



# Fellowship grants (2022)

## “One Health Summer Class”

### OH approach to fight antimicrobial resistance

#### **I. CONTEXT OF THE CALL AND THE OHSEA PROJECT**

This call takes place in the context of the OHSEA project, <https://ohsea.ird.fr/>, funded by the Ministry of Europe and Foreign Affairs under the Solidarity Fund for Innovative Projects program (FSPI). One objective of the project is to contribute to the reinforcement of the skills of students, professionals and decision-makers in a One Health Environment approach (through training in interdisciplinarity and inter-sectoriality) and to contribute to supporting or consolidating emerging One Health projects in practice.

This project is also a first step in structuring a research community with a view to setting up actions within the framework of the global PREZODE program launched at the One Planet Summit in January 2021.

#### **II. SCOPE AND OBJECTIVES OF THIS CALL WITHIN OHSEA FOR 2022**

Since the 1960's antimicrobials have been widely used in aquaculture and terrestrial food animal production to contain potentially large-scale epizootics, to prevent spillover of zoonotic bacteria into the food chain, and to increase productivity. This widespread use of antimicrobials in food animals contributes—by means of natural selection—to the emergence of antimicrobial-resistant bacteria (ARB) and has significant public health implications: ARB of animal origin can be transmitted to humans through the environment and food chain and to agricultural workers by direct contact. Antimicrobial resistance is now a major threat to public health, with the potential to affect anyone, of any age, in any country. In the EU an estimated 25,000 deaths occur annually consecutively to multi-drug resistant infections, with an estimated economic impact of 1.5 billion € per year. WHO reports a very high proportion of resistance observed in bacteria that cause common infections in all regions. So AMR is becoming a major concern for the main international organizations (FAO, OIE, WHO the Bank World) and these international agencies promote a drastic reduction in the use of antibiotics, especially in food animals' production including aquaculture. To achieve this objective, interdisciplinary actions (with biology, medical science, SHS), in all sectors of farming systems (from traditional to

industrial) are needed. Indeed the issue of antimicrobial resistance should be considered, studied and managed at the interface between public health, animal health and the environment according to One Health (OH) and (EcoH) EcoHealth approaches. Multi-sectoral cooperation and strong partnerships within South-East Asia will contribute in preventing, detecting, containing, eliminating, and responding to **animal and public health risks** attributable to antimicrobial resistance.

## II.1 Scope of this call

### II.1.1 Scope

The OHSEA project launches a call for candidates in order to emphasize high level scientific exchanges within South East Asia on the scope identified. This call is directed to young Southeast-Asian Doctorates and/or Master students, who intend to carry on research carriers in the scope of SEA technical and scientific collaboration.

This program is based on a selective call for candidates.

**The call of fellowship grants will have to focus on the thematic of ONE HEALTH to combat AMR, as interdisciplinary collaborations and communications in all aspects of health care for humans, animals and the environment.** Therefore, every disciplines linked to the Management of Emerging Epidemic Risks are involved: **Veterinary medicine, Public Health, Ecology, Economics, Sociology, Genomic, Modelling Sciences, Biostatistics**, etc

### II.1.2 Duration and planning of the mobility

This One Health Summer Class is defined as a moment of scientific exchanges and discussions open to PhD and Master Students. It will be organized in to steps:

- Firstly, in August 2022, in Vietnam (8 days at NIVR – National Institute of Veterinary Research, Hanoi) in collaboration with the Research Unit “ASTRE” led by Dr. Nathalie Vachier. Due to their nature, functions and uses, wild and domestic animals are a factor of stability for human communities, but they also are a vulnerability factor for health, the environment, and development. In response, scientists at the ASTRE research unit have chosen to focus their work on the health risks that can undermine societies and ecosystems in the South.
- Secondly, in November 2022 in Thailand (8 days in Kasetsart University, Bangkok), in collaboration with the Faculty of Veterinary Medicine and the GREASE platform. The GREASE network promotes since 2012, a “One Health” approach, taking account of the interdependence of social and epidemiological dynamics, biodiversity and health, and veterinary and human public health in order to prevent and control these diseases.

