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Conference organized by Bambino Gesù Children's Hospital



International Society for Pediatric Innovation www.ispi4kids.org













THE CONFERENCE IS ORGANIZED IN FOUR SESSIONS DEDICATED TO MAJOR THEMES

OMICS AND PERSONALIZED MEDICINE: a session dedicated to understand how genomics and the link between geno- and phenotypes can help in making a diagnosis, predicting and choosing the optimal therapy. The ultimate tools for treating genetic diseases and overcoming the frontiers of traditional medicine in complex syndromes will be discussed. Finally, speakers will focus on personalized therapies, metagenomics and system medicine.

BIG DATA AND DIGITAL INTEGRATION: we will discuss about how to deal with multiple data streams for pediatric care and how to simulate heart surgery with virtual reality and with 3D printing. We will present data on the application of artificial intelligence to image analysis. Finally we will approach how to get the best from continuous follow up in patients with diabetes and other chronic diseases.

THE PATIENTS AND PARTICIPATORY MEDICINE: we will discover how patients can be engaged in a powerful partnership with researchers and clinicians and inspire innovations in healthcare. We will focus on quantified self, patient platforms and patient autonomy and how patients can digitally communicate. Finally we will approach the challenge of data privacy and data protection from the patient's point of view.

THE INNOVATION CYCLE IN PEDIATRICS: we will host a competition between innovative solutions for pediatrics from a selection of start-ups. We will discuss about how to systematically apply the principles of innovation and how the interactions between clinic, research, and industry can fertilize innovation in pediatrics.

CONFERENCE PRESIDENT

Bruno Dallapiccola (Italy)

CHAIR OF THE SCIENTIFIC COMMITTEE

Alberto Eugenio Tozzi (Italy)

SCIENTIFIC COMMITTEE

Anthony C. Chang (USA) Pietro Derrico (Italy) Jorge Juan Fernandez Garcia (Spain) Franco Locatelli (Italy) Kathleen McGreevy (Italy) Lorenzo Moretta (Italy) Edwin Morley-Fletcher (Italy) Paolo Rossi (Italy) Stefano Cianfarani (Italy) Walter Ricciardi (Italy) Marco Tartaglia (Italy) Andrew Taylor (UK)

FACULTY MEMBERS

Alessandro Aiuti (Italy) Anna Alisi (Italy) Antonio Amodeo (Italv) Roberto Ascione (Italy) Tadej Battelino (Slovenia) Luca Borro (Italy) Filippo Buccella (Italy) Christina Bucci-Rechtweg (USA) Caterina Buonocore (Italy) Simone Cicero (Italy) Filippo Cipriani (Italy) Anthony C. Chang (USA) David Cole (UK) Giovanni Corsello (Italy) Dennis Costello (Spain) Bruno Dallapiccola (Italy) Marisa de Rosa (Italy) Saskia N. de Wildt (Netherlands) Antonio Del Vecchio (Italy) Raffaele Dallacà (Italy) Joel Dorè (France) Angelo Failla (Italy) Sherry N. Farrugia (USA) Jorge Juan Fernandez Garcia (Spain) Claudio Fracasso (Italy) Cesare Furlanello (Italy) Gianfranco Gensini (Italy) Liesbet Geris (Belgium) Lisa Gualtieri (USA) Stefano Gustincich (Italy)

Mark Hoffman (USA) Alessandro Inserra (Italy) Julian Isla (Spain) Nicholas Katsanis (USA) Alastair Kent (UK) Sheila Khawaja (Italy) Narendra Kini (USA) Marius George Linguraru (USA) Franco Locatelli (Italy) Andrea Maggioni (USA) Melania Manco (Italy) Alberto Martini (Italy) Spyro Mousses (USA) Emanuele Neri (Italy) Wiro Niessen (Netherlands) Lucia Pannese (Italy) Mark Peters (UK) Alessandro Pierobon (Italy) Walter Quattrociocchi (Italy) Andrew Taylor (UK) Alberto Eugenio Tozzi (Italy) Walter Ricciardi (Italy) Luca Ruggeri (Italy) Ivana Schnur (USA) Aurelio Secinaro (Italy) Effy Vayena (Switzerland) Stefano Vella (Italy) Maria Luisa Ventura (Italy) Alberto Villani (Italy) Patrick Zuber (Switzerland)

