

RESEARCH CENTRE NEWS

MoU Signed Between Pushpagiri Research Centre, PIMS & RC, Tiruvalla, Kerala, India, and Fergusson College (Autonomous), Pune

21 June 2024 Tiruvalla, Kerala, India:

We are thrilled to announce the signing of a Memorandum of Agreement (MoA) between Pushpagiri Research Centre, PIMS & RC, Tiruvalla, Kerala, India, and Fergusson College (Autonomous), Pune. This partnership marks the beginning of a promising academic collaboration between our esteemed institutions.

The agreement signifies a mutual recognition of the outstanding research and educational contributions made by both institutions. Pushpagiri Research Centre, renowned for its commitment to cutting-edge research and innovative solutions, welcomes the opportunity to collaborate with Fergusson College, known for its excellence in education and dedication to pushing the boundaries of knowledge.

"At Pushpagiri Research Centre, we are deeply committed to advancing research that positively impacts society," said Rev. Dr. Mathew Mazhavancheril, Director of Pushpagiri Research Centre. "This partnership with Fergusson College aligns perfectly with our mission to foster interdisciplinary collaboration and drive meaningful innovation."

Fergusson College shares this enthusiasm for collaboration. "We take pride in our tradition of excellence and innovation," remarked Prof. Dr. Nitin Kulkarni, Principal of Fergusson College. "Partnering with Pushpagiri Research Centre allows us to expand our research horizons and explore new avenues for academic growth."

The collaboration between Pushpagiri Research Centre and Fergusson College will encompass various initiatives, including joint research projects, academic programs, and exchanges of students and faculty. This strategic alliance aims to leverage the strengths and expertise of both institutions to tackle complex challenges and advance knowledge across disciplines.

"We look forward to leveraging our combined resources and expertise to make significant strides in research and education," added Dr. Yogesh Bharat Dalvi, Scientist from Pushpagiri Research Centre. "Together, we can achieve far more than we could alone, reinforcing our commitment to impactful and sustainable collaborations."

Pushpagiri Research Centre and Fergusson College are excited about the prospects of this partnership and remain dedicated to fostering a robust academic environment that promotes research excellence and societal impact. As they embark on this collaborative journey, both institutions are poised to make significant contributions to the advancement of knowledge and innovation.



Hands-on Training on Mendeley Reference Management System

Date : 8th June 2024
Venue : PRC Conference Hall
Organized By : Medical Biotechnology & Computational Drug Designing Laboratory,
Pushpagiri Research Centre, Tiruvalla, Kerala
Resource Person : Dr. Aniket Naha

MEETING PROCEEDINGS

The hands-on training on the Mendeley Reference Management System was successfully conducted on 8th June 2024 at the PRC Conference Hall, organized by the Medical Biotechnology & Computational Drug Designing Laboratory, Pushpagiri Research Centre, Tiruvalla, Kerala. Dr. Aniket Naha served as the resource person for this event.

Dr. Yogesh Bharat Dalvi commenced the session with a welcome speech, greeting the attendees and emphasizing the significance of effective reference management in academic research. He outlined the agenda for the day and the primary objectives of the training. The training received over 35 registrations from Masters students engaged in projects at PRC, with active participation from postgraduate students of the Department of Community Medicine. Faculty members from various departments, including the Pushpagiri College of Dental Sciences, Department of Community Medicine, Department of Pathology, and Department of Radiology, were also present and actively participated in the session.

