Dr. Sohier Jérôme, HDR

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Fields of interest

For the past 20 years, Doctor Sohier's research has focused on development of synthetic biomaterials for tissue engineering and regenerative medicine. These interests and the study of cells/materials interactions have led him to design various strategies to create implantable materials that can replace damaged or missing tissues and are supportive for their repair and regeneration. Examples are growth factor-releasing scaffolds to enhance articular cartilage restoration, jet-spraying technology to produce highly porous fibrillar matrices of interest for bone or heart valves regeneration, or injectable and porous hydrogels of versatile properties for musculoskeletal repair. His projects are fuelled by an interdisciplinary and translational vision towards the patients complemented by national and international collaborations.

Education

2000	Hons BSc, Biomedical and Biodegradable Polymers Engineering, University of Montpellier, France
2002-2006	PhD, Biomedical engineering, IsoTis B.V. and the University of Twente, The Netherlands
2014	Habilitation thesis (HDR), University Lyon 1, France

Professional Appointments

2000-2002	Junior research scientist, Biodegradable Polymers, IsoTis B.V., The Netherlands
2006-2009	Post-doctorate, lab. for osteoarticular and dental tissue engineering - INSERM, Nantes, France
2009-2010	Researcher/R&D manager - Lab. of physiopathology of bone resorption/spin-off company, Nantes, France
2011-2012	Research Associate - Imperial College, National Heart and Lung Institute, Heart Science Centre, London, UK
2012 - pres.	CNRS researcher at Lab. for Tissue Biology and Therapeutic Engineering, 'Bioactive hydrogels and therapeutic biomaterials' group leader

Publications and communications

To date, 42 peer-reviewed articles published in leading international journals in the biomaterials, tissue engineering, controlled release fields. Holds an h-index of 21 (1071 citations, Web of Science, February 2023). Authored 8 book chapters, coedited a Tissue Engineering textbook and is an inventor in 4 active patents (two licensed to a start-up). Participated in more than 70 talks (9 invited) in national and international meetings.

PhD and Postdoctoral Supervision and Mentorship

7 supervised / co-supervised PhD, 25 Master students, 2 post-doc researchers and 2 engineers.

Responsibilities in Biomaterials research and memberships

2023- now Vice-director of the French-wide research group (GDR) 'Repair the human: materials and processes for medical applications'
2018-now Elected member of the French Society for Biomaterials council (BIOMAT)
2017-2022 WP coordinator ('cell/environment interface)' of the French-wide research group (GDR) 'Repair the human'
2015 - now Member of the European Society of Biomaterials

Organisation of scientific meetings and outreach activities

Since 2017, organizer of several National scientific meetings and workshops for the French Society for Biomaterials and the GDR 'Repair the human'.

Chair of various scientific sessions during ESB conferences

Chair of the poster evaluation committee at last ESB 2022.