WEDNESDAY, SEPTEMBER 20TH, 2017 ROOM: AUDITORIUM

12:30 - 13:00	Conference opening Mariella Enoc, Bambino Gesù Children's Hospital, Rome, Italy
	THE-OMICS AND PERSONALIZED MEDICINE
13:00 - 13:15	Introduction Bruno Dallapiccola, Bambino Gesù Children's Hospital, Rome, Italy
13:15 - 13:45	Undiagnosed diseases and disease gene discovery Nicholas Katsanis, Center for Human Disease Modelling, Duke University, Durham, USA
13:45 - 14:15	Gene therapy for inherited disorders Alessandro Aiuti, San Raffaele Scientific Institute, Milan, Italy
14:15 - 14:45	Personalized cancer therapy Franco Locatelli, Bambino Gesù Children's Hospital, Rome, Italy
14:45 - 15:15	COFFEE BREAK
15:15 - 15:45	Microbiota for health: using metagenomics in pediatrics Joel Dorè, French National Institute for Agricultural Research, Paris, France
15:45 - 16:45	Precision or personalization? Integrating - omics in pediatrics Anna Alisi, Bambino Gesù Children's Hospital, Rome, Italy Stefano Gustincich, International School for Advanced Studies, Trieste, Italy Mark Hoffman, Children's Mercy Hospital, Kansas City, USA
17:00 - 19:00	WELCOME COCKTAIL

8

WEDNESDAY, SEPTEMBER 20TH, 2017 ROOM: SATELLITE ROOM

DEMO SESSIONS AND PARTICIPANT INTERACTIONS

13:15 - 14:00	Serious games in pediatrics: examples from neuro-rehabilitation and cystic fibrosis Lucia Pannese, imaginary, Milan, Italy
14:00 - 14:45	3D printing for surgical planning Alessandro Inserra, Aurelio Secinaro, Luca Borro, Bambino Gesù Children's Hospital, Rome, Italy
14:45 - 15:15	COFFEE BREAK
15:15 - 16.45	Recycle health: wearable activity tracker Lisa Gualtieri, Tufts University, Boston, USA
	Telemonitoring in children with cardiac implantable devices Antonio Amodeo, Bambino Gesù Children's Hospital, Rome, Italy
	Questions and free interaction with presenters

17:00 - 19:00 WELCOME COCKTAIL

9

THURSDAY, SEPTEMBER 21ST, 2017 ROOM: AUDITORIUM

BIG DATA AND DIGITAL INTEGRATION

08:00 - 08:15	Introduction Liesbet Geris, Virtual Physiological Human Institute for Integrative Biomedical Research, Leuven, Belgium
08:15 - 09:15	Big data in practice: a how to guide Spyro Mousses, Sharon Disney Lund Medical Intelligence and Innovation Institute, Orange County, USA Mark Peters, Great Ormond Street Hospital, London, UK Marisa de Rosa, CINECA, Bologna, Italy Cesare Furlanello, Bruno Kessler Foundation, Trento, Italy
09:15 - 09:45	Images, words and data: the promises of radiomics Emanuele Neri, University of Pisa, Pisa, Italy Wiro Niessen, Erasmus MC, Rotterdam, Netherlands
09:45 - 10:15	COFFEE BREAK
10:15 - 10:45	Modelling and printing in 3D for a better surgery in pediatric heart diseases Andrew Taylor, Great Ormond Street Hospital, London, UK
10:45 - 11:15	Application of artificial intelligence in pediatrics Anthony C. Chang, CHOC Children's Hospital, Orange County, USA
11:15 - 11:45	Big data or smart data? How to get advantage of remote monitoring in chronic patients Tadej Battelino, University of Ljubljana, Ljubljana, Slovenia
12:00 - 13:00	LUNCH

10

THURSDAY, SEPTEMBER 21ST, 2017 ROOM: SATELLITE ROOM

DEMO SESSIONS AND PARTICIPANT INTERACTIONS

08:15 - 09:45	Tracking lifestyles for preventing and treating obesity in children Melania Manco, Bambino Gesù Children's Hospital, Rome, Italy
	Personalized telemonitoring Ivana Schnur, Sense.ly, San Francisco, USA
	A platform for families of patients with Dravet syndrome Julian Isla, Dravet Syndrome Foundation, Madrid, Spain
09:45 - 10:15	COFFEE BREAK
10:15 - 11:45	Platform design: an innovation tool for national health systems Luca Ruggeri, Simone Cicero, Rome, Italy
	Innovative techniques for pediatric surgery Marius George Linguraru, Sheikh Zayed Institute for Pediatric Surgical Innovation, Washington, USA
	Questions and free interaction with presenters
12:00 - 13:00	LUNCH
13:00 - 13:15	From research projects to innovation: perspectives in the Horizon 2020 program and other international programs Caterina Buonocore, Agency for the Promotion of European Research, Rome, Italy

