

RESEARCH CENTRE UPDATES

One Day Workshop and Hands on Training on HPLC Essentials:
Phytochemical Techniques in Developing Phytomedicines organized by
Biochemistry laboratory PRC on 29th July 2024



On July 29th, 2024, Pushpagiri Research Centre hosted a highly successful **One Day Hands on workshop on High-Performance Liquid Chromatography (HPLC) Organized by Dr. Soumya R.S**, Scientist PRC . It drew a diverse audience of researchers which includes PhD candidates, Post Doctoral Fellows, professionals, and students from various Institutes like **Regional Cancer Centre, Jubilee Mission Medical College, Oushadhi Pharmaceutical Corporation Kerala Ltd, MACFAST, JSS College Mysore, Devasom Board College Pamba, MG University, Maharajas College, Pushpagiri Pharmacy College, Pushpagiri Institute of Medical Science & Research Centre etc.** The event, provided valuable insights into the latest advancements and practical applications of HPLC technology.



The workshop commenced with a welcome address by the organizer of the workshop **Dr. Soumya R.S** followed by inauguration by **Rev. Fr. Dr. Mathew Mazhavancheril** with inaugural address. **Dr. Ramesh Kumar K.B, Principal Scientist JNTBGRI, & General Secretary to Kerala Academy of Sciences** gave the key note address about the application and need of HPLC in current research scenario. The session concluded with vote of thanks by **Dr Aniket Naha**, Scientist & Student Coordinator, PRC. The workshop gave and set the stage for a day filled with in-depth learning and interactive sessions



Dr. Ramesh Kumar K.B delivered a compelling presentation on "Introduction to phytochemistry & chromatographic techniques and also on role of phytochemicals in phytomedicine" and talk was about the cutting-edge developments in HPLC methods and how these advancements are driving forward in research and quality control processes. The workshop featured a series of hands on technical sessions, **Vysakh Kumar SSS, Analytical Engineer** and **Sreekanth G, Application Engineer** designated to provide hands-on experience and theoretical knowledge about the HPLC instrument. Participants engaged in practical demonstrations on HPLC system setup, method development, and data analysis. The technical session was particularly well-received, offering participants for actionable insights into improving their own laboratory practices. Interactive session with Dr. Ramesh Kumar K.B with the participants were conducted and was one of the highlights of the workshop.

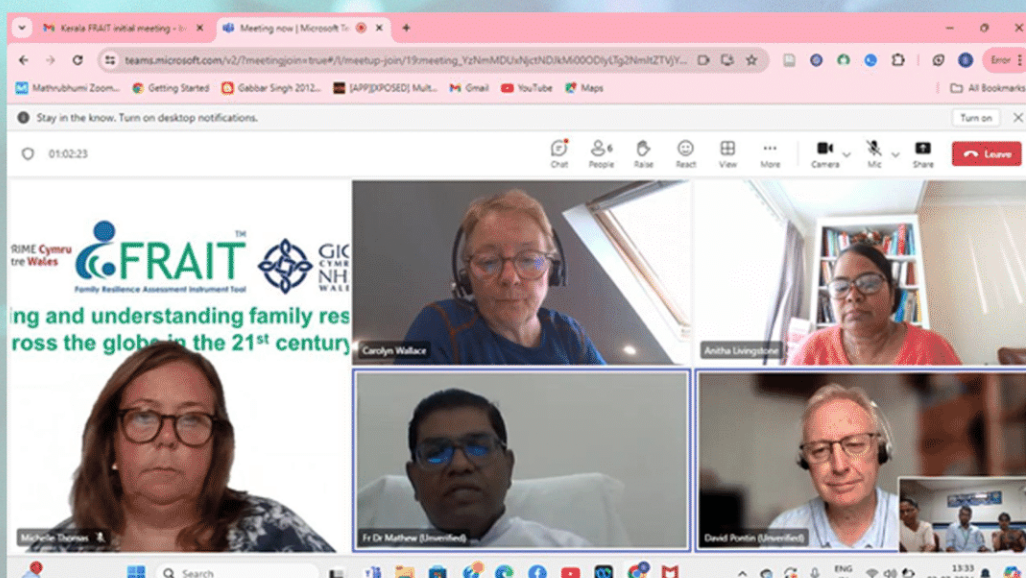
Faculty interaction with the chief guest **Dr. Ramesh Kumar K.B** was very fruitful. He gave a brief idea about the possibilities of future workshop and various schemes and potential collaboration with other institutes for getting funding for research

The feedback from attendees was overwhelmingly positive, with many appreciating the depth of knowledge shared and the opportunity to interact directly with HPLC experts. Being an organizer on behalf of Pushpagiri Research Centre I extend my heartfelt thanks to all the speakers, & attendees, who made this event a success.

FRAIT study : Indo UK Online Meeting Minutes - 02 July 2024

An Indo – UK online meeting was conducted to discuss the possibilities of research related to Family Resilience. Dr. Betsy A Jose was the coordinator for the meeting . The meeting began with introductions from all attendees & Meeting started at 12.30 pm IST.

