



13th International CellML Workshop
6 & 7 May 2019
Goldie Room, Waiheke Island, Auckland

Monday

Tuesday

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| 08:15 | Ferry to Waiheke | |
| 09:00 | Welcome & housekeeping | CellML 2.0 & libCellML |
| 09:30 | CellML | David Nickerson, Hugh Sorby, Alan Garny |
| | David Nickerson - welcome | |
| | | <i>Michael Clerx - A test suite for CellML implemntations and validators</i> |
| | Richard Christie - FieldML update | |
| 10:30 | Morning tea and posters | |
| 11:00 | Bond graphs | Reproducibility |
| | Edmund Crampin - energy-based modelling approaches in systems biology | David Nickerson - The Centre for Reproducible Biomedical Modeling |
| | Peter Cudmore - Managing Complexity with BondGraphTools | Anand Rampadarath - Model curation |
| | Peter Hunter - Bond Graphs and Port-Hamiltonians | Karin Lundengård - <i>Physiome</i> : encouraging reproducibility and reuse |
| | Jagir Hussan - A visual environment to construct and analyze bondgraphs and port Hamiltonians. | Oscar Camara - Learning from independent benchmark and reproducibility initiatives from the medical image processing and physiological modelling communities |
| 12:30 | Lunch and posters | |
| 13:30 | OpenCOR | Future directions |
| | Alan Garny - Current status and plans | Oscar Camara - CRT-EPiggy19 challenge: experimental data for benchmarking of state-of-the-art electrophysiological cardiac models |
| | Dave Brooks - OpenCOR+Python | Susan Tappan - morphometric neuron models |
| | Alys Clark - CellML modularity and parameter estimation in OpenCOR+Python: My experiences with large scale modeling of natural killer cell signalling pathways | Geoffery Hansfield - Agent Based Modeling Coupled with FEM to understand muscle degeneration in Cerebral Palsy |
| | Group discussion: domain specific interfaces for OpenCOR | Alys Clark - Agent-based modelling: How can we incorporate function up and down spatial scales appropriately? |
| 15:00 | Afternoon tea and posters | |
| 15:30 | Semantics and linking things on the web | Group Discussion |
| | Alan Wu & Jesse Khorasane - MAPcore web demonstrations | |
| | Tommy Yu - A decade of PMR, where to go from here | |
| | | Peter Hunter - Closing remarks |
| | 16:00 Wine tasting and networking | |
| 16:45 | Depart Goldie | |
| 17:30 | Ferry to Auckland | |
| | Self-funded dinner | |
| | | |
| | Zoom link for remote participation: | |
| | https://auckland.zoom.us/j/122292256 | <i>Remote presentaton</i> |