

Virus research at ITM Antwerp

Kevin K. Ariën & Koen Bartholomeeusen

Virology Unit, Institute of Tropical Medicine Antwerp, Belgium

E: karien@itg.be | P: +32 3 2476631 | www.itg.be



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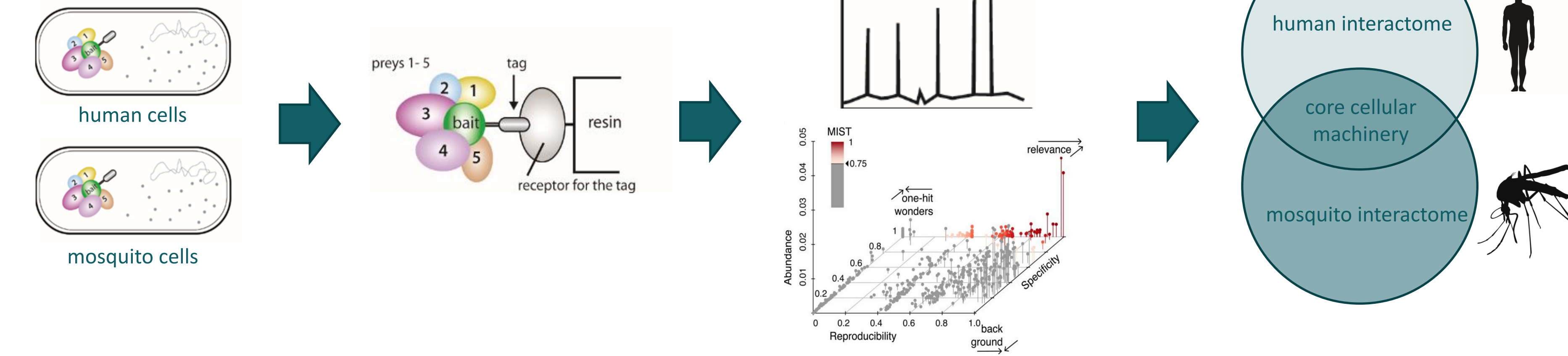
Emerging & re-emerging arthropod-borne viruses

