

ORIC NEWS

ISSUE: FALL2020

Message from the Director



Welcome to the first edition of the ORIC newsletter. We are happy to bring you an update of the activities of Office of Research Innovation and Commercialization through this newsletter. ORIC is set up at FCCU duly notified by the Higher Education Commission (HEC) in 2011.

ORIC is mandated to facilitate high-quality Research, Innovation activities and their Commercialization in the University.

Over the past year, ORIC has facilitated the Faculty and Researchers to channelize research-led initiatives. and, innovation, commercialization, collaboration, capacity building and facilitates researchers in the processing of the grants. Also providing FCC's Internal Research Grants as seed funding for faculty.

We have also developed linkages with the, Governmental organization and Industry and are consolidating it by means of formal MOU's. While the COVID-19 pandemic has had a disruptive effect on many fields, we have continued to provide our services remotely. ORIC will serve the university as a bridge between university research and research user of industry and society.

I thank the Rector, Faculty and Staff for supporting the ORIC activities.

Dr. Kauser Abdullah Malik, H.I, S.I, T.I
Director ORIC



ORIC ACTIVITIES

- DIRECTOR-ORIC REPRESENTS FCCU AT NATIONAL DIALOGUE ON AGRICULTURAL BIOTECHNOLOGY IN COMSTECH.
- LAB NAMING AFTER THE DIRECTOR ORIC
- NRPU GRANTS AT FCCU
- FCC INTERNAL RESEARCH & INNOVATION FUND
- ORIC RESEARCH DIPLOMA
- RESEARCH OPPORTUNITIES FACILITATION
- INTERNATIONAL CONFERENCES
- SEMINARS
- TRAVEL GRANTS
- REPRESENTATION ON NATIONAL FORUMS
- ENTREPRUNERSHIP INITIATIVES
- DEVELOPING LINKAGES



DIRECTOR-ORIC REPRESENTS FCCU AT THE NATIONAL DIALOGUE ON AGRICULTURAL BIOTECHNOLOGY AT COMSTECH, ISLAMABAD

Pakistan Biotechnology Information Centre (PABIC), in collaboration with Forman Christian College University (FCCU) and United States Department of Agriculture (USDA), organized the National Dialogue on Agricultural Biotechnology. Dr. Kauser Abdullah Malik addressed the gathering.

Dr. Kauser Abdullah Malik with Federal Minister of Science and Technology Mr. Fawad Chaudhry and the group at COMSTECH, Islamabad.



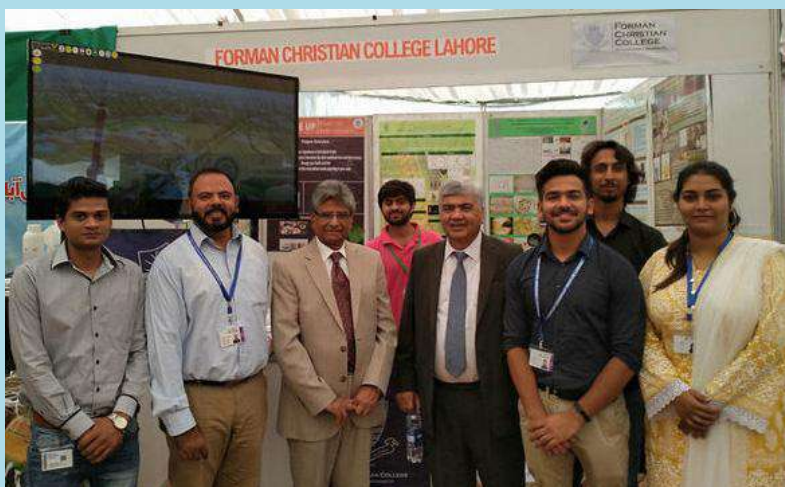
Dr. Kauser with the Federal Minister and the delegates of the Conference at COMSTECH, Islamabad.



SCHOOL OF LIFE SCIENCES NAMED AFTER DIRECTOR ORIC, DR. KAUSER ABDULLA MALIK, HI, SI, TI

In a ceremony held in Armacost Science Building in March the School of Life Sciences was named after Dr. Kauser Abdulla Malik School of Life Sciences, to honor Dr. Kauser Abdullah Malik for his commendable service as Professor and Researcher and his contribution to Research in FCCU and around Pakistan.

