



Knowledge Sharing: One Health EJP Outcome Inventory

Sharing knowledge and translating our science to policy are at the forefront of our consortium's focus and all projects aim to address gaps in scientific knowledge in line with our key priority research topics: antimicrobial resistance, foodborne zoonoses and emerging threats.

Each of our projects is committed to improving international collaboration and generating scientific outputs that can not only increase knowledge but also inform policy change. This is made possible within our consortium by working closely with national and international stakeholders. In order to inform this change, our knowledge needs to be shared and publicly available, which is why we have created the [One Health EJP Outcome Inventory](#). This is a public database of scientific and integrative outcomes and updates from our Joint Research and Joint Integrative Projects.

It is split into an Outcomes section which lists databases, strain collections, tools and other scientific outputs (computational models, workflows, novel detection methods etc.), and an Updates section which lists timely updates from all of our projects. The Outcome Inventory is a hub for One Health research and a great way to share knowledge.

Tackling the COVID -19 Global Challenge

The COVID-19 pandemic has impacted millions of lives across the globe. It has resulted in a significant priority shift for many public health organisations as efforts have to be turned to a more immediate threat. Given the scale of the pandemic, public health and animal health organisations have joined forces to use a One Health approach to tackle this virus.

As time has passed, it has become evident that the current pandemic requires a coordinated, global and interdisciplinary approach in order to curb the spread of SARS-CoV-2. Given the zoonotic potential of this virus, a One Health approach, bringing together experts from all health sectors and disciplines, is essential.

Research priorities and knowledge gaps have been identified by key global organisations such as the World Health Organisation (WHO), the Food and Agriculture Organisation (FAO) and the World Organisation for Animal Health (OIE), in addition to the European Centre for Disease Prevention and Control (ECDC), each recognising the need for the One Health approach.

The One Health EJP has also been able to turn its attention to the pandemic in several ways. The diversity of our institute partners has resulted in a multitude responses, from creating rapid diagnostic tests to increasing local diagnostic capacity through the collaboration of public health and animal health institutes. Our research projects [MAD-Vir](#), [TELE-Vir](#) and [METASTAVA](#) have also focussed some of their efforts on coronaviruses in order to contribute to the rapidly increasing knowledge of these viruses and subsequent disease outcomes.



Image: Flickr



Image: Pxfuel.com

Fostering Synergies with EU-JAMRAI

In light of the recent pandemic, society is becoming increasingly aware of emerging diseases such as COVID-19. However, we must not allow other global health problems such as antimicrobial resistance to be forgotten.

Antimicrobial resistance (AMR) is a global health issue that has long been recognised and prioritised by the [WHO](#). Pathogens do not recognise geographical borders and the incidence of AMR is increasing due to the use of antibiotics in human and animal health sectors, this is also posing a significant risk for environmental health. Therefore, this issue requires a coordinated global One Health response. Strengthening national and international collaboration will pave the way for new approaches and initiatives to protect all pillars of One Health and safeguard our antibiotics.

[EU-JAMRAI](#) have committed to increasing awareness of AMR and launched a competition in 2020 to find a symbol that was easy to make, easy to wear and would also spark conversation and collaboration among AMR experts.

[Make yours today!](#)

The Importance of Effective Scientific Research Communication

An important element to achieving our goals and fulfilling our potential is effective communication. As a consortium, we inform, educate and raise awareness of One Health and our research to targeted global audiences.

Our consortium member, The Bulgarian Food Safety Agency ([BFSA](#)), recently organised a very informative online [Communications and Media Workshop](#) designed to introduce delegates to the art of connecting with an audience to communicate the achievements of scientific research.

This successful workshop covered a number of scenarios to assist all scientists, early career researchers, and those more established, to be more effective in their communications.

It addressed written and physical communications, with one session led by a media expert discussing how we express ourselves through body language and words.

The need for public support and understanding in science is indisputable. By communicating and sharing knowledge we can positively affect many pillars of health and wellbeing.



Expanding Our Unique Network

In 2020 the One Health EJP welcomed five new stakeholders to our Stakeholder Committee.

These new stakeholders were the World Health Organisation regional office for Europe (WHO-Euro), the Food and Agriculture Organisation (FAO), the World Organisation for Animal Health (OIE), the European Environment Agency (EEA) and the European Medicines Agency (EMA). With these stakeholders on board, we are able to forge strong One Health relationships across the globe.

The Project Management Team is hosting an introductory event on 3rd March for our new consortium members.

The One Health EJP is committed to creating a unique One Health network across Europe with as many med-vet partnerships as possible. With this in mind we are expanding our consortium to include med-vet partnerships from European countries not currently involved, and to complete partnerships where only one half of this partnership is currently part of the One Health EJP. This will result in 6 new partner institutes joining our consortium from 3 additional countries.

