

# SOCIETA' ITALIANA DI ASTROBIOLOGIA ITALIAN SOCIETY OF ASTROBIOLOGY



[WWW.astrobiology.weebly.com](http://WWW.astrobiology.weebly.com)

**XVII International Conference on Science, Arts and Culture**  
**SAILING THROUGH THE WONDERS OF ASTROBIOLOGY**  
*Veli Lošinj, Croazia, 25 - 29 settembre 2017*

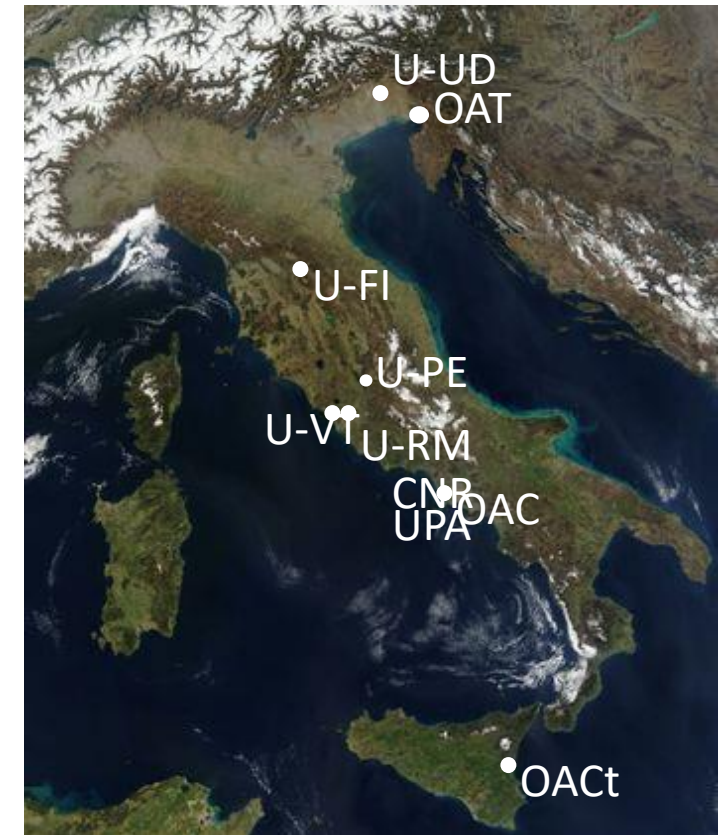
# ITALIAN SOCIETY OF ASTROBIOLOGY Teams

2017

ITALIAN ASTROBIOLOGY SOCIETY



- Università di Udine (U-UD)-**University of Udine**
  - Dipartimento di Patologia e Medicina Sperimentale e Clinica,
- Università di Firenze (U-FI)-**University of Florence**
  - Dipartimento di Biologia Animale e Genetica,
- Università “La Tuscia” di Viterbo (U-VT)- **University of Tuscia (Viterbo)**
  - Dipartimento di Scienze Ecologiche e Biologiche,
- Università “La Sapienza” di Roma (U-RM)-**University La Sapienza (Rome)**
  - Dipartimento di Genetica e Biologia Molecolare,
- Università “Parthenope” di Napoli (UPA)-**University Parthenope (Naples)**
  - Dipartimento di Scienze Applicate,
- Università Federico II (Napoli)-**University Federico II (Naples)**
  - Dipartimento di Biologia,
- Università degli studi di Perugia (U-PE)-University of Perugia-**University of Perugia**
  - Dipartimento di Chimica, Biologia e Biotecnologie,
- CNR Napoli (CNR)-**National Research Council (CNR, Naples)**
  - Istituto di Biochimica delle Proteine,
- **INAF Osservatorio Astronomico di Trieste (OAT)**
- **INAF Osservatorio Astronomico Capodimonte (OAC)**
- **INAF Osservatorio Astrofisico di Catania (OACt)**





The Novel Astrobiology Genetic Code

# ITALIAN SOCIETY OF ASTROBIOLOGY Aims

2017

ITALIAN ASTROBIOLOGY SOCIETY



- Promuovere il progresso delle conoscenze nel campo della Astrobiologia- **Promote the advancement of knowledge in the field of Astrobiology;**
- Promuovere e coordinare la ricerca fondamentale ed applicata- **Promote and coordinate fundamental and applied research;**
- Stimolare la collaborazione tra ricercatori di diverse discipline- **Stimulate collaboration between researchers from different disciplines;**
- Promuovere e favorire i rapporti con altre organizzazioni internazionali di eccellenza nel settore- **Promote relationships with other international organizations;**
- Favorire lo sviluppo di tecnologie abilitanti per applicazioni terrestri e spaziali- **Encourage the development of enabling technologies for terrestrial and space applications;**
- Promuovere e coordinare attività di alta formazione- **Promote and coordinate high-level training activities, meetings and conferences;**
- Favorire la diffusione delle conoscenze per fini educativi e divulgativi- **Encourage the diffusion of knowledge for educational and dissemination purposes.**