FCCU-ORIC REPESENTED AT NATIONAL FORUMS



FCCU-ORIC represented FCCU on the Expo on “Role of Science and Technology Education for Industrial Development”

Held on 23rd and 24th September 2019 at PCSIR Laboratories Complex in Lahore. Projects of FCC’s students and Faculty from Biological Sciences, Chemistry and Computer Sciences were presented. There were 46 Universities, Research Institutes, Government and Semi-Government organizations represented at the Expo.



FCCU-ORIC set up a stall at the Lahore Science Fair 2019

Lahore Science Mela organized by Khawarizmi Science Society in Ali Institute of Education on 12th and 13th October 2019. The theme of FCCU-ORIC’s stall was “Science and Research”. The Display at the FCCU stall included: specimens from FCCU Natural History Museum, there were exhibits from Chemistry department and Biotechnology department displaying GMO crops. The stall was well attended by students and their families.



FCCU-ORIC Participated in the 8th Invention to Innovation Summit, Punjab – 2019,

Organized by CEMB, the University of Punjab, Lahore from 02 April – 03 April 2019. ORIC presented Faculty patents, Research Projects and student Research projects at the Summit. Universities from Punjab, Research Institutes and Multinational Corporations took part in the event.



FCCU SIGNS MOU with Securities and Exchange Commission (SECP)

FCCU signed an MOU with the Securities and Exchange Commission of Pakistan (SECP) on 16th December 2019. According to the MOU SECP would facilitate in Financial, Business and Economics knowledge sharing and specific lectures and seminars. SECP would also facilitate easy and simple registration process for start-ups for FCCU students. Senior Manager ORIC Mr. Haroon Samson attended the MOU signing ceremony in the SECP office, in Islamabad.

ORIC SPONSORED EVENTS

3rd Annual Mphil Poster Competition 2019

FACULTY OF NATURAL SCIENCES
IN COLLABORATION WITH (ORIC)

Schedule:
 Poster Placement: 8:00am to 10:00am
 Evaluation: 11:00am to 2:00pm
 Prize Distribution Ceremony: 4:30pm
 Refreshments: 5:30pm

Wednesday 25th September
 Venues: S-OCTA
 From 9am - 4pm

Prizes:
 3rd: 5,000/-
 2nd: 7,000/-
 1st: 10,000/-

Departmental Prizes:
 1st Prize: Rs 2,000/- and certificate
 2nd Prize: Rs 1,000/- and certificate

Coordinators:
 Dr. Sadia Zaher (Physics)
 Dr. Asma Maqbool (Biotechnology)
 Dr. Zaffar Mehmood (Food Safety and Quality Management)
 Dr. Adnan Arshad (Molecular Pathology and Genomics)
 Dr. M. Abdul Hameed (Chemistry)
 Ms. Silvia Machado (Environmental Sciences)

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FORMAN CHRISTIAN COLLEGE (A CHARTERED UNIVERSITY), LAHORE

ORIC Sponsors 3rd Annual Poster Competition

The Faculty of Natural Sciences held its 3rd Annual MPhil Poster Competition on 25th September 2019. The poster competition was organized with the purpose to provide a platform to the students where they can present their Research in the form of posters. 70 posters were presented by the students from various M.Phil Programs including Biotechnology, Molecular Pathology and Genomics, Food safety and Quality Management, Physics, Chemistry and Environmental Sciences.





Entrepreneurial Fiesta 2019

Entrepreneurial Fiesta'19 is the forerunner in contributing innovative and exciting dimensions to the usual Entrepreneurial shows. This creates an atmosphere where brands have the opportunity to reach out to the youth of today in creative and diverse ways. An event of **Young Entrepreneurs Forum (YEP) FCC** supported by **ORIC** among other sponsors.



ORIC SPONSORS INNOVATION COMPETITION 2019

The Faculty of Natural Sciences and the Office of Research, Innovation and Commercialization (ORIC) arranged the Innovation Competition 2019, held on the 2nd of May 2019



ORIC Sponsors students of Mathematics Competition

The 5th CASPAM Regional Student Olympiad of Mathematics (CRSOM-5) was organized by the Center for Advanced Studies in Pure and Applied Mathematics (CASPAM), BahauddinZakariya University (BZU), Multan. A team of 4 BS (Hons) Mathematics students from FCCU participated in this great event. The Team was accompanied by the Chairperson of Mathematics Department, Dr. Shabnam Malik.



