

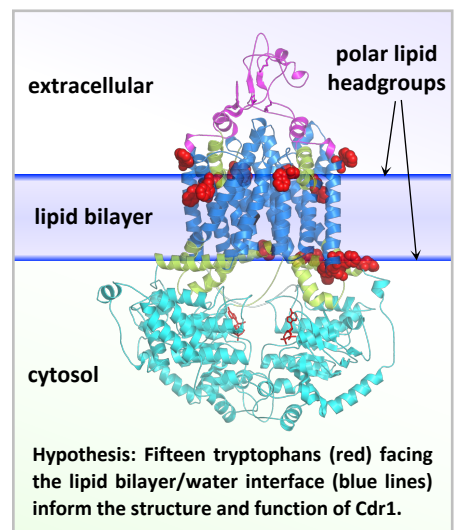
PhD project: Structure of ABC transporter Cdr1 embedded in native lipids

Supervisors: Dr Erwin Lamping and Prof Richard Cannon
Sir John Walsh Research Institute, University of Otago Faculty of Dentistry

We are looking for an excellent and highly motivated student to embark on a PhD project **supported by the Marsden Fund** (tax-free scholarship: NZ\$35,000 per annum + PhD fees, three years).

ATP-binding cassette (ABC) membrane proteins are an important family of transporters involved in many cellular processes. **ABC transporter Cdr1 is a multidrug efflux pump responsible for drug resistance in the human pathogenic yeast *Candida albicans*.** This project will investigate how lipids affect Cdr1 structure and function.

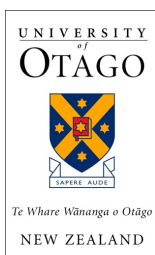
The student selected for this project will join a multidisciplinary international research team. The project will involve detergent-free purification and structural analysis of **Cdr1 SMALPs embedded in native lipids and cryo-electron microscopy** under the guidance of AProf Mihnea Bostina, University of Otago, and AProf Isabelle Rouiller, University of Melbourne, and **X-ray crystallography** at the University of Otago.



Start date: April-September 2023

For further information follow this [link](#)
or contact: Dr Erwin Lamping
erwin.lamping@otago.ac.nz

Send expressions of interest (CV and cover letter) to Dr Lamping by:
31 March 2023.



Dr Erwin Lamping
Prof Richard Cannon
AProf Mihnea Bostina

AProf Isabelle Rouiller