almoudi; Dr. Abdallah Ibrahim; Dr Lubna Al-Asoom; <b>Dr J Francis Borgio</b>	<b>Project k1484:</b> In silico screening, Molecular docking and dynamic simulations of drugs for treating COVID-19 ( <b>King Abdullah University of Science and Technology KAUST, Saudi Arabia</b> )
16.	Ms Hanan Aldossary, <b>Dr J Francis Borgio</b> (Consultant Supervisor 2021-2022)	<b>2021-182-IRMC:</b> Study of antibiotic resistance genes of Candida auris and the nanoparticles as a potential therapeutic ( <b>DSR, IAU, KSA</b> )
17.	Dr.S. Rahman; Dr S.AbdulAzeez; <b>Dr J Francis Borgio</b>	<b>2019-072-IRMC:</b> Green synthesis of nanoparticles using microorganisms and their bioactivity against multidrug resistant human pathogens
18.	Dr J Khan, Dr Lubna Al-Asoom, and <b>Dr. J. Francis Borgio</b>	<b>IFB-2020-46:</b> Study of gene variants associated with migraine in young Saudi Females



19.	Dr S.AbdulAzeez; Dr. Noor AlMandil; Mr Ayman Mustafa Al-Qaaneh; Dr. Abdallah Ibrahim; Dr Lubna Al-Asoom; <b>Dr J Francis Borgio</b>	<b>Project k1600:</b> In silico screening, molecular docking and dynamic simulations drugs to inhibit mutated PCSK9 for treating atherosclerotic cardiovascular disease ( <b>King Abdullah University of Science and Technology KAUST, Saudi Arabia</b> )
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### Contribution to Scientific Conferences and Symposia

#	Conference Title	Place and Date of the Conference	Extent of Contribution
1.	11 <sup>th</sup> Annual International Conference of Indian Academy of Biomedical Sciences (IABSCON2023)	Delivered an Invited Lecture on “Early prenatal identification of genetic disorders using fNRBC” at 11th Annual International Conference of Indian Academy of Biomedical Sciences (IABSCON2023), “Biomedical Research: From Molecules to Consciousness” organized by NIMHANS, Bengaluru, India on 4th Mar 2023	Delivered an <b>Invited Lecture</b>
2.	3 <sup>rd</sup> International Conference On Personalized Medicine	Delivered an Invited Lecture on “Non-invasive early prenatal identification of pathogenic variants” at 3 <sup>rd</sup> International Conference On Personalized Medicine “Redefining The Future Of Medicine” organised by Department of Personalized and Molecular Medicine, Era University, Lucnkow, India on 25 Feb 2023.	Delivered an <b>Invited Lecture</b>
3.	International Conference On Recent Technology for Sustainable Development of Insects, Microbes and Health	J. Sherlin John, P. Selvaraj, Dunston P. Ambrose, J. Francis Borgio, and Sayed AbdulAzeez. Variations in the nucleotide sequence between mitochondrial encoded genes <i>Nad1-Nad2</i> in the genus <i>Peirates</i> (Heteroptera: Reduviidae: Peiratinae). International Conference On Recent Technology for Sustainable Development of Insects, Microbes and Health, 9 & 10 March, 2023, Loyola College (Autonomous), Chennai, India.	Presented by Student J Sherlin John
4.	National Conference on Recent Progress In Bioprospecting – Derived Therapeutic Products (NCB – 2023)	P. Selvaraj, J. Sherlin John, Sayed Abdul Azeez, <b>J. Francis Borgio</b> , T. Pushpanathan. Interspecific variations in the mitochondrial encoded cox genes of the genus <i>Triatoma</i> (Heteroptera: Reduviidae), NCB – 2023, 12 & 13 Jan 2023, St. Xavier’s College (Autonomous), Palayamkottai 627002, Tamil Nadu, India.	Presented by Student J Sherlin John
5.	Annual International Conference on Multidisciplinary Research and Innovation (AICMRI 2022)	P Selvaraj, J Sherlin John, J Francis Borgio, Sayed AbdulAzeez, and Dunston P. Ambrose. 2022. Variable nucleotide sequences between mitochondrial encoded protein-coding genes of <i>Triatominae</i> (Heteroptera: Reduviidae). Proceedings of AICMRI 2022. 16-18 Dec 2022. IIT Madras Research Park, Chennai, India.	Presented by Student J Sherlin John
6.	Cross Border Collaboration: What to	Organised by Deanship of Quality and Academic Accreditation, IAU, Dammam, KSA. On 28 Sep 2022.	Attended



	look for in a Partner, Setting up Partnerships and Managing Risk		
7.	Questioning to develop higher order thinking skills	Attended a Webinar on 15 Sep 2022. Organized by The Deanship of Academic Development at Imam Abdulrahman bin Faisal University, Dammam, KSA.	Attended
8.	Molecular Epidemiology	Attended a Webinar entitled “Molecular Epidemiology – Critical Applications in Public Health and Clinical Laboratories” on 26 July 2022. Organized by Wiley Team.	Attended
9.	X INTERNATIONAL CONFERENCE OF INDIAN ACADEMY OF BIOMEDICAL SCIENCES (IABS)	Delivered an Invited Lecture on “Gulf Atlas of Genes and Genetic Disorders” at X INTERNATIONAL CONFERENCE OF INDIAN ACADEMY OF BIOMEDICAL SCIENCES (IABS), Organized by: Department of Biochemistry, King George’s Medical University, Lucknow. 7th May 2022.	Delivered an <b>Invited Lecture</b>
10.	Zoology_In_21st_Century, organized by Department of Zoology, Shivaji University, Kolhapur. Maharashtra, India. On 21st Jan 2022	Delivered an Invited Lecture on “Sequential approaches and practical applications of PCR, RT-PCR, microarray, sequencing and next generation sequencing techniques” at Zoology_In_21st_Century, organized by Department of Zoology, <b>Shivaji University, Kolhapur. Maharashtra, India.</b> On 21st Jan 2022.	Delivered an <b>Invited Lecture</b>
11.	International Webinar on Science, Sustainable Development and Ecosystems in Saudi Arabia 2021	“Gene - Environment (G×E) Interactions Influence Human Phenome”, organized by College of Science at Imam Abdulrahman Bin Faisal University, Dammam, Kingdom of Saudi Arabia, on April 07, 2021. <a href="#">[Link]</a>	Delivered an <b>Invited Lecture</b>
12.	Research Preparatory Program	Delivered Lectures in the Research Preparatory Program “Towards Being a Scholar in your Field” at College of Medicine, Vice Deanship of Higher Studies & Scientific Research, at Imam Abdulrahman Bin Faisal University, Dammam, Kingdom of Saudi Arabia, on October – December, 2020.	<b>Outstanding speaker</b>
13.	Research Techniques And Tools Level 1	Imam Abdulrahman Bin Faisal University On November 24 <sup>th</sup> , 2020.	Attendant
14.	Models Of Higher Education Practice Fit For A Post-Pandemic World	Deanship of Quality and Academic Accreditation, Imam Abdulrahman Bin Faisal University. On December 21, 2020.	Attendant
15.	International Conference on Environment and Health	“Gene–environment (G×E) interactions & phenomics” at, Jamal Mohamed College, Tiruchirappalli, India on 30th Jan 2020.	Invited as <b>Resource Person</b> and Delivered an <b>Inaugural address</b>
16.	International Conference on Vector menace and management	J. Francis Borgio, K. Sahayaraj, P. Selvaraj, J. Sherlin John, G. Ponmalar, G. Petchidurai, Hind Saleh Alsuwat, Sayed AbdulAzeez “Genomics of vectors that transmit epidemic diseases” at St. Xavier's College (autonomous), Palayamkottai, Tamil Nadu, India on 29th Jan 2020.	Invited as <b>Resource Person</b> and Delivered a <b>Keynote address</b>
17.	Workshop on Nanopore Based Next Generations Technology and Data analysis	Completed workshop on Nanopore Based Next Generations Technology and Data analysis using <b>Oxford Nanopore</b> Platform, Oxford Nanopore, Oxford Science	<b>Training and Participation</b>





