

JULY 8th
TO
AUGUST 3rd

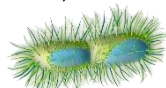
One Health (OH) approach to fight antimicrobial resistance



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.

Antimicrobial resistance (AMR) is now a major threat to public health, with the potential to affect anyone, of any age, in any country. To reduce drastically the use of antibiotics, international agencies (FAO, OIE, WHO...) promote interdisciplinary actions (with biology, medical science, SHS), in all sectors of farming systems (from traditional to industrial). The issue of AMR should indeed be considered, studied and managed at the interface between public health, animal health and the environment according to One Health and EcoHealth approaches.

The Agricultural Research Centre for International Development (Cirad) is a French research and international cooperation organization working in tropical and Mediterranean regions. Cirad supports agricultural development, shares new knowledge and participates to the debate on the main global issues concerning agriculture in the global South. From field to laboratory, from local to global scale, Cirad aims to address development needs of about 90 partner countries all over the world. www.cirad.fr



Program - The scientific and cultural schedules are complementary and conceived as a consistent whole.

Cirad proposes the following draft and indicative planning:

Sunday July 8 a.m. Welcome of participants in Montpellier
Monday July 9
a.m. Introduction to AB action and resistance: a global issue antibiotic
p.m. Intensive French courses
Tuesday July 10
a.m. Introduction to OH / Ecohealth approaches applied to AMR
p.m. Intensive French courses
Wednesday July 11
a.m. Detecting and identifying resistance: from AST to Genome analysis
p.m. Laboratory session on AST and interpretations
Thursday July 12
a.m. AMR in animal production: comparing EU and SEA practices
p.m. Intensive French courses
Friday July 13
a.m. AMR in medical practices: challenges in developing countries
p.m. Tourism excursion : Montpellier old city
Saturday July 14 (French National Day) and **Sunday July 15** - Free days
Monday July 16
a.m. AMR in aquaculture (e.g. in South East Asia)
p.m. Intensive French courses
Tuesday July 17
a.m. AMR in wild life
p.m. Intensive French courses
Wednesday July 18
a.m. AMR in plants
p.m. Tourism excursion: Medical faculty
Thursday July 19
a.m. The tripartite global action: FAO, OIE, WHO. Risk Analysis for AMR
p.m. Intensive French courses
Friday July 20
a.m. Surveillance OH: case-study of AMR surveillance in Vietnam
Brainstorming on challenges of OH surveillance
p.m. Development of OH and Surveillance System against AMR in China
Saturday July 21 - Exploring the surrounding areas: Cévennes
Sunday July 22 – Free day

Monday July 23

a.m. Practices / Behaviours of AMU in EU and SEA

p.m. Intensive French courses

Tuesday July 24

a.m. Development of OH and surveillance system against AMR in China

p.m. Intensive French courses

Wednesday July 25

a.m. / PM Field visit of farming system in France

Thursday July 26

a.m. Development of OH and surveillance system against AMR in China

p.m. Intensive French courses

Friday July 27

a.m. Case study: VIPARC project in Vietnam

Needs of policy to stop the AMR diffusion

p.m. Tourism excursion : Art museum (Montpellier)

Saturday July 28 - Exploring the surrounding areas: Sète - Etang de Thau

Sunday July 29 (Free day)

Monday July 30

a.m. Participatory modelling (ComMod): a One health approach

p.m. Intensive French courses

Tuesday July 31

a.m. Applying ComMod and role playing games to AMR control

p.m. Intensive French courses

Wednesday August 1st

a.m. Workshop on scientific publication writing, laboratory visits

p.m. Development of OH and surveillance system against AMR in China

Thursday August 2nd

a.m. Surveillance system against AMR (group work restitutions)

