

## The USERN 2018 Congress and Prize Awarding Festival ESGM Course on Primary Immunodeficiencies

### Primary Immunodeficiencies Course

Reggio Calabria  
Mediterranea University  
November 10<sup>th</sup> → 14<sup>th</sup> 2018

Day 1: Saturday, November 10, 2018	
8:30 – 9:30	<b>Registration of Participants</b>
<b>9:30</b>	<b>Italian National Anthem with the Choir of the Leonardo da Vinci Lycaeam</b>
9:35 – 9:40	<b>Welcome to Calabria by the Rector of the Mediterranean University on the occasion of the UNESCO World Science Day for Peace and Development</b>
9:40 - 10:00	<p><b>Welcome by the Local Institutional Representatives:</b></p> <p>the Mayor of the Città Metropolitana; the President of the Regional Council; the Principal of the Leonardo da Vinci Lycaeam;</p> <p>the President of the Court of Appeal of Reggio Calabria who will introduce the next keynote speaker</p>
10:00 – 11:00	<p><b>Keynote Speech</b></p> <p><b>Science between Rule of Law, Security and Peace – Marco Lombardo (IT)</b></p> <p>The artist Gerardo Sacco will honor an Emeritus Judge of Calabria with one of his jewels</p>
11:00- 11:20	<b>Musical Intermission by the Choir of the Leonardo da Vinci Lycaeam</b>
11:20– 12:10	<p><b>Model Genetic Studies in a Sardinian Isolated Population and their Return for Autoimmune-Autoinflammatory Disorders</b></p> <p>Francesco Cucca (IT)</p>
12:10 – 12:45	<b>The Cultural Legacy of L. Luca Cavalli-Sforza (1922-2018)” - Francesco Cavalli-Sforza (IT)</b>

12:45 – 13:30	<b>Official Opening of the USERN Prize Festival in 5 Fields of Science on the occasion of the UNESCO World Science Day for Peace and Development</b> <b>Speech by the Founding USERN President - Nima Rezaei (IR) - USERN Introductory Clip and Introduction of USERN 2019 Host</b>
13:30– 15:10	<b>Lunch and walk through the Mediterranea University venue</b>
	Afternoon session
15:10 – 15:30	<b>Multidisciplinary Collaborations - Kathleen Sullivan (USA)</b>
15:30 – 15:50	<b>To Drive the Science toward Peace: with or without Humans? - Massimo Cappaccioli (IT)</b>
15:50 – 16:10	<b>The diabetic bone marrow: a novel chronic complication of diabetes - Gian Paolo Fadini (IT)</b>
16:10 – 16:30	<b>Barocaloric materials for environmentally friendly refrigeration - Xavier Moya (UK)</b>
16:30 – 16:50	<b>The Human Connectome – Alex Fornito (AU)</b>
16:50 – 17:10	<b>Putting Quantum Paradoxes to Work - Jacob D Biamonte (USA)</b>
17:10 – 17:30	<b>Wisdom in an uncertain world- Igor Grossmann (CA)</b>
17:30 – 18:00	<b>Break and Preparation for IFPPP Festival - Musical Intermission with the Band of the Leonardo da Vinci Lycaeum</b>
18:00 – 19:30	<b>Awarding the Prizes of the 4th International Festival of Paintings for Pediatric Patients</b>
<b>19:30 – 20:00</b>	<b>Closing of USERN Festival and UNESCO World Science Day</b>
	<b>Day 2: Sunday, November 11, 2018</b> <b>Primary Immunodeficiencies (PID): From Bench to Bedside</b>
9:00 – 9:05	<b>Opening of the 4<sup>th</sup> PID Course - Giovanni Romeo (IT) and Nima Rezaei (IR)</b>
9:05 – 9:40	<b>Introduction to the Genetics of the Calabria Greca - Giovanni Romeo (IT)</b>
9:40 – 10:15	<b>Bench to Bedside Approach to PIDs - Nima Rezaei (IR)</b>
10:15 – 11:00	<b>Newborn Screening for PIDs - Lennart Hammarstrom (SE)</b>
11:00 – 11:30	<b>Coffee Break</b>
11:30 – 12:15	<b>Autoimmune Cytopenias as a New Warning Sign of PID - Eleonora Gambineri (IT)</b>
12:15 – 13:00	<b>EBV-Associated PIDs - Kathleen Sullivan (USA)</b>
13:00 – 14:00	<b>Buffet Lunch</b>
14:00 – 14:45	<b>Keynote Speech “The Genetic Architecture of Autism” - Evan Eichler (USA)</b>
14:45 – 15:00	<b>The Possible Link(s) between PIDs and Autism – Cristina Panisi (IT)</b>

