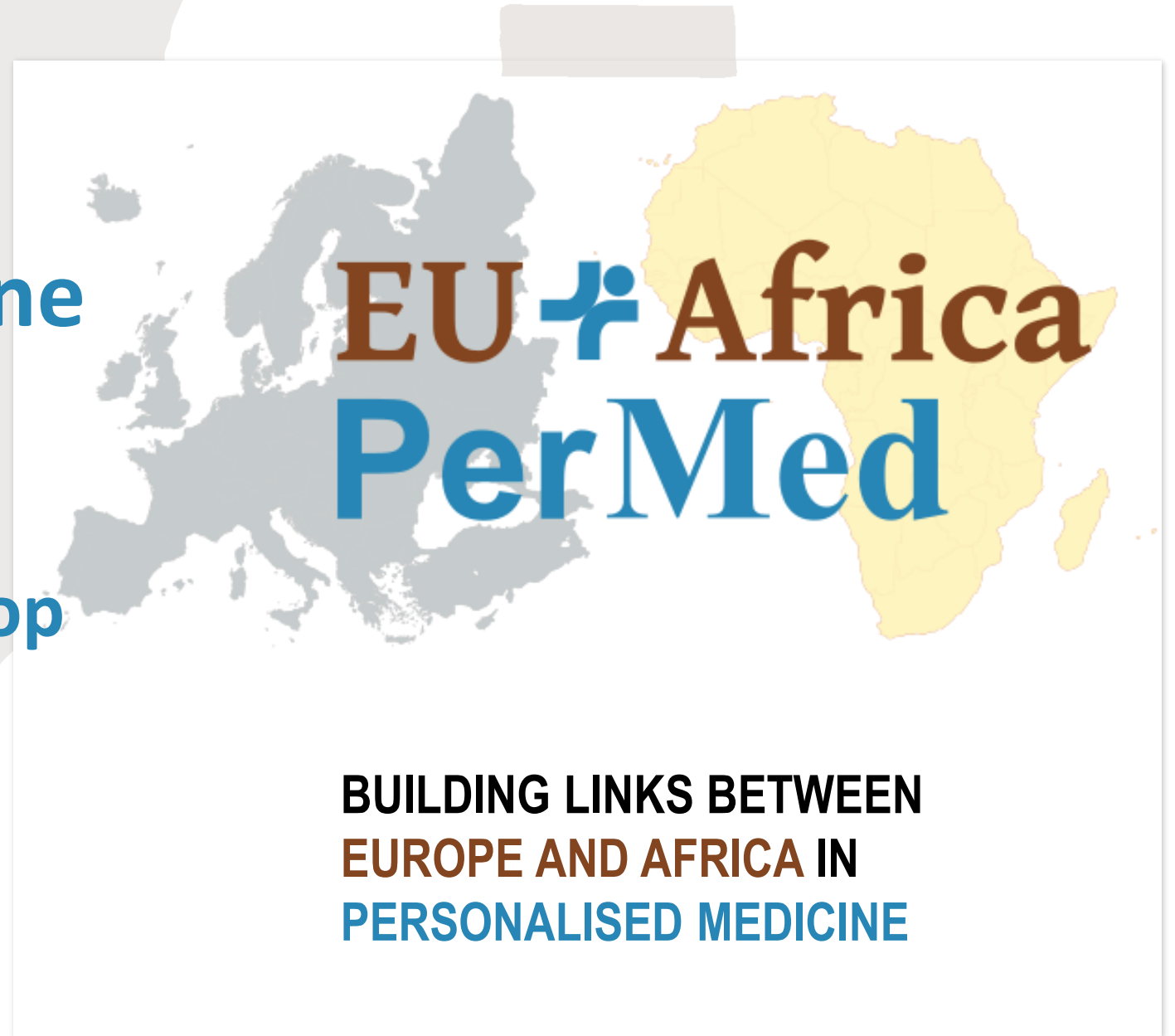


Africa's Areas of Mutual Interest in Personalised Medicine

2nd Stakeholder Workshop

Rizwana Mia (SAMRC)
EU-Africa PerMed Project

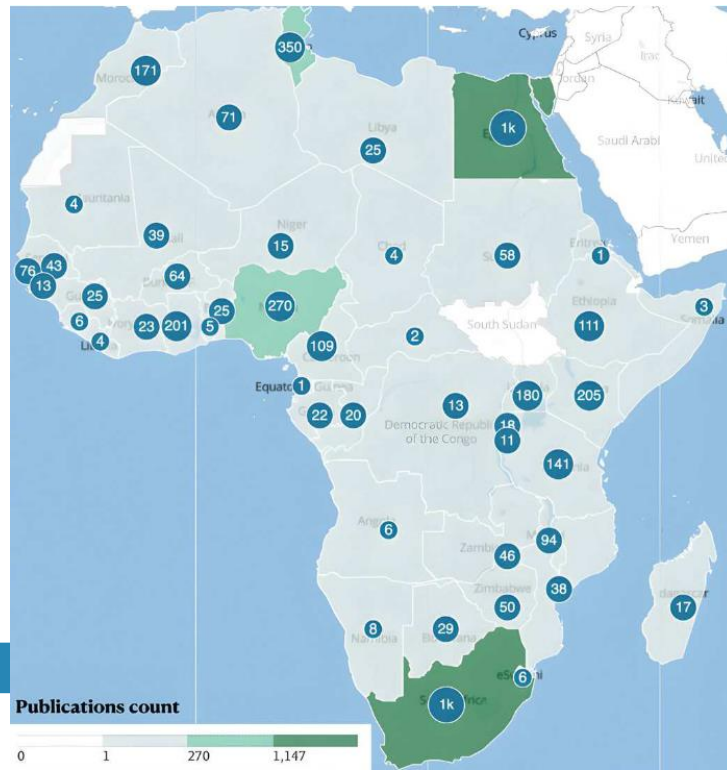


EU-Africa PerMed has received funding from the European Union's Horizon 2020 Research and Innovation programme under grant agreement No 964333

