

RESEARCH CENTRE NEWS

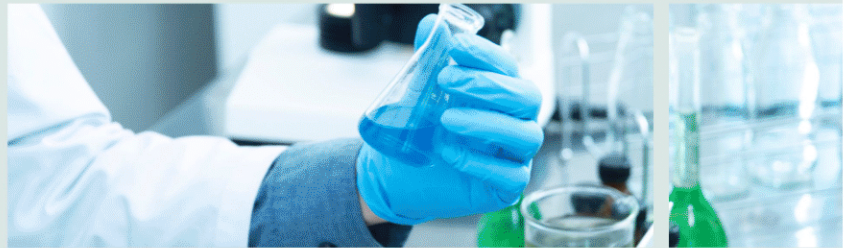
Dr Nebu George Thomas presented his work in the 2nd International Conference on Advanced Nanostructures and received several accolades in Catholicate College, Pathanamthitta

A promotional poster for the 2nd International Conference on Advanced Nanostructures (ICAN 2024). The poster features the conference title, dates (22nd & 23rd January 2024), location (Catholicate College, Pathanamthitta, Kerala - 689645), and a list of speakers' portraits. It also includes a registration link: www.ican2024.com and contact information for Dr. George Thomas.

Pathanamthitta, Kerala, India
7Q7P+J9C, Pathanamthitta, Kerala 689645, India
Lat: 9.264021°
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23/01/24 08:19 PM GMT +05:30



Dr Aniket Naha, Scientist in Pushpagiri Research Centre gave research orientation on the topics, Research facilities & fraternities of Pushpagiri Research Centre and Introduction to Research: Types and Classifications in the 13th I-KAP Session for First Year MDS and Interns at Pushpagiri College of Dental Sciences.



Ms. Treesa Sani, Research trainee student, presented her work as oral presentation at National Seminar on “NanoGenPro Triad: Exploring the Future Science” held at SB College Changanassery on 10th January 2024, in the topic entitled ‘Evaluation of antioxidant and photocatalytic activity of green synthesized calcium carbonate nanoparticles using Benincasa hispida extract’ under the guidance of Dr Soumya R.S, Scientist, Pushpagiri Research Centre. The work mainly focused on the use of calcium carbonate nanoparticles in anti-cancer studies.



Ms. Elizabeth Annie George, Research Trainee from Dr. Aniket Naha’s lab, participated and delivered an Oral Presentation on the topic "Optimizing Therapeutic Strategies: Enhanced Efficacy with a Novel SAAP Mutant Antimicrobial Peptide Against Clinical Strains of XDR Acinetobacter baumannii." in the same National Seminar "NanoGenPro Triad: Exploring Future Science" organized by St. Berchmans College, Changanassery on 10th January, 2024

CONGRATULATIONS

Many many congratulations to Dr Rojin Abraham, Dr Nebu George Thomas and Dr Anil Sukumaran for their recent book chapter in Apple Academic Press

◀ side 2 ▶

Micro-and Nanoscale Technologies in Drug Delivery A Contemporary Chemical Approach

- 11. Green Synthesis of Nanoparticles in Biomedicine
Shilpa Joy, Mridula Sreedharan Nikhil, Rojin Abraham, Sherin Sara George, Nebu George Thomas, and Anil Sukumaran
- 12. Application of Artificial Intelligence (AI) in Biomedical Engineering Education
Shrikaant Kulkarni
- 13. Diffusion in Aqueous Electrolyte Solutions in Clinical and Pharmaceutical Research: Concepts, Models, and Its Impact in Scientific Community
Filipa R. L. Fernandes and Ana C. F. Ribeiro

5 color 17 b/w illustrations.
Approx. 288 pages with index.
ISBN hard: 978-1-77491-838-8.
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November 2024

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ABOUT THE EDITORS

Ana Cristina Faria Ribeiro, PhD, is a researcher in the Department of Chemistry at the University of Coimbra, Portugal. Her area of scientific activity is physical chemistry and electrochemistry. Her main areas of research interest are transport properties of ionic and non-ionic components in aqueous solutions. Dr. Ribeiro has supervised master degree theses as well as some PhD theses and has been a theses jury member. She has been a referee for various journals as well as an expert evaluator of some of the research programs funded by the Romanian government through the National Council for Scientific Research. She has been a member of the organizing committee of scientific conferences, and she is an editorial member of several journals. She is a member of the Research Chemistry Centre, Coimbra, Portugal.

