

SBML Support in TeraSim

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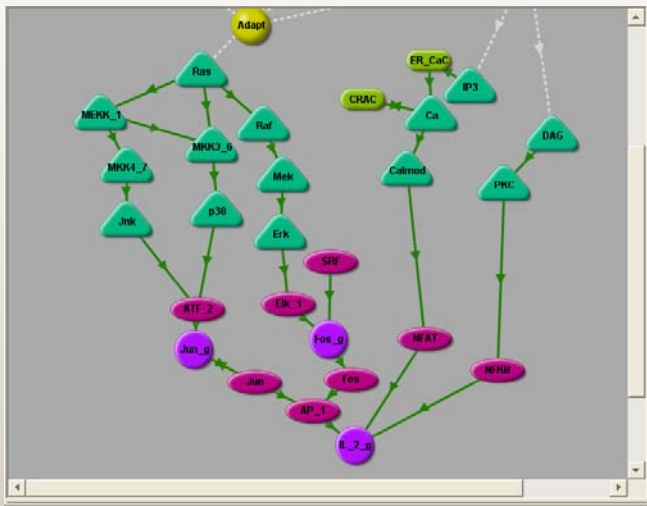
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Teranode Corp -- Background

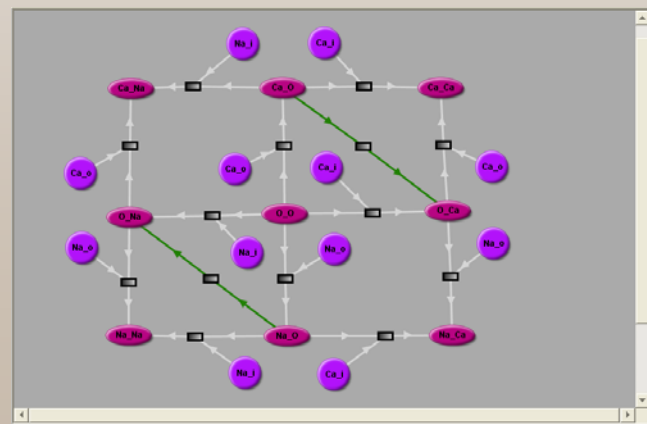
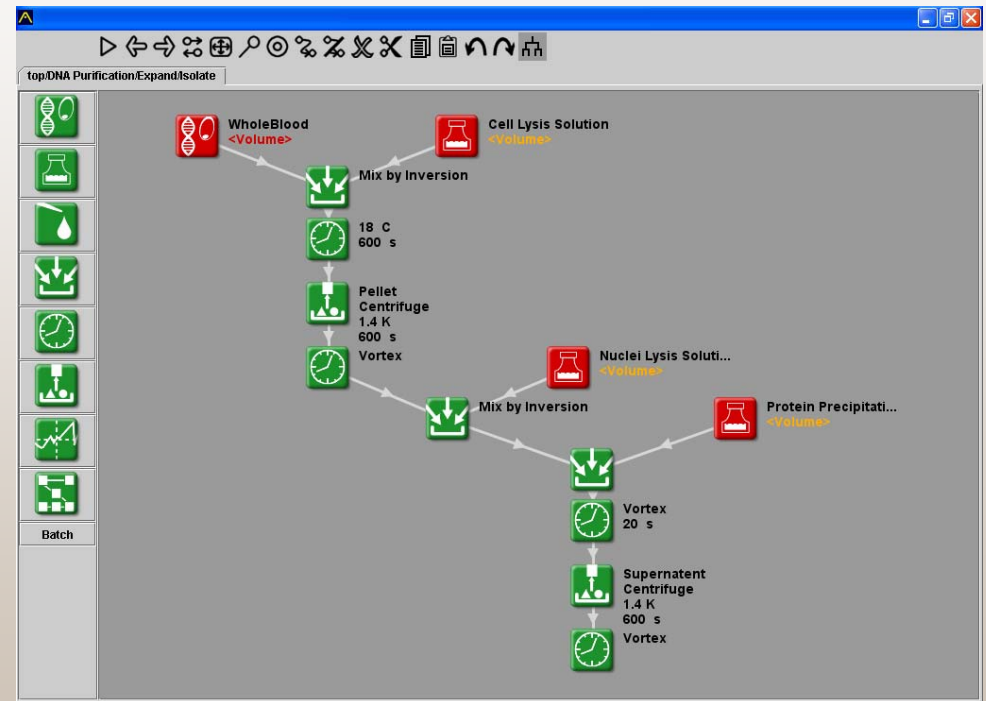
- Software tools for life sciences
 - TeraSim - Modeling and Simulation
 - TeraLab - Experiment Design, Execution and Documentation
- Multidisciplinary team
 - Commercial SW: Borland Paradox, Oracle SVP
 - Computer science: ubiquitous computing, EDA, HCI
 - Bioengineering: simulation of biological systems
 - Biology: large commercial biotech discovery research

Abstraction, Integration

Biological Models



Experiment Protocol Models



SBML Support

- Import models of SBML (L2V1 and L1V2)
- Export models in SBML (L2V1)
- Hierarchical models
 - Physical and logical containership
 - Copy-and-paste, reusable components
 - Drag-and-drop, easy manipulation of containership
- Support of unit conversion
- Database support (persistency and collaboration)
- Extensibility
 - Plugins
 - API

Limitations

- Do not support events
- Do not support user-defined functions
- Units must be explicitly assigned
- Bug when importing models of multi-level compartments

Software Status

- In Beta test now
- Commercial release in December
- Academic price: \$200-500
- Partnership
 - Plugins for new capabilities
 - Early access to API, influences on API design