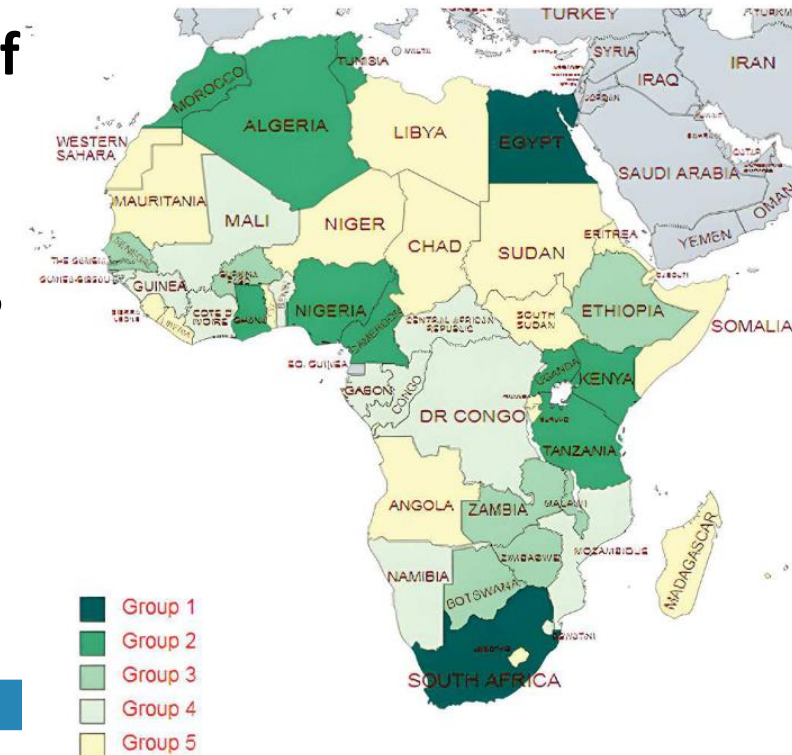
Mapping the landscape in Africa

- **D2.1. Report:** [*Mapping the scientific and policy landscape of PM in Africa*](#)
- **D2.2. Report:** [*The EU-AFRICA PerMed stakeholder mapping report*](#)
- **D2.4. Policy Brief:** [*Opportunities to Advance Personalised Medicine in Africa*](#)