		Park, University of Oxford, <b>Oxford, United Kingdom (UK)</b> , 12 – 13th December 2019.	
18.	IAS, INSA, NASI's Science Academies' Refresher Course On Insect Bio-resources and Human Welfare	"Molecular Basis of Entomological Perspective" at Indian Academy of Sciences, Bengaluru, Indian National Science Academy, New Delhi and The National Academy of Sciences, India, Allahabad's Science Academies' Refresher Course On Insect Bio-resources and Human Welfare at Department of Zoology, St. Xavier's College (autonomous), Palayamkottai -627 002, Tamil Nadu, India on 19th August 2018.	Invited as <b>Resource Person</b> and Delivered a <b>Special Lectures</b>
19.	IAS, INSA, NASI's Science Academies' Refresher Course On Insect Bio-resources and Human Welfare	"Molecular techniques for Entomology Research" at Indian Academy of Sciences, Bengaluru, Indian National Science Academy, New Delhi and The National Academy of Sciences, India, Allahabad's at Department of Zoology, St. Xavier's College (autonomous), Palayamkottai -627 002, Tamil Nadu, India on 19th August 2018.	Invited as <b>Resource Person</b> and Delivered a <b>Special Lectures</b>
20.	4th Annual Research Meet-ARM 2018	"Molecular spectrum of globin and related genes: Present and Prospect" Venus International Foundation, at 4th Annual Research Meet-ARM 2018, at Radha Regent, Chennai, India on 11th August 2018	Invited as <b>Guest of honor</b> and Delivered an <b>Keynote address</b>
21.	Zoology Student Association, Department of Zoology, St. Xavier's College	"Complex Genomics and High Consanguinity" at Zoology Student Association, Department of Zoology, St. Xavier's College (autonomous), Palayamkottai -627 002, Tamil Nadu, India, on July 24, 2018.	Invited as <b>Chief Gust</b> and Delivered an <b>Inaugural address</b>
22.	Phenomics of interacting globin gene variants in Saudi population	J. Francis Borgio, Sayed AbdulAzeez, Zaki A. Naserullah, Sana Al-Jarrash, Mohammed S. Al-Madan, Ahmed M. Al-Suliman, Mohammed A. AlKhalifah, Huda I. ElFakharay, Amein K. Al-Ali at Human and animal welfare (ZooCong-2018), organized by Department of Zoology, St. Xavier's College (autonomous), Palayamkottai -627 002, Tamil Nadu, India, on January 10-13, 2018.	<b>Keynote speaker</b>
23.	Globin Gene Variants: Co-inheritance and Couples at risk (G2 Vs C2)	National Seminar on Genetic Diseases with Emphasis on Thalassemia" held on January 8th 2018 at Department of Biotechnology, Malankara Catholic College, Mariagiri, Kaliakkavilai, Tamil Nadu, India.	<b>On invitation delivered a guest lecture</b>
24.	Is Hemoglobin A <sub>2</sub> (HbA <sub>2</sub> ) a diagnostic parameter for beta-thalassemia trait ( $\beta$ -TT) in the Saudi population?.	Amani M. Al-Amodi, Neda Z. Ghanem, Sumayh A. Aldakeel, Lubna Ibrahim Al Asoom, Noor B Almandil, Zaki A. Naserullah, Sana Al-Jarrash, Sayed AbdulAzeez, J. Francis Borgio. 8 <sup>TH</sup> Annual Forum for Medical Research at King Abdullah International Medical Research Center, Riyadh, KSA. On 5 <sup>th</sup> to 7 <sup>th</sup> Dec <b>2017</b> . Page No: 67.	Presented a paper
25.	The $-\alpha^{3.7}$ deletion is associated with reduced level of hemoglobin (HbA) in healthy females.	Fatimah Alkhalifah, Noor B Almandil, Zaki A. Naserullah, Sana Al-Jarrash, Sayed AbdulAzeez, J. Francis Borgio. 8 <sup>TH</sup> Annual Forum for Medical Research at King Abdullah International Medical Research Center, Riyadh, KSA. On 5 <sup>th</sup> to 7 <sup>th</sup> Dec <b>2017</b> . Page No: 78.	Presented a paper
26.	Six Newly Identified Variants in Beta-Globin Gene.	Sumayh A. Aldakeel, Neda Z. Ghanem, Amani M. Al-Amodi, Lubna Ibrahim Al Asoom, Noor B Almandil, Zaki A. Naserullah, Sana Al-Jarrash, Sayed AbdulAzeez, J. Francis Borgio. 8 <sup>TH</sup> Annual Forum for Medical Research at King	Presented a paper



		Abdullah International Medical Research Center, Riyadh, KSA. On 5 <sup>th</sup> to 7 <sup>th</sup> Dec <b>2017</b> . Page No: 116.	
27.	Sequence variants in the AHSP ( $\alpha$ -Hemoglobin stabilizing protein) gene is associated with the level of haematological parameters in Saudis.	Batool Abdulhadi Alkhalifah, Fatimah Abduljalil Alkhalifah, Fatimah Hassan Alajwad, Zaki A. Naserullah, Sana Al-Jarrash, Ahmed M. Al-Suliman, Mohammed S. Al-Madan, Sayed AbdulAzeez, <b>Borgio JF</b> . KAIMRC-ER 5 <sup>TH</sup> Research Day at King Saud bin Abdulaziz University for Health Sciences, Al-Ahsa. On 4 <sup>th</sup> May 2017	Presented a paper
28.	A comprehensive review on the prevalence of beta-globin variations in Saudi Arabia.	Mousa A. Alaithan, AbdulAzeez S, Borgio JF. 2nd International SSMG Symposium, KACST in Riyadh on 26-27th April 2017.	Presented a paper
29.	HBA1 Gene Mutations of Beta-Thalassemia Patients.	Lina Ali Alhumaid, AbdulAzeez S, Naserullah ZA, Al-Jarrash S, Borgio JF. The Health Profession Conference 2017. Held at King Saud bin Abdulaziz University for Health Sciences in Riyadh on 23-25th April 2017.	Presented a paper
30.	National seminar "Proteomics: Advances, Applications and Challenges (PRAAC)"	19th-20th February 2010, organized by Institute of Bioinformatics and Applied Biotechnology (IBAB), Bangalore	Attendant
31.	Biopesticides International Conference (BIOCICON-2009)	Crop Protection Research Centre, St. Xavier's College (autonomous), Palayamkottai -627 002, Tamil Nadu, India, on November 26-28, 2009.	Speaker
32.	50th Annual Conference of Association of Microbiologists of India (AMI) 2009,	National chemical Laboratory, Pune, India, December 15-18, 2009.	Presented a paper
33.	Workshop on "Microbial Biotechnology"	Bangalore University, Bangalore. From 16th –20th Feb 2009	Attendant
34.	Workshop on "Fungal Biotechnology"	Centre for advanced studies in Botany, Madras University, Chennai. From 7th July to 11th July 2005	Attendant
35.	National Seminar on Morden Biology - Prespective and prospects,	Kristu Jayanti College, Bangalore - 77, India, 19-20.03.09.	Presented a paper
36.	The National Seminar on Biodegradation and Bioremediation,	Saurashtra College, Madurai, India. 17to18.02.2005	Presented a paper
37.	National Seminar on Technology and Management of Bioresearches,	St. Xavier's College, Palayamkottai, India. 21to22.03.2005.	Presented a paper
38.	International Conference on Recent Advances in Biosciences,	PGP College, Namakkal, India, 12to13.02.2004.	Presented a paper
39.	Symposium on Recent Trends in Biosciences,	Sri Paramakalyani College, Alwarkurichi, India, 27to28.02.2004	Presented a paper

#### Membership of Scientific and Professional Societies and Organizations



	Type	Society / council	Address	Date
1.	Royal Society of Biology	Society	Charles Darwin House, 12 Roger Street, London, UK	1 <sup>st</sup> Oct 2016 & P0126523
2.	Society for Experimental Biology and Medicine	Society	3220 N Street NW, #179   Washington D.C. 20007, United States of America	01/01/2021-01/01/2022 Regular Member
3.	American Chemical Society	Society	Washington, D.C., United States	08/26/2020 - 08/25/2021 Regular Member & 32454607
4.	Association of Scientists, Developers and Faculties	Association	Kadanchavady, Perungudi, Chennai – 600 096. India	1st Dec 2017 & Life Member 7477902003007491
5.	Society for Applied Biotechnology	Society	Society for Applied Biotechnology 1/115, Puliur, Krishnagiri Tamil Nadu 635201, India	Fellow and Member, 2016
6.	The Genetics Society of America	Society	GSA Administrative Office, 9650 Rockville Pike, Bethesda, MD 20814-3998, USA	Member Since 18 Sep 2016 & 351943
7.	Indian Academy of Medical Genetics (IAMG)	Society	Centre for DNA Fingerprinting and Diagnostics, 4-1-714, Tuljaguda Complex, Hyderabad Andhra Pradesh 500001 INDIA	Life Associate Member. From 31 May 2016 & L/AM-055
8.	The Biotech Research Society, India	Society	Central Office Executive, BRSI, Biotechnology Division, NIIST, Industrial Estate P.O. Trivandrum 695 019, INDIA	Life Member, From 31 May 2016 & LM 1911
9.	National Academy of Biological Sciences [NABS]	Society	World Noni Research Foundation 12, Rajiv Gandhi Road, Perungudi Chennai - 600 096, India	Life member, 25 May 2016 & LM-023-2016
10.	Thalassaemia International Federation (TIF)	council	Thalassaemia International Federation, PO Box 28807, Nicosia 2083, Cyprus	Since 30 <sup>th</sup> Sep 2015

