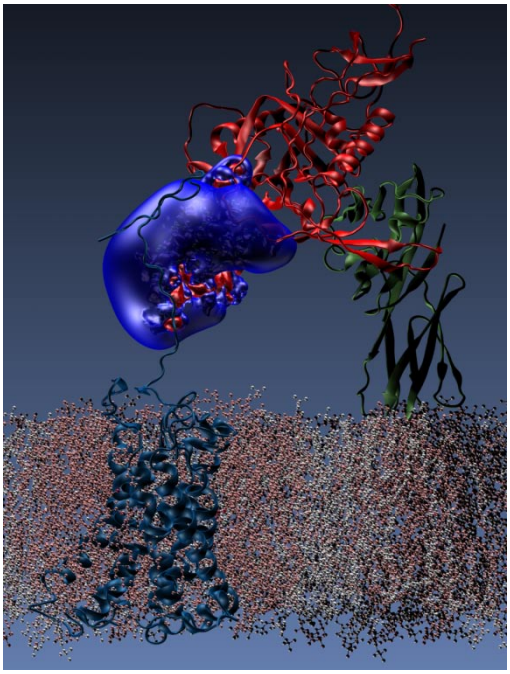
Autumn School

"Biomolecular Structure and Function – Computational Approaches"

November 29 – December 3 2010, Essen, Germany
&
December 13 - 17 2010, Nijmegen, the Netherlands



Dear Young Scientist,

If you have

- ✓ a keen interest in the basic building-blocks of life, i.e. biomolecules, their structure, their interactions, their functional mechanism, and
- ✓ a good knowledge in the natural sciences proven by successful studies in biology, biochemistry, biophysics, bioinformatics, or related,
- ✓ are studying a Master course or have begun with a PhD project in the Netherlands, Belgium or North Rhine-Westphalia,

then this international Autumn School may be a good starting point for your further studies as it will allow you to learn some of the powerful *computational* techniques that are available to address these issues.

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Gert Vriend
Centre for Molecular and Biomolecular Informatics (CMBI), Radboud University Nijmegen Medical Centre, Nijmegen, The Netherlands

Overview of the programme

The autumn school will have two parts, both with a mixture of short lectures, presentations, hands-on exercises, and project work.
In week 1 (29 November – 3 December 2010) we will focus on methods based on physical models of biomolecular systems. Topics of this week include molecular dynamics simulation, molecular electrostatics and Brownian dynamics, docking, and datamining on sequences and structures.
In week 2 (13 - 17 December 2010***)*** we will deal with methods that make empirical knowledge available for modelling proteins. Topics of this week include biomolecular databases, evaluation of X-ray and NMR data, protein structure prediction and comparative modeling.

Further details will be available soon at the websites:
swift.cmbi.ru.nl/autumnschoolbioinformatics/
www.uni-due.de/autumnschoolbioinformatics/

Admission

- Please do the self-assessment quiz on the course website to find out if your background knowledge is sufficient.
- If you think so, please fill in the application form on the website.
- Please include a short letter of reference by your supervisor.
- The **deadline** for applications is **October 28, 2010**. Accepted candidates are notified in the first week of November.
- The number of participants is limited to 20.
- The fee for the Autumn School is 150 EUR per participant. Cost for accommodation and travel across borders will largely be covered by a grant from the German Academic Exchange Service (DAAD)*****.

Contact addresses

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***** Maximum cost (in EUR) refunded:

- travel from the Netherlands to Germany and back: 175.-
- travel from Belgium to Germany and back: 150.-
- travel from Belgium to the Netherlands and back: 150.-
- travel from Germany to the Netherlands and back: 150.-

Accommodation, breakfast and lunch for participants travelling across borders are fully covered by grant.

UNIVERSITÄT DUISBURG ESSEN

UMC St Radboud

IRUN International Research Universities Network

DAAD Deutscher Akademischer Austausch Dienst German Academic Exchange Service

nbic netherlands bioinformatics centre