

**New technological approaches to the study of patients with IEI: from  
the whole organism to single cell**  
17th International Symposium on Inborn Errors of Immunity  
Balboa Bay Resort, Newport Beach, California  
October 28-29, 2022

(Details regarding registration and hotel accommodation at [www.fpid.org](http://www.fpid.org))

**ORGANIZERS:** Jean-Laurent Casanova, Sudhir Gupta, Luigi Notarangelo

October 28<sup>th</sup>, 2022

**SESSION I**

(Co-Chairs: Luigi Notarangelo, Jacques Fellay)

- 8:30 AM Welcome and Introduction- **Sudhir Gupta**  
8:45 AM **Thomas A Waldmann Memorial Award Lecture -Gerard Orth (France)**  
-Inborn errors of intrinsic immunity and epidermodysplasia verruciformis:  
How non-pathogenic betapapilloma viruses can cause skin cancers.  
9:30 AM **Mark DAVIS (Stanford):** New approaches to study immunity in humans  
10:10 AM Systems-level analyses of newborn immune system- **Petter Brodin  
(Sweden)**
- 10:50 Coffee Break**
- 11:10 **Lennart Hammarstrom (Sweden)--** Genomic-based newborn screening  
for inborn errors of immunity  
11:50 **Zhijian Chen-William E Paul Memorial Award lecture:** Enemy Within -  
How cGAS Ignites Immune and Autoimmune Responses to DNA

**12:40-2:00 Lunch**

**SESSION II**

(Co-Chairs: Dan Kastner, Petter Brodin)

- 2:00 **Luigi Notarangelo (NIH)-** Multi-omics dissection of SARS-CoV-2 infection  
in childhood  
3:00 **Shen-Ying ZHANG (New York):** The human genetic and immunological basis  
of MIS-C  
3:40 **Lorenz STUDER (New York):** iPSC-based study of inborn errors of  
neurons  
4:20 **Jacques Fellay (Lausanne, Switzerland):** Inborn errors of immunity:  
beyond monogenic lesions

5:00 Adjourn

**October 29, 2022**

**SESSION III**

(Co-Chairs: Zhijian Chen, Allesandro Auiti)

8:30 **Lluis Quintana-Murci (Paris):** A single-cell view of the genetic and evolutionary factors driving human immune response variation to viruses

9:10 **Jean-Laurent Casanova:** From inborn errors of immunity to common determinants of infectious diseases

9:50 **Tomohiro Morio (Japan)** -Whole-Exome Sequencing-Based Approach for Germline Mutations

**10:30 Coffee Break**

10:50 **Alexandre Yahoo (France)**-monogenic lupus / IFN

11:30 **Filmomeen Haerynck (Belgium)**- A novel player in viral sensing by transcribing host-derived RIG-I ligands

**12:10 LUNCH**

**SESSION IV**

(Co-Chairs: Lennart Hammarstrom, Isabelle Meyts)

1:30 Hematopoietic and thymic defects of T cell development”-**Luigi Notarangelo**

2:10 **Alessandro Auiti (Italy)**-Gene Therapy

2:40 **Matt Porteus** -Genome Editing for PIDs: Working through the Catalog

3:10 **Summary- Jean-Laurent Casanova**

**3:15 ADJOURN**