1. Chikungunya virus protein interactions in host and mosquito vector

Transient expression of N-term and C-term Strep-tagged nsPs

Affinity purification of nsPs and associated proteins

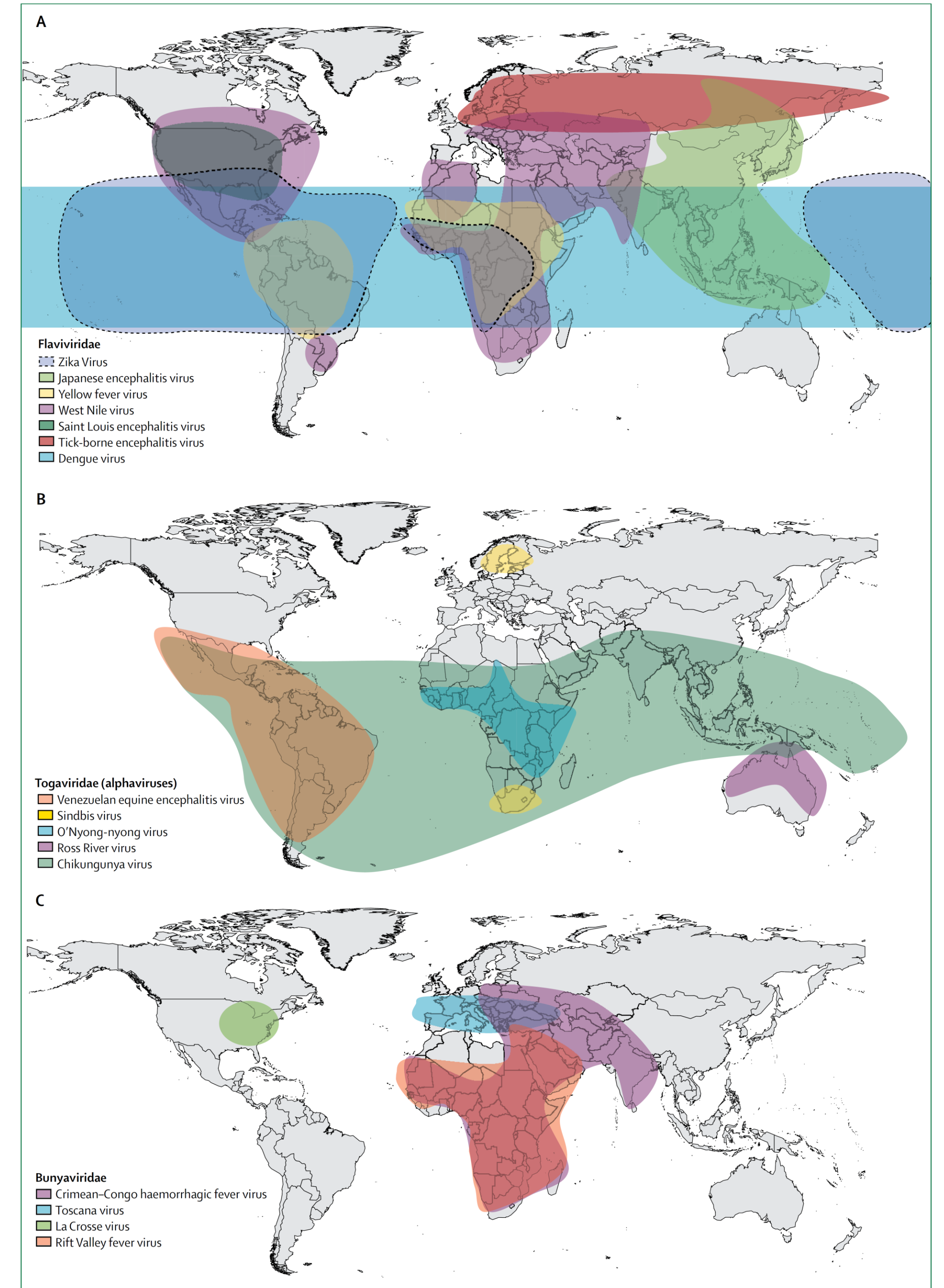
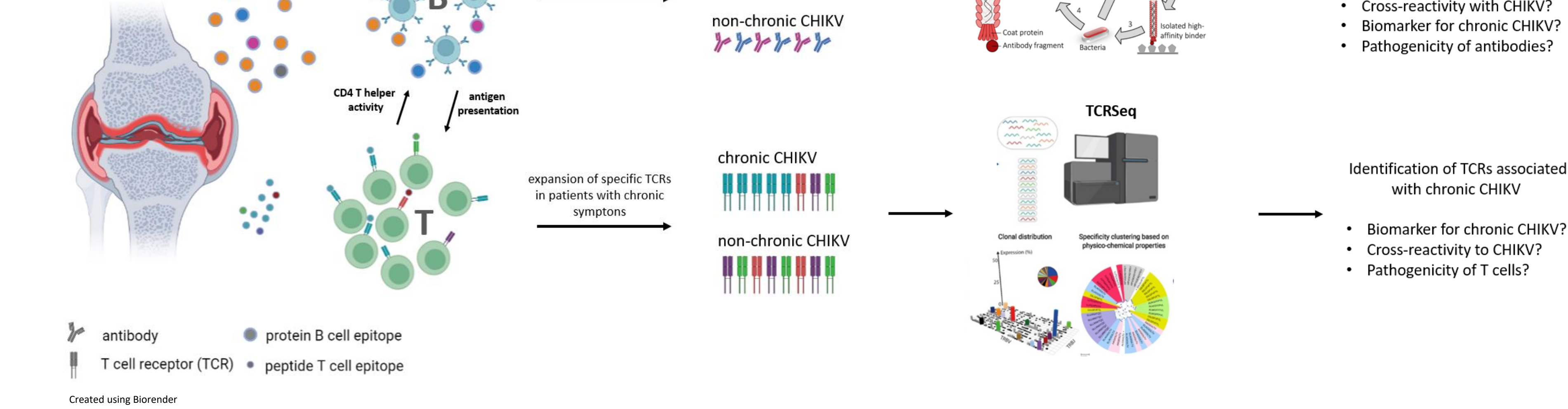
MS identification + MiST analysis



2. Role of adaptive immune response in chronic chikungunya disease

Antigenic driver of chronic CHIKV?

