

# purines 2014 in bonn

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## Plenary Speakers

The eight plenary lectures will be presented by

### Geoffrey Burnstock

University College London, UK

### Elizabeth Hartland

University of Melbourne, Parkville Victoria, Australia

### Kenneth A. Jacobson

NIH, Bethesda, USA

### Fiona Marshall

Heptares Therapeutics Ltd., Hertfordshire, UK

### Maiken Nedergaard

University of Rochester, Rochester, USA

### Michail Sitkovsky

Northeastern University, Boston, USA

### Norbert Sträter

University of Leipzig, Leipzig, Germany

### Francesco di Virgilio

University of Ferrara, Ferrara, Italy

## Registration fee

**Academic: € 390**

(late fee after April 30, 2014: € 490)

**Student: € 240** (with proof at time of registration)

(late fee after April 30, 2014: € 290)

**Industry: € 490**

European participants: bank transfer only

International participants: intl. bank transfer or credit card

On-site registration: cash only

**Abstract submission deadline: April 30, 2014**



Design: Susanne Hagendorf, Halle (Saale)  
Photos: Michael Sondermann (Beethoven Statue)  
Dr. Thomas Mauersberg / Bonn University (University Main Building)  
Coordination: Anke C. Schiedel

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## Nucleotides, Nucleosides and Nucleobases International Conference on Signalling, Drugs and Targets

Date: **July 23–27, 2014**

Venue: **University of Bonn**  
Main Building (Castle)  
Am Hof 1  
53113 Bonn, Germany



universität**bonn**

purines  
2014 in bonn

german  **PURINE** club

## Welcome message

It is our great pleasure to invite you to **Purines 2014**, an International Conference on Nucleotides, Nucleosides and Nucleobases, to be held in Bonn, Germany, from **July 23–27, 2014**.

The Conference will bring together the leading international scientists in the field, serve as a forum for the exchange of novel research results and ideas, and will provide an excellent opportunity for establishing research cooperations in the field. The broad-ranged topics will be presented within **43 Symposia, one Round Table** and **four Poster Sessions**. Aspects of the molecular and cellular biology of purinergic signalling will be covered equally well as its role in the physiology and pathology of various organ systems, its functions in plants, and the development of novel strategies for drug development and therapy.

## Bonn – the former capital of the Federal Republic of Germany

Furthermore, you may enjoy Bonn's historical sights, highlights of art, and the picturesque impressions along the romantic **river Rhine**. Bonn is the birth place of the famous composer **Ludwig van Beethoven** (1770–1827). The University of Bonn was founded in 1818 and is one of the leading German universities. The Rheinische Friedrich-Wilhelms-University attracted eminent scholars, including Heinrich Heine, Heinrich Hertz, Friedrich August Kekulé, Karl Marx, Friedrich Nietzsche and Justus von Liebig.

The conference will take place in the main building of the University of Bonn, the former castle in the heart of the city.

We are excited to host a cutting-edge conference and we are looking forward to welcoming you in Bonn.

Christa E. Müller,  
Congress Chairperson

Herbert Zimmermann,  
President of the German Purine Club

## Symposia

Each symposium will be presented by 5 speakers, 4 talks by advanced scientists and 1 talk by a young scientist.

- X-Ray Structures and Molecular Modelling I: GPCRs
- X-Ray Structures and Molecular Modelling II: P2X Receptors
- Structures and Functions of Ectonucleotidases
- Role of Ectonucleotidases in Nucleotide Signalling
- Purinergic Receptor Polymorphisms and their Pathological Implications
- Medicinal Chemistry and Drug Development I: P1 Receptor Ligands and Ecto-5'-Nucleotidase Inhibitors
- Medicinal Chemistry and Drug Development II: P2 Receptor Ligands and Inhibitors of NPPs and NTPDases
- Clinical Candidates for Purine Receptors
- Transgenic Models for the Investigation of Purinergic Signalling
- Biomarkers and Imaging of Purine Receptors
- New Technologies in Purine Receptor Research
- Transport and Release I: Nucleosides and Nucleobases
- Transport and Release II: Nucleotides
- ATP and P2 Receptors in the Regulation of Renal Transport and Blood Pressure
- Purines in Tissue Fibrosis
- Adenosine Deaminase and Intracellular Purine Metabolising Enzymes
- Purine Nucleotides and Their Metabolising Enzymes in Inflammation & Immunology
- Purinergic Receptor Heteromers: From Identification to Structure and Function
- Novel Purine (-like) Receptors
- Purine Receptors and Platelet Function and P2Y<sub>12</sub> Receptors in Brain
- Role of Purines in Embryonic Development and in Adult Stem Cell Growth and Differentiation
- Adenosine and Sleep
- ATP-Mediated Talk Between Microglia, Astrocytes and Neurons
- Purines and Neuroinflammation
- Neuroprotective Functions for Purinergic Receptors in the CNS
- Adenosine Receptor Antagonism and Parkinson's Disease
- Roles of Purines in Gastrointestinal Physiology and Disease
- Purines in Wound Healing
- Pancreatic Purinergic Signalling in Health and Disease – Exocrine and Endocrine Functions
- Heart Pathophysiology and Atherosclerosis
- Purine Signalling in Pain
- Purinergic Regulation of Tumor Growth and Metastasis
- Purine-Based Therapeutic Approaches in Cancer Therapy
- Purinergic Signalling in the Musculoskeletal System
- Purines in Host-Pathogen Interactions
- Purines in Sensory Systems
- Nucleotide Signalling in Plants
- Regulation of Lipid and Glucose Metabolism by Purines
- Intracellular Purine Receptors
- Purines and Neurodegeneration
- Purinergic Control of Synaptic Transmission
- Purines, Purinergic Signalling, and Receptors in Evolution
- Regulation of the Immune System by Purines
- Round Table: Challenges for Purinergic Drugs