

THE FLEMING FUND

THE PETRI DISH

– Contact Megan.Howe@mottmac.com with any feedback –

Editors Notes

Greetings to our readers - we hope you are healthy and staying well during this period.

Our issue this month includes Fellows' biographies from Indonesia and Zambia and an article remembering one of our Expert Advisory Committee members, Jacques Acar. One of Jacques' colleagues has also compiled a list of some of his most prominent publications demonstrating his immense contribution to microbiology. If you'd like to read some of these papers, check out the [technical bulletin, here](#).

News

The Fellowship Team will be holding another webinar for Fellows on Wednesday 6th May at 08:30 British Summer Time (07:30 UTC). This webinar will be an opportunity for Fellows to connect, raise questions, and will include a short talk on a relevant AMR/U/C topic. The Mott MacDonald team will be sending out a link and agenda to all Fellows.

New Resources

OIE Workshops

OIE conducted several workshops on animal AMU data collection and submission to its database for national veterinary focal points. The presentations can be found on the sub-regional websites: [Africa](#) | [Asia](#)

Additional training presentations can be found on sub-regional websites:

[Africa](#) | [Asia](#)

World Veterinary Association

Guidelines for responsible use of antimicrobials in Animal Health have been listed by The World Veterinary Association (WVA). The list now includes 120 guidelines on use of antimicrobials, action plans and promotional material on prudent use of antimicrobials, covering large number of countries, languages, veterinary aspects and animal species. National veterinary associations have also produced guidelines on reasonable use of antimicrobials, they can be found on their respective websites.

[Access the guidelines list here](#) | [Additional Resource Library](#)

Laboratory Equipment Arrives in Zambia

State-of-the-art microbiology equipment has arrived in Zambia and been delivered to the Centre for Infectious Disease Research in Zambia - CIDRZ's warehouse in Lusaka.

The equipment includes automated

blood culture machines, antimicrobial susceptibility machines and two MALDI-TOF mass spectrometers.

The machines will be sent to the National Animal Health and Human Health laboratories and installed as soon as possible.



Programme Updates & News

In Memoriam: Professor Jacques Fouad Acar

by Professor Timothy Walsh, Cardiff University

Jacques was born in Dakar in 1931 to Lebanese parents. Originally from Deir el-Qamar he lived briefly in Lebanon where he finished his secondary studies at the Notre-Dame de Jamhour College. Jacques left Senegal in 1948 to study at the Faculté de Médecine de Paris. He graduated in 1954 and completed his military service as a field doctor in sub-Saharan Africa. He was appointed head of the clinic for infectious diseases at the Bichat–Claude Bernard Hospital in Paris in 1962.

Jacques was very much part of the “golden era” of medical microbiology and in Paris assumed many roles. From 1966-1999, he became head of the Department of Medical Microbiology and Infectious Diseases at the Hôpital Saint-Joseph in Paris; concurrently, he was head of Medical Microbiology at the Hôpital Broussais and also a professor of medical microbiology at Pierre and Marie Curie University from 1973 until 2000.

Jacques’ vast knowledge and unflappable disposition were very much in demand. He became president of the WHO taskforce on antimicrobial resistance (1992 – 1996); editor-in-chief of *Clinical Microbiology and Infection* (1995-2000) for the WHO for Animal Health (1999-2020); member of the French Ministry of Health for antimicrobial resistance (2015-2020) and in 2016 was appointed as an expert advisor to the Fleming Fund. Jacques was central to the founding of the European Society of Infectious Diseases and Microbiology (ESCMID), the International Society for Infectious Diseases (ISID), the Alliance for the Prudent Use of Antibiotics (APUA) and the European Group for Antibiotic Resistance.

Although Jacques to many would appear French, his Lebanese roots were always evident in his discourse – effervescent, passionate and animated but always respectful and polite. His reputation followed his name - Acar (Lebanese Christian surname of Aramaic/Hebrew origin) meaning “one who stirs trouble”. Throughout his vast

& impressive career Jacques was known for speaking plainly and passionately and asking the most pertinent questions.

Jacques was author of more than 500 publications and despite his colossal contribution to microbiology he always listened to new ideas and theories and regarded himself as a student as well as a master. Jacques will be dreadfully missed by family, friends, colleagues and students, and in so many ways, is irreplaceable.



Malawi Fellowship Workshop

From 16th – 18th March, six Fellows met in Lilongwe for the opening Fellowship Scheme workshop in Malawi. Typically, Fellows, mentors and the Fleming Fund team meet in person to explore national AMR surveillance pathways and discuss how Fellows can use their jobs and Fellowships to improve surveillance.

But, as the workshop approached, travel restrictions tightened meaning the UK team were unable to attend in person. Instead, East Africa Regional team members attended. The workshop included presentations from University of Edinburgh Professor Ross Fitzgerald and two mentors, Dr. Adrian Muwonge and Stella Mazeiri. Challenges included power outages, a lack of laptops, internet failures in both Malawi and the UK, and the return of some Mott MacDonald staff to the East Africa hub early, as travel restrictions were further tightened.

