

Speaker's Biosketch

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Georges Grau (The University of Sydney, Australia)

Professor Georges Grau, MD (University of Liège) and Privat-Dozent (University of Genève), is the Chair of Vascular Immunology at the University of Sydney since 2006. His research in immunopathological mechanisms of infectious diseases focuses on cytokines, the microvascular endothelium and extracellular vesicles.

Working experience: with his team at the Vascular Immunology Unit, he has:

- analysed the cellular and molecular mechanisms of the interactions between microvascular endothelial cells and cells of the immune system.
- contributed to the elucidation of cytokine interactions leading to tissue injury, using in vivo intervention studies in various models of pathology, with particular attention to TNF.
- developed a brain endothelium co-culture system, to study blood-brain barrier changes in cerebral malaria, sepsis, multiple sclerosis, viral encephalitis and cryptococcal meningoencephalitis.
- studied extracellular vesicles, particularly microvesicles and exosomes, released in these co-cultures and shown their role as crucial effectors of cytokine-mediated pathology.
- deciphered critical molecular mechanisms of microvesicle release in inflammatory conditions.
- shown that inhibition of microvesicle release can prevent pathology.

His 412 papers have been cited over 40,000 times and his h-index is 103.

From 2015 to 2021 he served as Discipline Leader (Pathology), Marie Bashir Institute, is a Member of Sydney Analytical Advisory Committee and Chair of the Vibrational Spectroscopy Committee, since 2020. In 2021 he was re-elected President of the Australian-New Zealand Microcirculation Society (ANZMS).