

HYDROPROT 2011

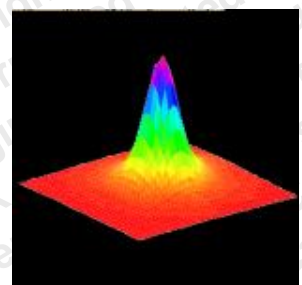
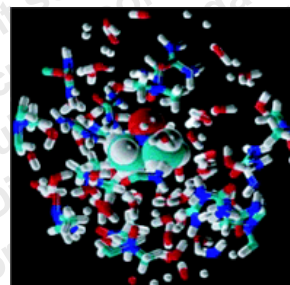
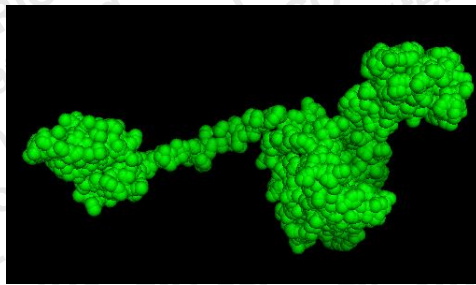
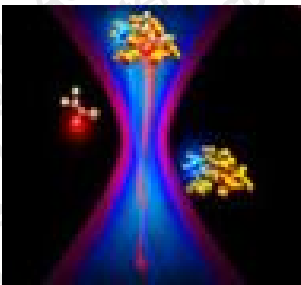
Macromolecular hydrodynamics from aqueous solutions to living cells

Macromolecular Hydrodynamics, from aqueous solutions to living cells *Implications for the understanding of biological processes*

Institut Pasteur, Paris

Meeting: July 4th-5th, 2011

Workshop: July 6th, 2011



Keynote speakers

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|----------|--------------------|---|
| Philippe | BASTIAENS | (Max Planck Institut Dortmund, Germany) |
| Martin | BLACKLEDGE | (Institut de Biologie Structurale Grenoble, France) |
| José | GARCIA DE LA TORRE | (Universidad de Murcia, Spain) |
| Martina | HAVENITH | (Ruhr-Universität Bochum, Germany) |
| Sonia | LONGHI | (Universités Aix-Marseille I & II, France) |
| Giuseppe | ZACCAI | (Institut Laue Langevin Grenoble, France) |

Scientific committee

| | | | |
|-----------------------|--|------------|--|
| A. CHENAL | (Institut Pasteur, France) | J. PEREZ | (Synchrotron SOLEIL, France) |
| C. EBEL | (Institut de Biologie Structurale, France) | B. RAYNAL | (Institut Pasteur, France) |
| P. ENGLAND | (Institut Pasteur, France) | T. ROSE | (Institut Pasteur, France) |
| J. GARCIA DE LA TORRE | (Universidad de Murcia, Spain) | C. ROYER | (Centre de Biochimie Structurale, France) |
| A. HOUDUSSE | (Institut Curie, France) | D. SCOTT | (National Centre for Macromolecular Hydrodynamics, UK) |
| M.T. GIUDICI-ORTICONI | (Institut de Microbiologie de la Méditerranée, France) | N. TAULIER | (Université Pierre et Marie Curie, France) |
| D. MARGUET | (Centre d'Immunologie Marseille-Luminy, France) | | |

Abstract submission deadline: March 31st, 2011

Registration deadline: May 31st, 2011



Information and registration: <http://www.pasteur.fr/hydroprot11>

HYDROPROT 2011

Macromolecular hydrodynamics from aqueous solutions to living cells

Institut Pasteur, Paris
July 4th - 5th 2011

Call for abstracts

We are now **inviting abstracts** from **both junior and senior scientists** interested in the field of **macromolecular hydrodynamics, from aqueous solutions to living cells, and its implications for the understanding of biological processes.**

Hydroprot 2011 follows the success of HydroProt'09 (Institut Pasteur, Paris - june 2009), which brought together 100 biophysicists, biochemists and biologists from France and different European countries, both from academic and non-academic institutions.

The general aim of the second edition of this European conference, which will take place in a 500-people modern auditorium (<http://www.pasteur.fr/infosci/auditorium/audit-eng.html>), is to contribute to a better integration of the different hydrodynamic approaches for the understanding of biological processes.

The main topics are the following:

- * **Order and disorder, from molecules to complexes**
- * **Protein dynamics**
- * **Macromolecular solvation: role in stability and dynamics**
- * **Molecular dynamics in cellular compartments**
- * **Macromolecular diffusion *in vivo***

The scientific presentations will resort to a **large range of technologies**, such as: analytical ultracentrifugation (AUC), static and dynamic light scattering (SLS-DLS), viscometry, dual polarization interferometry (DPI), size-exclusion chromatography, field-flow fractionation (FFF), X-ray and neutron scattering (SAXS-WAXS-SANS), diffusion and dynamic NMR spectroscopy, ion mobility mass spectrometry (IMS), fluorescence recovery after photobleaching (FRAP), fluorescence anisotropy depolarization (FAD), fluorescence correlation spectroscopy (FCS-FCCS), time-resolved atomic force microscopy (AFM), single particle tracking, ...

The dead-line for abstract submission is March 31st 2011 (registration dead-line: May 31st)

The Scientific Committee will select 12-15 abstracts for oral presentations.

All other abstracts will be offered a poster presentation.

The conference organization will cover part of the expenses of the selected speakers.

The academic registration fee will be kept as low as possible (around 100 euros).

Satellite theoretical/demonstration **workshops** will be organized on **july 6th** in the Institut Pasteur Teaching Centre, allowing the participants to gain practical experience about instrumentation, methodologies and data analysis software.

For further information and guidelines for abstract submission :

<http://www.pasteur.fr/hydroprot11>

The scientific organizing committee