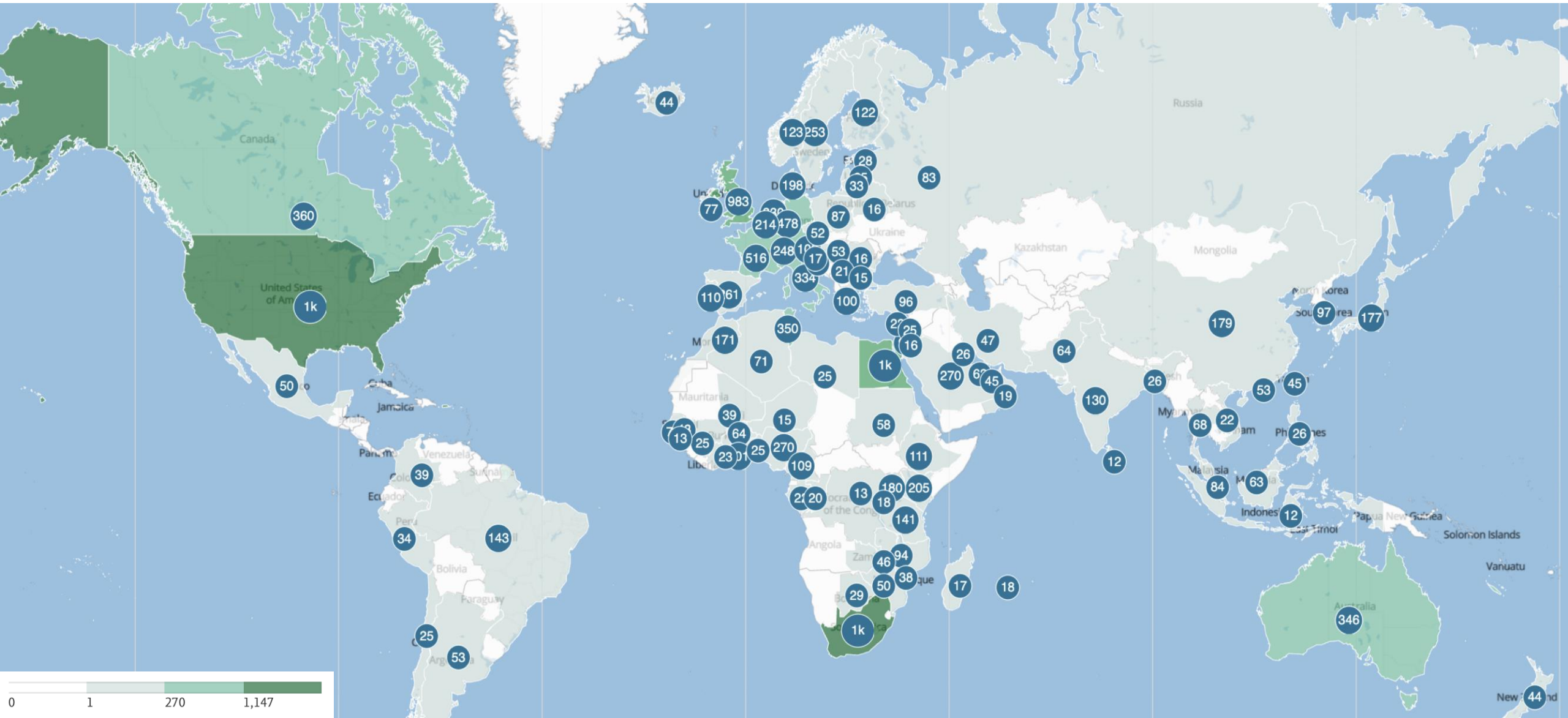
Publications



Different Level of Adaption and implementation PM/Genomics capacities