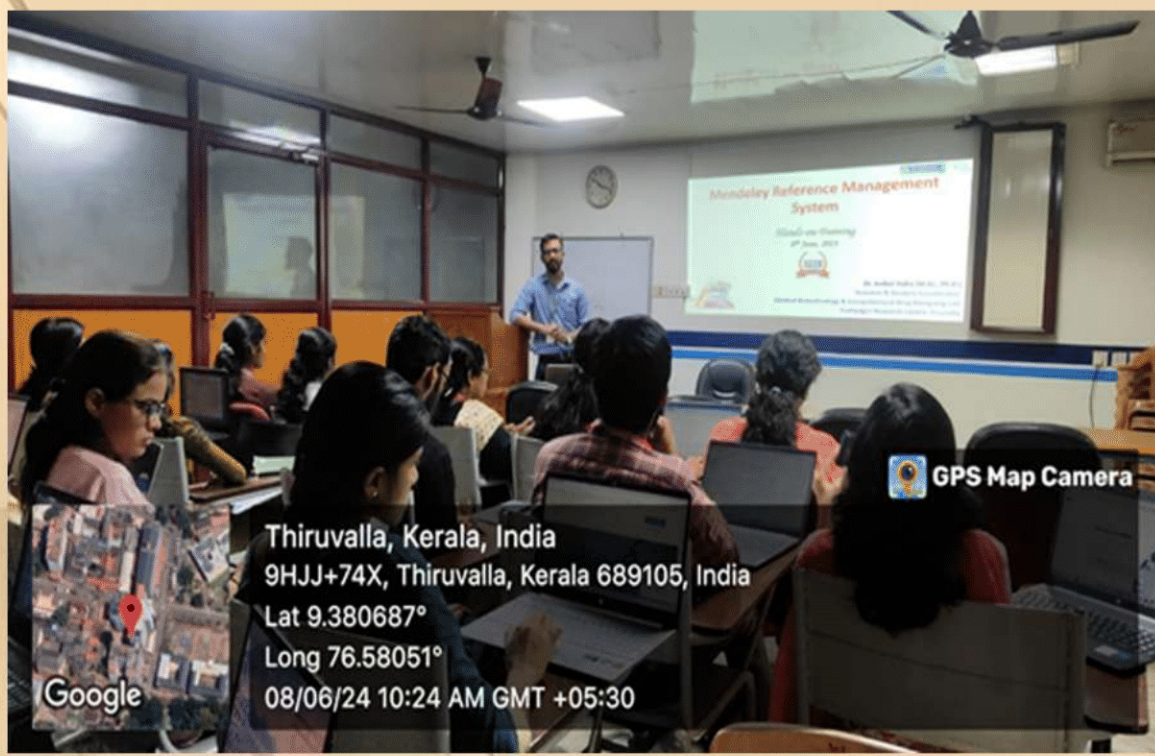
Dr. Aniket Naha introduced the Mendeley Reference Management System, explaining its features and benefits for managing references and enhancing research collaboration. Participants were guided through the installation and setup process of Mendeley, followed by a comprehensive demonstration of essential functionalities such as importing references, organizing libraries, and generating citations. The collaborative features of Mendeley, including reference sharing and group work capabilities, were also highlighted.

Participants then engaged in hands-on practice, importing references from various sources, creating bibliographies, and using the Mendeley Word Plugin for citation management. The session included troubleshooting common issues and addressing participant queries. During the feedback session, Dr. Harishankar A from the Department of Community Medicine and Ms. Aleena Mary Jijo, a project student at PRC, shared their insights. Dr. Harishankar A discussed the practical benefits of Mendeley in simplifying reference management, while Ms. Aleena Mary Jijo provided feedback from a student's perspective, appreciating the tool's user-friendly interface and efficiency in managing research references. Both emphasized the value of integrating Mendeley into their academic and research activities.

