

STAR-IDAZ IRC and its activities on Bovine TB and brucellosis globally, with a specific focus on the Asia Pacific region.

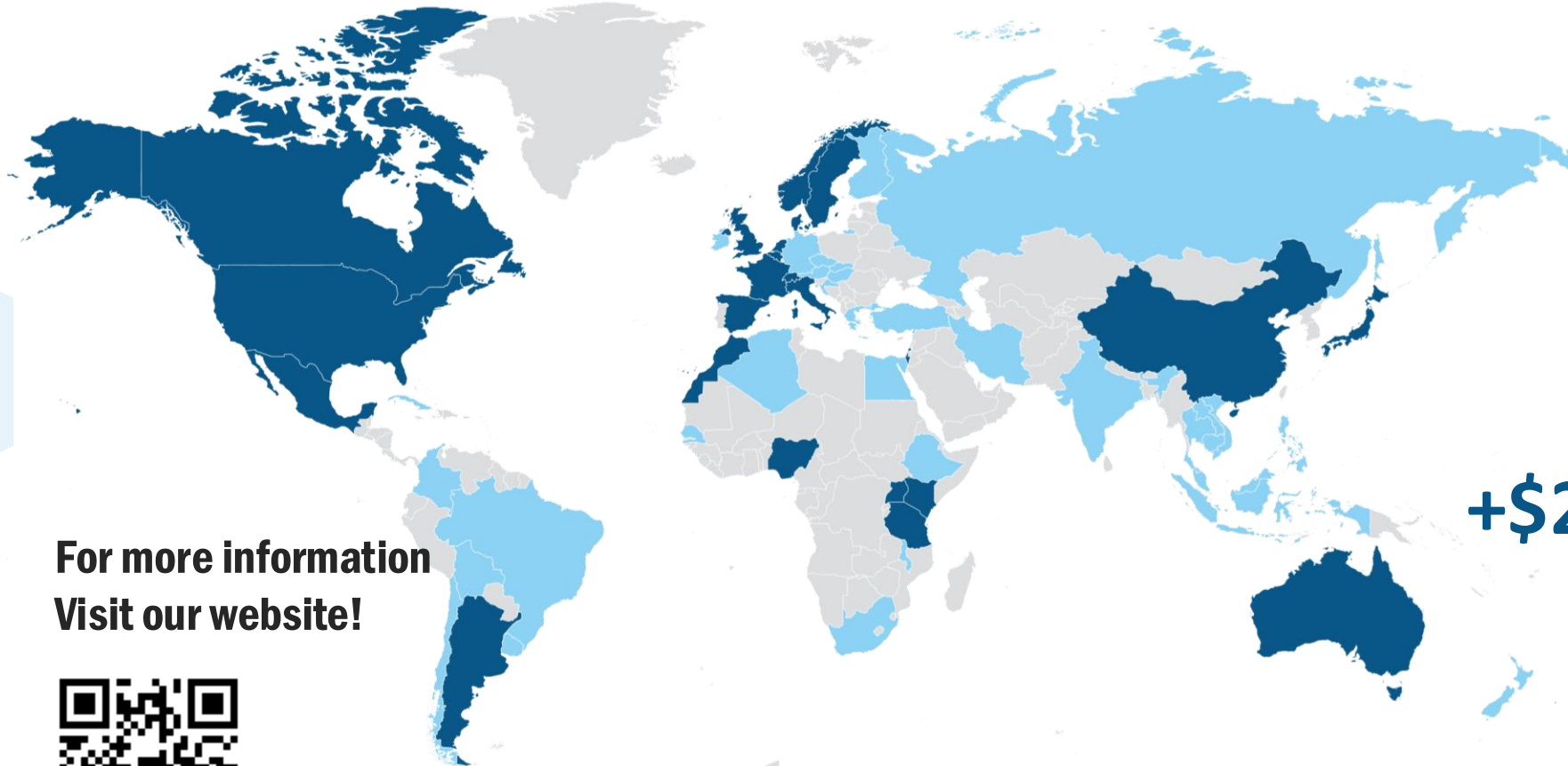
Qingdao, China P.R., 24-26 September 2024