p.m. Intensive French courses

Friday August 3rd

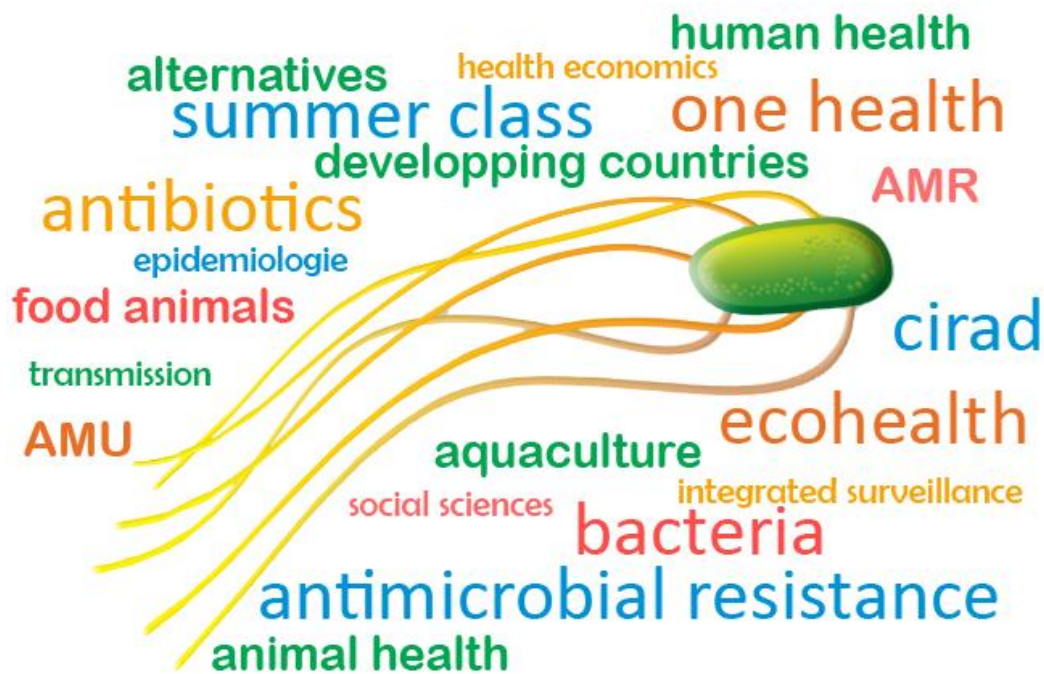
a.m. Surveillance system against AMR (group work restitutions)

p.m. Evaluation of the Summer School. Brainstorming about future research projects (PhD)

Farewell dinner

OH: One Health ; AMR: Antimicrobial resistance ; AST: Antimicrobial susceptibility test

AMU: Antimicrobial use ; EU: European Union ; SEA: South-East Asia



Cultural program

French courses:

Three afternoons a week, participants will attend intensive French as a foreign language courses conducted by specialised teachers from IAMM language Centre (<http://www.iamm.ciheam.org/en/education/cfle>). The lessons, adapted to their level will allow them to deepen their oral and written competences and introduce them to the rich French culture and history.

Discover South of France:

The summer Course will take place in Montpellier, a dynamic and young town gathering more than 70 000 students per year from all origins. Montpellier is ideally situated in the South of France between the Mediterranean sea and the mountains. Its rich cultural heritage makes it an attractive place to stay.



<http://www.tourisme-occitanie.com/>

During the Summer course, three afternoons will be dedicated to cultural visits in English in Montpellier. For example, Montpellier historical town centre guided tour, visit of the art Museum (<http://museefabre-en.montpellier3m.fr>), Montpellier historical Medicine and Pharmacy University with its anatomical collection, etc.

During the weekends, two 1-day discovery tours will be proposed (for example, discovery of the Camargue or Cévennes region, Sète harbour and Etang de Thau, etc.).



Public & application

You are a master's degree student and you would like to do a PhD in France?

To apply: <http://astre-tools.cirad.fr/enquetor/index.php/552286>

Deadline for registration: 2nd April 2018

For more information: estienne@cirad.fr



Participation fee:

3 500 euros

The price includes:

Trip Paris ↔ Montpellier,

Accommodation, meals and local transportation.

Important: the price does not include the trip from your country to Paris.

