

Export reproduzierbarer Simulationsexperimente in der Systembiologie

Projektstudium 2015

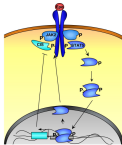
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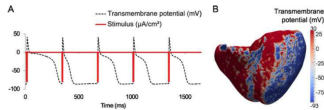
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Rostock, Januar 2015



State-of-the-art model
Olaf Wolkenhauer



Modeling the physiology of the heart in Chaste
Cooper *et al* 2014



Modeling the human brain
Human Brain Project

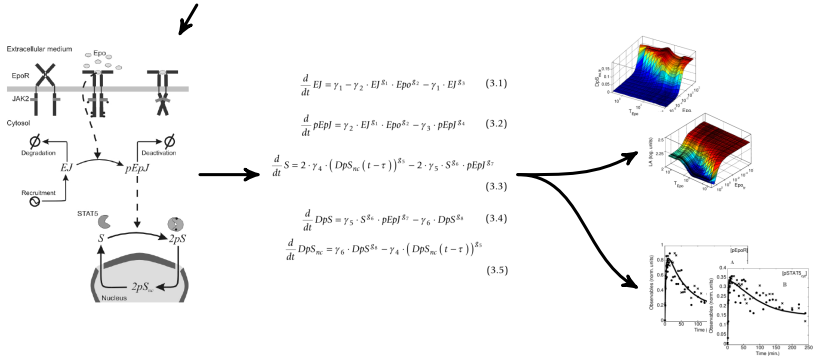
courtesy Dagmar Waltemath

Research article

Open Access

A systems biology approach to analyse amplification in the JAK2-STAT5 signalling pathway

Julio Vera¹, Julie Bachmann², Andrea C Pfeifer², Verena Becker², Jose A Hormiga³, Nestor V Torres Darias³, Jens Timmer⁴, Ursula Klingmüller² and Olaf Wolkenhauer^{*1}

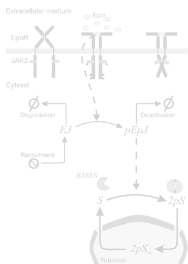


courtesy Dagmar Waltemath

Research article

A systems biology approach to analyse JAK2-STAT5 signalling pathway

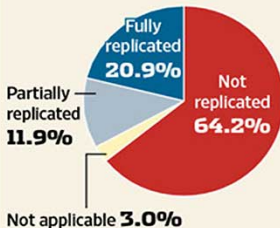
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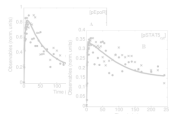
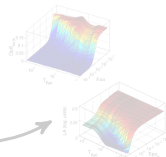
Open Access

No Cure

When Bayer tried to replicate
results of 67 studies published
in academic journals, nearly
two-thirds failed.

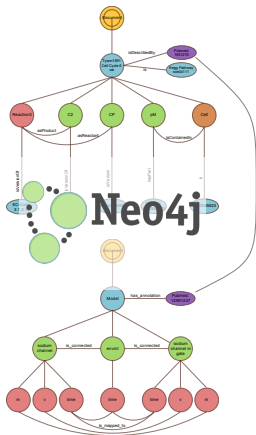


Source: Nature Reviews Drug Discovery

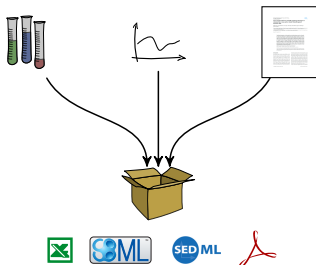
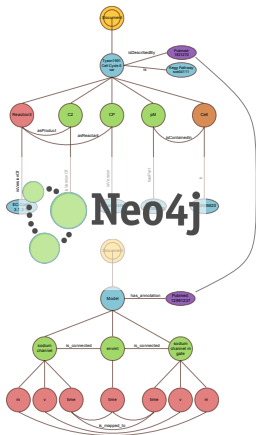


courtesy Dagmar Waltherath

MASYMOS



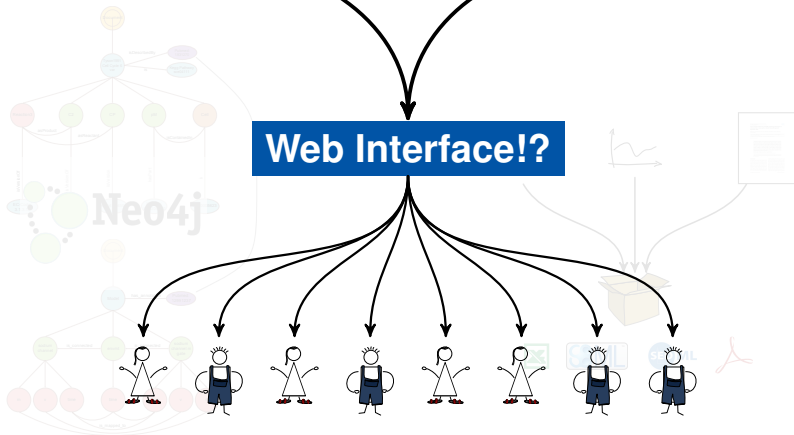
CAT



MASYMOS

CAT

Web Interface!?





- engagiert?
- experimentierfreudig?
- künstlerisch?
- Tech geek?
- Java on Linux?

Thank you for your attention!

SEMS group

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Martin Peters

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Olaf Wolkenhauer



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