ORIC-CLT DIPLOMA IN RESEARCH

FCCU-ORIC and Center of Learning and Teaching (CLT) FCCU conducted a Diploma in Research in June – July 2019 for Faculty, Staff and Researchers.



FCCU Internal Research and Innovation Fund (IRIF)

FCCU-ORIC has an Internal Research and Innovation Fund which is used to fund FCCU Faculty's Research Projects, this year it funded **06** Projects for Research

- *Nano formulation as a mean of targeted drug delivery in Leukemia cell line*, by **Dr. Adnan Arshad**
- *Investigation of anti-enzymatic activity of phytochemicals from selected medicinal plant against HCV* by **Dr. Dildar Ahmad**
- *Design and synthesis of HCV Ns3 Protease Inhibitors* by **Dr. Hira Khalid**.
- *Usability Evaluation of Atie Robot to Tech Geometrical Shapes to Elementary Level Students* by **Dr. Saad Bin Saleem**
- *The Impact of the Quality Life of the Elderly of Intergenerational learning.* by **Dr. Sara Rizvi Jafree**
- *Expression Profiling of PALB2 in Pakistani Breast Cancer Patients* by **Dr. Bass Salman Anjum**



13 International Travel Grants approved facilitated



40 + International and National Research Opportunities Identified for the Researchers

RESEARCH GRANTS



NATIONAL RESEARCH PROGRAM FOR UNIVERSITIES (NRPU) -HEC

Applications submitted **20**

Approved **06**

- Development of packaging materials for nano preservation of Fresh Food
- Purification and characterization of holiday Junction resolvase from a thermophilic archaeon pyrobaculumcalidifonts. A step towards cancer drug discovery in Pakistan.
- Ionic Liquid Mediate multicomponent reactions (MCRs) for the synthesis of biologically active heterocyclic compounds synthesis, structural elucidation, and evaluation of biological activities targeting neurodegenerative Diseases.
- Interaction and dynamics in deep cotectic solvents and their binary mixtures with molecular solvents.
- Development & Evaluation of Lab-scale integrated Biotech refinery to convert poultry waters into industrially important, safe & Useful products.
- Synthesis of Novel Sulfonamide Derivatives as Inhibitors of Ectonucleotides Electrochemical treatment of tannery waste using a Diacell.
- Substitution of synthetic polymers with highly biocompatible and inexpensive polymers from renewable sources in the formulation of pharmaceuticals

PAKISTAN SCIENCE FOUNDATION (PSF)

- Insect Resistance management by Vegetative Insecticidal Protein (Vip) Based Bio-Pesticides.
- Evaluation of selected of phytase Transgenic Wheat Lines in soil under Contained Environment
- Quasilinear Theory of electrostatic and electromagnetic instabilities with non-Maxwellian distribution functions.

US-PAKISTAN CENTER FOR ADVANCED STUDIES IN WATER

- Electrochemical treatment of tannery waste using a Diacell

ORIC OPERATIONS





ENTREPRENEURSHIP TRAININGS



FCCU and IdeaGist Pakistan arranged online Entrepreneurship Trainings for the students of Startup Pakistan Pilot Cohort I and Cohort II on July 11, 2020. The event was organized by IdeaGist in coordination with FCCU-ORIC, the world's largest digital incubation platform, 104 FCCU students and Faculty members participated and 26 FCCU students graduated from the Online Entrepreneurship Program in Cohort 1 & 2. More FCCU students are preparing to join Cohort 3 of the Online Entrepreneurship Training.

ESTABLISHMENT OF FCCU-ORIC

The Office of Research, Innovation and Commercialization (ORIC) was established in July 2011 to encourage meaningful research by faculty and students to forge linkages between industry, civil society and academia.

ORIC Advisory Committee

- Dr. Kausar Abdullah (Biol. Sci.)
- Dr. Fareeha Hameed (Physics)
- Ms. Neelum Hanif (English)
- Ms. Farheen Saeed (Mass Com)
- Dr. Wajahat Hussian (Convener)
- Dr. Zafar Mehmood (Biol. Sci.)
- Ms. Faiza Zaheer (English)
- Dr. Bushra Usman (Business)

ORIC ONLINE

ORIC webpage: <https://www.fccollege.edu.pk/office-of-research-innovation-and-commercialization-oric/>

ORIC ONLINE RESEARCH REPOSITORY: <http://58.27.197.146:8080/jspui/>

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