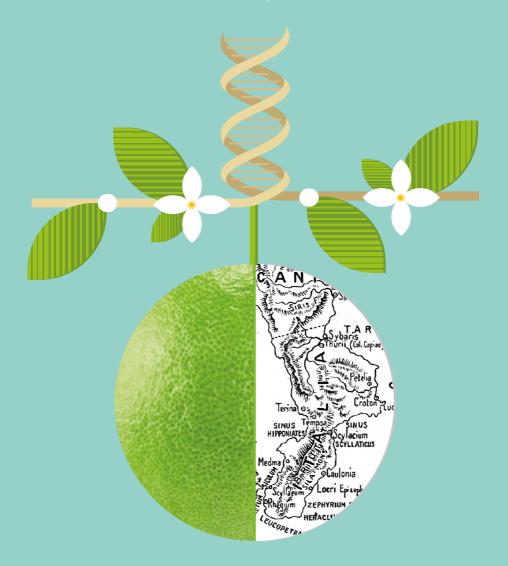
## The USERN 2018 Congress and Prize Awarding Festival ESGM Course on Primary Immunodeficiencies



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

## Welcome to Reggio and to Calabria Greca

The population of Calabria Greca (http://calabriagreca.eu/) s part of the Metropolitan City of Reggio Calabria and nas been the subject for more than a century of linguistic studies (G. Rolphs, Lexicon Graecanicum Italiae Inferioris, 1964), and more recently archaeological (**uuuu.arch.cam**. **ac.uk/research/projects/bova-marina**) as well as genetic studies (Sarno, S. et al. : Ancient and recent admixture layers n Sicily and Southern Italy. 2017). All these studies agree in attributing the origin of the population of Calabria Greca to migrations preceding the classical era of Greek expansion which led to the birth of Magna Grecia.

From the medical point of view Calabria Greca is characterized by a much higher prevalence than in other parts of Italy of a group of hereditary disorders due to defects in one or more components of the immune system called primary immunodeficiencies (PID) which are a neterogeneous group of inherited diseases involving one or more components of the immune system. The best known of these diseases is Mediterranean Familial Fever (FMF) frequently diagnosed in Calabria and Sicily along with other Recurrent Periodic Fevers. Each single monogenic PID (such as FMF) thus offers unique opportunities to discover the genetic causes and mechanisms that lead to the onset of complex autoimmune and autoinflammatory disorders and therefore to contribute to the advancement of scientific knowledge in the field of autoimmunity.

The high incidence of PID in the Calabria Greca represented the main motivation for the European School of Genetic Medicine (ESGM) to join efforts with USERN and Prof Nima Rezaei, who is a world expert on PID, and organize the USERN annual meeting and the subsequent PID course in Reggio Calabria which aims at increasing awareness of these conditions worldwide and also to define the resource requirements for their diagnosis, genetic counseling and treatment.

> Giovanni Romeo M.D. European School of Genetic Medicine(шиш.eurogene.org)

## Шеlcome to USERN 2018 and the PID course

Nima Rezaei, MD, PhD bunding President of LISERN (http://usern.net)

## Saturday, November 10<sup>th</sup>

30 O	Registration	of Partici	рапt

- 9:30 O Italian National Anthem with the Choir of the Leonardo da Vinci Lycaeum 🕞
- 9:35 O Welcome to Calabria by the Rector of the Mediterranea University on the occasion of the UNESCO World Science Day for Peace and Development
- 9:40 O Welcome by the Local Institutional Representatives the Mayor of the Città Metropolitana; the President of the Regional Council; the Principal of the Leonardo da Vinci Lycaeum; the President of the Court of Appeal of Reggio Calabria who will introduce the next keynote speaker
- 10:00 O Science between Rule of Law, Securitγ and Peace Marco Lombardo (IT)
  - O The artist Gerardo Sacco will honor an Emeritus Judge of Calabria with one of his jewels 🗩
- 11:00 O Musical Intermission by the Choir of the L. da Vinci Lycaeum 🕞
- 11:20 O Model Genetic Studies in a Sardinian Isolated Population and their Return for Autoimmune-Autoinflammatorγ Disorders ► | Francesco Cucca (IT)
- 12:10 O The Cultural Legacγ of L. Luca Cavalli-Sforza (1922-2018) Francesco Cavalli-Sforza (IT)
- 12:45 O 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 ►
  Speech by the Founding USERN President - Nima Rezaei (IR)
  - USERN Introductory Clip and Introduction of USERN 2019 Host
- 13:50 O Lunch and walk through the Mediterranea University venue

