



# Nucleosides and Nucleotides: synthetic and biological chemistry

**Friday, 17th April 2015**  
London, UK

## Final Announcement

Organised by RSC Biological and Medicinal Chemistry Sector and RSC Nucleic Acids Group



## Synopsis

Nucleosides and nucleotides remain one of the most fruitful drug classes, providing about 50% of antiviral drugs and 20% of cancer drugs used in the UK. Nucleoside and nucleotide chemistry constitute a vibrant field of research for both synthetic and biological chemists. This meeting will bring together scientists at the interface of synthetic chemistry and biology to tackle current challenges and celebrate recent achievements in the field.

## Speakers include:

**Chris McGuigan** (University of Cardiff) - **keynote speaker**

*ProTides and phosphorodiamidates as nucleotide pro-drug forms: from the lab to clinical use*

**Chris Meier** (University of Hamburg) - **keynote speaker**

*Developing prodrugs of antivirally active nucleoside triphosphates.*

*Against all odds - it works!*

**David Bunka** (Aptamer Group) - *Aptamers: novel oligonucleotide reagents for disease diagnosis and therapy*

**Gilles Gosselin** (Idenix SARL) - *Tyzeka<sup>®</sup>, Sebivo<sup>®</sup>, a nucleoside analogue (2'-deoxy-L-thymidine, telbivudine) specifically used for the treatment of chronic hepatitis B: from the bench to its marketing approvals*

**Barry Potter** (University of Oxford) - *Approaches to drugging nucleotide Ca<sup>2+</sup>- mobilizing second messengers*

**Yogesh Sanghvi** (Rasayan Inc) - *Application of green technologies for nucleic acid transformations*

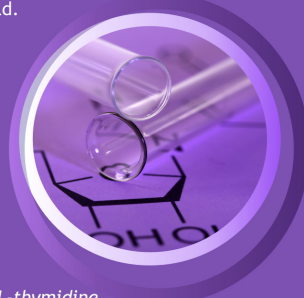
**Vivek Sharma** (Universities of Delhi and Southampton) - *Chemo-enzymatic convergent route to locked- & C-4'-spiro-ribonucleosides*

**James Tucker** (University of Birmingham) - *Organometallic mimics of nucleic acids and nucleosides*

**Gerd Wagner** (Kings College London) - *Non-natural derivatives of the ubiquitous dinucleotide NAD as probes for chemical biology and medicinal chemistry*

**Sam Whitehouse** (QuantumDx) - *Breaking lab - alternative uses for nucleosides*

**Andrew Woodhead** (Astex Therapeutics) - *The development of SGI-110, a potent hypomethylating agent, as an epigenetic therapy in cancer*



## Registration and Students

Registration fees from 20th March are:

£190 RSC member standard

£225 Non-member standard

£115 RSC student\* member standard

£126 Student\* non-member standard

\* Student is undergraduate or post-graduate student, not post-doc

## Exhibitors

There will be a relevant trade exhibition, and those companies wishing to have a trade stand should apply early to avoid disappointment.

## Venue and Travel

Royal Society of Chemistry at Burlington House, London. Situated in central London, this venue is easily accessible by public transport.

## Organising Committee

Mark Betson, Peakdale Molecular

David Hodgson, RSC-NAG (Co-chairman)

Jon Watts, RSC-BMCS (Co-chairman)

Joe Sweeney, RSC-BMCS

## Contact Secretariat

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