

TAILOR-MADE HEALTHCARE

New Zealand scientists use KAREN to revolutionise the diagnosis and treatment of disease.

NZ leads new approach to disease diagnosis

KAREN is enabling international collaboration on Auckland University's Physiome Project, where sophisticated mathematical models of all a human's organs are being created. This leads to a new patient-specific approach to the diagnosis and treatment of disease. Information from a patient can be run through the model, helping doctors to provide treatment customised to the individual patient.

KAREN delivers healthcare of the future

Headed by Rutherford Medal winner, Professor Peter Hunter, the Physiome Project makes use of advanced tools over KAREN to collaborate with partners at the Maurice Wilkins Centre and Institute of Mathematics in NZ, and with the University of Oxford, UCLA and MIT.

"By leading this ground-breaking biomedical research, NZ is best placed to reap the healthcare benefits, meaning more sophisticated health services and healthier communities - KAREN enables us to do this," said Professor Hunter.

"Better healthcare and healthier communities are possible with KAREN," Professor Peter Hunter, Director, Auckland Bioengineering Institute



Marking up the human body

Webinars and video conferencing using EVO over KAREN puts collaborators of supporting projects - the Cardiac Atlas project (mapping the heart) and CellML - in touch.

"For our CellML Workshop 2010 we set up a webinar via EVO, and this was a huge success. Speakers presented their work remotely, some of which we recorded so that they can be viewed for reference, or by people who could not attend," said Randall Britten, Bioengineering Software Development Group Leader.

Developed by the Auckland Bioengineering Institute and partners, the open standard-based CellML markup language makes the sharing of these models across the science community easy.

FIND OUT MORE ABOUT THE PHYSIOME PROJECT AT:
WWW.KAREN.NET.NZ/TAILOREDAHEALTHCARE

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