

## Bologna Academy of Sciences

Bologna's Institute of Sciences was founded in 1711, based on the two most prestigious academies founded in the previous century, the Paris Academy and the Royal Society of London. Its function was to integrate the purely theoretical lessons offered by the University of Bologna with experimental practice. In 1712 Marsigli vision, the founder of oceanography and marine geology, was that the Science Academy would carry out scientific research in the tradition of Galileo and Newton. In 1734 the chemist Jacopo Bartolomeo Beccari entered the Academy. He was the first University Professor of Chemistry in Italy. After the reforms by Pope Benedict XIV the Science Academy became a center for all who wanted to advance sciences in Bologna. A new interest arose in the theories of Marcello Malpighi, René Descartes and Isaac Newton, and the teachings of Nicolaus Copernicus, Galileo Galilei and Francis Bacon, as well as interest in social issues. The physicist Laura Bassi, who in 1732 had become the second European woman to be awarded a university degree, became a member of the Institute. The Academy reached a high level of scientific progress towards the end of the XVIII century under its President Luigi Galvani. In 1791 he published his revolutionary treaty *de viribus electricitatis in motu musculari*. In 1907, the Academy admitted legal scholars for the first time. Members of the Academy in the last century have been Guglielmo Marconi, Albert Einstein, and Marie Curie, and , for the human sciences Giosuè Carducci and Giovanni Pascoli.

## Organizing Committee

Claudio Trombini, Marco Lombardo,  
Arianna Quintavalla - Università di Bologna  
Donatella Taramelli - Università di Milano

This event is FREE, but all participants have to register as soon as possible using the form available at the WWW address:

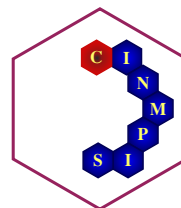
[www.chimica.unibo.it/it/eventi/workshop-malaria](http://www.chimica.unibo.it/it/eventi/workshop-malaria)



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**Alma Mater Studiorum  
Università degli Studi di Bologna**

**PERSPECTIVE AND FUTURE  
RESEARCH IN MALARIA  
MANAGEMENT**

*December 18, 2013  
Sala Ulisse*

**Accademia delle Scienze  
dell'Istituto di Bologna**  
*via Zamboni 31, Bologna*



# Workshop Program

Wednesday 18 december 2013

## Morning Session

9.15 : 9.30 - Workshop Opening

9.30 : 10.20

**Andrea Crisanti**

Genetic control measures targeting the malaria vector *Anopheles gambiae*

10.20 : 10.40

**Rakesh Sehgal**

Old disease new outlook: complicated malaria due to *P. vivax*

10.40 : 11.20 - Coffee Break

11.20 : 11.40

**Marco Lombardo**

Structurally simple 1,2-dioxanes as antimalarial drug candidates: synthesis and activity

11.40 : 12.00

**Caterina Fattorusso**

Redox control systems as preferential targets for antimalarial drugs development

12.00 : 12.50

**Jeremy Burrows**

Drug discovery towards the eradication of malaria

13.00 : 14.30 - Lunch

## Afternoon Session

14.30 : 15.20

**Pietro Alano**

The biology of *Plasmodium falciparum* gametocytes in the perspective of targeting the malaria transmission stages

15.20 : 15.40

**Elisa Michelini**

Bioluminescence helps malaria research: exploiting new luciferases to improve analytical performance of antimalarial screening assays

15.40 : 16.00

**Sarah D'Alessandro**

Targeting the sexual stage of *P. falciparum*: new *in vitro* assays to screen compounds against gametocytes

16.00 : 16.20

**Santosh Mhaske**

Malaria in India: past, present and future

16.20

**Claudio Trombini**

Closing remarks and coffee

## List of Speakers

**Pietro Alano**

Istituto Superiore di Sanità  
Roma

**Jeremy Burrows**

Medicines for Malaria Venture (MMV)  
Geneva

**Andrea Crisanti**

Dipartimento di Medicina Sperimentale e Scienze Biochimiche  
Università di Perugia  
Division of Cell and Molecular Biology  
Imperial College, London

**Sarah D'Alessandro**

Dipartimento di Scienze Farmacologiche e Biomolecolari  
Università di Milano

**Caterina Fattorusso**

Dipartimento di Farmacia  
Università di Napoli "Federico II"

**Marco Lombardo**

Dipartimento di Chimica "Ciamician"  
Università degli Studi di Bologna

**Santosh Mhaske**

Division of Organic Chemistry  
National Chemical Laboratory (CSIR-NCL)  
Pune, India

**Elisa Michelini**

Dipartimento di Chimica "Ciamician"  
Università degli Studi di Bologna

**Rakesh Sehgal**

Department of Medical Parasitology,  
Postgraduate Institute of Medical Education & Research,  
Chandigarh, India