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| **Call for abstract** **(About 250 words - due October 15, 2021)** **Important:** *As this is a non-confidential discussion forum to share scientific views, any information presented or otherwise disclosed by participants and/or exchanged during this event is also considered* ***non-confidential*** *and will therefore not be subject to any confidentiality obligations.* |
| **Title:****Author(s):** **Organisation:** |
| **Problem setting:** |
| **Solution/Project:** |
| **Why innovative?** |
| **Potential application(s) for healthcare**  |

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Themes for University Elevator Pitches

**Immunology and vaccinology**

* Characterization of host-pathogen interactions or immune responses
* Research on novel associations between viral/bacterial agents and chronic diseases
* Immunotherapy of chronic diseases
* Epigenetic research on modification of innate immune cells (trained immunity)

**New vaccine targets and antigen design**

* New tools to refine or accelerate future vaccine target identification (infectious and chronic diseases)
* Structural vaccinology research
* Nanoparticles, virus-like particles…

**Vaccine delivery**

* Delivery methods/devices related to alternative routes of administration (oral, mucosal, intradermal…)

**New technology platforms**

* New immunomodulation technologies and adjuvants
* Vaccine stability technologies
* mRNA vaccine technologies
* Vector technologies (viral, bacterial…)
* Induction of more efficient and rapid immune responses (1 dose vaccine)
* Microbiome functions/interventions research
* Discovery, identification, engineering of human monoclonal antibodies

**New technologies to accelerate R&D**

* Assays on a chip for clinical read-outs or quality control and assurance
* Novel clinical trial designs (incl. human challenge models)
* Biomarkers research and application of systems biology to new readouts
* Development of in vitro models such as organoids or organ-on-chip systems

**New production process technologies**

* New technologies to characterize or improve biologicals manufacturing (PAT, biosensors, microfluidics, continuous manufacturing, …)

**Artificial intelligence and digital data analytics**

* Novel applications of systems biology, data modelling/analysis and artificial intelligence