Latifa El Hachimi – Secretariat of the STAR-IDAZ IRC
Kreavet, Belgium

STAR-IDAZ IRC: A Platform for Global Coordination of Animal Disease Research

STAR-IDAZ IRC

Global **Str**ategic **Alliances** for the Coordination of **Research** on the
Major **In**fectious **Diseases** of **Animals** and **Zoonoses**



35 Partner organisations

23 Countries

55+ Associated countries

+\$2.5B Research investment

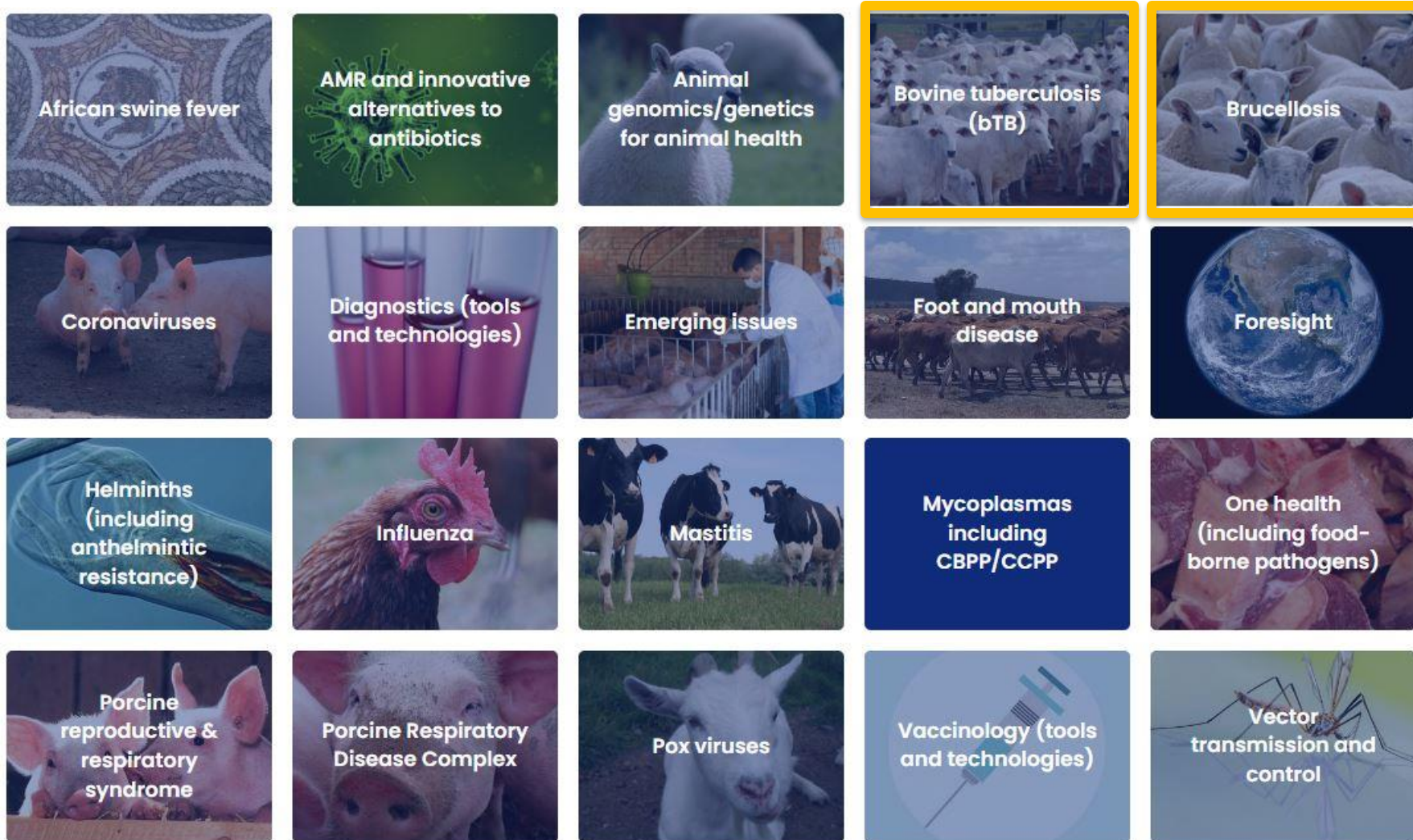
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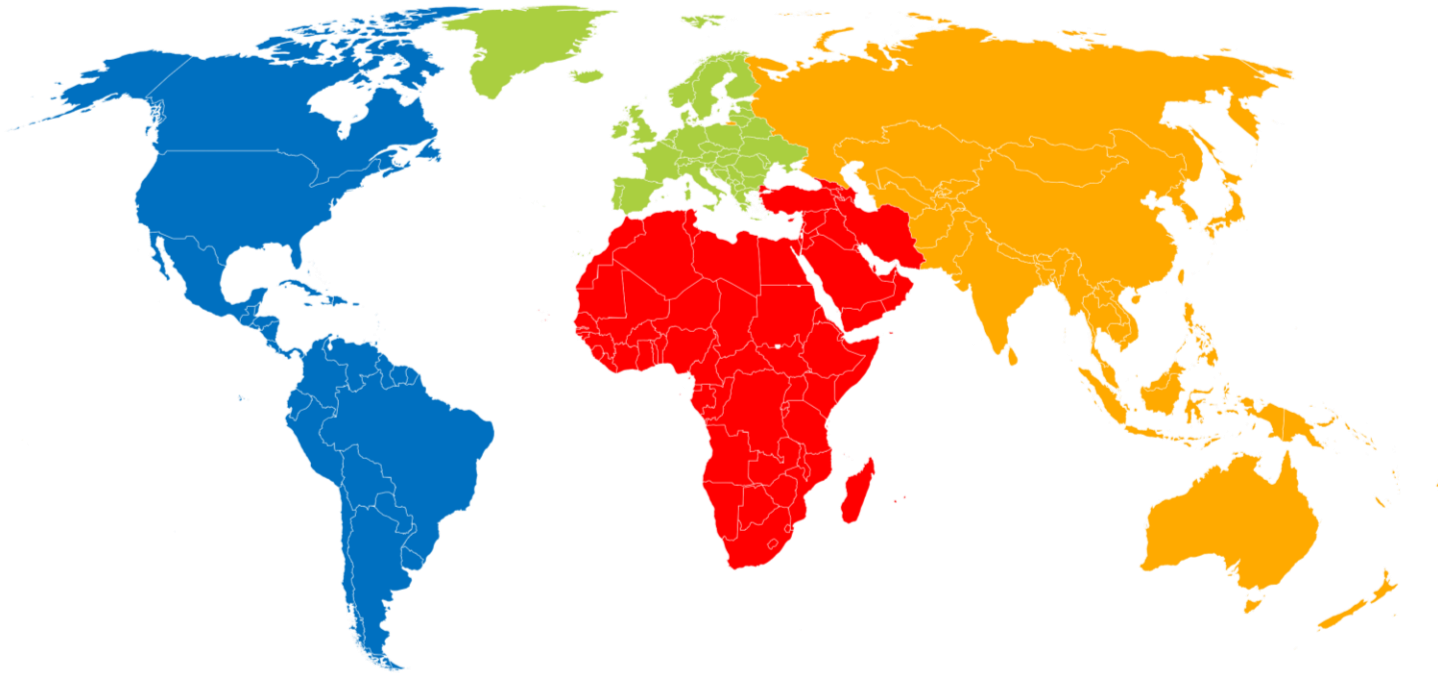