### Awards and Honors:

	Awards and Honors:	International / National organization	Date
1.	Presented and Won “3rd Abstract Award” for the abstract entitled “Fetal nucleated red blood cell (fNRBC) based early prenatal identification of genetic disorders in Saudi population is more promising than cell-free-fetal DNA (cffDNA)”	at the MENA Organization for Rare Diseases Annual Meeting 2023 at Dubai organized by the MENA Organization for Rare Diseases and UAE Genetic Diseases Association, Dubai. <a href="#">[Youtube Link]</a> .	3 <sup>rd</sup> to 5 <sup>th</sup> March 2023
2.	Highly Published Faculty in IRMC in the Imam Abdulrahman Bin Faisal University President's list of distinguished researchers 2021	His Excellency The President, Imam Abdulrahman Bin Faisal University President's list of winners 2022, Dammam, Saudi Arabia	17 July 2022



3.	<b>Received 1<sup>st</sup> Place</b> and <b>Cash Award of 6000 SAR</b> for the E-Poster “Characterization of Fetal Nucleated Red Blood Cells in Early Pregnancy Using Microscopic and Molecular Techniques” At “IAU-College of Medicine Research & Innovation day” Held at the College of Medicine at Imam Abdulrahman Bin Faisal University.	Presented by Ms Ghadah AlQarni, Ms Shahad AlAli, Ms. Manar Abufour, Under the Mentorship of Dr J. Francis Borgio and Dr Noor B Almandil, collaboration with Dr Norah F Alhur, Dr. Dana Almohazey, Dr. Nourah H Al Qahtani, Dr. Fahd M AlShehri, and Dr Sayed AbdulAzeez.	16 Nov 2022
4.	<b>Excellence Service Award</b>	INSO Awards, VGood Professional Association, Chennai India	15 May 2022
5.	<b>Received 1<sup>st</sup> Place during the Poster Presentation [Link]</b> . At “6th HEALTH PROFESSIONS CONFERENCE 2022, at King Saud Bin Abdulaziz University for Health Sciences – Al Ahsa, Saudi Arabia.	Sarah Althuwaiqeb, Sukaina Aldamen, Remah Alzayyat, Batoul Alqahtani, Norah F Alhur, Nourah H Al Qahtani, Sayed AbdulAzeez, J. Francis Borgio. Novel Multiplex PCR for Non-Invasive Early Fetal Gender Determination.	<b>25 to 27 Jan 2022</b>
6.	<b>Ranked among top 2% scientists in the world by Stanford University as the most cited scientists in 2020.</b>	<b>Stanford University</b>	<b>19 Oct 2021</b>
7.	<b>Experimental Biology and Medicine (EBM) Outstanding Reviewer Award</b>	From Society for Experimental Biology and Medicine (SEBM), Washington, D.C. USA.	06 <sup>th</sup> Jan 2021
8.	Invited as <b>Resource Person</b> and <b>Delivered an Inaugural address</b>	“Gene–environment (G×E) interactions & phenomics” at International Conference on Environment and Health, Jamal Mohamed College, Tiruchirappalli, India.	30 <sup>th</sup> Jan 2020
9.	Invited as <b>Chairperson</b> and <b>Delivered Keynote address</b>	Delivered Keynote address on “Genomics of vectors that transmit epidemic diseases” at International Conference on Vector menace and management at St. Xavier's College (autonomous), Palayamkottai, Tamil Nadu, India.	29 <sup>th</sup> Jan 2020
10.	<b>The best student’s trainer in 2018 award</b>	Institute for Research and Medical Consultations (IRMC), Imam Abdulrahman Bin Faisal University, Dammam, Kingdom of Saudi Arabia on the annual meeting 2018	30 Aug 2018.
11.	Invited as <b>Resource Person</b> at Indian Academy of Sciences, Bengaluru, Indian National Science Academy, New Delhi and The National Academy of Sciences, India, Allahabad’s Science Academies’ <b>Refresher Course</b> On Insect Bio-resources and Human Welfare at	Department of Zoology, St. Xavier's College (autonomous), Palayamkottai -627 002, Tamil Nadu, India.	19 Aug 2018.
12.	Invited as <b>Guest of honor</b> at 4th Annual Research Meet-ARM 2018.	Venus International Foundation, India at Radha Regent, Chennai, India	11 Aug 2018.



13.	Scientific publishing award for the publication In Microbial pathogenesis. 116:351-355.	Imam Abdulrahman Bin Faisal University, Saudi Arabia.	7 Aug 2018.
14.	OUTSTANDING SCIENTIST IN MOLECULAR GENETICS	Venus International Foundation, India	11 Aug 2018.
15.	LIFETIME ACHIEVEMENT AWARD	International Research Awards on Engineering, Science & Management, India.	21 July 2018
16.	Scientific publishing award for the publication In PLoS ONE 12(10): e0185270.	Imam Abdulrahman Bin Faisal University, Saudi Arabia	18 Mar 2018
17.	Scientific publishing award for the publication In Caries Research 51(1):12-16.	Imam Abdulrahman Bin Faisal University, Saudi Arabia	23 Oct 2017
18.	Scientific publishing award for the publication in BioMed Research International. 2017: Article ID 1972429, 1-7,	Imam Abdulrahman Bin Faisal University, Saudi Arabia	23 Oct 2017
19.	Scientific publishing award for the publication in American Journal of Translational Research. 8(10):4224-4232.	Imam Abdulrahman Bin Faisal University, Saudi Arabia	7 May 2017
20.	Scientific publishing award for the publication in International Journal of Molecular Sciences. 17(3), 395	Imam Abdulrahman Bin Faisal University, Saudi Arabia	28 Sep 2016
21.	Scientific publishing award for the publication in PLoS ONE 11(1): e0147702.	Imam Abdulrahman Bin Faisal University, Saudi Arabia	13 Apr/2016
22.	Scientific publishing award for the publication in Blood Cells, Molecules and Diseases 53(4): 199-203.	Imam Abdulrahman Bin Faisal University, Saudi Arabia	16 Feb 2016
23.	Scientific publishing award for the publication in Blood Cells, Molecules and Diseases 55(1): 27-29	Imam Abdulrahman Bin Faisal University, Saudi Arabia	16 Feb 2016
24.	Indian Academy of Sciences Summer Research Fellowship – 2010 for Lecturers.	Jawaharlal Nehru Centre for Advanced Scientific Research (JNCASR), Bangalore, India	From 13th April to 5th June 2010
25.	Best Paper Award for the paper " RNAi mediated gene knockdown in sucking and chewing insect pests " presented in BIOPESTICIDES INTERNATIONAL CONFERENCE (BIOCICON-2009)	Crop Protection Research Centre, St. Xavier's College (autonomous), Palayamkottai -627 002, Tamil Nadu, India	November 26-28, 2009
26.	Indian Academy of Sciences Summer Research Fellowship – 2009 for Lecturers.	National Botanical Research Institute (NBRI), Council of Scientific and Industrial Research (CSIR), Lucknow, UP, India	From 15th April to 10th June 2009.
27.	BEST PAPER AWARD for the paper entitled "Immobilization of microbial $\alpha$ -amylase on coconut fiber" presented in National Seminar on Modern Biology	Kristu Jayanthi College, Bangalore – 77, India	19th and 20th March 2009
28.	Awarded the FIRST PRIZE (COMPUTER) for the article on "Recycling of wastewater from residence and office"	Tamil magazine "Ananda Vikatan"	11 Nov 2002.
29.	UNIVERSITY 2ND RANK in M. Sc., Microbiology, M.S. University, Tirunelveli, TN, India	Manonmanium Sundaranar University, Tirunelveli, India	2002-2004
30.	Proficiency award for I and II M. Sc., Microbiology (2ndprize) '02-'03	Sri Paramakalyani College, Alwarkurichi., Tirunelveli, India	2002-2003