15:00 – 15:30	<b>Autism Research at the CNR Institutes of Reggio and Messina-</b> Alessandra Testa and Giovanni Pioggia (IT)
15:30 – 16:00	<b>Question and Answers for the Whole Session</b>
16:00 – 17:00	<b>Visit of posters with questions to authors attending their posters</b> <b>Free time up to 20:00 for a visit of the Museo Archeologico Nazionale and Bronzi di Riace with discount tickets and a guide</b>
<b>Day 3: Monday, November 12, 2018</b> <b>Diagnostic and Therapeutic Approaches for PIDs</b>	
9:00 – 9:45	<b>Trans-omics – beyond the Genetics of PIDs</b> - Lennart Hammarström (SE)
9:45 – 10:30	<b>New Horizons in Immunophenotyping for PID Diagnosis</b> - Mirjam van der Burg (NL)
10:30 – 11:15	<b>Early onset Inflammatory Bowel Disease</b> - Kathleen Sullivan (USA)
11:15 – 11:45	<b>Coffee Break</b>
11:45 – 12:30	<b>Primary Antibody Deficiencies: Update on Mechanisms, Diagnostics, and Therapeutics</b> - Vassilios Lougaris (IT)
12:30 – 13:15	<b>Gene Therapy for PIDs</b> - Alessandro Aiuti (IT)
13:15 – 14:00	<b>Immune Reconstitution after HSCT</b> - Eleonora Gambineri (IT)
14:00 – 15:00	<b>Buffet Lunch</b>
15:00 – 15:30	<b>Question and Answers for the Whole Session</b>
15:30 – 17:00	<b>Round Table Discussion on “Immunodeficienze e Vaccinazioni” (in Italian with the Participation of Local Patients, Families and Students)</b>
<b>Day 4: Tuesday, November 13, 2018</b> <b>Novel Primary Immunodeficiencies</b>	
9:00 – 9:45	<b>PID Related to Altered Actin Cytoskeleton Dynamics-</b> Loic Dupré (A)
9:45 – 10:30	<b>Mendelian Susceptibility to Mycobacterial Diseases</b> - Antonio Condino-Neto (BR)
10:30 – 11:15	<b>The pathogenic mechanisms of monogenic Autoinflammatory diseases</b> - Marco Gattorno (IT)
11:15 – 11:45	<b>Coffee Break</b>
11:45 – 12:30	<b>DNA Repair Failures in the Immune System</b> - Mirjam van der Burg (NL)
12:30 – 13:15	<b>Update on Autoinflammatory Diseases with Immunodeficiencies</b> - Marco Gattorno (IT)
13:15 – 13:45	<b>Question and Answers for the Whole Session</b>

13:45-14:45	<b>Buffet Lunch</b>
14:45 – 17:00	<b>USERN-PID Workshop: NGS Data Analysis: Strategies, technologies and pitfalls-</b> Craig Platt (USA)  <b>Free time up to 20:00 for a visit of the Museo Archeologico Nazionale and Bronzi di Riace with discount tickets and a guide</b>
<b>Day 5: Wednesday, November 14, 2018 Concluding Remarks</b>	
9:00 – 9:30	<b>Best Posters Presentations and Awards</b>
9:30 – 11:00	<b>PID Clinic organized by Francesca Ronco and Corrado Mammi with histories of patients from Calabria Greca</b>
11:00 – 11:45	<b>Immune Dysregulation: Mechanisms, Diagnostics, and Therapeutics -</b> Craig Platt (USA)
11:45 – 12:00	<b>Closing of the PID course</b>

