



**Summer school**  
***“One health approaches to study climate sensitive infectious diseases”***  
**Preliminary program**

**Monday 12 August 2024**

**Introduction to climate change and infectious diseases**

09.00 – 12.30	Climate change scenarios in the Netherlands	Prof. dr. Pier Siebesma TU Delft/KNMI
	Setting the scene: Climate sensitive infectious diseases in a changing world	Prof. dr. Marion Koopmans Erasmus MC - NL
	Climate change-driven infectious disease dynamics – a modelling based-approach	Prof. dr. Joacim Rocklöv University of Heidelberg - GER
	One health approaches to study mosquito-borne viruses	Dr. Reina Sikkema Erasmus MC - NL
12.30 – 13.30	Lunch	
13.30 – 17.30	Outbreak game	All
	Introduction to Capstone projects	All
16.30 – 17.30	Tour through Erasmus MC	All
17.30 – 19.00	Drinks – rooftop garden Erasmus MC	All

**Tuesday 13 August 2024**

**Climate sensitive infectious diseases: One Health case studies**

09.00 – 12.30	Zoonoses in the night (ZITN) Pandemic prevention and early detection of bat-transmitted viruses in balance with the protection of bats	Dr. Lineke Begeman Erasmus MC - NL
	One Health Pact: Predicting Arboviruses Climate Tipping Points	Dr. Reina Sikkema Erasmus MC - NL
	Decision- support tools to build climate resilience against emerging infectious diseases in Europe	Prof. Dr. Joacim Rocklöv University of Heidelberg- GER
	Using genomics to study outbreaks on the human-animal interface	Dr. Bas Oude Munnink Erasmus MC -NL
12.30 – 13.30	Lunch	
	Citizen Science	
13.30 – 15.30	Arbovirus risk in travelers and bird ringers, a citizen science approach	Louella Kasbergen Erasmus MC - NL
15.30 – 17.30	Group work: Capstone project	All





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Wednesday 14 August 2024		
Surveillance of vectors and hosts		
07.00 – 11.45	Field trip: Surveillance of vectors and hosts – traditional and innovative approaches	All
11.45 – 12.30	Lunch – Erasmus MC park	
	Field data analysis	
12.30 – 15.00	<ul style="list-style-type: none"> <li>Workshop: combined eDNA and virus genetics</li> <li>Workshop: working with bioacoustics data</li> <li>Workshop: Mosquito differentiation and IHC</li> <li>Workshop: Added value and implementation of serological approaches</li> </ul>	All
15.30 – 17.30	Group work: Capstone project	All
Thursday 15 August 2024		
Adapting to the effects of climate change		
09.00 – 12.30	Field activity: walk through Rotterdam to visit NbS and assess effects on mosquitos	All
12.30 – 13.30	Lunch – take away lunch	
13.30 – 15.00	Unknown effects of salinization on mosquito populations and vector competence	Maarten Schrama University of Leiden-NL
	Vector-borne diseases as unintended consequences: introduction to methods to study design for evaluation of Nature based Solutions (NbS)	Marina Treskova University of Heidelberg-GER
15.00 – 16.00	Workshop: The process of co-creation in urban climate adaptation measures	Floris Boogaard Deltares
16.00 – 17.00	Group work: Capstone project	All
18.00 – 20.30	River cruise with captain's dinner	All
Friday 16 August 2024		
Thinking ahead: data collection for modelling		
09.00 – 12.30	Added value and challenges of combining field data from different sources in arbovirus modelling	Quirine ten Bosch WUR-NL
	Do's and don'ts in data collection for modelling purposes	Marina Treskova University of Heidelberg-GER
	challenges of structured data collection when working with volunteer citizen scientists – disease surveillance in wild birds	Henk van der Jeugd NIOO-KNAW
12.30 – 13.30	Lunch	
13.30 – 16.00	Presentations Capstone project	All
16.00 – 17.00	Closure of summercourse	All