

CENTRAL LIBRARY & PCEBP CONFERENCE - DIGITAL MEDICAL INFORMATION RESOURCES FOR CLINICAL DECISION

Conference on “Digital Medical Information Resources for Clinical Decision” and Webinar on “Access to Clinical Key database” was organised by Central Library, Pushpagiri Institute of Medical Sciences & Research Centre (PIMS&RC), Tiruvalla in association with Pushpagiri Centre for Evidence Based Practice (PCEBP) on Tuesday, 07th March 2023 at Lecture Hall 2, Academic Block of PIMS&RC. Mr. Daies Idiculla, Chief Librarian, Gulf Medical University, Ajman, UAE was the Chief Guest and the Resource Person for the conference. Mr. Durga Ranganath, Customer Success manager of Elsevier Clinical Solution was another Resource Person. The first session was taken by Mr. Daies Idiculla on Steps in Research, Role of databases in Medical Research etc. He demonstrated various Online medical databases like Clinical Key, Medline, EbscoHost, Access Pharmacy, UpToDate, Lecturio Nursing, Lecturio Medical, DrugDex & ScienceDirect which helps in the research area of Medical Education, Nursing, Pharmacy & Dental. The Second session was taken by Mr. Durga Ranganath who gave detailed information on accessing Elsevier Clinical Key. The programme started with a prayer. Dr. Elsheba Mathew- PCEBP Director delivered the welcome speech. Rev. Fr. George Valiyaparambil, Director- PIMS&RC delivered the Director's message, Dr. Tomy Philip, Principal honoured the resource person by presenting a memento, Mr. Chandy Abraham, Chief Librarian delivered the Vote of thanks. 47 participants were present from various institutions and E-Certificates were provided to the participants.



BLS and ACLS Course

BLS and ACLS Courses were conducted by Department of Anesthesiology from 20th to 22nd March 2023. 15 people participated. Class was conducted in skill lab.



PUSHPAGIRI RESEARCH CENTRE UPDATES

MOU –PUSHPAGIRI RESEARCH CENTRE & S.B. COLLEGE, CHANGANACHERRY

The MOU was executed on 29.03.2023 and is effective from 29.03.2023. The purpose of MOU is to formally express the mutual wish of PRC and SB College to develop collaborative teaching, research and exchanges between students, teachers, researchers and staff. This is an MOU which outlines an intention to promote collaboration between the above-mentioned institutions.



RESEARCH DAY CELEBRATIONS 2023

The Research and Development unit of Pushpagiri College of Dental Sciences proudly celebrated the Research Day on 27th March, 2023. The chief guest for the event was Dr. C. P. Vijayan, Pro Vice-Chancellor, Kerala University of Health Sciences. The occasion was graced by Rev. Fr. Jose Kallumalickal, CEO Pushpagiri Group of Institutions and Rev. Dr. Mathew Mazhavancheril, (Director, Pushpagiri Research Centre). Rev. Fr. Aby Vadakkumthala, Director Institutions, Dr. Aby Mathew, Principal, PCDS, Vice Principals- Dr. Sunil S and Dr. Benley George, Head of all the departments, faculty members, post graduates and under graduate students were present for the programme.

The main intention of this programme is to encourage research culture and to appreciate the faculty members, post graduates and under graduates who have done exemplary performance in research activities during the year 2022. Research awards and funds were handed over to faculties and students. This was followed by a talk by the Guest speaker Dr. Saritha Susan Vargese, Associate Professor, Believers Church Medical College on the topic ‘Research for Scientific Practice and Education’.



MEDICAL BIOTECHNOLOGY LABORATORY PRC

PRC has acquired a powerful state-of-the-art Dell Workstation powered by latest Intel® Core i9 processor with 2.4-5.1GHz processor and 32 GB RAM layout. Besides the workstation has 512GB SSD-2TB HDD hybrid memory capacity for storing and performing big data analysis and 4GB Nvidia Quadro graphics for performing whole genome sequence analysis, complex simulations and computer-aided drug designing studies. The workstation will be immensely useful to carry out cutting edge in-silico research and establish computational pipelines in the research filed. It's going to open new avenues for broadening our research spectrum in Pushpagiri for translational clinical research and validations. The workstation will also be extremely useful for guiding UG and PG students, carrying out Bioinformatics Workshops and hands-on-training sessions for Interns/Trainees/Project students coming to PRC for their undergraduate and post-graduate thesis. Currently the workstation is placed in the Medical Biotechnology Laboratory under the supervision of Dr Aniket Naha (Scientist, PRC).



INTERNATIONAL CONFERENCE ON "EMERGING TRENDS IN PLANT SCIENCE RESEARCH"

The Catholicate College in Pathanamthitta, Kerala, India organized a two-day International Conference on "Emerging Trends in Plant Science Research" on March 6th and 7th, in association with the Kerala Academy of Science. The event was co-sponsored by the Kerala State Council for Science and Technology & Environment, Pattom, Thiruvananthapuram. Dr. Yogesh Bharat Dalvi from the Pushpagiri Research Centre was one of the resource persons invited to speak at the conference. He delivered a scientific talk on "Exploring the therapeutic potential of Phytoceuticals in tissue engineering: Harnessing the power of plants, algae, and fungi." The screening committee of th conference had approved the abstracts of 12 candidates from Pushpagiri Research Centre for participation in the oral and poster presentation competition. The following are the details of the abstractand the participants.

