The UK-China Innovation Collaboration to tackle AMR

Part of the Global AMR Innovation Fund (GAMRIF)

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What is DH doing on Global Health Security?

£477m of UK Official Development Assistance (ODA) – focus on LMICs - with the aim of contributing to a ‘world safe and secure from infectious disease threats and promotion of Global Health as an international security priority.’

Part of the £1bn Ross Fund portfolio shared with the Department for International Development

**Prevention**

• £126m: **Vaccines and bio-preparedness project** to develop new vaccines and technologies to tackle diseases with epidemic potential (e.g. Zika, Ebola)

• £50m: **The Global AMR Innovation Fund** to fund and leverage wider investment in new innovative AMR research and development

**Detection**

• £265m: **Fleming Fund** to improve laboratory capacity and diagnosis plus data surveillance of AMR in LMICs worldwide.

• £16m: Funding to build capability of low & middle income countries to meet the WHO **International Health Regulations**

**Response**

• £20m: **The UK Public Health Rapid Support Team**, to investigate and respond to disease outbreaks before they become health emergencies.
The Fleming Fund

The Fleming Fund
£265m until 2021/22

Surveillance protocol and platform

Delivered:
A roadmap for improving laboratory capacity and initiating antimicrobial resistance surveillance in low resource settings.

Grants to multilaterals WHO, FAO, OIE

Delivered:
A three year grant, with each organisation primarily to help countries prepare AMR National Action plans.

Portfolio of country and regional grants

Delivered:
Pilot project in Vietnam developing an AMR national reference laboratory.

In process:
Design of an implementation strategy for country grants and fellowships in 24 low and lower-middle income countries across Sub-Saharan Africa, South and South East Asia from Oct 2017.

Fleming Fellows

In process:
An evaluation strategy to provide annual learning and recommendations to improve the impact of the project submitted in Autumn 2017.

Independent Evaluation

Delivered:
Regional and country grants to multilaterals and bilateral organisations for laboratory networks and country MR surveillance.”
The Global AMR Innovation Fund (GAMRIF)

Lord O’Neill’s Review on AMR included a recommendation to “Establish a Global Innovation Fund for early-stage and non-commercial research ... to support early-stage research, whether ‘blue sky’ or focused on neglected areas”

• Particular need to address the needs of people in Low and Middle Income Countries. Funding is therefore part of Official Development Assistance (ODA)

• The Department of Health has been allocated £50m over then next 5 years to deliver this project.

• Dame Sally Davies appointed an Expert Advisory Board to make recommendations on the scope of the fund and to advice on opportunities for investment. Finalising their recommendations now.

• UK-China partnership is first major work stream of the GAMRIF project, with up to £10m allocated over three years.
UK-China AMR Innovation Collaboration

1. Up to £10m delivered by Innovate UK on behalf of DH;
2. Based on the Newton-Fund model (joint partnerships with matched funding from partner country);
3. Focussed projects which are benefit people in the developing world (both in China and other countries);
4. Prioritised for novel projects which neither country could do by themselves.

Scope developed by a Joint Advisory Panel

Co-chaired by Prof. Rosanna Peeling (LSHTM) & Prof. Jiandong Jiang (Chinese Academy of Medical Sciences).

1. Focus on Bacterial resistance but TB out of scope;
2. Incl. Animal Health where relevant to human health; and
Scope

1) Explore **Traditional Chinese Medicine** (herbal medicines and/or botanicals) in humans and animals
   - Evaluate **TCM in combination with existing antibiotics**
   - Screen, identify and evaluate active agents in **TCM**

2) Advance **discovery of new drugs and vaccines** for infections in humans and livestock
   - Small molecules drug candidates must have a novel structure and mechanism of action

*For stands 1 and 2, for animals, the infection must pose a significant threat to human health*
Scope

3) Identify new agents to increase feed energy conversion in livestock

4) Optimise the use of current antibiotics – using modelling, retrospective and prospective studies

5) Develop tools for the diagnosis, treatment selection and surveillance of bacterial infections and ABR

• *Point-of-care, self-testing and pen-side tests*

• *Tools for global surveillance*

• *New biomarkers to distinguish between bacterial and viral infection*

Out of scope: AMR that does not address ABR; TB; ABR in companion animals and wildlife populations, aquaculture; ABR in animals where there is no clear link to human health, ABR in the environment including water and soil; TCM outside the use of herbal medicines and botanicals, digital health, surveillance
Funding and Eligibility

We are looking for novel projects and strong consortia with equal partnerships between the UK and China.

- Up to £10 million investment for UK partners
- Up to £750,000 grant for UK partners (with resource match-funding available from China)
- Maximum project length 3 years

UK project *leads* *must*: 
- be a *UK business* of any size (at least 20% of UK project costs must be incurred by business)
- carry out the project in the UK and China
- comply with *ODA guidelines*

Your consortium *must* include at least:
- 1 UK business of any size
- 1 UK research organisation
- 1 Chinese business of any size
- 1 Chinese research organisation
## Competition dates – current thinking only

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<th>Anticipated dates</th>
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<td>Competition opens</td>
<td>Early 2018</td>
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<tr>
<td>Competition closes</td>
<td>Summer 2018</td>
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<td>Release date of results</td>
<td>October 2018</td>
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<td>Planned project start date</td>
<td>January 2019</td>
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Further details and updates will be provided via the Knowledge Transfer Network (Please Subscribe!)
Key websites and contact details

Innovate UK’s Knowledge Transfer Network
www.ktn-uk.co.uk

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