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|  | **Agreement for Performance of Work** |

***Draft* Terms of Reference**

This Agreement for Performance of Work (APW) is requested by:

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| Initiator: | Peter Beyer | Reg.#: | 2019/886136 |
| Unit: | Innovation, Access and Use (IAU) | Cluster / Dpt.: | Essential Medicines and Health Products (EMP) |

1. ***Purpose of the Agreement for Performance of Work***

To support the IAU team in the implementation of the *Global Action Plan* on Antimicrobial Resistance (AMR) by supporting data mining, cleaning and analysis of products in the pre-clinical pipeline to tackle antibiotic resistance to inform WHO’s first pre-clinical pipeline review in 2019 and assist in other related projects.

1. **Service Provider’s Name**

TBD

1. ***Background***

AMR is an increasingly important global public health challenge that requires a comprehensive "One Health" approach. The increased emergence and spread of AMR worldwide is resulting in more and more antibiotics becoming ineffective to treat common bacterial infections. As a response, the Global Action Plan on AMR was endorsed by the World Health Assembly resolution WHA68.7 (2015). Objective five of the Global Action Plan is to increase research and development (R&D) for new antibacterial treatments and optimize the use of existing and new antibiotics. Further political commitments to implement the global action plan and foster R&D of new antibiotics was shown at the United Nations General Assembly at its Seventy-First Session in 2016 at a high-level meeting on antimicrobial resistance and more recently in 2017 at the meeting of the Group of 20.

In response, in September 2017, WHO released the priority pathogens list including TB to prioritize R&D efforts for new. Coupled with this report, the WHO undertook the first global analysis of antibacterial agents in clinical development. The analysis identified that the current pipeline is insufficient to combat AMR.

WHO is expanding its scope to include a review of the pre-clinical pipeline to tackle AMR. To facilitate the compilation of data from a WHO data call and other targeted sources of products in the pre-clinical pipeline, it is proposed to hire a short-term junior contractor to support data mining, cleaning and analysis as well as report writing. The data from the analysis will feed into the WHO Global Observatory on Health Research and Development (R&D).

1. ***Work to be performed***

Objective 1: Collate and clean the data collected from the WHO data call and other sources on products in the pre-clinical pipeline in close discussion with the IAU team and senior WHO consultant.

Output 1.1: Collate the pre-clinical pipeline data collected through the WHO data call and from experts in China, Japan and Russia and other countries and any additional sources into an excel file.

Output 1.2: Review the collated excel file and clean the data to avoid duplication, validate data submitted and fill gaps through review of supporting documents, internet searches and information requests. Communicate with project partners to verify data quality and fill gaps in close collaboration with IAU Team.

Output 1.3: Based on the quality reviewed data, develop supporting graphs and tables on the pre-clinical pipeline that aggregate data by different variables e.g. pre-clinical development stages, product types, spectrum the products target, infection stages etc.

1.4: Finalize the excel file of pre-clinical pipeline to be uploaded onto the WHO Global Health R&D Observatory

Objective 2: Support development of the WHO pre-clinical pipeline report to tackle AMR

Output 2.1: Develop an outline of the pre-clinical pipeline report based on a review of the pre-clinical data set, including graphs and visualization

2.2: Develop a draft report on the pre-clinical pipeline review with support from the IAU team and the senior WHO consultant

2.3: Based on the input from the IAU team and WHO consultant finalize the draft report of the 2019

pre-clinical pipeline report

1. ***Deliverables***
2. Draft excel file of the compilation of products in the pre-clinical pipeline following the WHO methodology with supporting table and graphs
3. Final excel file of the 2019 pre-clinical pipeline for uploading onto the WHO Global Health R&D Observatory
4. Draft report on the 2019 pre-clinical pipeline report to tackle AMR
5. Final report on 2019 pre-clinical pipeline report to tackle AMR
6. ***Your WHO contact person***

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| **Responsible Officer:** | Sarah Paulin, EMP/IAU | **Email:** | paulins@who.int |
| For the purpose of: | Technical supervision and instructions - Reporting | | |
| **Administrative Officer:** | Sandra Kotur Corliss, EMP/IAU | **Email:** | koturcorlisss@who.int |
| For the purpose of: | Contractual and financial management of the contract | | |

1. ***Timelines (TBD)*** *part-time*

Start date: March 2019 End date: August 2019

1. ***Place of assignment***

Not specified

1. ***Travel***

1-2 travels to Geneva, Switzerland might be needed, which it will be calculated in separate way from proposed offer in Economy class

1. ***Characteristics of the Provider***

Qualifications required:

* MSc. in microbiology, molecular biology, epidemiology, organic chemistry or another field related to antibiotic drug discovery

Experience required:

* At least 5 years of relevant experience in the area of microbiology, antibacterial drug R&D and/or antimicrobial resistance.
* Experience in data analysis and epidemiology.
* Excellent writing skills demonstrated through peer-reviewed publications on clinical microbiology, epidemiology and/or antimicrobial resistance

Language requirements:

* English – proficient (reading, writing, speaking)