"What lies behind us and what lies before us are tiny matters compared to what lies within us" ~ M. Holmes

Contents

Note to Readers...

With the onset of summer, RSG-India is glad to present before you its tenth edition of 'CONNECT'. First, we give you a preview of the guest lecture conducted by RSG-India at Sir MVIT, Bangalore in the Initiatives section. We also focus on the regular sections, 'Top 10 posts on the Message Board' and 'Topic of the Month (TOTM) – Bioinformatics and BioJava'. Further, with the affluent succession of the section titled 'BIO-Innovation', we introduce you to a newly built language for representation of computational models in Systems Biology-"Systems Biology Markup Language".

We sincerely hope that you would find this edition much more informative and the RSG-India intent of academic excellence motivates you for all your current and future endeavors!
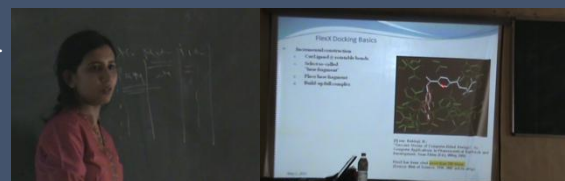
RSG-India's Initiatives – Spanning our wings...

In the last edition of CONNECT, we introduced you to one of our online initiatives 'RSG India's FAQ Archives', which would have surely benefited you a lot. However, this time we thought of taking a step forward towards the students at Sir MVIT, Bangalore.

In the May of 2011, RSG-India organized a guest lecture at Sir MVIT, Bangalore which basically dealt with 'Demonstration of various Drug Designing Software'. Ms. Sonali Ghosh, Senior Applications Scientist from Apsara Innovations Pvt Ltd. was the key speaker.

- ✓ The company profile and software products were discussed.
- ✓ The Drug discovery process was briefed to the students.
- ✓ Applications provided by the software 'FlexX' were illustrated with fine examples.
- ✓ 'FlexX' was contrasted to 'Discovery Studio Suite' on the basis of its functionality.

... will be continued ...
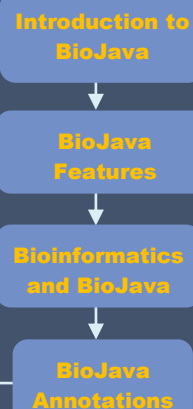
TOP in Focus 10 POSTS ON THE MESSAGE BOARD

1. ADMISSION - PhD Program at Nirma University.
2. WORKSHOP – Indo-US workshop on Biocomputing.
3. QUERY – Energy Minimisation query.
4. RESEARCH POSITION – Post Doctoral Research at NUS, Singapore.
5. OPENING – Job Opening at Xcelris Genomics.
6. OPENING - JRF at Bharathiar University.
7. ARTICLE – Scientists recreate brain cell networks for memory formation.
8. QUERY – LINUX software equivalent to Chemsketch.
9. CONFERENCE – ICBBB Conference 2012 at Chennai, India.
10. MISC – Article for all Grad Students.

Bioinformatics and BioJava

http://tinyurl.com/3gcraba

BioJava is an open source project dedicated to provide Java tools for Biological data. Its use is increasing in the present generation of all sorts of Bioinformatics analysis. The flowchart depicts the flow of the discussion. Please click on the elements to view the corresponding discussion.

Introduction to BioJava → BioJava Features → Bioinformatics and BioJava → BioJava Annotations → BioJava and BLAST → BioJava and MSA → Biojava Test Program

BIO-Innovation - 'Systems Biology Markup Language'

The Systems Biology Markup Language (SBML) is a representation format, based on XML, for communicating and storing computational models of biological processes. It is a free and open standard with widespread software support and a community of users and developers. SBML can represent many different classes of biological phenomena, including metabolic networks, cell-signaling pathways, regulatory networks, infectious diseases, and many others. It is a de facto standard for representing computational models in Systems Biology today.