31.	BEST STUDENT award for the year 2001-2002 among graduate students.	St. Xavier's College (autonomous), Palayamkottai -627 002, India	2001-2002
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## Teaching Activities

### Undergraduate

#	Course/Rotation Title	No./Code	Extent of Contribution (no. of lectures/Tutorials. Or labs, Clinics)
1	B.Sc., Microbiology	-	lectures/tutorials and labs
2	B.Sc., Biotechnology	-	lectures/tutorials and labs

### Postgraduate

#	Course/Rotation Title	No./Code	Extent of Contribution (no. of lectures/Tutorials. Or labs, Clinics)
1	M.Sc., Microbiology	Mycology / Virology / Bacteriology	lectures/tutorials and labs
2	M.Sc., Biotechnology	Recombinant Technology Research Methodology	lectures/tutorials
3	M.Sc. in Biotechnology & Entrepreneurship	MSBE820 – Microbiology	30 lectures

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

1	MSBE 820-LECF (9850) – Microbiology (Methods in Microbiology, Bacterial Genetics, Medical Microbiology, Viruses & Prions and Antimicrobial agents)
2	MSBE 820-LECM (9852) – Microbiology (Methods in Microbiology, Bacterial Genetics, Medical Microbiology, Viruses & Prions and Antimicrobial agents)

### Course Coordination

#	Course Title and Code	Coordination	Co-coordination	Undergrad.	Postgrad.	From	to
1	MSBE820 – Microbiology	MSBE 820-LECF	9850	-	Yes	19 Jan 2020	07 May 2022
2	MSBE820 – Microbiology	MSBE 820-LECM	9852	-	Yes	19 Jan 2020	07 May 2022

### Guest/Invited Lectures for Undergraduate Students

#	Activity/Course Title and Code	Subject	College and University or Program	Date
1	M.Sc., Biotechnology	Research Methodology	Arulmigu Pannirupidi Ayyan College Of Arts & Science, Tamil Nadu	Aug 2007

### Student Academic Supervision and Mentoring

#	Level	Number of Students	From	to
1	B. Sc., Agricultural Biotechnology	2		2008
2	B. Tech., Biotechnology	12		2008



## Supervision of Master and/or PhD Thesis

### PhD Thesis Supervision: Awarded: 1

#	Degree Type	Title	Institution	Date
1.	PhD Thesis Supervisor: Dr. Entissar Sulaiman ALSuhaibani Co- Supervisor: <b>Dr. J. Francis Borgio</b>	<b>Ms Norah Fahad Alhur</b> Detecting Genetic Disorders Using Fetal cell free DNA (cfDNA) in Saudi Arabia	<b>King Saud University, Riyadh, Saudi Arabia</b>	<b>Awarded on 17 May 2022</b>

### MSc Thesis Supervision: Awarded: 10

#	Degree Type	Title	Institution	Date
1.	M. Sc., Biotechnology	Monika, B. RAPD and RFLP profiles of UV mutated DNA from Escherichia coli and Staphylococcus aureus,	Extol Institute of Management, Jahangirabad, Bhopal (M.P.). In: GeneCity Laboratories Pvt. Ltd., Pune.	Jan 2008
2.	M. Sc., Biotechnology	Chandana, C. Xanthan production by Xanthomonas campestris NCIM 2954 using batch culture under different media,	Extol Institute of Management, Jahangirabad, Bhopal (M.P.). In: GeneCity Laboratories Pvt. Ltd., Pune.	Jan 2008
3.	M. Sc., Biotechnology	Rohit Mathur. Purification of microbial $\beta$ -amylase and glucoamylase through free and whole cell immobilization on coconut fiber and alginate matrix.	Dr. Zakir Hussain Institute, Patna, Bihar. In: GeneCity Laboratories Pvt. Ltd., Pune.	June 2008
4.	M. Sc., Microbiology	Elham Jafarzadeh. Studies on UV mutated DNA from Escherichia coli and Staphylococcus aureus,.	Modern College of Arts, Science & Commerce, Pune, In: GeneCity Laboratories Pvt. Ltd., Pune	Feb 2008
5.	M. Sc., Microbiology	Laleh Khajehkarimodini. Effect of heat and cold shock on gene expression of Escherichia coli NCIM 2064, Bacillus subtilis NCIM 2010 and Staphylococcus aureus isolate,	Bharati Vidya Peeth University, Pune., In: GeneCity Laboratories Pvt. Ltd., Pune	March 2008
6.	M. Sc., Microbiology	Sahar Solgi, Restriction digestion profile of DNA isolated from Agrobacterium tumefaciens NCIM 2145 and Escherichia coli NCIM 2064,.	Bharati Vidya Peeth University, Pune., In: GeneCity Laboratories Pvt. Ltd., Pune	March 2008.
7.	<b>M. Sc., Hematology</b> Supervisor: Dr. Faisal Al Zahrani Co- Supervisor: <b>Dr. J. Francis Borgio</b>	<b>Asma Yousef Alsulaim:</b>  The association between genetic polymorphisms in two coagulation system genes and increase risk of venous thromboembolism in cancer patients in Eastern province of Saudi Arabia	Collage of Applied Medical Science, AND Institute for Research and Medical Consultations, Imam Abdulrahman Bin Faisal University, Dammam, Saudi Arabia.	May 2020
8.	M. Sc., Biotechnology <b>(As Supervisor)</b>	<b>Mr Ayman M. Al-Qaaneh</b>	Institute for Research and Medical Consultations, Imam Abdulrahman Bin	<b>2020-2021</b>

		“Efficacy and Safety of Tocilizumab in COVID-19 patients: A Retrospective Observational Study”	Faisal University, Dammam, Saudi Arabia.	
9.	M. Sc., Biotechnology (As Supervisor)	<b>Ms. Hanan Aldossary</b> “Study of antibiotic resistance genes of <i>Candida auris</i> and the nanoparticles as a potential therapeutic.”	Institute for Research and Medical Consultations, Imam Abdulrahman Bin Faisal University, Dammam, Saudi Arabia.	2020-2021
10.	M. Sc., Biotechnology (As Supervisor)	<b>Ms. Bayan Sonbol</b> “Identifying Pathogenic Variations on Early Stage of Pregnancy Using Invasive and Non-Invasive Prenatal Samples”	Institute for Research and Medical Consultations, Imam Abdulrahman Bin Faisal University, Dammam, Saudi Arabia.	2021-2022
11.	M. Sc., Biotechnology (As Co-Supervisor)	Ms Mariam Ali ALSayed Application of bacterial proteases in the biological treatment of some proteinaceous wastes	. College of Science, Imam Abdulrahman Bin Faisal University, Dammam, Saudi Arabia.	2021-2023

#### Ongoing Research Supervision: Awarded 1

#	Degree Type	Title	Institution	Date
2.	M. Sc., Biotechnology (As Co-Supervisor)	Ms Eman Saleh Al-Hasani On Genome mining	Institute for Research and Medical Consultations, Imam Abdulrahman Bin Faisal University, Dammam, Saudi Arabia.	Ongoing 2022
3.	M. Sc., Biotechnology (As Supervisor)	Ms Rahaf Alquwaie Mining the nanotube-forming <i>Bacillus</i> genome for anti- <i>Candida auris</i>	Institute for Research and Medical Consultations, Imam Abdulrahman Bin Faisal University, Dammam, Saudi Arabia.	Ongoing 2023

#### Completed Research Supervision at various students level

#	Degree Type	Title	Institution	Date
1.	MBBS	Mutations of the KLF1 gene in Saudi subjects with borderline HbA <sub>2</sub> / Name of the Students: A.M. Al-Muslami, M.S. Al-Sharief, H.Al-Sunni, F.Al-Sulaiman, A.M. Al-Habib	University of Dammam	2014-2015
2.	School Students	Shatha AlShehri; Shahad	Al Bassam School, Dammam	2015
3.	Saudi Aramco-Research Science Initiative (SARSI) Projects, As Mentor	1. Shatha AlShehri. July 2015. Identification of $\alpha$ -globin gene mutations by reverse-hybridization. 2. Lina Ali Alhumaid. July 2015. HBA1 Gene Mutations of Beta-Thalassemia Patients. 3. Rabab Al-Ibrahim. July 2015. Beta-thalassemia patients with HBA1 gene mutations.	SARSI - University of Dammam	2015

