

***PERFORM consortium authors list***

### PARTNER: IMPERIAL COLLEGE (UK)

Chief investigator/PERFORM coordinator:

Michael Levin

Principal and co-investigators; work package leads (alphabetical order)

Aubrey Cunnington (grant application)

Tisham De (work package lead)

Jethro Herberg (Principle Investigator, Deputy Coordinator, grant application)

Myrsini Kaforou (grant application, work package lead)

Victoria Wright (grant application, Scientific Coordinator)

Research Group (alphabetical order)

Lucas Baumard; Evangelos Bellos; Giselle D’Souza; Rachel Galassini; Dominic Habgood-Coote; Shea Hamilton; Clive Hoggart; Sara Hourmat; Heather Jackson; Ian Maconochie; Stephanie Menikou; Naomi Lin; Samuel Nichols; Ruud Nijman; Ivonne Pena Paz; Priyen Shah; Ching-Fen Shen; Ortensia Vito; Clare Wilson

Clinical recruitment at Imperial College Healthcare NHS Trust (alphabetical order))

Amina Abdulla; Ladan Ali; Sarah Darnell; Rikke Jorgensen; Sobia Mustafa; Salina Persand

Imperial College Faculty of Engineering

Molly Stevens (co-investigator), Eunjung Kim (research group); Benjamin Pierce (research group)

Clinical recruitment at Brighton and Sussex University Hospitals

Katy Fidler (Principle Investigator)

Julia Dudley (Clinical Research Registrar)

Research nurses: Vivien Richmond, Emma Tavliavini

Clinical recruitment at National Cheng Kung University Hospital

Ching-Fen Shen (Principal Investigator); Ching-Chuan Liu (Co-investigator); Shih-Min Wang (Co-investigator), funded by the Center of Clinical Medicine Research, National Cheng Kung University

**SERGAS Partner (Spain)**

Principal Investigators

Federico Martinón-Torres1

Antonio Salas1,2

GENVIP RESEARCH GROUP (in alphabetical order):

Fernando Álvez González1, Cristina Balo Farto1, Ruth Barral-Arca1,2, María Barreiro Castro1, Xabier Bello1,2, Mirian Ben García1, Sandra Carnota1, Miriam Cebey-López1, María José Curras-Tuala1,2, Carlos Durán Suárez1, Luisa García Vicente1, Alberto Gómez-Carballa1,2, Jose Gómez Rial1, Pilar Leboráns Iglesias1, Federico Martinón-Torres1, Nazareth Martinón-Torres1, José María Martinón Sánchez1, Belén Mosquera Pérez1, Jacobo Pardo-Seco1,2, Lidia Piñeiro Rodríguez1, Sara Pischedda1,2, Sara Rey Vázquez1, Irene Rivero Calle1, Carmen Rodríguez-Tenreiro1, Lorenzo Redondo-Collazo1, Miguel Sadiki Ora1, Antonio Salas1,2, Sonia Serén Fernández1, Cristina Serén Trasorras1, Marisol Vilas Iglesias1.

1 Translational Pediatrics and Infectious Diseases, Pediatrics Department, Hospital Clínico Universitario de Santiago, Santiago de Compostela, Spain, and GENVIP Research Group (www.genvip.org), Instituto de Investigación Sanitaria de Santiago, Universidad de Santiago de Compostela, Galicia, Spain.

2 Unidade de Xenética, Departamento de Anatomía Patolóxica e Ciencias Forenses, Instituto de Ciencias Forenses, Facultade de Medicina, Universidade de Santiago de Compostela, and GenPop Research Group, Instituto de Investigaciones Sanitarias (IDIS), Hospital Clínico Universitario de Santiago, Galicia, Spain

3 Fundación Pública Galega de Medicina Xenómica, Servizo Galego de Saúde (SERGAS), Instituto de Investigaciones Sanitarias (IDIS), and Grupo de Medicina Xenómica, Centro de Investigación Biomédica en Red de Enfermedades Raras (CIBERER), Universidade de Santiago de Compostela (USC), Santiago de Compostela, Spain

**RSU Partner (Latvia)**

Principal Investigator

Dace Zavadska1,2

Other RSU group authors (in alphabetical order):

Anda Balode1,2, Arta Bārzdiņa1,2, Dārta Deksne1,2, Dace Gardovska1,2, Dagne Grāvele2, Ilze Grope1,2, Anija Meiere1,2, Ieva Nokalna1,2, Jana Pavāre1,2, Zanda Pučuka1,2, Katrīna Selecka1,2, Aleksandra Sidorova1,2, Dace Svile2, Urzula Nora Urbāne1,2.