THURSDAY, SEPTEMBER 21ST, 2017 ROOM: AUDITORIUM

THE PATIENTS AND PARTICIPATORY MEDICINE

13:00 - 13:15	Introduction Alberto Villani, Bambino Gesù Children's Hospital, Rome, Italy
13:15 - 14:00	The role of patient communities in accelerating research and improving care Denis Costello, EURORDIS, Barcelona, Spain Alastair Kent, Genetic Alliance, London, UK Filippo Buccella, EUPATI, Rome, Italy David Cole, Thinkingofoscar, UK
14:00 - 14:45	Monitoring chronic diseases through data platforms managed by patients Julian Isla, Dravet Syndrome Foundation, Madrid, Spain Ivana Schnur, Sense.ly, San Francisco, USA Jorge Juan Fernandez Garcia, Hospital San Juan de Dèu, Barcelona, Spain Gianfranco Gensini, Italian Telemedicine Association, Florence, Italy
14:45 - 15:15	COFFEE BREAK
15:15 - 16:15	Digital communication tools and strategies for patients and patient organizations Lisa Gualtieri, Tufts University, Boston, USA Sheila Khawaja, Patient Advocate, Trieste, Italy Roberto Ascione, Healthware International, Salerno, Italy Alessandro Pierobon, Ogilvy & Mather, Milan, Italy

12

THURSDAY, SEPTEMBER 21ST, 2017 ROOM: SATELLITE ROOM

SELECTED ABSTRACT PRESENTATIONS

13:15 - 13:30	In silico clinical trials for pediatric orphan diseases: a congenital pseudarthrosis case study Liesbet Geris, University of Liège, Liège, Belgium
13:30 - 13:45	Unravelling the role of Ambra1 in pediatric brain tumors Francesca Nazio, Bambino Gesù Children's Hospital, Rome, Italy
13:45 - 14:00	Mini-invasive approach in pediatric epatobiliary and pancreatic surgery: new technology application for challanging surgery Roberta Angelico, Bambino Gesù Children's Hospital, Rome, Italy
14:00 - 14:15	Cost-effectiveness of whole exome sequencing to solve the unsolved: an italian pilot study Francesca Clementina Radio, Bambino Gesù Children's Hospital, Rome, Italy
14:15 - 14:30	Rapid sequencing improves the diagnosis and treatment of infants in the NICU Luca Brunelli, University of Utah School of Medicine, Utah, USA
14:30 - 14:45	Earliest functional signatures of human gut microbiomes reflect birth model Lutz Bindl, Centre Hospitalier de Luxembourg, Luxembourg, Luxembourg
14:45 - 15:15	COFFEE BREAK
15:15 - 15:30	Building a predictive score of vaccination response from a transcriptomic approach: forging the path towards personalized immunization

Nicola Cotugno, Bambino Gesù Children's Hospital, Rome, Italy

THURSDAY, SEPTEMBER 21ST, 2017 ROOM: AUDITORIUM

16:15 - 17:15	Tailoring health information to public needs: what about vaccines? Alberto E. Tozzi, Bambino Gesù Children's Hospital, Rome, Italy Patrick Zuber, WHO Vaccine Safety, Geneva, Switzerland Walter Quattrociocchi, IMT School for Advanced Studies, Lucca, Italy Walter Ricciardi, National Health Institute, Rome, Italy	
17:15 - 17:45	Who owns the data? Ethics and challenges in the era of big data Effy Vayena, University of Zurich, Zurich, Switzerland	
18:00 - 19:30	iSPI MEETING By invitation only	

THURSDAY, SEPTEMBER 21ST, 2017 ROOM: SATELLITE ROOM

15:30 - 15:45	FC-FEV1: new app patient oriented. The cystic fibrosis case study Irene Tagliente, University of Rome 'La Sapienza', Rome, Italy
15:45 - 16:00	Patient expert in the clinical centre Paola Kruger, S. Camillo Hospital, Rome, Italy
16:00 - 16:15	Storytime: in-home automatic assessment for speech and language development in young children Yao Du, Cognoa, LLC + University of California, Irvine, USA
16:15 - 16:30	Developing a cognitive hospital Darren Gates, Alder Hey Children's Hospital, Liverpool, UK
16:30 - 16:45	Matching clinical trials with patients: global EHR based patient recruitment Luis Magalhaes, Clinerion Ltd, Basel, Switzerland
16:45 - 17:00	Cavatica: sharing and analyzing pediatric data on the cloud Michele Mattioni, Seven Bridges UK, London, UK

