



Centre for personalized medicine managing infectious complications in immune deficiency

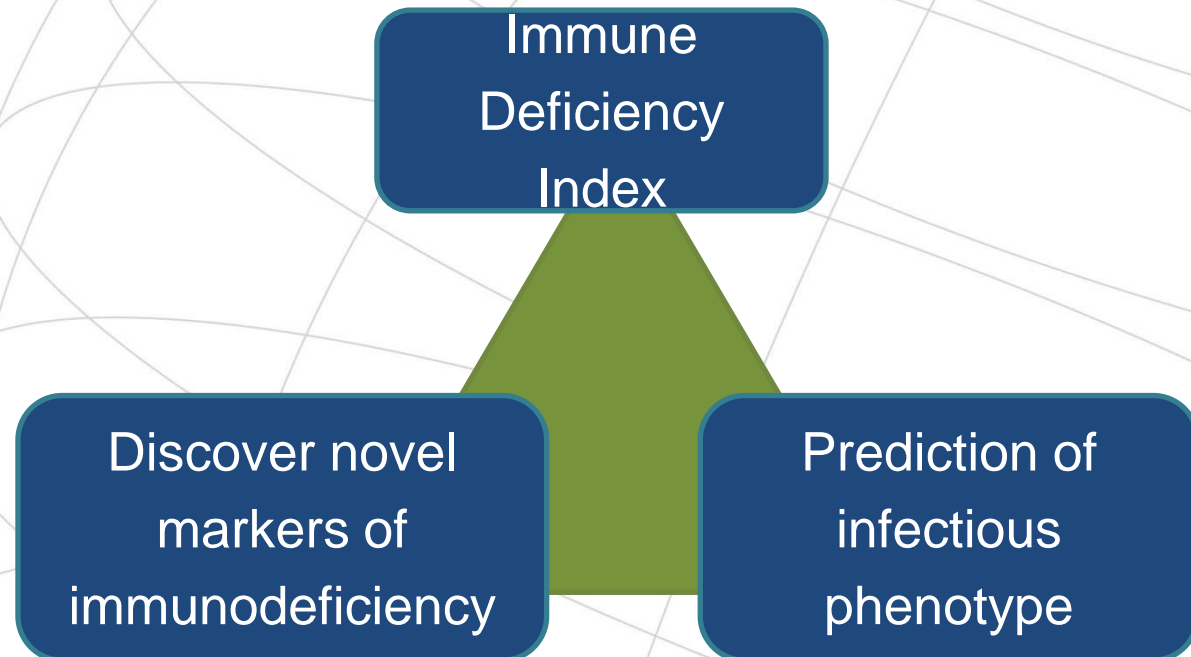
PERSIMUNE





- Immunodeficiency
 - Increases risk of contracting disease
 - ideal population for **basic science model** to better understand interaction between immune function and disease
 - Epidemic due to medicines - societal impact enlarging