		4. Dalal AlHammad. July 2015. Cultural and Molecular Identification of Candida albicans.		
4.	Volunteering program	Ms. Amani Mohsen Al-Amodi	University of Dammam	2016
5.	Saudi Aramco-Research Science Initiative (SARSI) Projects, As Mentor	1. Lamis Alqahtani. Aug 2016. Existence and Effect of <i>MBL2</i> gene mutation in Saudis with Dental Caries. 2. Lama Aldakhil. Aug 2016. Identification of deletion break points of <i>HBA12</i> gene prevalent in Saudi Arabians. 3. Shahad Alabdulmohsen. Aug 2016. Influence of <i>KLF1</i> gene on Saudis with altered levels of HbA <sub>2</sub> .	SARSI - University of Dammam	2016
6.	Volunteering program	Mr. Mousa Alaithan	University of Dammam	2016
7.	Research Students	Dr Batool; Ms. Fatimah; Ms. Fatima Khalifah	KFUH	2016
8.	IRMC-Summer Research Program - 2019: As Mentor	Maram Adnan Alismail. May To Sep 2019: A Pilot Exome-Wide Association Analysis for Candidate Genes for ASD in Saudi Females	Institute for Research and Medical Consultations (IRMC), Imam Abdulrahman Bin Faisal University, Dammam, KSA	2019
9.	IRMC-Summer Research Program - 2019: As Mentor	Hamsa Mutlaq Alsubaie. May To Sep 2019: Y-Haplotypes and Exome-Wide Association Study for Pathogenic Variants and Genes Significantly Raise the Risk of Autism in Saudi Males <b>(Received the Best Project Award in the IRMC-SRP-2019)</b>	Institute for Research and Medical Consultations (IRMC), Imam Abdulrahman Bin Faisal University, Dammam, KSA	2019
10	IRMC-Summer Research Program - 2020: As Mentor	Wejdan Mohammed AlGhamdi. June to Sep 2020: The Effect of Amino Acid Substitutions in OR9K2 on the Olfactory Neural Response activating Odor Molecules.	IRMC, Imam Abdulrahman Bin Faisal University, Dammam, KSA	2020
11	IRMC-Summer Research Program - 2020: As Mentor	Rahaf Khalid Alquwaie. June to Sep 2020: Oud Odorant Molecules Interact with Mutated OR6C74 can Activate Olfactory Receptors	IRMC, Imam Abdulrahman Bin Faisal University, Dammam, KSA	2020
12	IRMC-Summer Research Program - 2020: As Mentor	Norah Ali AlGhamdi. June to Sep 2020: Emerging of composition variations of SARS-CoV-2 spike protein and human ACE2 contribute to the level of infection: In silico approaches. <b>(Received the Best Project Award in the IRMC-SRP-2020)</b>	IRMC, Imam Abdulrahman Bin Faisal University, Dammam, KSA	2020
13	IRMC-Summer Research Program - 2020: As Mentor	Fatimah Dheem Aldosari. June to Sep 2020: The impact of variations in DRD2 gene on the structure of DRD2 protein and interaction with risperidone: A pharmacogenetics study.	IRMC, Imam Abdulrahman Bin Faisal University, Dammam, KSA	2020



14	IRMC-Summer Research Program - 2020: As Mentor	Amaal Ghazi AIOtaibi. June to Sep 2020: Machine Learning and Deep Learning Based Diagnosis for COVID-19 Using Chest X-Ray Images	IRMC, Imam Abdulrahman Bin Faisal University, Dammam, KSA	2020
15	IRMC-Summer Research Program - 2020: As Mentor	Norah Abdulraheem Alzahrani. June to Sep 2020: Deep Learning Vs. Machine Learning Based Screening of COVID-19 Using Chest X-Ray Images.	IRMC, Imam Abdulrahman Bin Faisal University, Dammam, KSA	2020
16	IRMC-Summer Research Program - 2021: As Mentor	Students: Ms. Batoul Alqahtani, Ms. Remah Alzayyat, Ms. Sarah Althuwaiqeb, and Ms. Sukaina Aldamen. Novel Multiplex PCR for Early Fetal Gender Determination Non-Invasively	IRMC, Imam Abdulrahman Bin Faisal University, Dammam, KSA	2021
17	IRMC-Summer Research Program - 2021: As Mentor	Students: Ms. Aqeelah Salman Alfaraj, Ms. Maryam Jawad Alabdullah, and Ms. Rawan Khalid Alaqeel. Screening and Isolation of Novel Native Bacteria with Anti-Candida Activity against Multidrug-Resistant <i>Candida auris</i> (Received the Best Project Award 1 <sup>st</sup> place in the IRMC-SRP-2021)	IRMC, Imam Abdulrahman Bin Faisal University, Dammam, KSA	2021
18	IRMC-Summer Research Program - 2021: As Mentor	Students: Mr. Azhar Alhariri, and Mr. Majed Aloqaily . Screening and identification of genetic variations in the prenatal samples using ARMS PCR and sequencing (Received the Best Project Award 2 <sup>nd</sup> place in the IRMC-SRP-2021)	IRMC, Imam Abdulrahman Bin Faisal University, Dammam, KSA	2021
19	King Abdulaziz and his Companions Foundation for Giftedness and Creativity "Mawhiba". As Mentor: 3	1. Wissam Fahad Al Qurashi. May To June 2021: Real time Gender determination. (Selected for national National Olympiad "Ibdaa" 2022, Saudi Arabia) 2. Yahya Hassan Al Somali. May To June 2021: Novel ARMS PCR. (Selected for national National Olympiad "Ibdaa" 2022, Saudi Arabia) 3. Mohammed Alsalman. Novel Gender determination PCR.	IRMC, Imam Abdulrahman Bin Faisal University, Dammam, KSA	May to June 2021
20	IRMC-Summer Research Program - 2022: As Mentor	Students: Maraam M. Al Qout, Sadeem S. Alrubaian. Variants in OR12D2 Gene in Children with Autism Lower the Risk of Developing ADHD. IRMC 4th Annual Poster Day - Summer Research Program – 2022, on September 12, 2022. (Received the Best Project Award 3 <sup>rd</sup> place in the IRMC-SRP-2022).	IRMC, Imam Abdulrahman Bin Faisal University, Dammam, KSA	2022
21	IRMC-Summer Research Program - 2022: As Mentor	Students: Ghadah AlQarni, Manar Abufour, Shahad AlAli. Morphological features of fetal nucleated red blood cells in early pregnancy using microscopic and molecular techniques. IRMC 4th Annual Poster Day - Summer Research Program – 2022	IRMC, Imam Abdulrahman Bin Faisal University, Dammam, KSA	2022



22	IRMC-Summer Research Program - 2022: As Mentor	Students: Rahaf Alhujaily, Ayedah Kaabi. Bacterial genome mining for effective biosynthetic gene cluster against <i>Candida auris</i> . "IRMC 4th Annual Poster Day - Summer Research Program – 2022. At Imam Abdulrahman Bin Faisal University, Dammam, Saudi Arabia, on September 12, 2022. <b>(Received the Best Project Award 1st place in the IRMC-SRP-2022).</b>	IRMC, Imam Abdulrahman Bin Faisal University, Dammam, KSA	2022
23	IRMC-Summer Research Program - 2023: As Mentor	Hussain Anwar Alkatheri. Mining of biosynthetic gene clusters in bacterial genome with antifungal potential against multi-drug resistant <i>Candida auris</i> . "IRMC 5th Annual Poster Day - Summer Research Program – 2023. At Imam Abdulrahman Bin Faisal University, Dammam, Saudi Arabia, on August 28, 2023. <b>(Received the Best Project Award 3rd place in the IRMC-SRP-2023).</b>	IRMC, Imam Abdulrahman Bin Faisal University, Dammam, KSA	2023
24	IRMC-Summer Research Program - 2023: As Mentor	Shikhah Abdullah Alomran. Morphological Features of Fetal Nucleated Red Blood Cells in Pregnancy Using Live Cell Imaging. "IRMC 5th Annual Poster Day - Summer Research Program – 2023. At Imam Abdulrahman Bin Faisal University, Dammam, Saudi Arabia, on August 28, 2023.	IRMC, Imam Abdulrahman Bin Faisal University, Dammam, KSA	2023
25	IRMC-Summer Research Program - 2023: As Mentor	Dalal Motabagani. Excavating new Antifungal compound coded Biosynthetic gene cluster derived from novel <i>Macrocooccus</i> strain against multi-drug resistant <i>Candida auris</i> . "IRMC 5th Annual Poster Day - Summer Research Program – 2023. At Imam Abdulrahman Bin Faisal University, Dammam, Saudi Arabia, on August 28, 2023.	IRMC, Imam Abdulrahman Bin Faisal University, Dammam, KSA	2023
26	IRMC-Summer Research Program - 2023: As Mentor	Norah Alamri. RBC depletion mediated novel isolation and characterization of fetal nucleated red blood cells. "IRMC 5th Annual Poster Day - Summer Research Program – 2023. At Imam Abdulrahman Bin Faisal University, Dammam, Saudi Arabia, on August 28, 2023	IRMC, Imam Abdulrahman Bin Faisal University, Dammam, KSA	2023
27	IRMC-Summer Research Program - 2023: As Mentor	Lujeen H Alghourab. Genomic analysis of <i>Enterococcus faecalis</i> for identifying the leading cause of multi-drug resistance. "IRMC 5th Annual Poster Day - Summer Research Program – 2023. At Imam Abdulrahman Bin Faisal University, Dammam, Saudi Arabia, on August 28, 2023. <b>(Received the Best Project Award 1st place in the IRMC-SRP-2023).</b>	IRMC, Imam Abdulrahman Bin Faisal University, Dammam, KSA	2023