Despite these issues, participants were engaged, workplans were drafted and Fellowship activities got off to a good start. Much of the success was due to the dedication from the East Africa team and the UoE mentors. Thanks to our new fellows for their brilliant engagement: Harry Lawrence Milala, Ronald Chitanga, Chikhulupiliro Gloria Chimwaza, Williams Legison Mwantoma, Catherine Isaac Kumwana and Michael Luwe. Congratulations on the award of your Fellowships and a warm welcome to the Fleming Fund.

Progress: Fellowship Scheme

	Host Inst. Assigned	Applications Open	Fellows Review	Workshop Completed
Bangladesh				
Bhutan				
Burkina Faso				
Eswatini				
Ghana				
India				
Indonesia				
Kenya				
Laos				
Malawi				
Nepal				
Nigeria				
Pakistan				
Papua New Guinea				
Senegal				
Sri Lanka				
Tanzania				
Timor-Leste				
Uganda				
Vietnam				
Zambia				
Zimbabwe				

Indonesia Biographies

IMRON SUANDY

AMR SURVEILLANCE ANIMAL HEALTH Directorate of Veterinary Public Health

Imron is the Deputy Director for Safety of Animal Products in the Directorate of Veterinary Public Health, Ministry of Agriculture in Indonesia.

LIYS DESMAYANTI

AMU/C SURVEILLANCE ANIMAL HEALTH Directorate of Animal Health

Liys is a veterinarian with eight years of professional experience in the animal health sector, and is currently a Veterinary Medicine Officer at the Directorate of Animal Health.

Zambia Biographies

DANIEL NDAMBASIA

AMU SURVEILLANCE, ANIMAL HEALTH Epidemiology, Department of Veterinary Services

Daniel is a veterinarian with experience in regulation for veterinary medicine products as well as work with small-scale farmers on project implementation and training.

KASONDE MPANGA

AMR LABORATORY, HUMAN HEALTH Zambia National Public Health Institute

Kasone is a biomedical scientist at Zambia's National Public Health Institute where he works to strengthen microbiological capacities at national and sub-national levels.

Fellow Biographies: Indonesia



TITIEK SULISTYOWATI
AMR LABORATORY
FELLOWSHIP, HUMAN HEALTH
National Reference
Laboratory

I am a clinical microbiologist and I began my studies in 2014. Since being selected to work in the national AMR reference laboratory, I have focused on establishing national technical and quality management guidelines for bacterial identification and antimicrobial susceptibility testing, conducting external quality assurance of microbiology laboratories and strengthening the network of AMR microbiology laboratories in Indonesia.



DWI FEBRIYANA
AMR BIOINFORMATIC AND
SEQUENCING, HUMAN HEALTH
National Institute of Health
Research and Development

I am working at the Centre for Research and Development of Biomedical and Basic Health Technology (CRDBBHT), at the Ministry of Health. I am a researcher a member of the AMR research team.



TATI FEBRIANTI
AMR SURVEILLANCE, HUMAN
HEALTH
National Institute of Health
Research and Development

I am a researcher, working at Centre for Research and Development of Biomedical and Basic Health Technology at the Ministry of Health. Actually, my institution is a National Coordinating Centre for AMR. I am a member of the AMR research team in my institution and also very delighted to participate in

this fellowship.



DINARTI KORDONO
AMR LABORATORY
FELLOWSHIP, AQUACULTURE
Aquaculture Station for
Investigation of Fish Health
and Environment

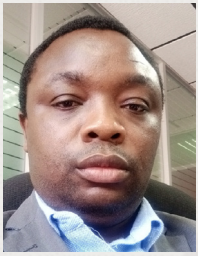
I am working a microbiologist. My routine work is focused on the diagnosis of fish pathogens from bacteria and viruses. I also conduct quality testing of fish medicines used in aquaculture in Indonesia. Additionally, I am the AMR surveillance team coordinator in my workplace.



TRI PUDY ASMARAWATI
AMU/C SURVEILLANCE
FELLOWSHIP, HUMAN HEALTH
Doctor Soetomo General
Hospital

I'm an internist and I work in tropical and infectious diseases at the hospital's Internal Medicine Department. I'm also part of the Antimicrobial Stewardship Program in this hospital. The hospital is an AMR surveillance site part of the national AMR surveillance system. As a clinician and a member of the stewardship committee I'm passionate about raising awareness of proper antibiotic use. I'm also looking forward to taking part in this fellowship.

Fellow Biographies: Zambia



JERE ELIMAS
AMU SURVEILLANCE, HUMAN HEALTH
Zambia Medicine Regulatory Authority

I am a Zambian Pharmacist working as a surveillance officer at the National Medicines Regulatory Authority. I am the regulatory focal point for AMR (Human Health) and a focal point for the World Health Organisation's Global Surveillance Monitoring System (WHO GSMS) on Substandard and Falsified (SF) Medical Products.

Fisheries and Livestock

My background is in Veterinary Medicine and Surgery and my work involves research and routine diagnosis of bacterial infections, including in food safety. I am proud to be part of the Fellowship and look forward to educating others to steward antimicrobials better.