The 3 pillars of PERSIMUNE





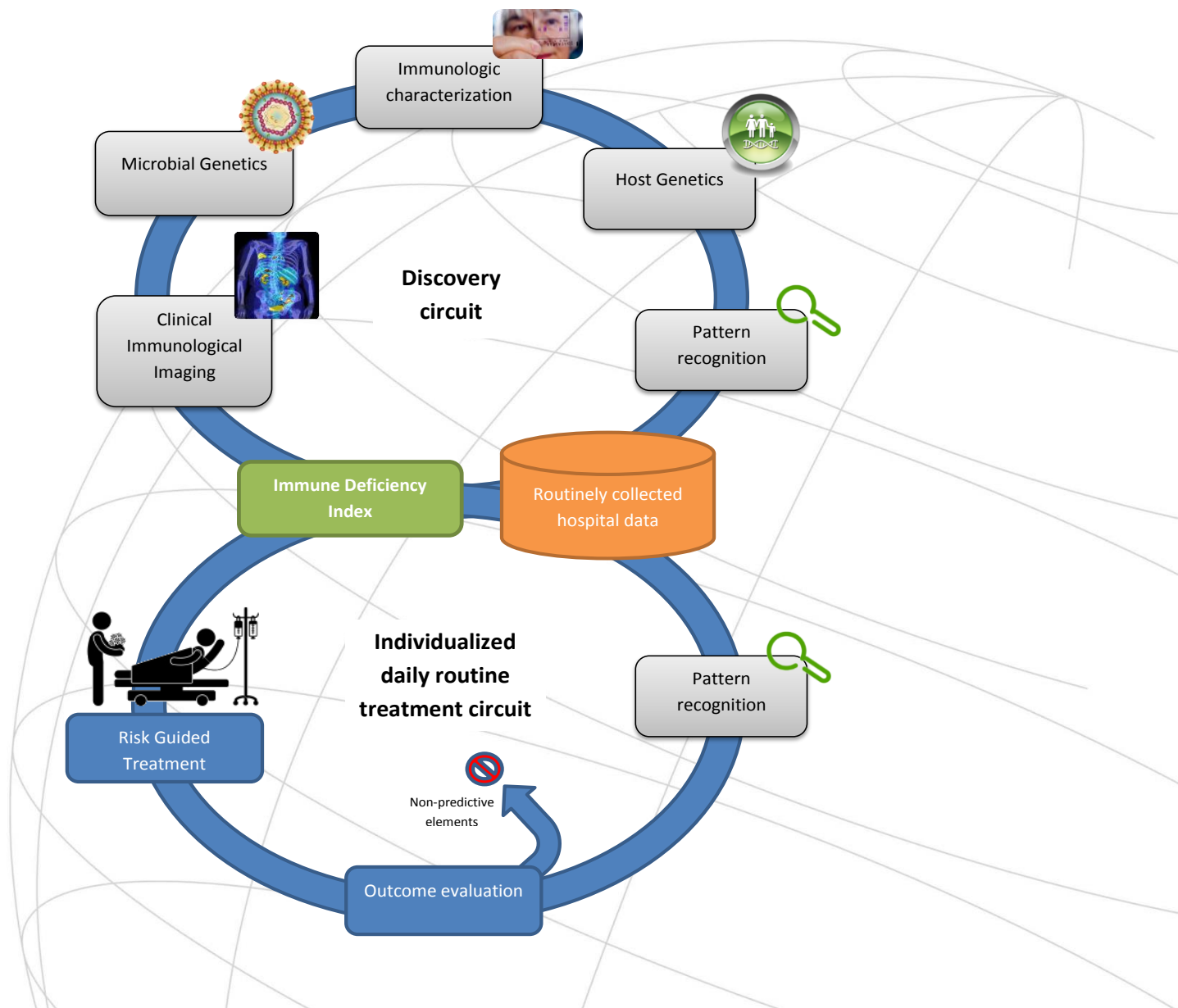
Infectious phenotype of immunodeficiency - diseases linked with immunodeficiency

1. Opportunistic infection
i.e. infections linked with immunodeficiency
2. Cancer caused by viruses
e.g. EBV, HPV, HCV, HBV, etc
3. Accelerated organ dysfunction
due to extended infection-related inflammatory state
4. Allograft rejection / Graft-versus-Host in transplant recipients
immune reaction triggered by infection

**Risk of contracting these diseases varies
across populations of immunodeficient persons**

Methods

- Transform a tertiary-referral hospital to a research platform for our basic science model
 - Multiple types of immunodeficiency patients cared for
 - Ensure PERSIMUNE requirements are met
 - Large patient sample
 - Able to ascertain infectious phenotype
 - Infrastructure to capture relevant patient information (MATCH)
 - Diagnostic technology state-of-the-art
 - Central biobank facility
 - Long-term and diverse scientific interest by all relevant stakeholders





Organisation – a scientifically strong multidisciplinary international team