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

### Administrative Responsibilities

#	From	To	Position	Organization
1.	18 <sup>th</sup> Feb 2017	Till date	<b>Chairman</b> , Department of Epidemic Diseases Research	Institute for Research and Medical Consultations (IRMC), University of Dammam, Dammam
2.	17 <sup>th</sup> Dec 2015	Dec 2017	<b>MEMBER, IRMC MAIN COUNCIL</b>	Institute for Research and Medical Consultations (IRMC), University of Dammam,
3.	05 <sup>th</sup> June 2016	Nov 2017	<b>TEAM REPRESENTATIVE</b> , Department of Genetic Research	Institute for Research and Medical Consultations (IRMC), University of Dammam, Dammam
4.	09 <sup>th</sup> Nov 2015	Jan 2016	Member of the 2016 research proposal plan of IRMC	Institute for Research and Medical Consultations (IRMC), University of Dammam,
5.	2009	2010	Assistant Co-Ordinator, MICROCOSM, Association of Microbiology, Dept. of Microbiology,	St. Joseph's College, Bangalore, INDIA. During the academic year 2009-2010.
6.	1996	1997	School People Leader for more than 1500 student	St. Jude's High School, Pallam Tamil Nadu, India.

### Committee Membership

#	From	To	Position	Organization
1.	17 <sup>th</sup> Dec 2015	Dec 2017	Member, IRMC Main Council	Institute for Research and Medical Consultations (IRMC), University of Dammam,
2.	2009	2010	Member of Board of Studies, Dept. of Microbiology, During the academic year 2009-2010	St. Joseph's College, Bangalore, INDIA.
3.	13 May 2015	12 May 2016	Deputy Chairman and Member of the Managing Committee	International Indian School – Dammam, (An Indian Embassy school with >18,500 students) Dammam, SAUDI ARABIA.
4.	13 May 2016	13 May 2017	Convener - Academic Sub Committee and Member of the Managing Committee,	International Indian School – Dammam, (An Indian Embassy school with >18,500 students) Dammam, SAUDI ARABIA.
5.	14 May 2017	15 Nov 2017	Member of the Managing Committee,	International Indian School – Dammam, (An Indian Embassy school with >18,000 students) Dammam, SAUDI ARABIA.

### Scientific Consultations





#	From	To	Institute	Full-time or Part-time
1.	2017	2018	King Fahd University of Petroleum and Minerals (KFUPM)	Part-Time – Microbes in fish samples
2.	2016	2018	College of Science for Girls, IAU	Part-Time – Identification of Sulphate reducing Microbes
3.	2017	2018	College of Science for Girls, IAU	Part-Time – Identification of Enzyme producing fungi
4.	2014	2015	Dr. Sahar AlDosary, Department of Biology, Science College, University of Dammam	Molecular identification and electron microscopy of bacteria associated with some deserts plants
5.	2013	2016	Dr. Omar Mohammed Al-Amro Alakloby, Professor of Dermatology, University of Dammam	Novel mutations associated with ichthyosis in Saudi population
6.	2014	2015	Dr. Cyril Cyrus, Department of Genetic Research, Institute for Research and Medical Consultations (IRMC), University of Dammam	Existence of HbF enhancer haplotypes in transfusion dependent Saudi $\beta$ -thalassemia patients.
7.	2014	2015	Dr. S. Acharya, Department of Stem Cell Biology, Institute for Research and Medical Consultations (IRMC), University of Dammam	Gene Polymorphism and its Association with CVD and T2DM in the Saudi Population

#### SCIENTIFIC REPORTS

	Name of the Reporter	Research Title	Submitted to
1.	J. Francis Borgio	Confidential evaluation report to KACST: For Large proposal 1 on <b>Oct 24, 2011</b>	<b>KACST</b> , Saudi Arabia
2.	J. Francis Borgio	Confidential evaluation report to KACST: For Large proposal 2 on <b>Nov 5, 2013</b>	<b>KACST</b> , Saudi Arabia
3.	J. Francis Borgio	Confidential evaluation report to KACST: For Large proposal 3 on <b>Nov 27, 2014</b>	<b>KACST</b> , Saudi Arabia
4.	J. Francis Borgio	Confidential evaluation report to KACST: For final project report on <b>Oct, 2016</b>	<b>KACST</b> , Saudi Arabia
5.	J. Francis Borgio	Confidential evaluation report to KACST: For final project report on <b>MAR, 2018</b>	<b>KACST</b> , Saudi Arabia
6.	J. Francis Borgio	Arabian Gulf University, College of Medicine and Medical Sciences, <b>Bahrain</b>	Arabian Gulf University, <b>Bahrain</b>

#### CONTRIBUTION TO SCIENTIFIC JOURNALS AS A REVIEWER OR AS A MEMBER IN THE EDITORIAL BOARD

Profile at Publons : <https://publons.com/a/1387363>  
 Reviewer merit : >100  
 VERIFIED REVIEWS : >400  
 Verified Editor Records : >50



	Type of Contribution	Journal	Institution	Country	from	to
1	Academic Editor	<b>PLOS ONE</b> (Impact factor: 3.24 & Q1 Ranking)	PLOS is a nonprofit 501(c)(3)corporation, #C2354500	California, United States	06 Mar 2019	Till date
2	GUEST EDITOR	Biocatalysis and Agricultural Biotechnology,	Elsevier B.V	Amsterdam Netherlands	1 Aug 2019	Till date
3	TOPIC EDITOR	Frontiers in Microbiology (Impact factor: 5.640   CiteScore: 7.3)	Frontiers Media SA	Switzerland	19 Apr 2022	Till date
4	Associate Editor	Frontiers in Pediatrics	Frontiers Media SA	Switzerland	01 June 2022	Till date
5	Associate Editor	Frontiers in Genetics (Impact factor: 3.789) since	Frontiers Media SA	Switzerland	13 June 2022	Till date
6	Reviewer	Genes (Impact Factor: 3.6)	MDPI	Basel, Switzerland	12 Mar 2020	Till date
7	Reviewer	Mini-Reviews in Medicinal Chemistry (JIF: 2.903)	Bentham Science Publishers	United Arab Emirates	06 Dec 2019	Till date
8	Reviewer	Human Immunology (JIF 1.944)	American Society for Histocompatibility and Immunogenetics	New Jersey. USA	13 June 2019	Till date
9	Reviewer	Experimental Biology and Medicine (JIF: 2.68)	Society for Experimental Biology and Medicine	Washington, D.C., United States	08 Nov 2019.	Till date
10	Reviewer	Annals of Human Genetics (JIF 1.529)	John Wiley & Sons Ltd/University College London	United Kingdom	03 May 2019.	Till date
11	Reviewer	Reviewer : Molecular Medicine Reports (JIF: 1.851)	Spandidos Publications	Greece	Since 31 July 2019	Till date
12	Reviewer	Cellular Physiology and Biochemistry (Impact Factor: 5.104)	S. Karger AG,	Switzerland	Apr 30 2018	Till date
13	Reviewer	Meta Gene (WOS Journal)	Elsevier	Netherlands	08 June 2019	Till date
14	Reviewer	Journal of International Medical Research (Impact factor 1.023)	SAGE Publications Ltd	California, United States	20 Sep 2018	Till date
15	Reviewer	Biocatalysis and Agricultural Biotechnology	Elsevier	Netherlands	13 Feb 2019	Till date
16	Reviewer	Archives of Medical Science (Impact Factor: 1.9)	Termedia Publishing House	Poland	11 Oct 2017	Till date
17	Reviewer	Hemoglobin (Impact Factor: 0.770)	Italian Thalassaemia Association and the French Red Blood Cell and Iron Group	Italy	06 Apr 2018	Till date