1 Riga Stradins university, Riga, Latvia.

2 Children clinical university hospital, Riga, Latvia.

**Medical Research Council Unit The Gambia (MRCG) at LSHTM Partner**

**Principal Investigator**

Effua Usuf

**Additional Investigators**

Kalifa Bojang

Syed M. A. Zaman

Fatou Secka

Suzanne Anderson

Anna RocaIsatou Sarr

Momodou Saidykhan

Saffiatou Darboe

Samba Ceesay

Umberto D’alessandro

Medical Research Council Unit The Gambia at LSHTM

P O Box 273,

Fajara, The Gambia

**ERASMUS MC-Sophia Children’s Hospital**

Principal Investigator

Henriëtte A. Moll¹

Research group

Dorine M. Borensztajn¹, Nienke N. Hagedoorn, Chantal Tan ¹, ¹, Clementien L. Vermont², Joany Zachariasse ¹

Additional investigator

W Dik 3

¹ Erasmus MC-Sophia Children’s Hospital, Department of General Paediatrics, Rotterdam, the Netherlands

² Erasmus MC-Sophia Children’s Hospital, Department of Paediatric Infectious Diseases & Immunology, Rotterdam, the Netherlands

3 Erasmus MC, Department of immunology, Rotterdam, the Netherlands

**Swiss Pediatric Sepsis Study**

**Principal Investigators*:***

Philipp Agyeman, MD 1 (ORCID 0000-0002-8339-5444), Luregn J Schlapbach, MD, FCICM 2,3 (ORCID 0000-0003-2281-2598)

**Clinical recruitment at University Children’s Hospital Bern for PERFORM:**

Christoph Aebi 1, Verena Wyss 1, Mariama Usman 1

**Principal and co-investigators for the Swiss Pediatric Sepsis Study:**

Philipp Agyeman, MD 1, Luregn J Schlapbach, MD, FCICM 2,3, Eric Giannoni, MD 4,5, Martin Stocker, MD 6, Klara M Posfay-Barbe, MD 7, Ulrich Heininger, MD 8, Sara Bernhard-Stirnemann, MD 9, Anita Niederer-Loher, MD 10, Christian Kahlert, MD 10, Giancarlo Natalucci, MD 11, Christa Relly, MD 12, Thomas Riedel, MD 13, Christoph Aebi, MD 1, Christoph Berger, MD 12 **for the Swiss Pediatric Sepsis Study**

**Affiliations:**

1 Department of Pediatrics, Inselspital, Bern University Hospital, University of Bern, Switzerland

2 Neonatal and Pediatric Intensive Care Unit, Children’s Research Center, University Children’s Hospital Zurich, University of Zurich, Zurich, Switzerland

3Child Health Research Centre, University of Queensland, and Queensland Children`s Hospital, Brisbane, Australia

4 Clinic of Neonatology, Department Mother-Woman-Child, Lausanne University Hospital and University of Lausanne, Switzerland

5 Infectious Diseases Service, Department of Medicine, Lausanne University Hospital and University of Lausanne, Switzerland

6 Department of Pediatrics, Children’s Hospital Lucerne, Lucerne, Switzerland

7 Pediatric Infectious Diseases Unit, Children’s Hospital of Geneva, University Hospitals of Geneva, Geneva, Switzerland

8 Infectious Diseases and Vaccinology, University of Basel Children’s Hospital, Basel, Switzerland

9 Children’s Hospital Aarau, Aarau, Switzerland

10 Division of Infectious Diseases and Hospital Epidemiology, Children’s Hospital of Eastern Switzerland St. Gallen, St. Gallen, Switzerland

11 Department of Neonatology, University Hospital Zurich, Zurich, Switzerland

12 Division of Infectious Diseases and Hospital Epidemiology, and Children’s Research Center, University Children’s Hospital Zurich, Switzerland

13 Children’s Hospital Chur, Chur, Switzerland

**Liverpool Partner**

Principal Investigators

Enitan D Carrol1,2,3

Stéphane Paulus 1,

Research Group (in alphabetical order):

Elizabeth Cocklin1, Rebecca Jennings4, Joanne Johnston4, Simon Leigh1, Karen Newall4, Sam Romaine1

1 Department of Clinical Infection, Microbiology and Immunology, University of Liverpool Institute of Infection and Global Health , Liverpool, England

2 Alder Hey Children’s Hospital, Department of Infectious Diseases, Eaton Road, Liverpool, L12 2AP

3 Liverpool Health Partners, 1st Floor, Liverpool Science Park, 131 Mount Pleasant, Liverpool, L3 5TF

4Alder Hey Children’s Hospital, Clinical Research Business Unit, Eaton Road, Liverpool, L12 2AP