### **FACULTY (related to the PID course)**

Alessandro Aiuti - Milan; Antonio Condino Neto – Sao Paulo; Francesco Cucca – Cagliari; Loic Dupré – Vienna; Evan Eichler – Seattle; Eleonora Gambineri – Florence; Marco Gattorno – Genoa; Lennart Hammarstrom – Stockholm; Vassilios Lougaris – Brescia; Giovanni Pioggia – Messina; Craig Platt – Boston; Nima Rezaei – Tehran; Giovanni Romeo – Reggio Calabria; Kathleen Sullivan - Philadelphia; Mirjam van der Burg – Rotterdam.

### **Streaming**

- 1. Celebration of the UNESCO World Day of Science for Peace and Development on November 10<sup>th</sup> morning:** webcasting for High Schools and for individuals or groups of individuals who want to connect themselves via Internet to <https://unirc.adobeconnect.com/usern2018> **The password for accessing the room is: usern2018rc**
- 2. The round table on Immunodeficiencies and Vaccinations** will be webcast always from the Università Mediterranea at **15:30 on Monday November 12<sup>th</sup>** with a discussion with patients and families of patients and all interested persons. **Rationale:** Patients with genetic or acquired immunodeficiencies are the most fragile people in the absence of the group protection provided by vaccinations. Students of a class of the "E. Amaldi " Lycaemum of Novi Ligure (Italy) who under the guidance of their Science teacher, Prof. Monica Lupori, a year ago vaccinated themselves to " protect" one of their mates who was immunodepressed, will participate in the discussion.

In case of failure of the streaming you can write to Mr. Francesco Mazzacuva: [francesco.mazzacuva@unirc.it](mailto:francesco.mazzacuva@unirc.it)  
TECHNICAL SERVICE - Università Mediterranea of Reggio Calabria - Phone +39 0965 1691465 | Mobile +39 3497494518

For more information and the detailed program please visit the site of the **European School of Generic Medicine: [www.eurogene.org](http://www.eurogene.org)**

**Università Mediterranea of Reggio Calabria, Italy, November 10<sup>th</sup>-14<sup>th</sup> , 2018**

## SCIENTIFIC AND ORGANISING COMMITTEE

**Sara Hanaei; Farzaneh Rahmani; Nima Rezaei; Giovanni Romeo; Alessandra Testa; Giovanni Tripepi.**

Tuition and fees: **Developing countries:** Juniors (<40 years old) € 250,00; Seniors € 350,00. **Other countries:** Juniors (<40 years old) € 350,00; Seniors € 450,00

**REGISTRATION:** [www.qol-one.org/usern\\_landing/](http://www.qol-one.org/usern_landing/)

Conference Secretariat: Roberta Siclari and Sabrina Vazzana [amministrazione@qol-one.org](mailto:amministrazione@qol-one.org)

## Additional information



Venue of the Università Mediterranea of Reggio Calabria, Salita Melissari, 89124 Reggio Calabria, Italy

<http://www.unirc.it/en/>

### 10 November, UNESCO World Science Day for Peace and Development

(<http://www.unesco.org/new/en/unesco/events/prizes-and-celebrations/celebrations/international-days/world-science-day-for-peace-and-development/>)

**USERN INTERNATIONAL AWARDS FOR JUNIOR SCIENTISTS** The Universal Scientific Education and Research Network (USERN <http://usern.tums.ac.ir/>) was inaugurated in 2015 aiming at the diffusion of science without