PAUL MSANZYA ZULU
AMR Surveillance, Human Health
Zambia National Public Health Institute

I'm an Infectious and tropical diseases physician at the Zambia National Public Health Institute, Ministry of Health. My duties include detection and control of various infectious diseases such as HIV, Malaria, and other neglected tropical diseases like Trypanosomiasis, Schistosomiasis and Filariasis. I am actively involved in antimicrobial stewardship programmes at one of Zambia's leading hospitals and part of the antimicrobial resistance collaborating committee that seeks to strengthen AMR stewardship across the country.



PURITY MAYEMBE
AMR SURVEILLANCE, ANIMAL HEALTH
Public Health Unit, Department of Veterinary Services

I have a Bachelor of Veterinary Medicine and have worked as a District Veterinary Officer since 2013. I coordinate activities at district level, such as offering technical advice on disease control and livestock disease extension. I'm also involved in Research and Planning for Veterinary Interventions and have experience coordinating with non-governmental organisations in disease control and surveillance. I have extensive experience in pathology, microbiology and parasitology laboratory work.



TAONA SINYAWA
AMR LABORATORY ANIMAL HEALTH
Central Veterinary Research Institute, Ministry of

Progress: Country Grants

	RFP De-veloped	Appli-cations Open	Appli-cation Review	Grant Ne-gotiation & Sign
Bangladesh				
Bhutan				
Burkina Faso				
Eswatini				
Ghana				
India				
Indonesia				
Kenya				
Laos				
Malawi				
Myanmar				
Nepal				
Nigeria				
Pakistan				
Papua New Guinea				
Senegal				
Sierra Leone				
Sri Lanka				
Tanzania				
Timor-Leste				
Uganda				
Vietnam				
Zambia				
Zimbabwe				

Progress: Regional Grants

	RFP De-veloped	Appli-cations Open	Appli-cation Review	Grant Ne-gotiation & Sign
ROUND 1				
Grant 1				
Grant 2				
Grant 3				
Grant 4				
ROUND 2				
Grant 1				
Grant 2				
Grant 3				
Grant 4				
Grant 5				
Grant 6				
Grant 8				

Round 1

1) Collection of Historical Data
East & Southern Africa

2) Collection of Historical Data
West Africa

3) Collection of Historical Data
South East Asia

4) Collection of Historical Data
South Asia

Round 2

1) External Quality Assurance
Africa

2) External Quality Assurance
Asia

3) Common Surveillance Protocols
Global

4) Microbiology & Epidemiology Training
Global

5) Planning, Policy & Advocacy
Global

6) Reducing Barriers to Logistics and
Supply Chains
Global

8) Whole Genome Sequencing Training
Africa

HOST INSTITUTION DIRECTORY

Host Institutions	Regions					Expertise				
	WA	EA	SA	SE	HL	AL	HS	AS	HU	AU
University of Edinburgh	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Oxford University, Clinical Research Unit				✓	✓	✓	✓	✓	✓	✓
National Institute for Communicable Diseases	✓	✓			✓	✓	✓	✓	✓	✓
Technical University of Denmark, National Food Institute	✓	✓	✓	✓		✓	✓	✓		✓
The University of Hong Kong, School of Public Health				✓	✓	✓	✓	✓	✓	✓
Fondation Merieux	✓				✓	✓	✓	✓	✓	✓
London School of Hygiene & Tropical Medicine with RVC & LIDC	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Erasmus University Medical Centre			✓	✓	✓	✓	✓	✓	✓	✓
The Peter Doherty Institute of Infection & Immunity	✓		✓	✓	✓	✓	✓	✓	✓	✓
Brigham & Women's Hospital (WHONET)	✓	✓	✓	✓	✓		✓	✓	✓	
American Society for Microbiology	✓	✓	✓	✓	✓	✓	✓	✓		
Mahidol University			✓	✓	✓	✓	✓	✓	✓	✓
International Livestock Research Institute	✓	✓	✓	✓		✓		✓	✓	✓
African Society for Laboratory Medicine	✓	✓			✓	✓	✓	✓	✓	✓
Aga Khan University		✓	✓		✓		✓			
Public Health England with the Animal and Plant Agency	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Association Pasteur International Network	✓	✓		✓	✓	✓	✓		✓	✓

REGIONS

SE - South East Asia: Laos, Vietnam, Pakistan, Timor-Leste, Papua New Guinea

SA - South Asia: Nepal, Bhutan, India, Sri Lanka, Indonesia, Bangladesh

EA - East and Southern Africa: Uganda, Tanzania, Kenya, Zambia, Malawi, Eswatini, Zimbabwe

WA - West Africa: Ghana, Nigeria, Sierra Leone, Senegal, Burkina Faso

SECTOR EXPERTISE

HL - Laboratory, Human Health

AL - Laboratory, Animal Health

HS - AMR Surveillance, Human Health

AH - AMR Surveillance, Animal Health

HU - AMU Surveillance, Human Health

AU - AMU Surveillance, Animal Health

The Fleming Fund is a £265 million UK aid investment to tackle antimicrobial resistance in low- and middle-income countries around the world. The programme is managed by the UK Department of Health and Social Care, in partnership with Mott MacDonald, the Fleming Fund Grant Management Agent.