

Saint: Current and Future Directions
Morgan Taschuk and Allyson Lister
February 26, 2010

Current CellML Integration Status

- Accepts CellML files
- Annotates variable name/id
- No accepted standard way to add biological annotations yet (e.g. MIRIAM annotations)
 - Therefore the exported CellML file is identical to the starting file

Saint Usage Video

Near Future



CC BY 2.5: http://commons.wikimedia.org/wiki/Image:DeLorean_DMC-12_Head_with_doors_open.png



**Centre for Integrated Systems Biology of
Ageing and Nutrition**
<http://www.cisban.ac.uk>



Upcoming Improvements

- Rename entity or process
- Set a search term for an entity or process
 - Will improve searches when no other biological annotation is present
- Fuller descriptions of entities and processes
- Better visualisation of models
- Multiple file upload to support CellML 1.1
- As many other requirements listed in the requirements document as possible



In the next few months



CC BY 2.5: http://commons.wikimedia.org/wiki/Image:DeLorean_DMC-12_Head_with_doors_open.png



**Centre for Integrated Systems Biology of
Ageing and Nutrition**
<http://www.cisban.ac.uk>



In the next few months

- Improved “new reaction” functionality
 - Images of the immediate neighbourhood of interactions
 - Link to the CISBAN Interaction Database (CID)
- “Semantic” Saint
 - Incorporating Allyson's PhD work on semantic data integration / ontologies



Acknowledgements

- Programmers
 - Allyson Lister, Morgan Taschuk
- Bioinformatics Support Unit, Newcastle University
 - Dan Swan, Simon Cockell
- Catherine Lloyd and the CellML team
- Matthew Pocock, Neil Wipat, Tom Kirkwood and all at CISBAN



Further Information

- Try out Saint: <http://www.cisban.ac.uk/saint>
- User documentation (Saint Wiki):
<http://sourceforge.net/apps/mediawiki/saint-annotate/>
 - Known issues
 - Progress on requirements document
- Lister, A. L., Pocock, M., Taschuk, M. & Wipat, A.
Saint: a lightweight integration environment for model
annotation. *Bioinformatics* 25, 3026-3027 (2009).
<http://dx.doi.org/10.1093/bioinformatics/btp523>



Thank You



CC-SA-2.0: http://commons.wikimedia.org/wiki/Image:Thank_you_trashcan.jp



**Centre for Integrated Systems Biology of
Ageing and Nutrition**
<http://www.cisban.ac.uk>