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borders through peaceful and humanitarian universal initiatives in the fields of education and research. Its membership includes some of the top 1% scientists from 21 scientific fields as advisory board members who manage and supervise the educational and research programs. There are more than 6,500 additional members from 65 countries. Thirteen Nobel Laureates and 340 top 1% scientists accepted to serve as advisory board members. The **USERN prize is made of five international awards, amounting to 5000 \$ each, which every year are bestowed upon junior researchers less than 40 years of age** for any novel advancement or achievement in scientific education, research, or serving the humanity in five fields, including formal sciences, physical sciences, biological sciences, medical sciences, and social sciences. The **International Festival for Awarding USERN prizes** is held every year on November 10<sup>th</sup> in the World Science Day for Peace and Development.

#### **4<sup>th</sup> International Festival of Pediatric Patients' Paintings (IFPPP)**

Children and adolescents with age of less than 18 years old, who were admitted in a hospital during their life, have been cordially invited to attend this festival and submit drawings inspired by their hospital experience. Two hundred selected drawings will be printed in the booklet of the Festival. The best 12 selected authors will be special guests in the Festival for the awards presentations on November 10.

**European School of Genetic Medicine:** [www.eurogene.org](http://www.eurogene.org)

Since 1988 more than 7000 young geneticists, in particular physicians and biologists, have been trained by the European School of Genetic Medicine (ESGM). They come to Italy from everywhere in Europe, from the Southern rim of the Mediterranean sea, from the Middle East and from all over the world. ESGM is recognized and sponsored with scholarships by many Universities across Europe, by the European Society of Human Genetics (ESHG) and by other scientific societies. ESGM is therefore having a tremendous impact on the practice and research in human/medical genetics far beyond Europe.

**Primary immunodeficiency diseases (PIDs)** <https://www.sciencedirect.com/topics/immunology-and-microbiology/primary-immunodeficiency>

PIDs are a heterogeneous group of inherited disorders with defects in one or more components of the immune system. Some of these disorders have a frequency of 10-fold higher the "Calabria Greca" with respect to other parts of Italy. Monogenic PID may provide unique opportunities to uncover the genetic bases and mechanisms of complex autoimmune disorders (AID), the study of which has already helped to unravel the pathways that drive autoimmunity. The PID course organized in conjunction with the annual USERN meeting addresses the need to increase awareness of these conditions worldwide and also to define the resource requirements for diagnosis, genetic counseling and treatment.

#### **Calabria Greca**

<http://calabriagreca.eu/> <https://grecanica.net/> <http://www.galareagrecanica.it/> <https://grecanica.net/>  
<http://www.galareagrecanica.it/>

**ISASI: CNR Institute for Research on Autism** <http://www.messina.isasi.cnr.it/>

**IFC: Clinical Physiology Institute of CNR:** [www.ifc.cnr.it/index.php/it/le-sedi-secondarie/reggio-calabria](http://www.ifc.cnr.it/index.php/it/le-sedi-secondarie/reggio-calabria)

**Bronzi di Riace (Riace's Warriors) at the Museo Archeologico Nazionale di Reggio Calabria**

[https://simple.wikipedia.org/wiki/Riace\\_bronzes](https://simple.wikipedia.org/wiki/Riace_bronzes)

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## X conoscenza di Alessio

Modifiche : il titolo nella brochure in alto a sinistra diventa

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In basso a destra resta uguale Reggio Calabria ecc.

### Suggerimenti di Nima

What I can suggest is as follow:

"**Autoimmune Cytopenias as a New Warning Sign of PID** - Eleonora Gambineri (IT)" could be moved to Nov 11, 11:30-12:15 (If Eleonora is available from the 1st day!)

"**Newborn Screening for PIDs** - Lennart Hammarstrom (SE)" could be moved to Nov 11, 10:15-11:00

"**DNA Repair Failures in the Immune System** - Mirjam van der Burg (NL)" could be moved to Nov 13, 11:45-12:30

Best regards,  
Nima

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