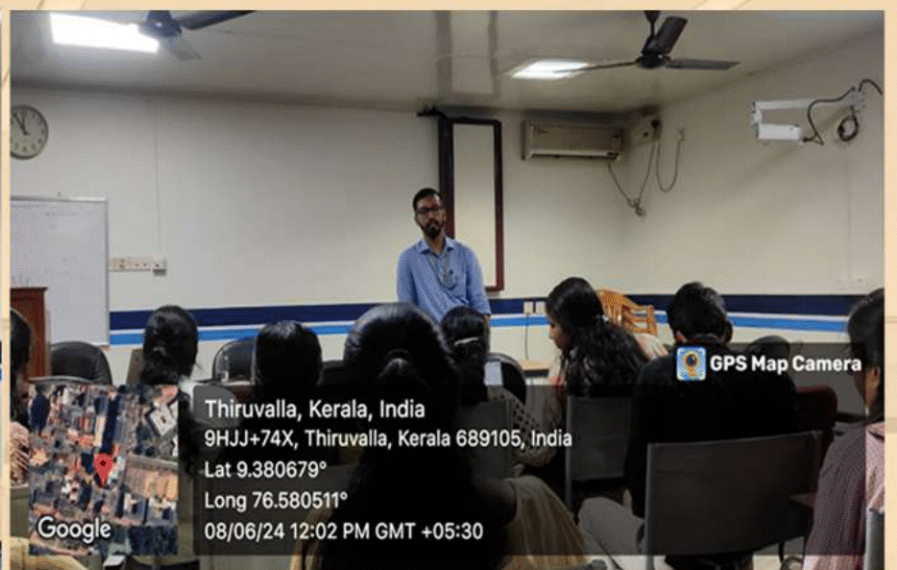
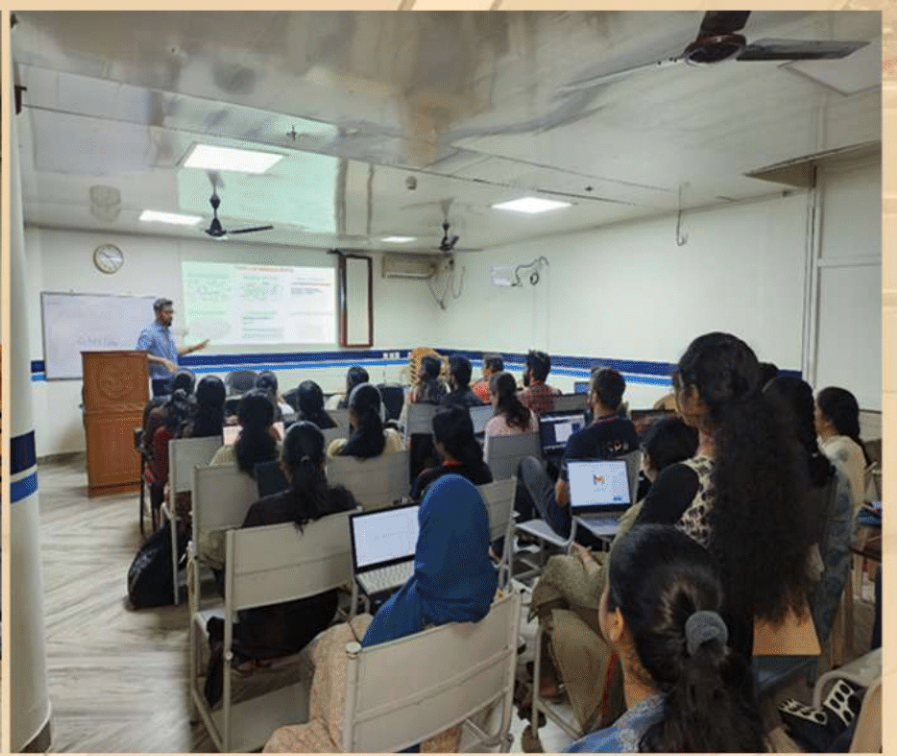
An open floor discussion followed, allowing participants to ask questions and share their experiences. Common queries included advanced features of Mendeley, tips for efficient reference management, and integration with other research tools.

Dr. Yogesh concluded the session with closing remarks, thanking Dr. Aniket Naha, the participants, and the organizing committee. He encouraged participants to apply the knowledge gained to their research projects and to continue exploring Mendeley's advanced features. Certificates of participation were distributed to all attendees. A post-training evaluation was conducted through a feedback form, revealing high satisfaction among participants regarding the content and delivery of the session. Suggestions for future training sessions included advanced workshops on reference management tools and integration with other software.