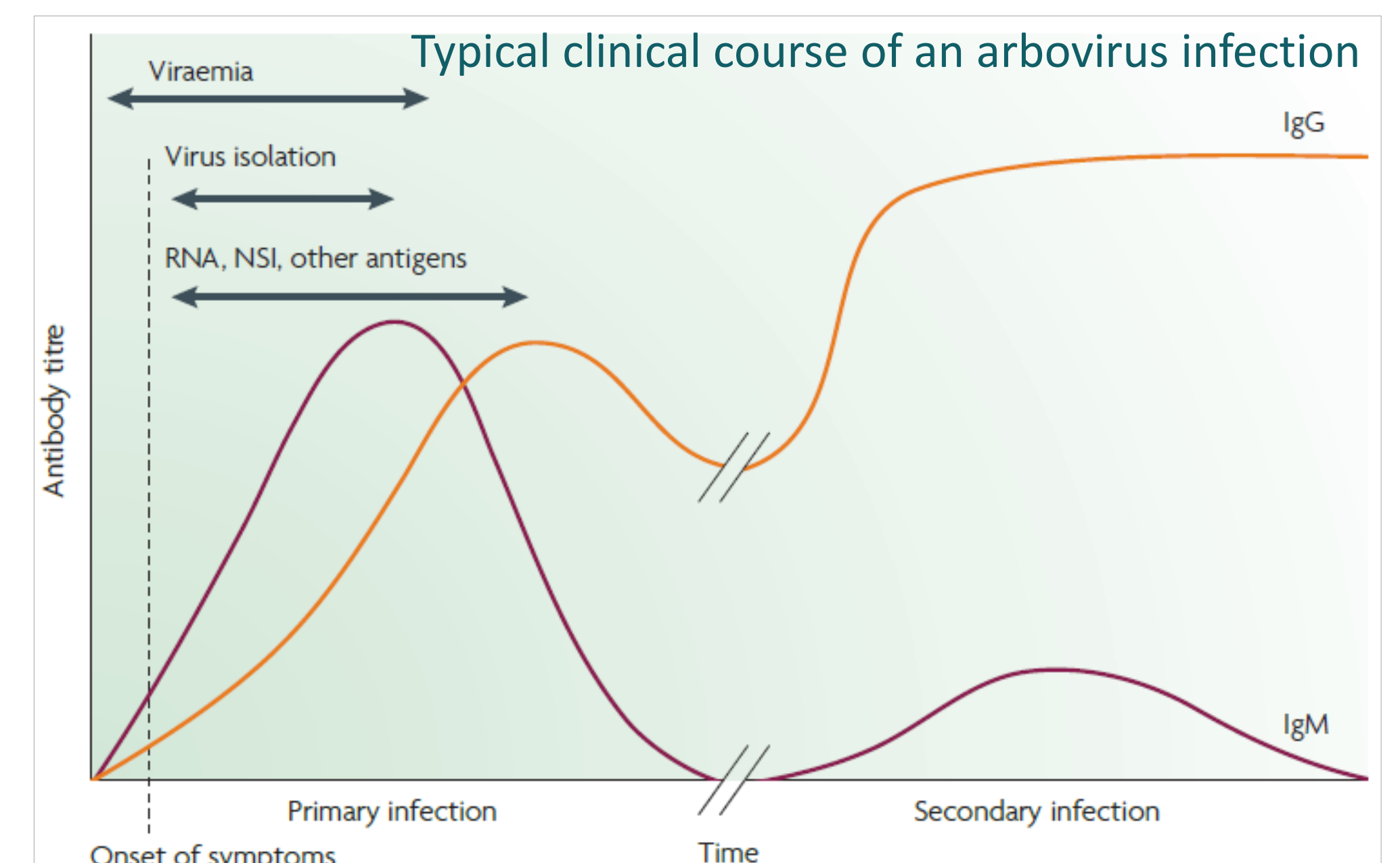
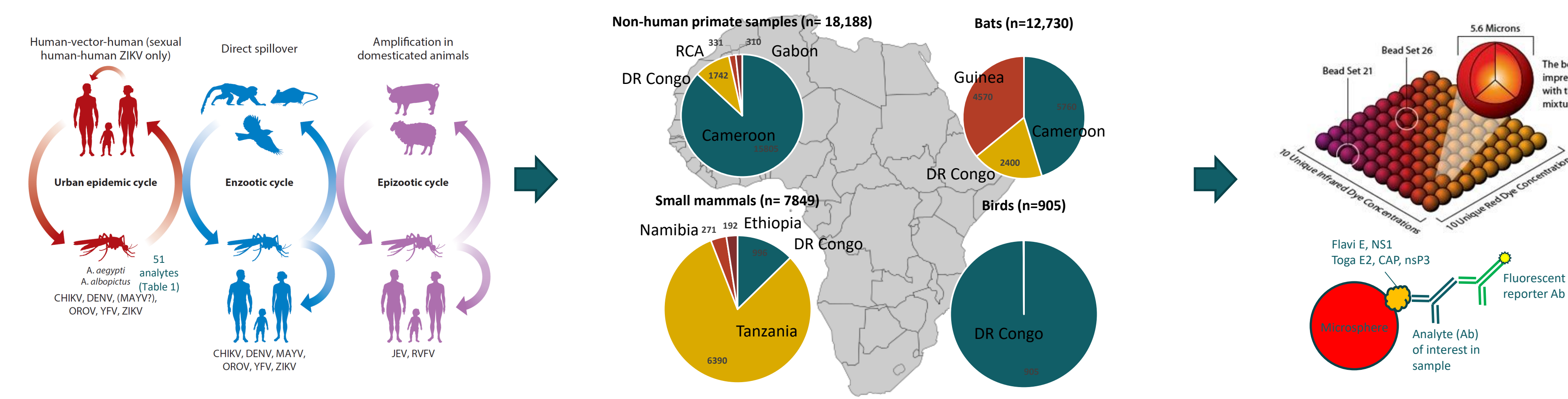
- * persistent virus
- * molecular mimicry
- * autoantigens