# ITALIAN SOCIETY OF ASTROBIOLOGY Topics

2017

ITALIAN ASTROBIOLOGY SOCIETY



Astrochemistry  
and Prebiotic Chemistry

Habitability and Exoplanets



Origin and Evolution of  
the Genetic System  
and Metabolism

Planetary Protection



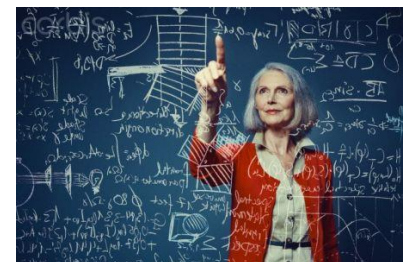
Archeo-bacteria and  
Extremophiles

Biomedicine and Space  
Biotechnology



Exploration of Terrestrial  
and Extraterrestrial  
Environments

Education & Public Outreach



# ITALIAN SOCIETY OF ASTROBIOLOGY Education

2017

ITALIAN ASTROBIOLOGY SOCIETY



PHYSICS TEXTBOOK

Edited by Petra Rettberg  
and Gerda Horneck

WILEY-VCH

## Complete Course in Astrobiology



### EANA – European Astrobiology Network Association

### ABC-Net Lecture plan for 2012-13

version 6 (February 17, 2012)

Lectures Tuesday every 2 weeks – 14:30 – 17:30 CET

|             |                                            |                                                                  |                                                                                                                                              |
|-------------|--------------------------------------------|------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|
| October 9   | G. Horneck/F. Raulin/N. Savage<br>H. Lehto | DLR Koeln/UPEC/ESA<br>University of Turku                        | General introduction of the Lecture course and of the programme<br>Origin of the solar system                                                |
| October 23  | N. Gontareva<br>H. Cottin                  | Polytech. Univ. St. Petersburg<br>Univ. Paris Est Créteil (UPEC) | Life origin: different theories and objectives for extraterrestrial/terrestrial emergence of biological systems<br>Basic prebiotic chemistry |
| November 6  | A. Rotundi<br>F. Ferrari                   | University of Napoli<br>University of Szczecin                   | Comets and origin of life<br>Structures and evolution of proteins                                                                            |
| November 20 | R. Saladino<br>K. Lehto                    | University of Viterbo<br>University of Turku                     | On the bias of metabolism versus genetics first<br>The earliest life forms                                                                   |
| December 4  | H. Stan-Lotter<br>P. Rettberg              | Univ. Salzburg/Univ. Dresden<br>DLR, Köln/Univ. Dresden          | Extremophilic Microorganisms<br>Desiccation and radiation resistance of thermophilic and hyperthermophilic bacteria and archaea              |
| December 18 | F. Westall<br>J. Vago                      | CBM Orléans / (UPEC)<br>ESA/ESTEC                                | Astrobiology of Mars<br>Missions to Mars                                                                                                     |
| January 8   | S. Onofri<br>J. L. Grenfell                | University of Viterbo<br>Tu Berlin/Univ. Dresden                 | Small black rock-fungi and lichens on the way of Lithopanspermia<br>Search for biomarker molecules in exoplanets                             |
| January 22  | E. Szuskiewicz<br>H. Rauer                 | University of Szczecin<br>Tu Berlin/Univ. Dresden                | Architecture and evolution of planetary systems<br>Exoplanets, Planetary atmospheres                                                         |
| February 5  | T. Schmiel<br>M. Viso                      | University of Dresden<br>CNES Paris / UPEC                       | Introduction to Spacecraft Design for Astrobiology Instrument Developers<br>Planetary Protection                                             |

# ITALIAN SOCIETY OF ASTROBIOLOGY Governance

2017

ITALIAN ASTROBIOLOGY SOCIETY



Presidency and  
Board of Directors



Scientific Council

Undergoing renewal

Network of Astrobiology  
Laboratories

In the constitution phase



# ITALIAN SPACE SOCIETY WANTS YOU!



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