## Saturday, November 10<sup>th</sup>

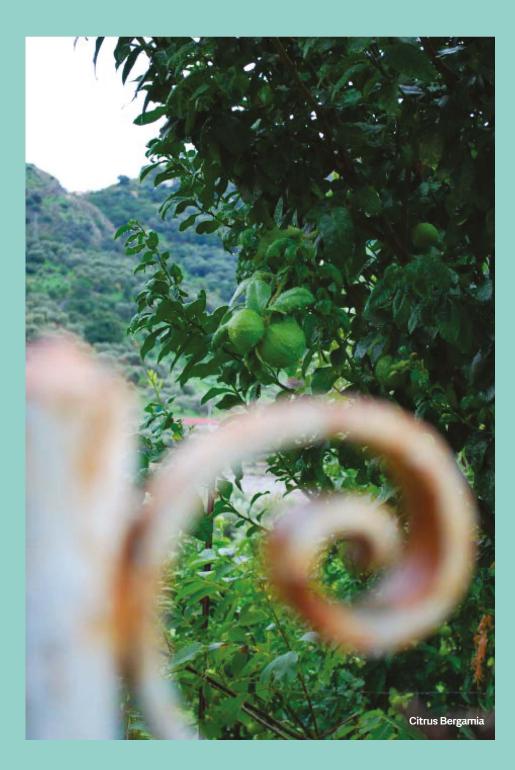
<b>Multidisciplinarγ Collaborations</b>   Kathleen Sullivan (USA)
) <b>To Drive the Science toшard Peace: шith or шithout</b> <b>Нитапs?</b>   Massimo Cappaccioli (IT)
<b>Putting Quantum Paradoxes to Work</b>   Jacob D Biamonte (USA)
) Barocaloric materials for environmentally friendly refrigeration   Xavier Моүа (ШК)
) The Human Connectome   Alex Fornito (ALI)
) <b>The diabetic bone marroш: a novel chronic complication of diabetes</b>   Gian Paolo Fadini (IT)
) <b>Шisdom in an uncertain шorld</b>   Igor Grossmann (CA)
) <b>Break and Preparation for IFPPP Festival</b> - Musical Intermission bγ the Band of the Leonardo da Vinci Lγcaeum
) Amarding the Prizes of the 4th International Festival of Paintings for Pediatric Patients
) Closing of USERN Festival and UNESCO World Science Day

#### Шеbcasting available

Шеbcasting for High Schools and for individuals or groups of individuals шho шant to connect themselves via Internet to

https://unirc.adobeconnect.com/usern2018

	Sunday, November 11 <sup>th</sup> Primary Immunodeficiencies (PID): From Bench to Bedside
9:00	<b>Opening of the 4th FID Course</b> Giovanni Romeo (IT) and Nima Rezaei (IR)
9:05	<b>Introduction to the Genetics of the Calabria Greca</b> Giovanni Romeo (IT)
9:40	Вепсh to Bedside Approach to PIDs   Nima Rezaei (IR)
10:15	<b>Αυτοίππυπe Cγtopenias as a New Шarning Sign of PID</b> Eleonora Gambineri (IT)
11:00	Coffee Break
11:30	Nemborn Screening for PIDs   Lennart Hammarstrom (SE
12:15	EBV-Associated PIDs   Kathleen Sullivan (USA)
13:00	Buffet Lunch
14:00	<b>Κεγποte Speech "The Genetic Architecture of Autism"</b> Evan Eichler (USA)
14:45	<b>The Possible Link(s) betшeen PIDs and Autism</b>   Cristina Panisi (IT)
15:00	Autism Research at the CNR Institutes of Reggio and Messina   Alessandra Testa and Giovanni Pioggia (IT)
15:30	Questions and Answers for the Шhole Session
16:00	Visit of posters with questions to authors attending the posters
	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>Μοπdaγ, November 12</b> <sup>th</sup> Diagnostic and Therapeutic Approaches for PIDs
:00	<b>Trans-omics – beγond the Genetics of PIDs</b> Lennart Hammarström (SE)
:45	<b>Neш Horizons in Immunophenotγping for PID Diagnosis</b> Mirjam van der Burg (NL)
:30	<b>Early onset Inflammatory Boшel Disease</b> Kathleen Sullivan (USA)
:15	Coffee Break
:45	<b>Primary Antibody Deficiencies: Update on Mechanisms,</b> <b>Diagnostics, and Therapeutics</b>   Vassilios Lougaris (IT)
:30	<b>Gene Therapγ for PIDs  </b> Alessandro Ai⊔ti (IT)
8:15	Immune Reconstitution after HSCT   Eleonora Gambineri (i
:00	Buffet Lunch
:00	Questions and Answers for the Whole Session
:30	Round Table Discussion on "Immunodeficienze e Vaccinazioni" () (in Italian with the Participation of Local Patients, Families and Students)