We'd like to welcome the Finnish Food Authority and the Finnish Institute for Health and Welfare in Finland, the Institute of Food Safety, Animal Health and Environment in Latvia and the National Food and Veterinary Risk Assessment Institute in Lithuania. We also welcome the National Food Chain Safety Office in Hungary and the Institute of Health Carlos III in Spain, which completes the med-vet partnership in Hungary and Spain.

PROJECT HIGHLIGHT

FULL-FORCE: supplying a technological toolbox and hands-on training in SMRT sequencing.

Surveillance of antimicrobial resistance (AMR) is an essential governmental tool to develop empirical therapeutic guidelines, to design intervention and infection control policies, and to direct research agendas.

However, current surveillance practices can often fall short in grasping the two distinct mechanisms of the continuous flux of AMR genes: clonal versus horizontal transmission across species and reservoirs.

The One Health EJP **FULL-FORCE** project will broadly introduce long-read sequencing in EU veterinary and public health institutes, contributing to harmonising, building and testing each institute's long-read sequencing capacity. The project will apply this knowledge to six study cases that will greatly profit from mobile genetic element (MGE) sequencing, including samples isolated in the context of national surveillance programmes **EFFORT** and **ARDIG** projects.

This will be followed up by detailed investigation of prominent MGEs, and by applying this knowledge to modelling efforts of AMR dynamics in closed production systems. At the same time, high-quality MGEs sequencing will provide an excellent dataset to test the performance of public and in-house developed tools for MGE typing, and to study associations between AMR genes and MGEs in metagenomic datasets from the **EFFORT** project.

Image: Pixabay

Reaching Out - Virtually

As many of us adhere to travel restrictions, collaboration has taken on a very different look and feel. The One Health EJP has embraced this virtual world and elevated the engagement opportunities it offers.

At short notice in May 2020, we made the decision to turn the One Health EJP Annual Scientific Meeting into a virtual event and the result was very positive, with an extended audience reach to a high number of countries and institutes.

Having analysed the event data, we set about creating new dissemination material for our Partners' Hub at the [World One Health Congress](#) in November.

The key One Health messages were presented in a manner suitable for a diverse global audience. Our visibility at the Congress was enhanced by several presentations from One Health EJP members, notably Hein Imberechts, the One Health EJP's Scientific Coordinator. Additionally, our members took part in the poster presentation sessions and also participated in discussions as panellists and chaired sessions.

The OHEJP 2021 Annual Scientific Meeting will be hosted as hybrid event (enabling attending on-site and online) from Copenhagen on 9-11th June 2021. The [OHEJP ASM2021](#) will be a unique opportunity to share your newest research, share knowledge and collaborate with colleagues.

Abstract submission is now open and closes on 15th March 2021.



Common Activities

Each of the One Health EJP projects brings together expertise in public health, animal health and environmental health using integrated, collaborative approaches to solve complex global issues.

This collaboration continues to strengthen our aims for integration of activities and enhancing transdisciplinary cooperation, building capacities, sharing methodologies, surveillance data, and the harmonisation of procedures.

As we continue to build upon and strengthen our collaborative approach, all Project Leaders from our Joint Research and Joint Integrative Projects



Image: Pixabay

were contacted to summarise their activities in a survey.

The results have been collated and will identify common research topics between projects. The outcomes will be published soon.

By supporting the Project Leaders we can encourage collaboration and knowledge sharing to identify synergies and common interests. This will help to build on knowledge that is already available and avoid duplication and overlapping activities.

Looking Forward to activities of 2021

JANUARY
14th: call open

JPI AMR Research Call
One Health interventions to prevent or reduce the development and transmission of AMR
Call opens 14th January 2021
Deadline pre-proposals 16th March 2021
Deadline full proposals 12th July 2021.

FEBRUARY
1st-19th CPD 2021

Continuing Professional Development Module
Digital innovations for One Health practitioners
Organised by our consortium member Federal Institute for Risk Assessment (BfR).
E-Learning Course 1st – 26th February 2021
Online workshop 15th – 19th February 2021.

JUNE
ASM Satellite Workshop

ASM Satellite Workshop
Organised by our consortium member Federal Institute for Risk Assessment (BfR).
This will be an online event.
More information coming soon.

ne HEALTH EJP
Call for Abstract Submissions
Open now until 15 March 2021 (23:59 CET)
www.ohejp2021.com/abstracts-1
ANNUAL SCIENTIFIC MEETING 2021 COPENHAGEN

JUNE
9th-11th ASM 2021

Annual Scientific Meeting
The One Health EJP yearly showcase networking [event](#), this year being hosted jointly by consortium members' Statens Serum Institut (SSI) and Technical University of Denmark (DTU) from Copenhagen 9th -11th June.

AUGUST
26th July - 6th August Summer School

Summer School
Environmental Issues in One Health: from risk assessment to surveillance
Organised by our consortium member, Istituto Superiore di Sanità (ISS), from Rome 26th July - 6th August.

Visit our [website](#) for full details of all our events.

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