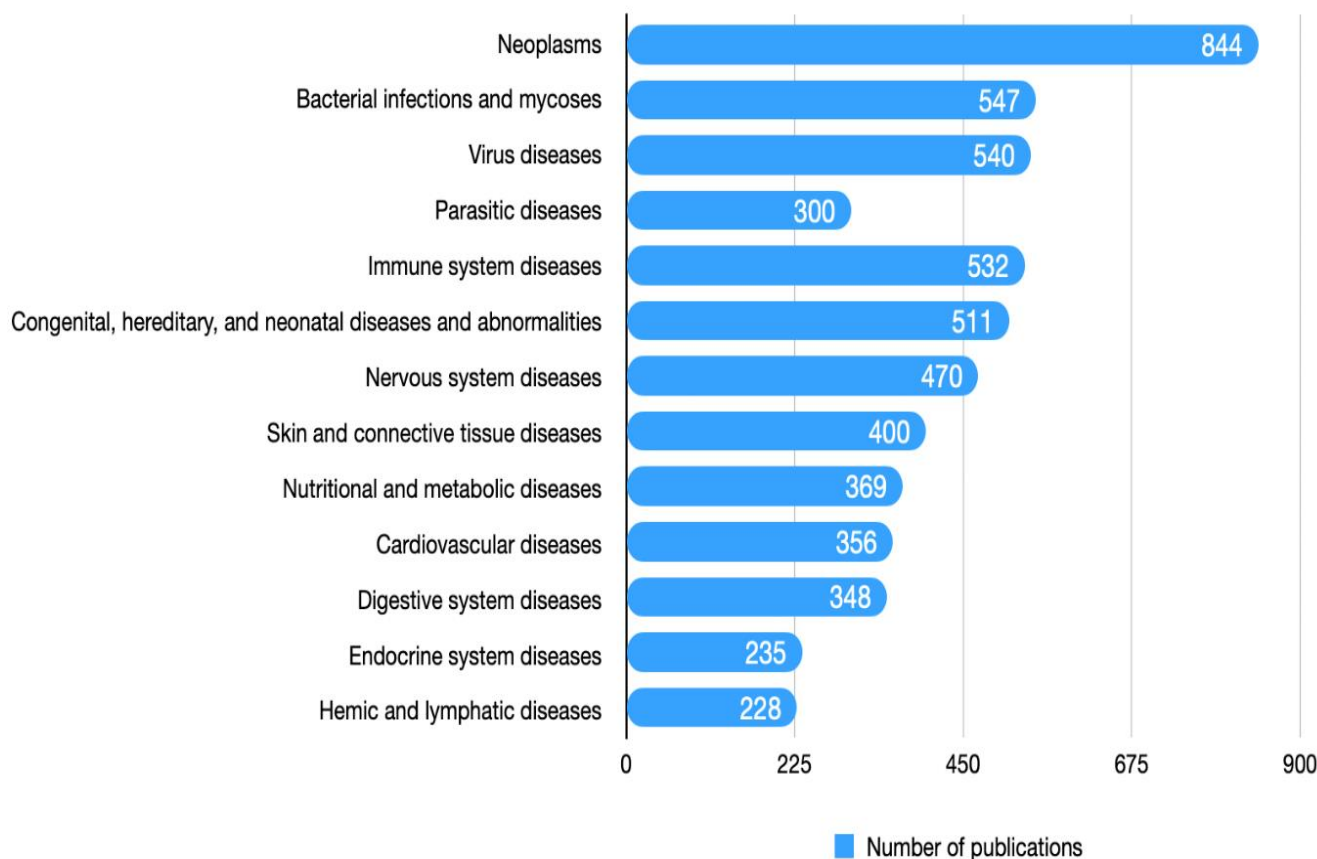
Scientific Productivity in Africa and Global view of co-authored publications



