

Please join The MathWorks for a complimentary seminar.

Using MATLAB for Biological Research at Mount Sinai School of Medicine

19 Mar 2009

1:00 p.m. - 4:00 p.m.

Mount Sinai School of Medicine, Annenberg Bldg., Room 20-01

Who Should Attend

- Faculty
- Students
- Researchers

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Agenda

Presenter: **Saket Kharsikar, M.S., Application Engineer**

1:00 p.m. -
4:00 p.m.

Introduction to Curve Fitting for Non-Programmers

Biological researchers often need to fit an equation or model to experimental data. This can be difficult since many curve fitting tools require the user to have advanced mathematical or programming experience. Also, it's common for researchers to perform repeat fittings with multiple data sets which can be time consuming. During this seminar, you will learn how to perform curve fitting with MATLAB in a manner suitable for those with little to no programming experience. You will also see how to automate your entire curve fitting workflow including:

- Import data
- Visualize the data
- Fit a built-in or customized equation to your data
- Create an HTML report of all of your steps

SimBiology – A MATLAB Tool for Modeling and Simulating Biochemical Pathways

During this seminar, you will be introduced to SimBiology, a MATLAB-based tool for modeling biochemical pathways. Through product demonstrations, you will see how SimBiology can be used to:

- Create and configure biochemical pathways using either an interactive or programmatic interface
- Perform stochastic and deterministic simulation of your pathways
- Execute advanced analysis tasks, such as parameter estimation and sensitivity analysis
- Leverage the computing power of an underlying MATLAB platform via custom MATLAB scripts

Speeding Up MATLAB Applications

- Solve computationally intensive problems faster
- Process large data sets with parallel computing

We hope you can join us. Please feel free to contact me with any questions at email:
heather.wellman@mathworks.com or tel: (508) 647-7093.

Sincerely,
Heather Wellman
Senior Account Manager, Education Dept.
The MathWorks