FRIDAY, SEPTEMBER 22ND, 2017 ROOM: AUDITORIUM

THE INNOVATION CYCLE IN PEDIATRICS

08:00 - 08:15	Introduction Stefano Vella, Italian Medicine Agency, Rome, Italy
08:15 - 09:15	OPBG Award Innovation in Pediatrics 2017 A pitch competition offering a project collaboration with Bambino Gesù Children's Hospital to start-ups involved in the development of health products
09:15 - 10:00	From research to innovation: innovation center or innovation network? Andrea Maggioni, Nicklaus Children's Hospital, Miami, USA Sherry N. Farrugia, Georgia Tech, Atlanta, USA Saskia N. de Wildt, Radboud University, Nijmegen, The Netherlands Jorge Juan Fernandez Garcia, Hospital San Juan de Dèu, Barcelona, Spain
10:00 - 10:30	Cultivating pediatric innovation ecosystems Narendra Kini, Nicklaus Children's Hospital, Miami, USA
10:30 - 11:15	The role of Industry in innovation in pediatrics Angelo Failla, IBM Foundation Filippo Cipriani, Sanofi Genzyme Claudio Fracasso, Pfizer Christina Bucci-Rechtweg, Novartis Pharmaceuticals Corporation Alberto E. Tozzi, Bambino Gesù Children's Hospital, Rome, Italy
11:15 - 11:45	COFFEE BREAK
11:45 - 12:30	Innovation in pediatrics in Italy Giovanni Corsello, University of Palermo, Palermo, Italy Raffaele Dallacà, Politecnico di Milano, Milan, Italy Antonio del Vecchio, Department of Women's and Children's Health, Bari, Ita Alberto Martini, Giannina Gaslini Institute, Genoa, Italy Maria Luisa Ventura, San Gerardo Hospital, Monza, Italy
12:30 - 13:00	The global perspective of pediatric innovation Anthony C. Chang, CHOC Children's Hospital, Orange County, USA
13:00 - 13:15	OPBG Award Innovation in Pediatrics 2017 Ceremony

Italy

Mr. See.



GENERAL INFORMATION

CONFERENCE VENUE

Auditorium Antonianum Viale Manzoni, 1 - Rome, Italy

ORGANIZING SECRETARIAT REGISTRATION DESK OPENING HOURS

September 20th, 2017	11:30 - 19:00
September 21st, 2017	07:00 - 19:30
September 22nd, 2017	07:00 - 13:15

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POSTER LIST

ID 005 - THE UTILIZATION OF PATIENT PORTALS IN A PEDIATRIC CLINIC: A PILOT SCREENING REVIEW

C. Pillai; H. Lantigua; S. Lugo; K. Velez; A. Shah; M. Rivera; N. Rubio; M. Yafi; R. Yetman

ID 011 - DYNAMIC MONITORING OF MONOCYTE HLA-DR EXPRESSION AS PREDICTOR OF OUTCOME IN CHILDREN WITH ACUTE BACTERIAL MENINGI-TIS AND MENINGOCOCCEMIA

C. Aydın Kaya; F. Genel; C. B. Erdur; E Ozbek; I. Devrim

ID 014 - OPBG UNDIAGNOSED CLINIC: REPORT OF THE FIRST SIX MONTHS OF ACTIVITIES

A. Bartuli; F. C. Radio; M. Macchiaiolo; B. Dallapiccola

ID 015 - KEY LEARNINGS FROM A PATIENT ADVISORY BOARD MEETING AND NEW WAYS TO BRING PATIENT CENTRICITY IN THE DEVELOPMENT AND LIFECYCLE OF MEDICINES