STAR-IDAZ research priorities



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STAR-IDAZ Regional Network



Americas

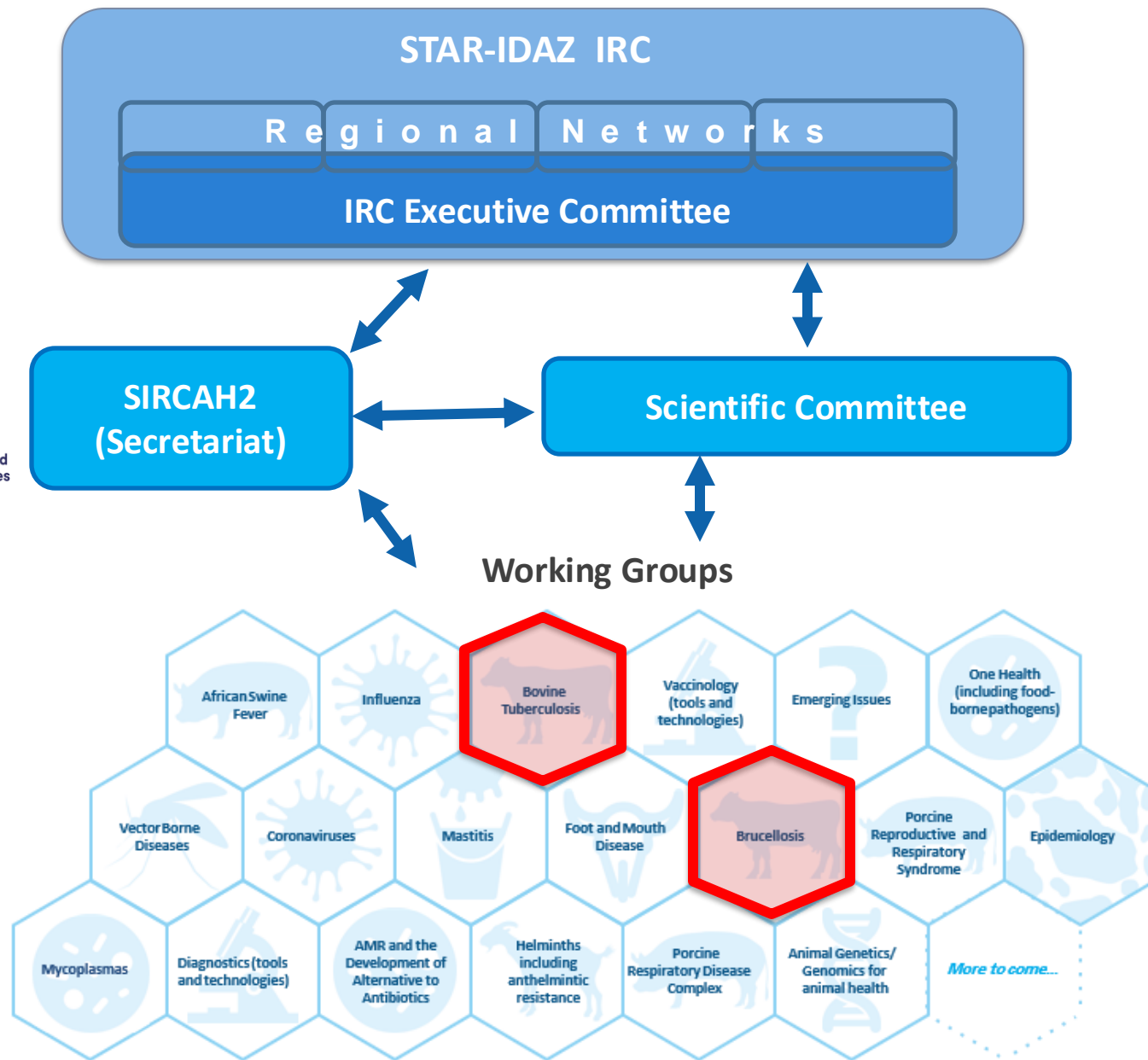
Europe

Africa &
Middle East

Asia &
Australasia

Objectives

- To further discuss and agree on common research priorities for the Region.
- To explore the opportunities for sharing resources, including access to samples/strains of organisms, specialised facilities and expertise.
- To identify international funding opportunities.



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STAR-IDAZ IRC Executive committee partners :

Asia & Australasia

- **National Institute of Animal Health, National Agriculture and Food Research Organisation (NIAH), Japan**
- **CSIRO Australian Animal Health Laboratory (AAHL), Australia**
- **Lanzhou Veterinary Research Institute, Chinese Academy of Agricultural Sciences (LVRI, CAAS)**