18	Reviewer	Journal of Clinical Laboratory Analysis ( <b>Impact Factor: 1.5</b> )	John Wiley and Sons, Inc	USA	27 Jan 2018	Till date
19	Reviewer	Frontiers in Genetics (Impact Factor: 3.789)	Frontiers Media S.A.	Lausanne Switzerland	01 Nov 2017	Till date
20	Reviewer	RSC Advances ( <b>Impact Factor: 3.840</b> )	Royal Society of Chemistry,	United Kingdom	04 Sep 2017	Till date
21	Reviewer	Journal of Clinical Pathology ( <b>Impact Factor: 2.6</b> )	BMJ Publishing Group Ltd & Association of Clinical Pathologists	United Kingdom	04 July 2017	Till date
22	<b>Recognized Reviewer</b>	Blood Reviews ( <b>Impact Factor: 8.2</b> )	Elsevier	Netherlands	2015	Till date
23	Reviewer	International Journal of Dentistry and Oral Health (Impact factor 2.21)	BioCore Group Virginia	USA	15 Mar 2018	
24	Reviewer	Interdisciplinary Sciences: Computational Life Sciences (JIF: 0.853)	Springer	Berlin, Germany	05 Nov 2016	Till date
25	Reviewer	Irish Journal of Medical Science ( <b>Impact Factor: 0.827</b> )	Royal Academy of Medicine in Ireland	Ireland	2015	Till date
26	Reviewer	<b>Clinical Genetics (Impact Factor: 3.931)</b>	John Wiley & Sons Ltd	Canada	2015	Till date
27	Editor	SCIOL Genetic Science	SCience Open Library	UK	<b>July 2017</b>	
28	Editor	Journal of Hematology and Clinical Research	Heighten Science Publications	USA	2016	Till date
29	Editor	Austin Hematology	Austin Publishing Group	USA	2016	Till date
30	Editor	Austin Journal of Clinical Pathology	Austin Publishing Group	USA	2016	Till date
31	Editor	ARC Journal of Hematology	ARC Publications Pvt Ltd.	INDIA	2016	Till date
32	Associate Editor	Journal of Medicinal Plants Research	Academic Journals	Nigeria	2009	2011
33	Editor	Agriculture and Biology Journal of North America	Heriot-Watt University,	United Kingdom	2013	2014
34	Editor	International Journal of Research in Agricultural Sciences	Source of Knowledge	India	2011	Till date
35	Editor	Journal of Advance Research in Microbiology	Advance Research Publication	India	2011	Till date
36	Member of the Advisory Board	Advanced Research Publications	Advanced Research Publications	India	2014	2015
37	Editor	International Journal of Innovation in Science and Mathematics	Source of Knowledge	India	2013	Till date



38	Editor	International Journal of Agriculture Innovations and Research	Source of Knowledge	India	2013	Till date
39	Editor	Research & Reviews :A Journal of Microbiology & Virology.	Consortium eLearning Network	India	2011	Till date
40	Reviewer	Reviewer : PLOS ONE (Impact factor: 2.76)	Public Library of Science	California, United States	30 Oct 2019	Till date
41	Reviewer	Journal of biomolecular structure & dynamics (JIF: 3.310)	Taylor & Francis Group	Oxfordshire United Kingdom	18/05/2020	Till date
42	Reviewer	Journal Of Enzyme Inhibition And Medicinal Chemistry (JIF: 4.0)	Taylor & Francis Group	Oxfordshire United Kingdom	21/05/2020	Till date
43	Reviewer	Medicinal Chemistry	Bentham Science Publishers	UAE	09/05/2020	Till date
44	Reviewer	Prenatal Diagnosis (Impact Factor: 2.434) Since	John Wiley & Sons Ltd/University College London	United Kingdom	04/06/2020	Till date
45	Reviewer	International Journal of Molecular Medicine (JIF: 1.880) Since	Spandidos Publications	Greece	05/06/2020	Till date
46	Reviewer	Journal of Proteome Research ( <b>Impact Factor: 4.268</b> )	ACS Publications	USA	June 12 2020	Till date
47	Reviewer	Drug, Healthcare and Patient Safety	Dove Press	China	June 12 2020	Till date
48	Reviewer	Computers in Biology and Medicine (JIF: 2.286)	Elsevier	Netherlands	26 June 2020	Till date
49	Reviewer	Physical Chemistry Chemical Physics (JIF: 3.840)	Royal Society of Chemistry	United Kingdom	17 July 2020	Till date
50	Reviewer	Oncology Reports (JIF: 3.4).	Spandidos Publications	Greece	03 Aug 2020	Till date
51	Reviewer	Expert Review of Hematology (Impact Factor: 2.57)	Taylor and Francis	Britain / United States	Since 30 Sep 2020	Till date
52	Reviewer	Life Sciences (JIF: 3.6)	Elsevier	Netherlands	Since 16 Oct 2020.	Till date
53	Reviewer	ACS Omega, (Impact Factor: 2.58)	American Chemical Society	United States	Since 16 Oct 2020	Till date
54	Reviewer	International Journal of Molecular Sciences (JIF: 4.55)	MDPI	Switzerland	Since Dec 2020	Till date
55	Reviewer	Expert Opinion On Biological Therapy (JIF: 3.224)	TAYLOR & FRANCIS LTDx,	ENGLAND	17Mar2021	Till date
56	Reviewer	Frontiers in Medicine (Impact Factor: 3.9)	Frontiers Media SA	Switzerland	17Apr2021	Till date



57	Reviewer	Indian Journal of Medical Research (Impact Factor: 2.1)	Indian Council of Medical Research (ICMR)	India	07 July 2021	Till date
58	Reviewer	Reproduction, Fertility and Development, (JIF: 1.7)	CSIRO Publishing	Australia	03 Sep 2021	Till date
59	Reviewer	Biology (Impact Factor: 5.08)	MDPI	Switzerland	Since Oct 2021	Till date
60	Reviewer	Cells (Impact Factor: 6.6)	MDPI	Switzerland	Since Nov 2021	Till date
61	Reviewer	Infection and Drug Resistance (JIF: 4.0)	Dove Medical Press	United Kingdom	Since Jan 2022	Till date
62	Reviewer	Children (JIF: 2.86)	MDPI	Switzerland	Since Feb 2022	Till date
63	Reviewer	Asian Biomedicine (Impact Factor: 0.2)	Sciendo	Poland	Since Feb 2022	Till date
64	Reviewer	European Journal of Inflammation (Impact Factor: 0.466)	SAGE Publications, London, UK	United Kingdom	Since Feb 2022	Till date
65	Reviewer	Frontiers in Pediatrics (Impact Factor: 3.418)	Frontiers Media SA	Switzerland	20Mar2022	Till date
66	Reviewer	Emerging Microbes & Infections (Impact Factor: 7.163)	TAYLOR & FRANCIS LTDx,	ENGLAND	03 May 2022	Till date
67	Reviewer	Life (Impact Factor: 3.817)	MDPI	Switzerland	19 May 2022	Till date
68	Reviewer	INQUIRY (Impact Factor: 0.73)	SAGE Publishing	United States	08 Jul 2022	Till date
69	Reviewer	Molecular Biology Reports, (Impact Factor: 2.36)	Springer Science+ Business Media	Berlin, Germany	16 July 2022	Till date
70	Reviewer	European Journal of Epidemiology (Impact Factor: 8.08)	Springer Science+ Business Media	Berlin, Germany	6 <sup>th</sup> Feb 2023	Till date
71	Reviewer	Journal of Molecular Neuroscience (Impact Factor: 3.444)	Springer Science+ Business Media	Berlin, Germany	18 May 2023	Till date
72	<b>Editorial Board Member</b>	Brain Sciences (Impact factor: 3.333) since <a href="#">[Link]</a>	MDPI	Switzerland	09 June 2023	Till date
73	TOPIC EDITOR	Frontiers in Medicine   Molecular Informatics in Precision Medicine <a href="#">[Link]</a>	Frontiers Media SA	Switzerland	13 July 2023	Till date