Ann Rose Abraham, PhD, is an Assistant Professor at the Department of Physics, Sacred Heart College (Autonomous), Thevara, Kochi, Kerala, India. She has expertise in the field of condensed matter physics, nanomagnetism, multiferroics and polymeric nanocomposites, etc. She has research experience at various reputed national institutes, including Bose Institute, Kolkata, India; SAHA Institute of Nuclear Physics, Kolkata, India; and UGC-DAE CSR Centre, Kolkata, India; and she has collaborated with various international laboratories. She is a recipient of a young researcher award in physics and best paper awards (2020, 2021). She served as Assistant Professor and Examiner at the Department of Basic Sciences, Amal Jyothi College of Engineering, under APJ Abdul Kalam Technological University, Kerala, India. Dr. Abraham is a frequent speaker at national and international conferences. She has a good number of publications to her credit in many peer-reviewed high-impact international journals.

A. K. Haghi, PhD, is a retired professor with over 250 academic research-oriented books as well as over 1000 research papers published in various journals and conference proceedings with over 3350 citations and h-index of 30, according to the Google Scholar database. He is currently a senior material engineering consultant in the UK. Professor Haghi has received several grants, consulted for several major corporations, and is a frequent speaker to national and international audiences. He is Founder and former Editor-in-Chief of the *International Journal of Chemoinformatics and Chemical Engineering* and *Polymers Research Journal*. Professor Haghi has acted as an editorial board member of many international journals. He has served as a member of the Canadian Research and Development Center of Sciences & Cultures and the Research Chemistry Centre, Coimbra, Portugal. He has supervised several PhD and MSc theses at the University of Guilan (UG) and co-supervised international doctoral projects. Professor Haghi holds a BSc in urban and environmental engineering from the University of North Carolina (USA) and holds two MSc, one in mechanical engineering from North Carolina State University (USA) and another one in applied mechanics, acoustics, and materials from the Université de Technologie de Compiègne (France). He was awarded a PhD in engineering sciences at Université de Franche-Comte (France).

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ഗവേഷണ രംഗത്ത് പുതിയ സാങ്കേതികവിദ്യ വികസിപ്പിച്ച് പുഷ്പഗിരി

തിരുവല്ല: പുഷ്പഗിരി റിസർച്ച് സെന്ററിലെ ടിഷ്യൂ എൻജിനീയറിംഗ് ആൻഡ് റിജനറേറ്റീവ് മെഡിസിൻ വിഭാഗം സെന്റർ ഇൻ്റെറ്റിറ്റഡ് ഓഫ് ഫിഷറീസ് ടെക്നോളജിയും (സിഫ്റ്റ്) സംയുക്തമായി ചേർന്ന് ബയോസെറാമിക് ഹൈഡ്രോക്സി അപ്പറ്റൈറ്റ് അധിഷ്ഠിതമായ ബോൺ ഗ്രാഫ്റ്റ് മത്സ്യങ്ങളിൽനിന്നു വികസിപ്പിച്ചു. ഇന്ത്യൻ കൗൺസിൽ ഓഫ് അഗ്രികൾച്ചറൽ റിസർച്ച് (ഐസിഎആർ) ഈ നൂതന സാങ്കേതികവിദ്യക്ക് അംഗീകാരം നൽകി. സിഫ്റ്റിലെ മുതിർന്ന ശാസ്ത്രജ്ഞയായ ഡോ. പി. കെ. ബിൻസിയും പുഷ്പഗിരി ഡെന്റൽ കോളജിലെ പ്രഫസറും