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Bovine Tuberculosis



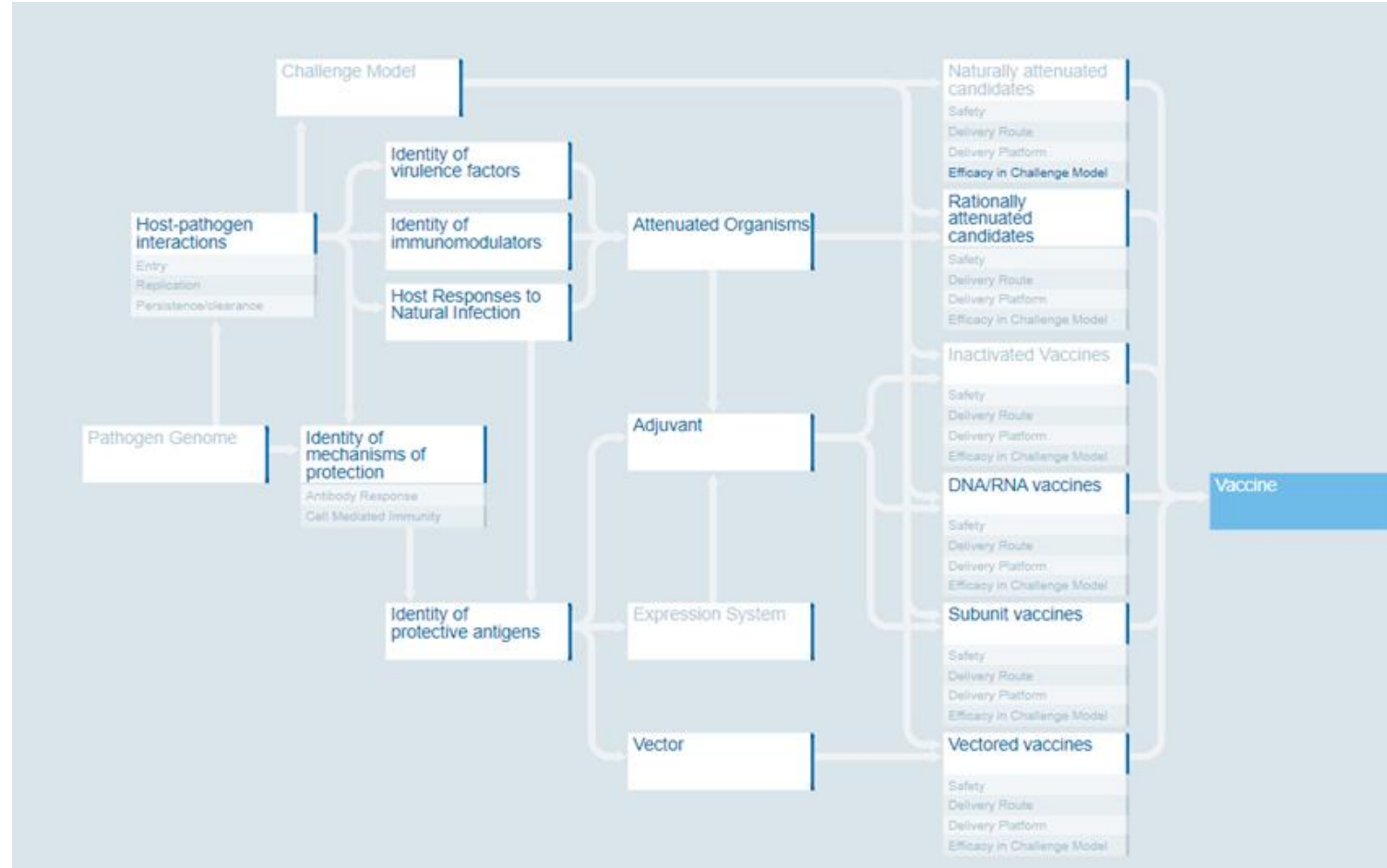
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Bovine Tuberculosis



Global Research Alliance for Bovine Tuberculosis (GRAbTB)

Roadmap for the development of a candidate vaccine for bTB (V1 March 2018)