Best Oral Presentation (Research scholar)		Ms. Namitha Vijay	Exploration of tissue engineering potency of Polycaprolactone scaffold incorporated Ganoderma extracts
Best Oral Presentation (Student)		Ms. Olivia Thokchom	Development of sodium alginate-based hydrogels integrated with polyherbal extract for diabetic wound healing
Oral Presesntation		Ms. Sunitha Sable	Phytotherapeutic Approaches for accelerating diabetic wound healing: A comprehensive invitro and invivo investigation of herbal plant extracts
Poster Presentation		Mr. Nikhil Krishnan	Diabetic Wound Care Management: A Promising Approach With Zinc-Alginate Hydrogel Loaded With Moringa Bark Extract
Poster Presentation		Ms. Dain Babu	Isolation and molecular identification of phosphate solubilizing bacteria from soil
Poster Presentation		Ms. Jaitha S. Kumar	Analyzing The Efficacy Of Sodium Alginate Hydrogel Infused With Poly-herbal Extracts For Modern Wound Care Management
Poster Presentation		Ms. Jeff P. Johnson	In Vitro And In Vivo Studies of Diabetic Wound Healing By PVDF-Collagen-Biomolecule Scaffold
Poster Presentation		Ms. Mahima Soney	CBCT Assisted In Vivo Regeneration Potential Of Sol-Gel Synthesized Bioglass Loaded With Catechin Intended For Periodontal Regeneration

Poster Presentation		Ms.Saba Shaji Noushad	Evaluation Of Anti-Inflammatory Property of Aqueous Ethanolic Poly-Herbal Extract In CFA-Induced Rat Model
Poster Presentation		Ms.Saba Shaji Noushad	Evaluation Of Poly-Mushroom Extract in Treating Ethylene Glycol Induced Urolithiasis in Rat
Poster Presentation		Ms.Sneha Varghese	Exploring The In Vivo Biocompatibility Of PVDF-ZnO Composite Scaffold for Biomedical Applications
Poster Presentation		Ms.Sreelekshmi.S	In Vivo Evaluation of Guar Gum Hydrogel Incorporated Poly-Fungal Extract for Chronic Wounds in Rat

Namitha Vijay received the Best Oral Presentation in the Research Scholar category, and Olivia Thokchom received the Best Oral Presentation in the Student category. This conference provided an excellent opportunity for students to interact and exchange ideas with scientists from different areas of plant science and technology



iBreast Exam training

PRC in collaboration with UE life sciences conducted a training session for one day on 30th March 2023 at the Menopause clinic of OBG OPD. The sessions were dealt by Mrs. Anjali, Bio medical engineering & Mrs.Kalavathi, Operations manager from Bangalore. Dr. Vandana Vijayan, Dr. Dency Davis & Dr. Sapna Meryl Mani, Postgraduates of department of Community Medicine attended the hands-on training & screening was done for 10 volunteers free of cost. An iBreast Exam helps detect lumps or lesions in the breast tissue that may not be visible or palpable. In published clinical studies, iBreast Exam has shown to identify breast lesions with sensitivity of 83% to 87%. In other words, iBreast Exam may miss to detect a breast lesion 13 - 17% of the times. It is Non-invasive, Radiation-free Breast Examination Device, user friendly anywhere and for all adult women. The machine was purchased to PRC as part of CANcare project. It costs around 3 -4 lakhs. Dr. Betsy A Jose, Community Medicine, Assistant Professor & PRC member coordinated the programme.



PUSHPAGIRI CENTRE FOR EVIDENCE BASED PRACTICE (PCEBP) – A JBI Centre of Excellence, University of Adelaide, Australia

A 5-day Comprehensive Systematic Review Training Program (CSRTP) consisting of three modules was conducted by PCEBP on March 21st-23rd and 27th-28th 2023, 9:00 am - 4:00 pm at Pushpagiri Research Center. JBI trained trainers - Dr. Saritha Susan Vargese, Department of Community Medicine, Associate Professor, Believers Church Medical College Hospital and Deputy Director of PCEBP and Sr. Mary Jyothi OSS, Associate Professor of Child Health Nursing, Vice Principal, Pushpagiri College of Nursing took the classes on quantitative and qualitative systematic reviews respectively. Ten participants from different branches of health sciences including medicine, research, and nursing from in and out of Kerala took part in the training. The first systematic review by the PCEBP team was published in the JBI Evidence Synthesis journal in February.



FACULTY SEED FUNDING

Dr. Sherin Sara George from the Department of Paediatric and Preventive Dentistry, Pushpagiri College of Dental Sciences, received faculty seed funding for the year 2022-2023 for the research protocol titled, “Preventive oral health behaviours and prevalence of oral diseases and dental treatment needs in children with Autism Spectrum Disorder, and management by a Non Restorative Caries Treatment Protocol”. A certificate and cash of Rs. 25000/- was awarded for the same.



PUBLICATION

- Naha, A., Ramaiah, S. Novel Antimicrobial Peptide SAAP Mutant as a Better Adjuvant to Sulbactam-Based Treatments against Clinical Strains of XDR Acinetobacter baumannii. Probiotics & Antimicro. Prot. (2023). <https://doi.org/10.1007/s12602-023-10067-5>.
- CMC, Serena; Lord, Heidi; Vargese, Saritha Susan; Kurian, Nisha; Cherian, Sunu Alice; Mathew, Elsheba; Fernandez, Ritin. Effectiveness of physical stimulation for reducing injection pain in adults receiving intramuscular injections: a systematic review and meta-analysis. JBI Evidence Synthesis 21(2):373-400, February 2023. | DOI: 10.11124/JBIES-20-00590

PRESENTATION

Dr. Soumya R.S. (Scientist PRC) did an oral presentation on paper entitled “Effect of allicin incorporated locust bean gum nanoparticles on isoproterenol induced myocardial infarction in rats”, at a two-day, National conference on Advanced functional materials held at VTMNSS college, Dhanuvachapuram, Trivandrum co-sponsored by Kerala State Science Technology and Environment (KSCSTE) The conference was held from 23-03-2023 to 24-03-2023.