റും ടിഷ്യൂ എൻജിനീയറിംഗ് ലാബ് മേധാവിയുമായ ഡോ. നെബു ജോർജ്ജ് തോമസും ഗവേഷണത്തിനു നേതൃത്വം നൽകി. പുഷ്പഗിരി റിസർച്ച് സെന്ററിലെ ശാസ്ത്രജ്ഞനായ ഡോ. യോഗേഷ് ഡാൽവി, സിഫ്റ്റിലെ മുതിർന്ന ശാസ്ത്രജ്ഞയായ ഡോ. എ. സൈനുദ്ദീൻ, ഡോ. പി. മുഹമ്മദ് അഷ്റഫ് എന്നിവർ ഗവേഷണത്തിൽ പങ്കാളികളായി. മത്സ്യശകലങ്ങളിൽ നിന്നും എല്ലുകളിൽനിന്നും അനായാസം ഉൽപ്പാദിപ്പിക്കാവുന്ന ഹൈഡ്രോക്സി അപ്പറ്റൈറ്റ് കമ്പനികൾ ഇതിന്റെ ഉൽപ്പാദനവുമായി മുന്നോട്ടു വരണമെന്നും സിഫ്റ്റ് ഡയറക്ടർ ഡോ. ജോർജ്

ജ് നൈനാൻ അഭിപ്രായപ്പെട്ടു. ഇതിന്റെ സാങ്കേതികവിദ്യ സിഫ്റ്റ് അഗ്രി ബിസിനസ് ഇൻ്റെ ക്ലബ്ബിൽ സെന്ററിൽനിന്നും ലഭ്യമാണെന്നും അദ്ദേഹം കൂട്ടിച്ചേർത്തു. ഈ നൂതന സാങ്കേതികവിദ്യ ദന്തചികിത്സയ്ക്ക് ഏറെ സഹായകരമാകുമെന്നും ഇതുവഴി ദന്തചികിത്സാചെലവ് വൻ തോതിൽ കുറയ്ക്കാനാകുമെന്നും പുഷ്പഗിരി റിസർച്ച് ഡയറക്ടർ റവ.ഡോ. മാത്യു മഴവഞ്ചരിൽ പറഞ്ഞു. ഈ സാങ്കേതികവിദ്യ ഡെന്റൽ ഇംപ്ലാന്റോളളിയിൽ ഒരു വഴിത്തിരിവായിരിക്കുമെന്ന് പുഷ്പഗിരി ഡെന്റൽ കോളജ് പ്രിൻസിപ്പൽ ഡോ. ടി. എബി മാത്യു പറഞ്ഞു.

ACHIEVEMENTS



Dr Aniket Naha, Scientist, Medical Biotechnology and Computational Drug Designing Laboratory, Pushpagiri Research Centre, received the Best Oral Presentation award under Faculty category for showcasing his research work entitled 'Identification of a Novel Ursodeoxycholic Acid Derivative Targeting Parkin for Parkinson's Disease through Network Metrics, Structural Dynamics, and Density Functional Theory Calculations,' in the National Seminar on "NanoGenPro Triad: Exploring Future Science" organized by St. Berchmans College, Changanassery on 10th January, 2024.

PUBLICATIONS

OPEN ACCESS PEER-REVIEWED CHAPTER

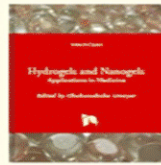
Physiochemical and Biomedical Properties of Hydrogels: From Fundamentals to Applications

WRITTEN BY

Ruby Varghese, Yogesh Bharat Dalvi, P. Lochana, S. Achintha, Bhagyashri Omprakash Somani, Preetha Karnaver, Nebu George Thomas, S. Rupesh, Nibu Varghese and Jayachandran V.P.

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Solbi K. Chacko, Raneesh Balakrishnan*, Nandakumar Kalarikkal, and Nebu George Thomas

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Biotechnology: A Path Forward in Assistance of the Sustainable Development Goals for the Management of Natural Resource



Chapter

Microalgal and Fungal Biotechnology: A Path Forward in Assistance of the Sustainable Development Goals for the Management of Natural Resources

By Ruby Varghese, P. Lochana, Namitha Vijay, Yogesh Bharat Dalvi

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