Bovine Tuberculosis



STAR-IDAZ bTB roadmap workshop, February 2023, Birmingham, UK

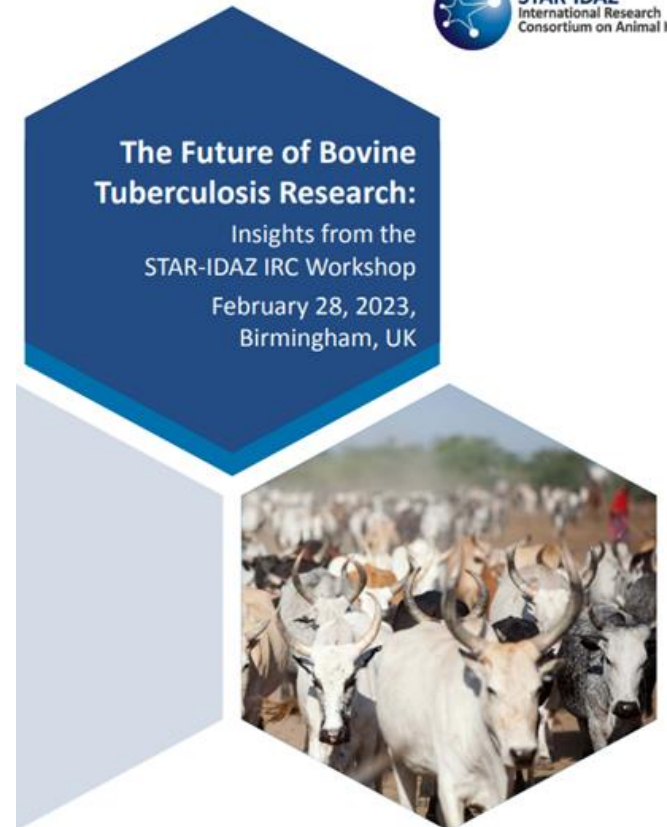


- To understand research and innovation needs for bovine tuberculosis globally
- To update existing bTB vaccine roadmap
- To develop and validate diagnostic tests and control strategies roadmaps

Highlights:

- Importance of designing a pen-side test
- Need to engage with economists
- Implementing alternative control strategies
- Designing studies to define correlates of immune protection and develop a vaccine better than BCG
- **Need for a globally connected research community**

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The Secretariat for the STAR-IDAZ IRC (SIRCAH) is funded from the European Union's Horizon 2020 research and innovation programme under grant agreement No 727494



Bovine Tuberculosis - Roadmaps



Roadmaps validated and published on STAR-IDAZ IRC website

- ✓ **Diagnostic test development roadmap**
- ✓ **Development of Control Strategies roadmap**
- ✓ **Vaccine development roadmap**

Acknowledgements:

- Vivek Kapur (Penn State University, USA) and James Wood (University of Cambridge, UK)
- Robin Skuce, Adrian Allen and Ford Tom (AFBI, UK)
- Nathalie Winter and team (Animal Health Division of the INRAE)

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Key insights for Asia-Pacific:

Vaccine Development

- Validate the BCG vaccine.
- Address species diversity and genetic variations in livestock.
- Develop novel attenuated and DNA vaccines; implement multi-country studies to inform vaccine design

Diagnostic tests development

- Rapid affordable pen side tests for early-stage and latent infections
- Improve sensitivity and specificity
- Develop molecular and biomarker-based diagnostics; validate tests in diverse epidemiological settings

Control strategies

- Tailor strategies to regional socio-economic context
- Biosecurity
- Stakeholder engagement

