

The Biochemical Society

Professor Bostjan Kobe

School of Chemistry and Molecular Biosciences

The University of Queensland, Australia



Professor Kobe's research interests are in protein structure and function, with the emphasis on understanding the structural basis of intra- and intermolecular interactions formed by these macromolecules.

Research Highlights

- Regulation of signaling by cooperative assembly formation in mammalian innate immunity signalosomes by molecular mimics, *Semin Cell Dev Biol.* 2018
- Structural basis of TIR-domain-assembly formation in MAL- and MyD88-dependent TLR4 signaling, *Nat Struct Mol Biol.* 2017
- Multiple functional self-association interfaces in plant TIR domains, *PNAS*, 2017
- A bioinformatics tool for epitope-based vaccine design that accounts for human ethnic diversity: Application to emerging infectious diseases, *Vaccine*, 2015
- Structure and function of Toll/interleukin-1 receptor/resistance protein (TIR) domains, *Apoptosis*, 2014