

A recent recognition of the widespread biological relevance of the guanosine self-assembly triggered an expanding research of the associated structures and phenomena. The field evolved into various branches and is at present ripe for exchange of ideas and collaboration. The purpose of the conference is to provide a platform for exchange of expertise and ideas between the senior and young researchers and to create interdisciplinary links between the scientists in this field. It also aims to help establish scientific collaborations on the pan-European and international level.

Guanosine-based self-assembled structures possess large potential that connects biological with the technical world. The importance of G-quadruplex structures in vivo (in telomere structure and function) requires development of a comprehensive knowledge of the structural and folding properties of the G-rich DNA regions. In addition, many recent successful demonstrations of applications of the G-based materials in areas ranging from medical chemistry to molecular nanotechnology and biotechnology require a rapid progress of the interdisciplinary expertise on the topic.

The topic is highly interdisciplinary connecting molecular biology and soft-condensed matter physics with supramolecular chemistry. A link will be established between theory, simulation, experiment and application.

RESEARCH CONFERENCES

ESF-FWF Conference in Partnership with LFUI Self-Assembly of Guanosine Derivatives: From Biological Systems to Nanotechnological Applications

Universitätszentrum Obergurgl (Ötz Valley, near Innsbruck) • Austria
20-25 June 2009

Chair: Gian Piero Spada, Alma Mater Studiorum, Bologna U., IT

Co-Chairs: Irena Drevensek Olenik, Ljubljana U., SI &
Lea Spindler, Maribor U., SI



Invited Speakers will include

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| K. Araki - Tokyo U., JP | A.T. Phan NTU Singapore, SG |
| M. Barboiu - IEM Montpellier, FR | J. Plavec - KI Ljubljana, SI |
| P. Bates - Louisville U., US | A. Randazzo - UNINA, Napoli, IT |
| J.T. Davis - Maryland U., US | R. Rinaldi - UNILE, Lecce, IT |
| R. Di Felice - INFN Modena, IT | P. Samorì - ULP Strasbourg, FR |
| Shozeb Haider - London U., UK | N. Špačková - Masaryk U., Brno, CZ |
| A.B. Kotlyar - Tel Aviv U., IL | M. Webba da Silva - Ulster U., Coleraine, UK |
| N. Maizels - Washington U., US | G. Wu - Queen's U., Kingston, CA |
| J.-L. Mergny - MNHN, Paris, FR | |

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Closing Date for Application 25 March 2009

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