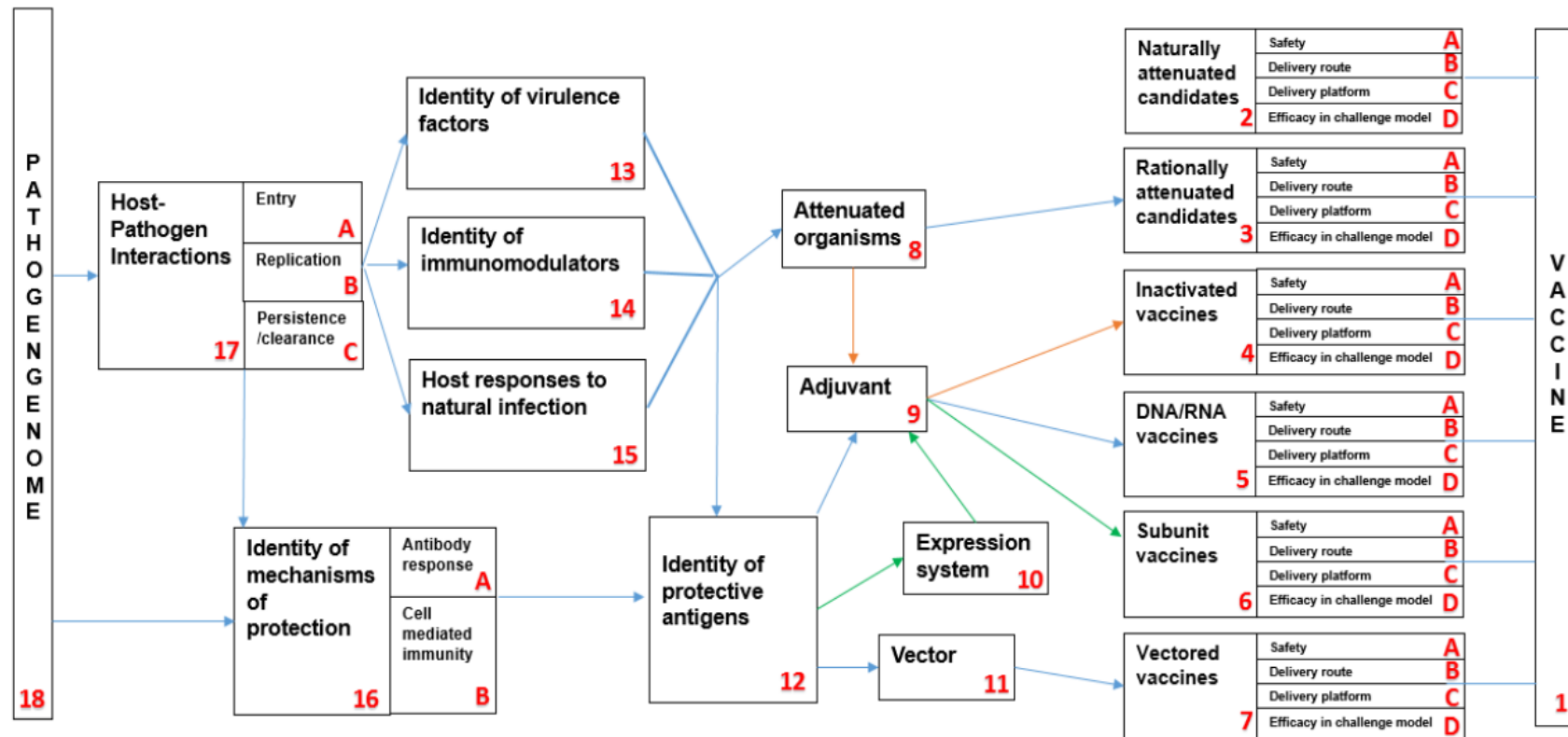
Brucellosis



Brucellosis

- Published Roadmap

Roadmap for the development of Brucella : Version 1, 31/03/2018



Brucellosis

- **Latest News and Activities:**

- **Survey** : To support the STAR-IDAZ initiative and its goal of developing a global research agenda on Brucellosis.
- **DISCONTTOOLS report** : Moriyón Uría et al., in press.
- **Bruce list** : > 313 experts
- **Collect responses and data analysis**
- **Gap analysis workshop** : Organizing a workshop to identify and address research gaps.

The Brucellosis international conference in November 2025'

STAR-IDAZ SC members : Clara Marín Alcalá, Cynthia Baldwin and Ruth Zadoks

Key insights for Asia-Pacific:

DISCONTTOOLS report (September 2024) led by Ignacio Moriyón Uría, Raquel Conde-Álvarez (University of Navarra). Soon available at www.discontools.eu

Diagnostics and Vaccines

- **High cost** and cold storage requirements limit the use of serological tests in Asia.
- **Lack of validated diagnostic kits**
- **Need for vaccine validation**

Regulatory and Control Challenges

- Some countries favor **non-WOAH recommended** vaccines?
- Lack of effective **regulatory frameworks** in many Asian countries.
- **Limited infrastructure** and resources restrict the implementation of surveillance and control measures.

STAR-IDAZ' role in addressing gaps in Asia-Pacific

- Focusing research on **diagnostics & vaccines** tailored to the region
- Support **collaborative efforts** to develop regulatory frameworks and surveillance systems.
- Promoting **international cooperation** for effective control and eradication.
- ...



#93502771

*'Alone we can do so little,
Together we can do so much.'*

H. Keller

Join us!



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Thank you for your attention

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