# Spatial epidemiology meeting, 2024 edition

We are looking forward to host you in Louvain-la-Neuve on Septembre 19th and 20th!

The meeting will take place in room Océan in the building de Serres at place Croix du Sud.

**Thursday 19th of September**

**10:30-10:50 Welcome + house keeping**

**Session 1: Livestock – Chair: Sophie Vanwambeke**

10: 50 Spatiotemporal risk modeling for Highly Pathogenic Avian Influenza transmission based on seasonal wild bird distribution – Georges Wittle

11:10 The Importance of Spatial Vector Distribution Models to Prevent Tick-Borne Diseases in Cattle in Ecuador – Ximena Pérez

11:30 Poultry intensification and emergence of Highly Pathogenic Avian Influenza – Maria Vicenti

11:50-12:10: Discussion and round of questions

**12:10-13-10: LUNCH**

**Session 2: Climate – Chair: Simon Dellicour**

13:10 Impact of climate fluctuations on the distribution patterns of nephropathia epidemica cases in western Europe – Diana Erazo

13:30 Modélisation de la favorabilité climatique de la transmission du paludisme au Rwanda – Louis Beautrix

**Session 3: Modelling – Chair: Simon Dellicour**

13:50 Modelling the impact of farm distribution patterns and intensification scenarios on disease risks in Southeast Asia: a spatial point process approach – Marie-Cécile Dupas

14:10 Participatory risk assessment of viral haemorrhagic fevers in support of surveillance in Cameroon: the case of Ebola virus disease and Rift Valley fever - SOPBUE KAMGUEM INES

14:30 Applications of spatial modelling of vector-borne diseases: Where? When? How many? – Cédric Marsboom

**14:50– 15:10 COFFEE BREAK + speed meet**

**Session 3: Modelling (second part) – Chair: Catherine Linard**

15:10 Assessment of COVID-19 contact tracing network precision via phylogenetic analysis of community-level SARS-CoV-2 genomic data - Jonathan Thibaut

15:30 The geography of tuberculosis mortality in Belgium between 1889 and 1991: a descriptive analysis – Valentin Charlier

15:50 Tracing more than two decades of Japanese encephalitis virus spread in mainland China – Fabiana Gambaro

16:10 A large-scale phylogeographic workflow: comparative analysis of methodologies used for SARS-CoV-2 lineage B.1.525 – Yimin Li

16:30 -16:40 Discussion and round of questions

**16:40-Field trip - Living in Louvain-la-Neuve: From Alternative Housing at La Baraque to New Developments in Courbevoie**

**18:30 DINNER**

**Friday 20th of September**

**Session 4: Environmental and societal monitoring - Chair: Diana Erazo**

9:00 Analyse géographique des inégalités socio-spatiales des morbidités et des mortalités maternelles et infantiles dans la ville de Dakar Mame Wodji Tine

9:20 Urbanization and intra-urban inequalities: A spatial analysis of mosquito-borne diseases in East Africa – Noël-Kanini Joseph

9:40 Improving malaria predictions in Senegal: a hazard-vulnerability framework – Camille Morlighem

10:00 An index of rurality in the Belgian medical context – Catherine Linard

10:20 Can citizen-generated data match expert models in predicting snail probability of presence? – Noelia Valderrama (KUL/Africa Museum)

**10:40 COFFEE BREAK**

**Session 5: Environmental and societal drivers of health and disease – Chair: Maria Vicenti**

11:00 Which environmental factors drive the emergence and circulation of dengue virus in Europe? - Kyla Serres (extended session for preparation to FRIA interview)

11:40 Les facteurs géographiques favorisant la persistance du paludisme dans les foyers de transmission résiduels (hotspots) au centre-ouest du Sénégal – Assane Ndiaye

12:00 Unravelling socio-environmental inequality at the street level: a refined typology of Brussels' urban fabrics – Madeleine Guyot

12:20 Spatio-temporal analysis of dengue epidemics in Argentina (2009-2023): The contribution of socio-economic factors – Joséphine Piette

12:40 Discussion and round of questions

**12:50 Lunch and goodbye**