**NKUA Partner (Greece)**

Principal investigator: Professor **Maria Tsolia** (all activities)

Investigator/Research fellow: **Irini Eleftheriou** (all activities)

Additional investigators:

Recruitment: Maria Tambouratzi

Lab: Antonis Marmarinos (Quality Manager)

Lab: Marietta Xagorari

Kelly Syggelou

2nd Department of Pediatrics, National and Kapodistrian University of Athens,

“P. and A. Kyriakou” Children’s Hospital

Thivon and Levadias

Goudi, Athens

**Micropathology Ltd :**

Principal Investigator:

Professor Colin Fink1, Clinical Microbiologist

Additional investigators

Dr Marie Voice1, Post doc scientist

Dr. Leo Calvo-Bado1, Post doc scientist

1 Micropathology Ltd, The Venture Center, University of Warwick Science Park, Sir William Lyons Road, Coventry, CV4 7EZ.

**Medical University of Graz, Austria (MUG)**

Principal Investigator:

Werner Zenz1 (all activities)

Co-investigators (in alphabetical order)

Benno Kohlmaier1 (all activities)

Nina A. Schweintzger1 (all activities)

Manfred G. Sagmeister1 (study design, consortium wide sample management)

Research team

Daniela S. Kohlfürst1 (study design)

Christoph Zurl1 (BIVA PIC)

Alexander Binder1 (grant application)

Recruitment team, data managers, (in alphabetical order):

Susanne Hösele1, Manuel Leitner1, Lena Pölz1, Glorija Rajic1,

Clinical recruitment partners (in alphabetical order):

Sebastian Bauchinger1, Hinrich Baumgart4, Martin Benesch3, Astrid Ceolotto1, Ernst Eber2, Siegfried Gallistl1, Gunther Gores5, Harald Haidl1, Almuthe Hauer1, Christa Hude1, Markus Keldorfer5, Larissa Krenn4, Heidemarie Pilch5, Andreas Pfleger2, Klaus Pfurtscheller4, Gudrun Nordberg5, Tobias Niedrist8, Siegfried Rödl4, Andrea Skrabl-Baumgartner1, Matthias Sperl7, Laura Stampfer5, Volker Strenger3, Holger Till6, Andreas Trobisch5, Sabine Löffler5

Author Affiliations:

1 Department of Pediatrics and Adolescent Medicine, Division of General Pediatrics, Medical University of Graz, Graz, Austria

2Department of Pediatric Pulmonology, Medical University of Graz, Graz, Austria

3Department of Pediatric Hematooncoloy, Medical University of Graz, Graz, Austria

4Paediatric Intensive Care Unit, Medical University of Graz, Graz, Austria

5University Clinic of Paediatrics and Adolescent Medicine Graz, Medical University Graz, Graz,Austria

6Department of Paediatric and Adolescence Surgery, Medical University Graz, Graz, Austria

7Department of Pediatric Orthopedics, Medical University Graz, Graz, Austria

8Clinical Institute of Medical and Chemical Laboratory Diagnostics, Medical University Graz, Graz, Austria

**London School of Hygiene and Tropical Medicine**

**WP 1 WP2, WP5**

Principal Investigator:

Dr Shunmay Yeung1,2 3 PhD, MBBS, FRCPCH, MRCP, DTM&H

Research Group

Dr Juan Emmanuel Dewez1 MD, DTM&H, MSc

Prof Martin Hibberd 1 BSc, PhD

Mr David Bath2 MSc, MAppFin, BA(Hons)

Dr Alec Miners2 BA(Hons), MSc, PhD

Dr Ruud Nijman3 PhD MSc MD MRCPCH

Dr Catherine Wedderburn1 BA, MBChB, DTM&H, MSc, MRCPCH

Ms Anne Meierford1 MSc, BMedSc, BMBS

Dr Baptiste Leurent4, PhD, MSc

1. Faculty of Infectious and Tropical Disease, London School of Hygiene and Tropical Medicine, London, UK
2. Faculty of Public Health and Policy, London School of Hygiene and Tropical Medicine, London, UK
3. Department of Paediatrics, St. Mary’s Hospital Imperial College Hospital, London, UK
4. Faculty of Epidemiology and Population Health, London School of Hygiene and Tropical Medicine, London, UK

**Radboud University Medical Center (RUMC),** **The Netherlands**

Principal Investigators:

