



**Laboratoire de *Biologie Tissulaire*
et *Ingénierie thérapeutique***

Unité Mixte de Recherche 5305 - CNRS / Université Lyon 1



Dominique Sigaudou-Roussel

Research scientist, PhD
Head of the research lab LBTi UMR5305 CNRS/UCBL1
Lyon, France
dominique.sigaudou-roussel@univ-lyon1.fr

EPUAP Board

To whom it may concern,

I hereby apply to the position of co-chair of the scientific committee.

I'm a fundamental PhD research scientist with a main research focus in chronic wounds and involved in experimental but also pre-clinical studies. I'm working in a highly multidisciplinary environment, gathering chemists, biochemists, cell and molecular biologists, bio-informaticians, physiologists, physicians but also medical staff with physicist, medical doctors, pharmacist, nurses etc...

Thanks to my years of research work, I have solid expertise in bench and animal experimentation to deepen the understanding of the development of pressure injuries as well as wound healing defects.

From 2015 to 2021 I was an active EPUAP trustee member. During this period, I was a member of the international board to update the pressure ulcers clinical guidelines on the prevention and treatment of pressure ulcers published in 2019. This experience was a challenge for me as a fundamental scientist but allowed me to improve my knowledge in clinical studies and evidence-based medicine requirement. But above all, I really enjoyed working as a team to accomplish this massive work which benefited from the diversity of our skills. At that time, I also contributed to the research committee and became co-president alongside Nils Lahmann. I also took advantage of the opportunity as a trustee to propose Lyon as "the place to be" in 2019 to organize the congress EPUAP-French P2T.

From the beginning of my career I was always interested in confronting experimental scientific results to clinical results and I still continue. Currently, I am the scientific coordinator of a clinical evaluation including more than 300 diabetic patients with and without diabetic foot to understand how to predict the patient that could develop a diabetic foot from a neuro-vascular point of view.

Since 2013 I'm also involved in a university program in Lyon on "Prevention and management of pressure ulcers" addressed to medical staff. I'm participating to clinical seminars on pressure ulcers focusing on research advanced on the topic.

I think that too often basic research and clinical research do not interact as much as they should. Indeed, fundamental research and clinical research should be present during master classes and conferences to compare their findings and better interact to lead to a common objective...stop pressure ulcers.

Being co-chair of the scientific committee could allow me to increase the presence of experimental research to re-balance with clinical research and drive a major benefit to strengthen a fundamental/clinical network.

Sincerely,

Dominique Sigaudou-Roussel
11/28/2023

Dominique Sigaud-Roussel is 54 years old. She received the Ph.D. in vascular physiology from Lyon University in 1998. As a postdoc she moved to the University of Leicester (UK), then to the University of Cambridge (UK) and later to the University of Angers (Fr). In 2005 she joined the CNRS and was appointed permanent research scientist (CR1). She is currently director of research (DR1) at CNRS, and she is heading the research laboratory UMR CNRS 5305 unit in Lyon (Fr) focusing on tissue biology and therapeutic engineering. Her research focuses on the mechanosensitivity and cutaneous vasomotion through in-vivo experimental studies during aging and diabetes to clarify the mechanisms involved in the neurovascular interaction and their roles in the functional response of the skin subjected to high pressure leading to chronic pressure ulcers. She was for 8 years (2008-2016) a member of the physiology committee of the CNRS for the evaluation of research laboratories and French scientists as well as for the recruitment of young scientists in the field of physiology. She was an active member of the European pressure Ulcer Advisory Panel (EPUAP) from 2015 to 2021 as co-chair of the research committee, as the chair for the 2019 EPUAP Congress in Lyon and as a member of the international board committee of updating the pressure ulcers clinical guidelines for prevention and treatment from 2016 to 2019. From 2019 to 2022 she was associate editor of the Journal of Tissue Viability. At present she is back to EPUAP as Trustee. She is currently President of the scientific committee of the French Society of Physiology. In her research career to date she published over 60 papers in international peer-reviewed journals (Diabetes, Nat Med, J Invest Dermatol, J Int Obesity) and she has been principal or co-investigator on a large number of public funded grants (including ANR) and a number of industrial collaborations including URGO Laboratories, Allergan, and BASF in research projects related to skin fragility, chronic wounds and wound healing. She has active collaborations established with the Universities of Southampton (UK), Rio de Janeiro (BR), Auckland (NZ) as well as collaborations throughout France.