V. dos Reis Ferreira

ID 016 - THE «UNDIAGNOSED PATIENTS PROGRAM» @ OPBG

M. Tartaglia; S. Barresi; A. Bruselles; A. Ciolfi; M. L. Dentici; M. Niceta; F. Pantaleoni; S. Pizzi; F.C. Radio; M. Macchiaiolo; A. Masotti; M. Trivisano; A. Capuano; R. Carrozzo; L. Travaglini; G. Zanni; A. D'Amico; A. Baban; R. Cutrera; G. Zambruno; G. Torre; C. Dionisi-Vici; N. Specchio; A. Novelli; A. Bartuli; M.C. Digilio; E. Bertini; B. Dallapiccola

ID 017 - MORE THAN A GAME: HOW SERIOUS GAMES CAN FIGHT PEDIATRIC CANCER

H. Oliveira; N. Patraquim; H. Lima

ID 018 - TRANSPLANTCHILD, AN EUROPEAN STRATEGY TO ATTEND "THE SECONDARY RARE DISEASE" INDUCED BY PAEDIATRIC TRANSPLANTATION

E. Frauca; E. López-Granados; A. Pérez-Martinez; F. Hernandez; J. M.Torres; M. Tejedor; A. Coloma; J. Cobas; P. Jara; on behalf of TRANSPLANT-CHILD

ID 019 - INFANT MOTOR DEVELOPMENT BETWEEN 0-4 MONTHS: A NEW LOOK AT THE EFFECT OF THE 'BACK TO SLEEP' PROGRAM E. Wiliams; B. Eldridge; M. Galea

ID 020 - ADDRESSING PATIENTS NEEDS IN INTESTINAL INSUFFICIENCY – BENEFITS OF NETWORKING

J. Amil-Dias; G. Prieto-Bozano; E. Ramos; P. Guerra; E. Trindade; C. Espinheira

ID 022 - HYPOGLYCEMIA DUE TO GROWTH HORMONE DEFICIENCY IN A CHILD WITH ACHONDROPLASIA

C. Pillai; A. Shah; N. Rubio; D. Rodriguez-Buritica; M. Yafi ID 023 - A FEMALE WITH KALLMAN SYNDROME

S. Lugo; A. Shah; D. Rodriguez-Buritica; M. Rivera-Davila; M. Yafi

ID 025 - THE DAPHNE PROJECT

G. Cinelli; T. Lobstein; T. Silva; C. Gibbons; G. Bailador; R. Ram; A. Palomares Pérez; H. Schwietert; O. Kudrautsevae; M. Manco for the DAPHNE Project Consortium

ID 034 - QUALITY OF LIFE IN PATIENTS WITH CYSTIC FIBROSIS

N. Kolarova-Yaneva; P. Kolarov; N. Yanev; V. Nedkova

ID 035 - GENETIC SUSCEPTIBILITY TO HASHIMOTO'S THYROIDITIS. A CLINI-CAL REPORT ON TWIN GIRLS WITH PRIMARY MICROCEPHALY AND ACQUI-RED HASHIMOTO THYROIDITIS

P. Pavone; R. Falsaperla; A. D. Praticò; M. Piccione

ID 037 - THE IMPORTANCE OF ECHOCARDIOGRAPHIC AND BIOCHEMICAL PARAMETERS FOR OUTCOME OF PERINATAL ASPHYXIA

M.Vasiljevic; V. Vukomanovic; S.Prijic; Z. Rakonjac; J. Martic; K. Pejic; G. Markovic

ID 039 - THE "LACTARIUM" IN THE ENTERAL FEEDING OF PRETERM NEW-BORN: THE EXPERIENCE OF NEONATOLOGY UNIT OF ST.JOHN HOSPITAL IN ROME

G. Maragliano; A. Di Paolo; P. Caterini; A. Gallo; M. R. Lucignani

ID 044 - LESS X-RAYS, BETTER DIAGNOSTICS

P. Kruczek; P. Szymanski; A. Sobczak; P. Kwinta

ID 045 - EARLY ADVERSITY, TOXIC STRESS AND SOCIO-EMOTIONAL DEVELOPMENT DURING CHILDHOOD: HOW EPIGENETIC PROCESSES CONTRIBUTE TO SHAPING PRETERM INFANTS DEVELOPMENT L. Provenzi; R. Montirosso

ID 049 - EHEALTH & MHEALTH APPLICATION FOR COMORBIDITY STUDY I. Tagliente; S. Bella; R. Schiaffini; M.Chinari; V. Lucidi

ID 051 - INTEGRATED GENETIC ANALYSIS: HARNESSING THE POWER OF NGS

A. Obregon-Tito; C. Lee; J. Li; M. Teguh; Y. Shen

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