#### Шеbcasting available

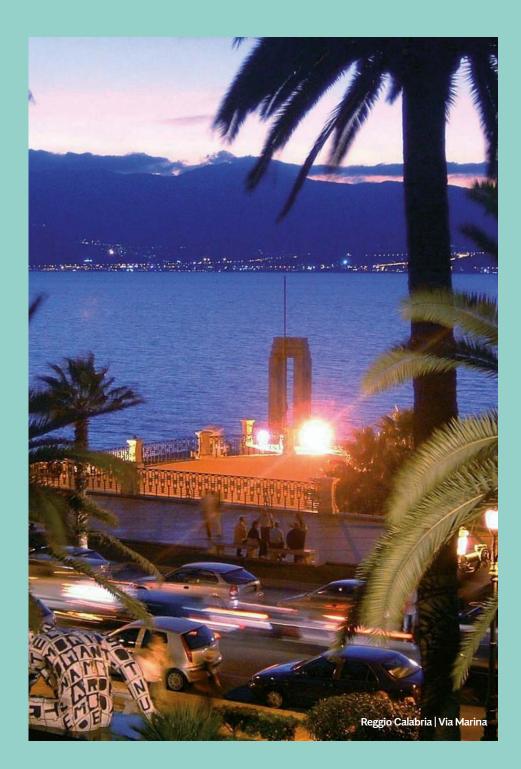
The round table on Immunodeficiencies and Vaccinations will be webcast always from the Università Mediterranea at 15:30 on Monday November 12<sup>th</sup> with a discussion with patients and families of patients and all interested persons. Rationale: Patients with genetic or acquired immunodeficiencies are the most fragile people in the absence of the group protection provided by vaccinations. Students of a class of the "E. Amaldi" Lycaeum 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. https://unirc.adobeconnect.com/usern2018 The password for accessing the room is: usern2018rc

#### Tuesday, November 13<sup>th</sup> Novel Primary Immunodeficiencies

- 9:00 O DNA Repair Failures in the Immune System Mirjam van der Burg (NL)
- :45 O FID Related to Altered Actin Cytoskeleton Dynamics Loic Dupré (A)
- 10:30 O Mendelian Susceptibility to Mycobacterial Diseases Аптопіо Condino-Neto (BR)
- 11:15 **O Coffee Break**
- 11:45 O The pathogenic mechanisms of monogenic Autoinflammatorγ diseases | Marco Gattorno (IT)
- 12:30 O Update on Autoinflammatorγ Diseases with Immunodeficiencies | Marco Gattorno (IT)
- 13:15 O Questions and Answers for the Whole Session
- 3:45 伩 Buffet Lunch
- 4:45 O USERN-PID Workshop: NGS Data Analγsis Craig Platt (USA)
  - Free time up to 20:00 for a visit of the Museo Archeologico Nazionale and Bronzi di Riace with discount tickets and a guide

**Шedпesday, November 14**<sup>th</sup> Concluding Remarks

- 9:00 O Best Posters Presentations and Awards
  - 30 O PID Clinic organized by Francesca Ronco and Corrado Mammi with histories of patients from Calabria Greca
  - :00 O Immune Dysregulation: Mechanisms, Diagnostics, and Therapeutics | Craig Platt (USA)
- 1:45 O Closing of the PID course



#### 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 Cristina Panisi | Pavia Giovanni Pioggia | Messina Craig Platt | Boston Nima Rezaei | Tehran Giovanni Romeo | Reggio Calabria Kathleen Sullivan | Philadelphia Mirjam van der Burg | Rotterdam

## Scientific and organising commitee

Sara Hanaei Farnaz Delavari Farzaneh Rahmani Nima Rezaei Giovanni Romeo Alessandra Testa

### Location

Mediterranea University of Reggio Calabria Salita Melissari, 89124 Reggio Calabria, Italy шиш.unirc.it/en/

## Additional Information

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

шшш.unesco.org/пеш/еп/unesco/events/prizes-andcelebrations/celebrations/international-days/шorldscience-day-for-peace-and-development/

#### LISERN INTERNATIONAL ALIARDS FOR JUNIOR

**SCIENTISTS** The Universal Scientific Education and Research Network USERN (**usern.tums.ac.ir**/) was inaugurated in 2015 aiming at the diffusion of science without 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 8.000 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 10th in the World Science Day for Peace and Development.

# 4th 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 authors will be special guests in the Festival for the awards presentations on November 10.

## Additional Information

**European School of Genetic Medicine 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)

шшш.sciencedirect.com/topics/immunology-andnicrobiology/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 10-folds higher n 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

alabriagreca.eu | grecanica.net | galareagrecanica.it

ISASI: CNR Institute for Research on Autism www.messina.isasi.cnr.it/

IFC: Clinical Phγsiologγ Institute of CNR шшш.ifc.cnr.it/index.php/it/le-sedi-secondarie/reggiocalabria

Bronzi di Riace (Riace's Warriors) at the Museo Archeologico Nazionale di Reggio Calabria https://simple.wikipedia.org/wiki/Riace\_bronzes



#### Organizing Secretariat



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