Global distribution of major arbovirus infections

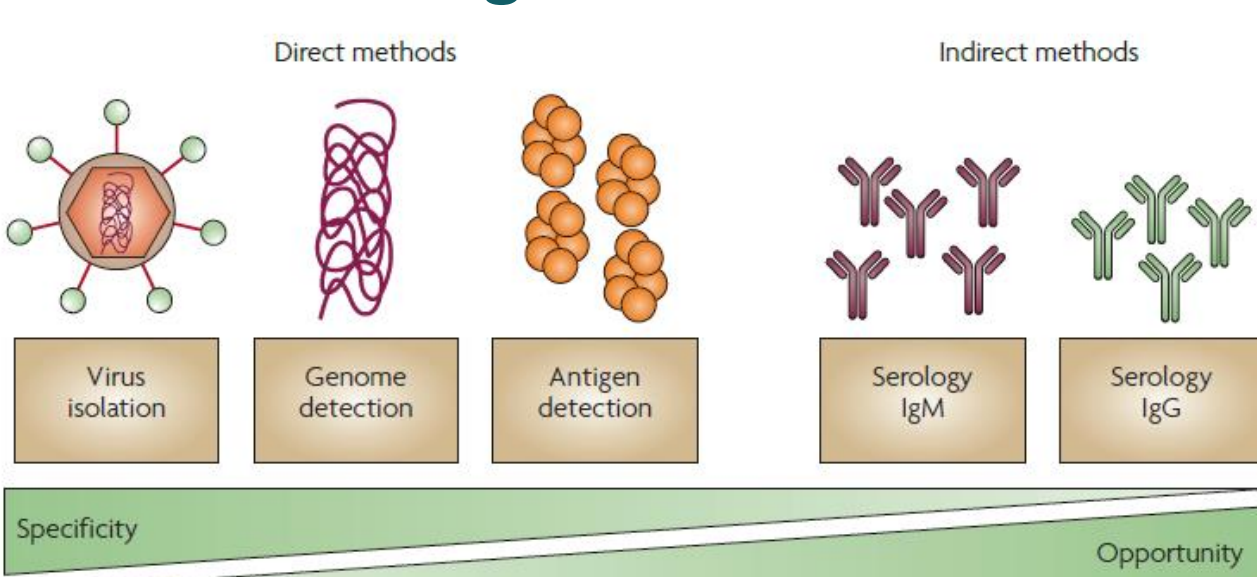


3. Identifying sylvatic reservoirs of flavi- and alphaviruses

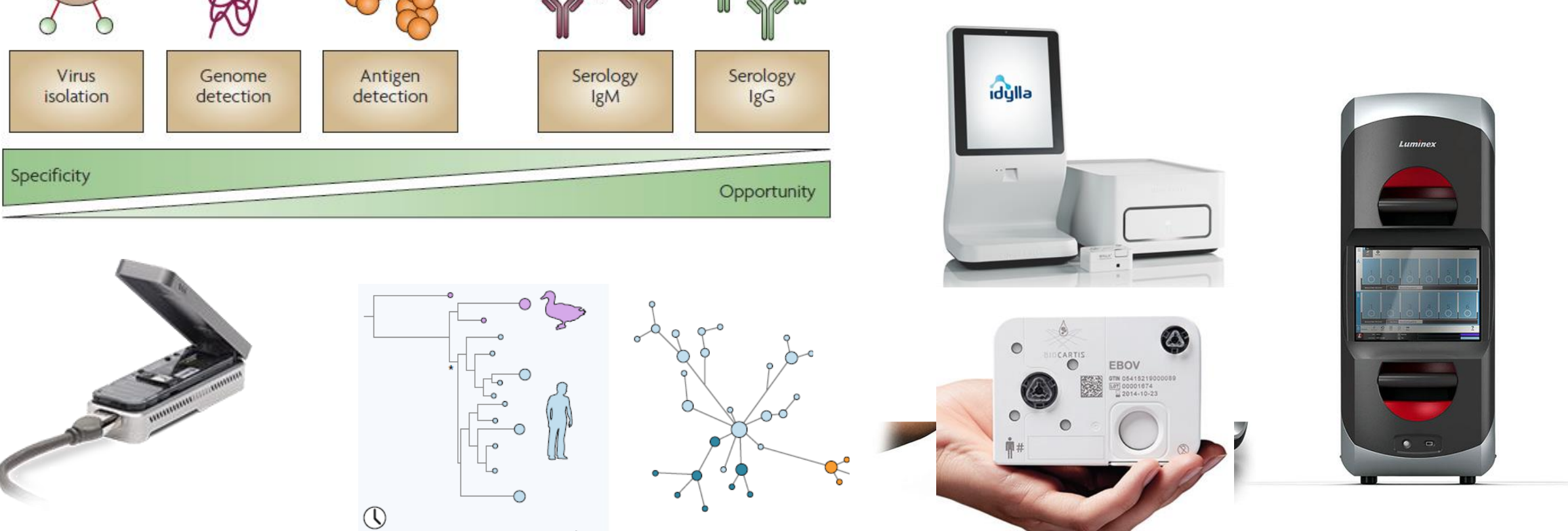


4. Development of new multi-pathogen diagnostic tools

