



## Childhood Infection

# What are we learning from Genomic approaches



**Public Engagement Conference**

**14<sup>th</sup> September, 2018  
Hotel Bergs, 83-85 Elizabets Street,  
RIGA, LV-1050 Latvia**

### **Coordinators**

Prof. Mike Levin; Imperial College London, United Kingdom  
Prof. Dace Zavadska, Riga Stradins University, Latvia  
PERFORM Consortium (<http://www.perform2020.eu>)



## PERFORM – Personalised Management of Febrile Illness

### Public Engagement Session

**Summary:** The management of febrile patients is one of the most common and important problems facing healthcare providers. Distinction between bacterial infections and trivial viral infection on clinical grounds is unreliable and, as a result, innumerable patients worldwide undergo hospitalisation, invasive investigation and are treated with antibiotics for presumed bacterial infection when, in fact, they are suffering from self-resolving viral infection.

Throughout its five year span, PERFORM has been developing a comprehensive management plan for febrile patients, capable of being rolled out in different healthcare systems across Europe, by linking sophisticated new genomic and proteomic approaches to careful clinical phenotyping and building on pilot data from previous studies.

This session will give you an overview of the project’s current activities as well as presenting exciting data and results that have been accomplished by the research groups involved in the consortium.

Time	Sessions
9:00 – 9:15	Welcoming words, <i>Speaker to be confirmed from Riga Stradins University</i> PERFORM Project – Overview and Impact, <i>Dr. Mike Levin (Imperial College)</i>
9:15 – 10:30	<b>Why do children get infection – The role of Genetics:</b> <ul style="list-style-type: none"> <li>- Factor H Susceptibility to Bacterial Infection, <i>Dr. Martin Hibberd (London School of Hygiene and Tropical Medicine), Dr. Clive Hoggart (Imperial College)</i></li> <li>- Rare Mendelian defects and susceptibility to infection, <i>Dr. Vanessa Sancho-Shimizu (Imperial College)</i></li> <li>- Exome Sequencing to reveal role of rare variants in infection, <i>Dr. Evangelos Bellos (Imperial College)</i></li> <li>- The role of genetic control of severity in bacterial infection, <i>Dr. Clive Hoggart (Imperial College)</i></li> </ul>
10:30 – 11:50	<b>What has been learned about current patterns of infectious diseases in the EU</b> <i>Chair: Frederico Martinon-Torres (Hospital Clínico Universitario de Santiago de Compostela)</i> <ul style="list-style-type: none"> <li>- Diagnosis of childhood Infection by RNA expression, <i>Dr. Myrsini Kaforou (Imperial College)</i></li> <li>- Diagnosis of childhood infection by molecular pathogen detection, <i>Dr. Jethro Herberg (Imperial College), Dr. Leo Calvo-Bado (Micropathology)</i></li> <li>- Proteomic approaches for diagnosis of infection, <i>Dr. Marien de Jonge (Radboudumc)</i></li> </ul>
11:50 – 12:20	<b>What has molecular and proteomic approaches told us about pathogenesis:</b> <ul style="list-style-type: none"> <li>• Of TB, <i>Dr Ulrich von Both (Ludwig-Maximilians University of Munich)</i></li> <li>• Of Malaria, <i>Dr Aubrey Cunningham (Imperial College)</i></li> </ul>
12:20 – 13.00	<b>“Research on childhood infection - What is needed, What have we learned” – Roundtable Discussion</b>