Considering the fact that the One Health Summer Class is organized as a return event, priority will be given to PhD Students.

The One Health Summer Class will put together a mix of students in terms of curriculum (PhD and several Master) and of nationality (opened to students from all South-East Asian countries). Please note that the participation will be limited to 8 students.

The One Health Summer Class will be organized and cadenced around contributions of eminent scientists (from Oxford University, City University Hong Kong, ILRI, Pasteur Institutes, IRD, CNRS), work on case studies, visit of laboratory or field visit.

**The first round of the One Health Summer Class will take place in Hanoi between the 22<sup>nd</sup> and 30<sup>th</sup> of August 2022.**

## II.2 Eligibility requirements and Selection process

Applicants will be shortlisted on the basis of their files. In order to identify grant recipients, the selection committee will consider:

- The candidate's skills and merit as borne out by his/her academic record and professional background;
- The strong and firm interest of the candidate in pursuing studies in regard of his/her previous studies and professional project;
- The quality of his/her studies project;
- The level of proficiency in English and its adequacy with the suggested curriculum.

## II.3 Scholarship terms

### II.3.1 Conditions & Important information regarding the fellowship

- Candidate should be less than 35 years old on June 1st 2022;
- In case of studies break or ending, the fellowship will automatically be cancelled;
- The fellowship includes
  - Accommodation during the 8 days in Hanoi and in Bangkok, and living expenses
  - Travel fees (plane ticket/ railway tickets)
  - Organization fees

### II.3.2. Commitments of the grant holder

The fellowship recipient commits him/herself to:

- Deliver a small report to the coordinator of the OHSEA project and the host institution at the end of the stay;
- Attend the intensive full-time in the 2 countries;
- Respect the studies project he/she has been selected for;
- Before departure to Vietnam, be in possession of the official attestation of fellowship, the original copy of his/her diploma and all necessary documents.

## II.4 Selection schedule

- Deadline for submission: **15 juillet 2022**
- Interview will be possible of the shortlisted candidates : **24-25 July 2022**
- Publication of the final list of recipients : **27 July 2022**
- Departure to Vietnam: **21<sup>st</sup> August 2022**

## II.5 Publication of the results

Fellowship recipients will be contacted individually

## II.6 Application file

The scholarship application file to be submitted must include:

- An up-to-date résumé stating the entire academic curriculum;

- A cover letter explaining the planned/current PhD project, motivations, interests in the One Health thematic and in the SEA collaboration;
- Letter of support / recommendation by his Director of Postgraduate studies;
- A copy of passport / ID;
- Copies of academic diploma (Bachelor, Masters).

### **III. WHERE TO SEND THE APPLICATION?**

**THE APPLICATION HAS TO BE SENT BEFORE THE 15/07/2022 BY EMAIL ADDRESS TO :**

to [serge.morand@umontpellier.fr](mailto:serge.morand@umontpellier.fr) , [clarisse.veylon@diplomatie.gouv.fr](mailto:clarisse.veylon@diplomatie.gouv.fr) and [flavie.goutard@cirad.fr](mailto:flavie.goutard@cirad.fr)

**FOR MORE INFORMATION ON THE STAY AND ACCOMODATION IN VIETNAM, PLEASE CONTACT:**

**At GREASE Hanoi Office :**

Nguyen Thi Thanh Hang (Assistant): [epivietnam.cirad@gmail.com](mailto:epivietnam.cirad@gmail.com)

Etienne Loire (Coordinator): [Etienne.loire@cirad.fr](mailto:Etienne.loire@cirad.fr)

**FOR MORE INFORMATION ON THE STAY AND ACCOMODATION IN THAILAND, PLEASE CONTACT:**

**At GREASE Bangkok Office :**

Jintana Thanarotewatana (Assistant): [jintanatha@gmail.com](mailto:jintanatha@gmail.com)

Etienne Loire (Coordinator): [Etienne.loire@cirad.fr](mailto:Etienne.loire@cirad.fr)