Arbovirus diagnostic methods

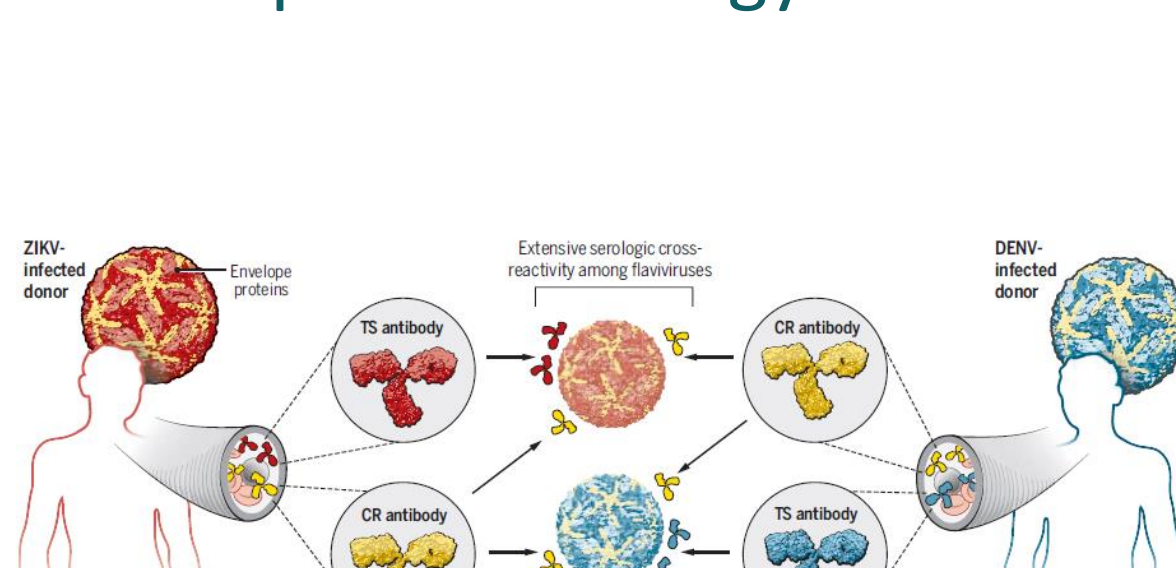


Molecular diagnostics for syndromic approach of acute fever



Minion NGS in outbreak context

More specific serology tests



Peptide microarray technology

Team & funding