The meeting was conducted in collaboration with South Wales University & Pushpagiri research centre



The attendees were

PRC

Rev . Fr. Mathew Mazhavancheril ,Director, PRC
Dr. Rosin George Varghese, CEU Secretary, PRC
Dr. Aniket Naha, Scientist, PRC
Dr. Betsy A Jose, CEU member, PRC
Sr. Mary Jyothi, Vice Principal, Nursing College

South wales University

Michelle Thomas
David Pontin
Anitha Livingstone
Carolyn Wallace

They discussed regarding the assessment methods used in Kerala for family Resilience, concept of FRAIT in India, Benefits and challenges of working together.

Introduction to FRAIT Wales was given by Michelle Thomas, The whole idea of family resilience came from UK after the death of 3 kids from a family and from there how they have carried out this project in UK .

Anitha Livingstone explained the concept of FRAIT in India, the progress of the study in AIIMS Rishikesh & CMC Vellore. Benefits and challenges of working together were discussed with Director, Rev. Dr. Mathew Mazhavancheril

Dr. Rosin, Dr. Aniket & Sr. Mary Jyothi shared the concerns & possibilities of this research .Date of next meeting:Tentative date of 11 th July was proposed

Rev. Dr. Mathew Mazhavancheril & Carolyn Wallace concluded the meeting by discussing about how we could take it ahead and regarding signing MOU.

Pushpagiri Research Centre Explores New Horizons with UK Collaboration

July 4th, 2024 – In a significant stride towards global collaboration and research excellence, a team from Pushpagiri Research Centre (PRC), led by Rev. Dr. Mathew Mazhavancheril, Head and Director of the Research Centre, met with members of the British High Commission at Mar Baselios Engineering College, Trivandrum. The British delegation included Mr. Joshwa and Ms. Christy, key figures in fostering international academic and research partnerships.



Accompanying Rev. Dr. Mazhavancheril were two eminent scientists from PRC, Dr. Nebu George Thomas and Dr. Yogesh Bharat Dalvi. During the meeting, Dr. Nebu and Dr. Yogesh presented their ongoing research projects, highlighting the translational potential of their work and its implications for future advancements in various scientific fields



Research Highlights

1. Innovative Drug Formulation Design:

Dr. Nebu George Thomas showcased cutting-edge research in drug formulation design, emphasizing the latest methodologies and technologies employed to enhance drug delivery systems. The focus on precision and efficacy in drug development aims to revolutionize treatment protocols and improve patient outcomes.

2. Advancements in Soft Tissue Regeneration:

Dr. Yogesh Bharat Dalvi presented his pioneering work on biomimetic scaffolds for soft tissue regeneration. This research has the potential to significantly impact the field of regenerative medicine, offering new solutions for repairing and regenerating damaged tissues with improved functionality and integration.

3. Hard Tissue Biology and Guided Bone Regeneration:

Dr. Yogesh and Dr. Nebu also discussed advancements in hard tissue biology, particularly in the context of guided bone regeneration. This research area holds promise for enhancing bone healing and regeneration processes, which is crucial for patients undergoing orthopedic and dental surgeries.



Future Collaborations

The meeting with the British High Commission members marks a promising step towards establishing collaborative ties with various UK-based research institutes and universities. The discussions focused on exploring potential partnerships that could facilitate knowledge exchange, joint research initiatives, and access to advanced research facilities.

Research Potential at Pushpagiri Research Centre

PRC is poised to become a hub of innovation and scientific excellence. The centre's commitment to advancing medical and scientific research is evident in its ongoing projects and future aspirations. Collaborating with UK institutions will not only elevate PRC's research capabilities but also contribute to global scientific advancements.



Rev. Dr. Mathew Mazhavancheril expressed his enthusiasm for the potential collaborations, stating, "This meeting is a significant milestone for Pushpagiri Research Centre. The opportunity to work with esteemed UK-based institutions aligns with our vision of pioneering research and making a global impact. We are excited about the possibilities that lie ahead."

Dr. Nebu and Dr. Yogesh's presentations underscored the translational potential of their research, which could lead to groundbreaking developments in drug formulation, tissue regeneration, and bone biology. The synergy between PRC and UK research entities promises to foster an environment of innovation, ultimately benefiting patients and advancing scientific knowledge.

Conclusion

The meeting at Mar Baselios Engineering College is a testament to PRC's dedication to excellence and its proactive approach in seeking international collaborations. As PRC continues to push the boundaries of scientific research, the potential partnership with UK institutions heralds a new era of innovation and discovery.



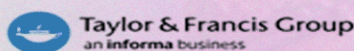
Enhanced wound healing by nanoengineered hydrogel patch loaded with connective tissue growth factor

Syed Raza ur Rehman ^{a b c}, Asad Ullah ^{a b}, Robin Augustine ^{a b}, Yogesh B. Dalvi ^d, Alap Ali Zahid ^{a b}, Nureddin Ashammakhi ^{e f}, Akhilesh K Gaharwar ^c, Khalid Al-Saad ^g, Rashad Alfkey ^h, Anwarul Hasan ^{a b}

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[What do these dates mean?](#)



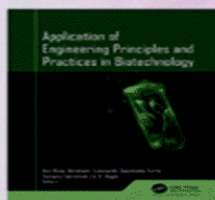
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Chapter

Role of Biodegradable Polymeric Nanohydrogel in Bone Regeneration: An Engineering Conception

By Ruby Varghese, Namitha Binu, Yogesh B. Dalvi

Book [Application of Engineering Principles and Practices In Biotechnology](#)

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