#### VOLUNTEER WORK

#	From	To	Type of Volunteer	Organization
1.	2022	Till Date	RESEARCH GRANT REVIEWER	Arabian Gulf University, Manama, Kingdom of Bahrain.
2.	2017	2018	Microbes in fish samples	King Fahd University of Petroleum and Minerals (KFUPM), Saudi Arabia
3.	2011	Till Date	RESEARCH GRANT (SMALL AND LARGE) REVIEWER	King Abdulaziz City for Science and Technology (KACST), Riyadh, Saudi Arabia



4.	2016	2018	Identification of Sulphate reducing Microbes	College of Science for Girls, IAU
5.	2017	2018	Identification of Enzyme producing fungi	College of Science for Girls, IAU
6.	2014	2015	Molecular identification and electron microscopy of bacteria associated with some deserts plants	Department of Biology, Science College, University of Dammam
7.	2013	2016	Novel mutations associated with ichthyosis in Saudi population	College of Medicine, University of Dammam
8.	2016	2017	Student Research Volunteering activity and Guidance	Al-Muslami A.M., College of Medicine / Institute for Research and Medical Consultations
9.	2017	2018	Student Research Volunteering activity and Guidance	Amani M. Al-Amodi, Institute for Research and Medical Consultations
10.	2017	2018	Student Research Volunteering activity and Guidance	Sumayh A. Aldakeel, Institute for Research and Medical Consultations
11.	2017	2018	Student Research Volunteering activity and Guidance	Neda Z. Ghanem, Institute for Research and Medical Consultations
12.	2017	2018	Student Research Volunteering activity and Guidance	Quds Abdulhakeem AlQattan, College of Pharmacy / Institute for Research and Medical Consultations
13.	2017	2018	Student Research Volunteering activity and Guidance	Ameen AlTurki College of Pharmacy / Institute for Research and Medical Consultations
14.	2017	2018	Student Research Volunteering activity and Guidance	Abdulrahman Alghamdi, College of Medicine / Institute for Research and Medical Consultations
15.	2017	2018	Student Research Volunteering activity and Guidance	Ohud, Institute for Research and Medical Consultations,
16.	2018		Student Research Volunteering activity and Guidance	Deem N. Alkuroud, Institute for Research and Medical Consultations,

#### Participation in Examinations *(as an External/internal examiner)*

	External/internal	College & University or program	Specialty	Date
1.	External	Bharathiar University, Coimbatore, Tamil Nadu, India & Ph.D Examiner	Microbiology	Sep 2018
2.	External	Sathyabama University, Nadu, India & Ph.D Examiner	Cancer Genetics	July 2017
3.	External	Sri Balaji Vidyapeeth University, India. & Ph.D Examiner	Molecular Genetics	Nov 2016
4.	External	Anna University, Chennai, India & Ph.D Examiner	Molecular Genetics	August to Dec 2015
5.	External	University of Madras, Tamil Nadu, India	Microbiology / Zoology	Dec 2020
6.	External	Bharati Vidya Peeth University, Pune	M. Sc., Microbiology	11 March 2008
7.	External	Bharati Vidya Peeth University, Pune	M. Sc., Microbiology	12 March 2008
8.	Internal and External	St. Joseph's College, Bangalore, INDIA.	M. Sc., Microbiology	2007-2011

NEW HUMAN GENE MUTATIONS SUBMITTED TO NCBI GENE BANK





**ClinVar: Genomic variation as it relates to human health: 2**

1. NM\_017419.3(ASIC5):c.680G>T (p.Arg227Ile): variant in ASIC5 gene has been observed in a Saudi Arabian Family with autosomal recessive recurrent pregnancy loss or recurrent miscarriage. [\[Link\]](#)
2. NM\_138694.4(PKHD1):c.8743G>T (p.Glu2915Ter): variant in PKHD1 gene has been observed in a Saudi Arabian Family with autosomal recessive recurrent pregnancy loss or recurrent miscarriage. [\[Link\]](#)

**BioProject:**

1. PRJNA912746: Genetic Association study of Autism in Saudi Females using SNP array (human) [\[Link\]](#)
2. PRJNA637814: Complete genome sequences of *Aedes aegypti* collected from Tamil Nadu, India
3. GenBank: JABWQA000000000.1; *Aedes aegypti* isolate CPRC1, whole genome shotgun sequencing project

**GEO: Gene Expression Omnibus: 73 samples [\[Link\]](#)**

**GSE221098:** GSM6845201 - GSM6845273 Genetic Association study of Autism in Saudi Females using SNP array. [\[Link\]](#).

**Complete mitochondrion genome: Accepted as NCBI Reference Sequence (RefSeq)**

1. Accepted as NCBI Reference Sequence: NC\_069622.1; GenBank OP270692.1: *Ectomocoris horridus* mitochondrion, complete genome [\[Link\]](#).
2. Accepted as NCBI Reference Sequence: NC\_069623.1; GenBank OP529843.1: *Rhynocoris marginatus* mitochondrion, complete genome [\[Link\]](#).
3. Accepted as NCBI Reference Sequence: NC\_069624.1; GenBank OP545807.1: *Acanthaspis pedestris* mitochondrion, complete genome [\[Link\]](#).
4. Accepted as NCBI Reference Sequence: NC\_069625.1; GenBank OP562891.1: *Polididus armatissimus* mitochondrion, complete genome [\[Link\]](#).
5. Accepted as NCBI Reference Sequence: NC\_069626.1; GenBank OP572414.1: *Catamiarus brevipennis* mitochondrion, complete genome [\[Link\]](#).

**Gene Bank Profile: [\[Link\]](#)**

1. GenBank KC959404: c.-51\_54delAATG 4bp deletion in intron 8 of ATRX gene
2. GenBank KF257930: c.186T>C point mutation in exon 10 of ATRX gene
3. GenBank KF257931: s.-281A>G point mutation in intron 10 of ATRX gene.
4. GenBank KF257932: c.-36T>C in intron 9 of ATRX gene.
5. GenBank KF284154: c.29delA in exon 9 of ATRX gene.

**Protein Sequences submitted to Gene Bank**

1. GenBank ID: AEV42054.1; Ribosomal protein L9 [*Bemisia tabaci*]
2. GenBank ID: AEV42052.1; Actin [*Bemisia tabaci*]
3. GenBank ID: AEV42053.1; Alpha-tubulin [*Bemisia tabaci*]

<b><u>18srRNA Sequences submitted to Gene Bank</u></b>	=	<b>37</b>
<b><u>Insect DNA Sequences submitted to Gene Bank</u></b>	=	<b>3</b>
<b><u>16srRNA Sequences submitted to Gene Bank</u></b>	=	<b>46</b>
<b><u>Struthio camelus DNA Sequences submitted to Gene Bank</u></b>	=	<b>10</b>
<b><u>Fungal DNA Sequences submitted to Gene Bank</u></b>	=	<b>9</b>

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



1	Computer Applications in Biology	
2	Modern Molecular Biology Protocols	
3	Microbiology Protocols	
4	Molecular biology software packages	

#### APPRECIATIONS RECEIVED

1. Received a shield, as an appreciation from the Administration of Al Bassan Schools for the co-operation with their student's academic and practical.
2. Received a letter of appreciation from His Excellency the President of the University of Dammam on the occasion of the US patent filled.

#### PATRON

Kadalalayam Kalvi Kalagam, A Public Charitable Trust, Nagercoil, Tamil Nadu, India.

#### LYRICIST

Penned 3 motivational songs in Tamil.

Penned 1 song for world peace.

#### Web links and online IDs:

<http://www.researcherid.com/rid/P-5586-2014>

<http://orcid.org/0000-0001-7199-1540>

<https://publons.com/a/1387363>

<http://scholar.google.com/citations?user=Z43FbpEAAAAJ&hl=en>

[https://www.researchgate.net/profile/J\\_Francis\\_Borgio](https://www.researchgate.net/profile/J_Francis_Borgio)



QR code

ISNI: 0000 0001 0755 3263. (<http://isni.org/isni/0000000107553263>)

<http://livedna.org/91.5512>

<https://www.scopus.com/authid/detail.uri?authorId=36891451200>

<https://europepmc.org/authors/0000-0001-7199-1540>

<https://www.pubfacts.com/author/Jesu+Francis+Borgio>

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