EU + Africa
PerMed



Disease categories & research areas



- Almost 82% of all articles were found to be related to one of the 13 disease categories
- Interest in infectious diseases followed by cancer, immune system and nervous system diseases were more pronounced than other diseases
- The increase of articles in 2020 compared to 2011 was remarkable and more evident in Bacterial infection related publications (14-times increase), followed by Cardiovascular (11-times increase), and virus diseases (almost 8-times increase)

Regional Validation

- There is more activity than what has been published
- Including a robust Pharmacogenomics and non-communicable disease research
- A drive to establish Population Genomics Cohorts
- Sound establishment of data protection policy, and harmonization of regulation
- There is interest to develop more focus on PM in Africa

Survey Results showed interest in:



Opportunities, Needs and Interest

Opportunities that Africa can explore to strengthen the development and implementation of PM

- Investing and building on current research efforts in PM
- Generating and Utilising genomic data on African Population
- Establishing collaborations through the available platforms to strengthen PM implementation at the Continental level
- Developing skills locally and tapping into the diaspora-trained and skilled human resources to enhance PM
- Establishing and implementing the policy and ethics frameworks
- Citizen education

Policy recommendations

- Support research, data generation, mining, and translation into clinical care
- Skills and infrastructure development
- Ethical and regulatory framework development, strengthening, and harmonisation
- Awareness creation

Medical fields

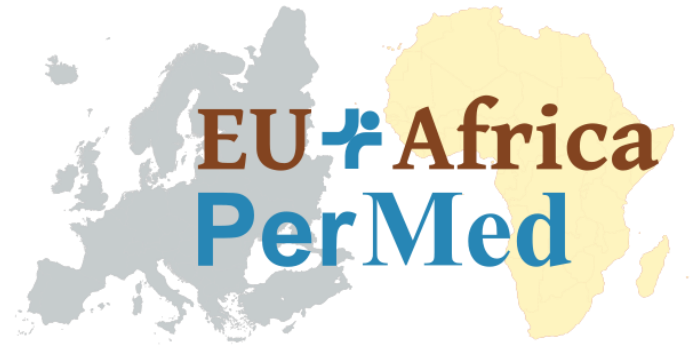
- Cancer
- Cardiovascular disease
- Diabetes
- Infectious diseases
- Rare genetic diseases
- Immune disease
- Neurological diseases
- Mental health disorders

PM application

- Targeted treatment strategies
- Improved precise diagnostics
- Targeted prevention
- Clinical decision support
- Ethical, legal social frameworks
- Disease risk analysis

Top Areas of Interest

Main disease areas	<ul style="list-style-type: none">– Cancer (HPV, cervical, breast, prostate, colon and esophageal cancers)– Cardiovascular diseases– Infectious diseases (malaria, HIV, TB, Hepatitis B and emerging infectious diseases)– Diabetes and other metabolic-related conditions– Rare genetic diseases– Immune-system diseases– Mental health conditions– Other non-communicable diseases– Nervous system diseases
Main thematic areas	<ul style="list-style-type: none">– Pharmacogenomics– Population genetics– Training and capacity building: bioinformatics and data analysis– Treatment strategies, tailored diagnostics, prevention– Cancer screening, diagnosis, treatment and stem cell research– Regulation around the incorporation of PM approaches into healthcare– Data & other infrastructure/s



**THANK YOU VERY MUCH
FOR YOUR ATTENTION
and we are looking forward to this session**



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