



FONDAZIONE
INTERNAZIONALE
MENARINI

MAY 30TH-31ST

2019

FLORENCE, ITALY
PALAZZO PUCCI

**BIOMINERALIZATION IN
HEALTH AND DISEASE:**

**FROM THE OCEAN
TO THE STARS
TO THE LAND**

ORGANIZED BY:

**University
of Florence**
Florence,
Italy

Mayo Clinic
Rochester,
Minnesota,
USA

University of Oxford &
O.C.D.E.M.
Churchill Hospital
Headington, Oxford, UK

**Fondazione
Internazionale
Menarini**



BIOMINERALIZATION IN HEALTH AND DISEASE:

FROM THE OCEAN TO THE STARS TO THE LAND



FONDAZIONE
INTERNAZIONALE
MENARINI

The symposium will bring together basic, translational, and clinical scientists from different disciplines who study the chemistry, structural biology, paleontology, molecular biology, physiology, and pathophysiology of biomineralization.

Biomineralization is a process that started 750 million years ago, and refers to the utilization of minerals by living organisms to harden or stiffen tissues, and this includes the production of mineralized skeletons. Biomineralization is widespread amongst organisms to produce structures such as seashells and bone in mammals and birds. Moreover, biologically-formed minerals often have specialized functions such as magnetic sensors, gravity sensing devices, and iron storage and mobilization.

The program will feature recent research on the roles of biomineralization in: skeletal and dental development and physiology; tissue calcification of blood vessels, kidneys, and eyes; mineral metabolism; and parathyroid physiology and vitamin D metabolism. Clinical uses of drugs to treat human disorders, evolutionary, structural and molecular aspects of biomineralization, and the long-term effects of interplanetary and space exploration will be highlights.

The program will include lectures from keynote speakers, oral presentations, poster discussion sessions, and forums for young investigators to meet senior experts.

Maria Luisa Brandi, Bart Clarke and Rajesh Thakker
Co-Presidents of the Symposium

If you need further information on the event, check the program and register on website www.fondazione-menarini.it

Fondazione Internazionale Menarini - Symposia: N 420