Ronald de Groot 1, Michiel van der Flier 1,2,3, Marien I. de Jonge1

Co-investigators Radboud University Medical Center (in alphabetical order):

Koen van Aerde1,2, Wynand Alkema1, Bryan van den Broek1, Jolein Gloerich1, Alain J. van Gool1, Stefanie Henriet1,2, Martijn Huijnen1, Ria Philipsen1, Esther Willems1

Investigators PeDBIG PERFORM DUTCH CLINICAL NETWORK (in alphabetical order):

G.P.J.M. Gerrits8, M. van Leur8, J. Heidema 4,L. de Haan1,2 C.J. Miedema 5, C. Neeleman 1 C.C. Obihara 6, G.A. Tramper-Stranders76

1. Radboud University Medical Center, Nijmegen, The Netherlands
2. Amalia Children’s Hospital, Nijmegen, The Netherlands
3. Wilhelmina Children’s Hospital, University Medical Center Utrecht, Utrecht, The Netherlands
4. St. Antonius Hospital, Nieuwegein, The Netherlands
5. Catharina Hospital, Eindhoven, The Netherlands
6. ETZ Elisabeth, Tilburg, The Netherlands
7. Franciscus Gasthuis, Rotterdam, The Netherlands
8. Canisius Wilhelmina Hospital, Nijmegen, The Netherlands

**Oxford team (UK)**

Principal Investigators

Andrew J. Pollard1,2, Rama Kandasamy1,2, Stéphane Paulus 1,2

Additional Investigators

Michael J. Carter1,2, Daniel O'Connor1,2, Sagida Bibi1,2, Dominic F. Kelly1,2, Meeru Gurung3, Stephen Thorson3, Imran Ansari3, David R. Murdoch4, Shrijana Shrestha3, Zoe Oliver5

Author Affiliations:

1Oxford Vaccine Group, Department of Paediatrics, University of Oxford, Oxford, United Kingdom.

2NIHR Oxford Biomedical Research Centre, Oxford, United Kingdom.

3Paediatric Research Unit, Patan Academy of Health Sciences, Kathmandu, Nepal.

4Department of Pathology, University of Otago, Christchurch, New Zealand.

5 Department of Paediatrics, University of Oxford.

**Newcastle University, Newcastle upon Tyne, (UK)**

Principal Investigator:

Marieke Emonts 1,2,3 (all activities)

Co-investigators

Emma Lim2,3,7 (all activities)

Lucille Valentine4

Recruitment team (alphabetical), data-managers, and GNCH Research unit:

Karen Allen5, Kathryn Bell5, Adora Chan5, Stephen Crulley5, Kirsty Devine5, Daniel Fabian5, Sharon King5, Paul McAlinden5, Sam McDonald5, Anne McDonnell2,5, Ailsa Pickering2,5, Evelyn Thomson5, Amanda Wood5, Diane Wallia5, Phil Woodsford5,

Sample processing: Frances Baxter5, Ashley Bell5, Mathew Rhodes5

PICU recruitment

Rachel Agbeko8

Christine Mackerness8

Students MOFICHE

Bryan Baas2, Lieke Kloosterhuis2, Wilma Oosthoek2

Students/medical staff PERFORM

Tasnim Arif6, Joshua Bennet2, Kalvin Collings2, Ilona van der Giessen2, Alex Martin2, Aqeela Rashid6, Emily Rowlands2, Gabriella de Vries2, Fabian van der Velden2

Engagement work/ethics/cost effectiveness

Lucille Valentine 4, Mike Martin9, Ravi Mistry2, Lucille Valentine4

Author Affiliations:

1 Translational and Clinical Research Institute, Newcastle University, Newcastle upon Tyne UK

2Great North Children’s Hospital, Paediatric Immunology, Infectious Diseases & Allergy, Newcastle upon Tyne Hospitals NHS Foundation Trust, Newcastle upon Tyne, United Kingdom.

3NIHR Newcastle Biomedical Research Centre based at Newcastle upon Tyne Hospitals NHS Trust and Newcastle University, Westgate Rd, Newcastle upon Tyne NE4 5PL, United Kingdom

4Newcastle University Business School, Centre for Knowledge, Innovation, Technology and Enterprise (KITE), Newcastle upon Tyne, United Kingdom

5Great North Children’s Hospital, Research Unit, Newcastle upon Tyne Hospitals NHS Foundation Trust, Newcastle upon Tyne, United Kingdom.

6Great North Children’s Hospital, Paediatric Oncology, Newcastle upon Tyne Hospitals NHS Foundation Trust, Newcastle upon Tyne, United Kingdom.