Overall, the event saw significant engagement from over 35 Masters students, postgraduate students from the Department of Community Medicine, and faculty members from various departments. The event was organized by the Pushpagiri Research Centre in collaboration with the Department of Community Medicine and other relevant departments. The next steps include follow-up with participants to address any additional queries, planning advanced training sessions based on participant feedback, and encouraging continuous usage and mastery of Mendeley for academic and research purposes.



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CONGRATULATIONS TO DR. SHEENA S. RAJ AND THE ENTIRE TEAM AT PUSHPAGIRI COLLEGE OF DENTAL SCIENCES AND PUSHPAGIRI RESEARCH CENTRE!

We are thrilled to announce that the project titled "Anti Microbial Effect of Catechin Doped Bioactive Glass Nanoparticles" has been awarded a patent (Patent Application No: 202441045392)! This groundbreaking work is a result of the Young Innovators Programme (YIP) of the Kerala State Government.

This remarkable achievement is credited to Dr. Sheena S. Raj from the Department of Conservative Dentistry, and her dedicated mentors, Dr. Nebu George Thomas, Dr. A. Devadathan, and Dr. Emil George. The thesis was meticulously carried out at the Tissue Engineering Lab of Pushpagiri Research Centre (PRC), showcasing the exceptional capabilities of our institution.

Pushpagiri Research Centre (PRC) continues to be a beacon of innovation and excellence, offering state-of-the-art facilities and an inspiring environment for enthusiastic scientists and inventors. PRC is committed to nurturing young talents and empowering them to make significant contributions to the field of science and technology.

We are immensely proud of Dr. Sheena S. Raj and the entire team for their dedication and hard work. This patent is not just a personal achievement but also a testament to the collaborative spirit and innovative potential fostered at PRC.

Let's celebrate this fantastic milestone and look forward to many more groundbreaking innovations from Pushpagiri Research Centre!

PUBLICATION

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COMMUNICATIONS

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In Press, Journal Pre-proof [What's this?](#)

Tailoring biodegradable electrospun membrane for the potential treatment of periodontics: *in vitro* and *in vivo* evaluations

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[What do these dates mean?](#)





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ORIGINAL ARTICLE



Fish scale-derived hydroxyapatite for alveolar ridge preservation

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Abstract

BOOK CHAPTERS IN INTECH OPEN

Chapter

Toxicity of Natural Hydroxyapatite

Saumya John, Rakhi Manoharan, Kavya Suresh, Lekshmi Mini, Nibu Varghese, Sajith Vellappally and Nebu George Thomas

Abstract

Hydroxyapatite (HA) has been extensively researched in bone regeneration procedures for its close similarity with natural bone in composition and also due to its osteoconductive and bone healing properties. Natural hydroxyapatite (NHA) is dissimilar to its synthetic counterpart. It has a slight difference in the calcium phosphate ratio and contains carbonate groups and some trace elements, which makes it a more viable material as a substitute for bone. Biowaste is a huge environmental concern. NHA is generated from biowaste of mostly poultry and marine origin. Hence, its proven biocompatibility would advocate the translation of this knowledge to clinical practice for bone regenerative procedures. *In vitro* biocompatibility of NHA from various sources has been reported. Also, *in vivo* studies, including implantation studies, have been carried out to certify the biological safety of NHA. Various authors

Chapter

Fabrication Techniques for Scaffolds Applied in Regenerative Medicine

Mekha Grace Varghese, Annie Thomas, Rupesh S, Sameer KM, Derick Joseph, Aby Mathew T and Nebu George Thomas

Abstract

Tissue engineering strategies in regenerative medicine combine cells, scaffolds, and growth factors to regenerate and reconstruct pathologically damaged tissues such as periodontium, bone, nerves, cartilage skin, heart valves, and various other organs. Scaffolds have a major role as they provide a three-dimensional environment for tissue regeneration. They act as an extracellular matrix that favors the ingrowth of new cells thereby assisting the regeneration of target tissues. Various properties of scaffolds like scaffold architecture, surface topography, biodegradability, mechanical properties, and manufacturing process are important to achieve optimal results in tissue engineering. Scaffold fabrication can be achieved by conventional as well as non-conventional