7Population Health Sciences Institute, Newcastle University, Newcastle upon Tyne, UK

8Great North Children’s Hospital, Paediatric Intensive Care Unit, Newcastle upon Tyne Hospitals NHS Foundation Trust, Newcastle upon Tyne, United Kingdom.

9Northumbria University, Newcastle upon Tyne, United Kingdom.

**LMU Munich Partner (Germany)**

Principal Investigator:

Ulrich von Both1,2 MD, FRCPCH (all activities)

Research group:

Laura Kolberg¹ MSc (all activities)

Manuela Zwerenz¹ MSc, Judith Buschbeck¹ PhD

Clinical recruitment partners (in alphabetical order):

Christoph Bidlingmaier3, Vera Binder4, Katharina Danhauser5, Nikolaus Haas10, Matthias Griese6, Tobias Feuchtinger4, Julia Keil9, Matthias Kappler6, Eberhard Lurz7, Georg Muench8, Karl Reiter9, Carola Schoen9

Author Affiliations:

¹Div. Paediatric Infectious Diseases, Hauner Children’s Hospital, University Hospital, Ludwig Maximilians University (LMU), Munich, Germany

2German Center for Infection Research (DZIF), Partner Site Munich, Munich, Germany

3Div. of General Paediatrics, 4Div. Paediatric Haematology & Oncology, 5Div. of Paediatric Rheumatology, 6Div. of Paediatric Pulmonology, 7Div. of Paediatric Gastroenterology, 8Neonatal Intensive Care Unit, 9Paediatric Intensive Care Unit Hauner Children’s Hospital, University Hospital, Ludwig Maximilians University (LMU), Munich, Germany, 10Department Pediatric Cardiology and Pediatric Intensive Care, University Hospital, Ludwig Maximilians University (LMU), Munich, Germany

**bioMérieux, France**

Principal Investigator:

François Mallet1,2, 3

Research Group:

Karen Brengel-Pesce1,2, 3

Alexandre Pachot1

Marine Mommert1,2

*1Open Innovation & Partnerships (OIP), bioMérieux S.A., Marcy l'Etoile, France*

*2Joint research unit Hospice Civils de Lyon - bioMérieux, Centre Hospitalier Lyon Sud, 165 Chemin du Grand Revoyet, 69310 Pierre-Bénite, France*

*3EA 7426 Pathophysiology of Injury-induced Immunosuppression, University of Lyon1-Hospices Civils de Lyon-bioMérieux, Hôpital Edouard Herriot, 5 Place d’Arsonval, 69437 Lyon Cedex 3, France*

**Department of Infectious Diseases, University Medical Centre Ljubljana, Slovenia**

Principal Investigator:

Marko Pokorn1,2,3 MD, PhD

Research Group:

Mojca Kolnik1 MD, Katarina Vincek1 MD, Tina Plankar Srovin1 MD, PhD, Natalija Bahovec1 MD, Petra Prunk1 MD, Veronika Osterman1 MD, Tanja Avramoska1 MD

Affiliations:

1Department of Infectious Diseases, University Medical Centre Ljubljana, Japljeva 2, SI-1525 Ljubljana, Slovenia

2University Childrens' Hospital, University Medical Centre Ljubljana, Ljubljana, Slovenia

3Department of Infectious Diseases and Epidemiology, Faculty of Medicine, University of Ljubljana, Slovenia

**Amsterdam, Academic Medical Hospital & Sanquin Research Institute (NL)**

Principal Investigator:

Taco Kuijpers 1,2

Co-investigators

Ilse Jongerius 2

Recruitment team (EUCLIDS, PERFORM):

J.M. van den Berg1, D. Schonenberg1, A.M. Barendregt1, D. Pajkrt1, M. van der Kuip1,3, A.M. van Furth1,3

Students PERFORM

Evelien Sprenkeler 2, Judith Zandstra 2,

Technical support PERFORM

G. van Mierlo 2, J. Geissler 2

Author Affiliations:

1 Amsterdam University Medical Center (Amsterdam UMC), location Academic Medical Center (AMC), Dept of Pediatric Immunology, Rheumatology and Infectious Diseases, University of Amsterdam, Amsterdam, the Netherlands

2 Sanquin Research Institute, & Landsteiner Laboratory at the AMC, University of Amsterdam, Amsterdam, the Netherlands.

3 Amsterdam University Medical Center (Amsterdam UMC), location Vrije Universiteit Medical Center (VUMC), Dept of Pediatric Infectious Diseases and Immunology, Free University (VU), Amsterdam, the Netherlands (former affiliation)