Unique nearest 5 neighbours   **Unique nearest 20 neighbours**   **Unique nearest 50 neighbours**
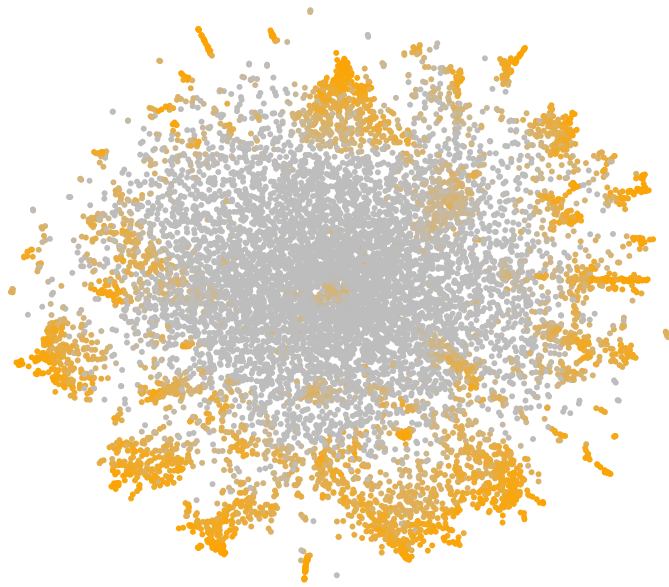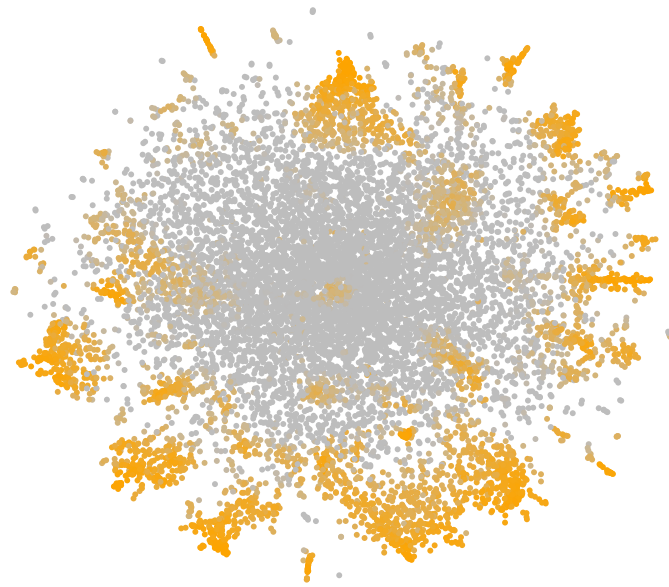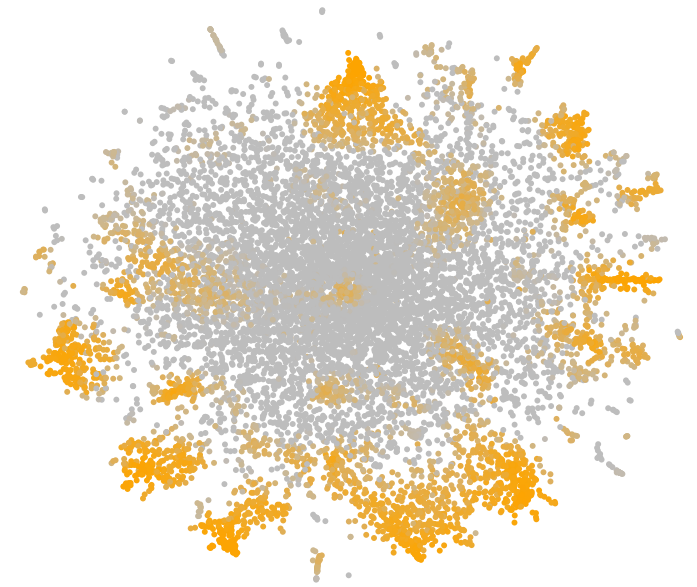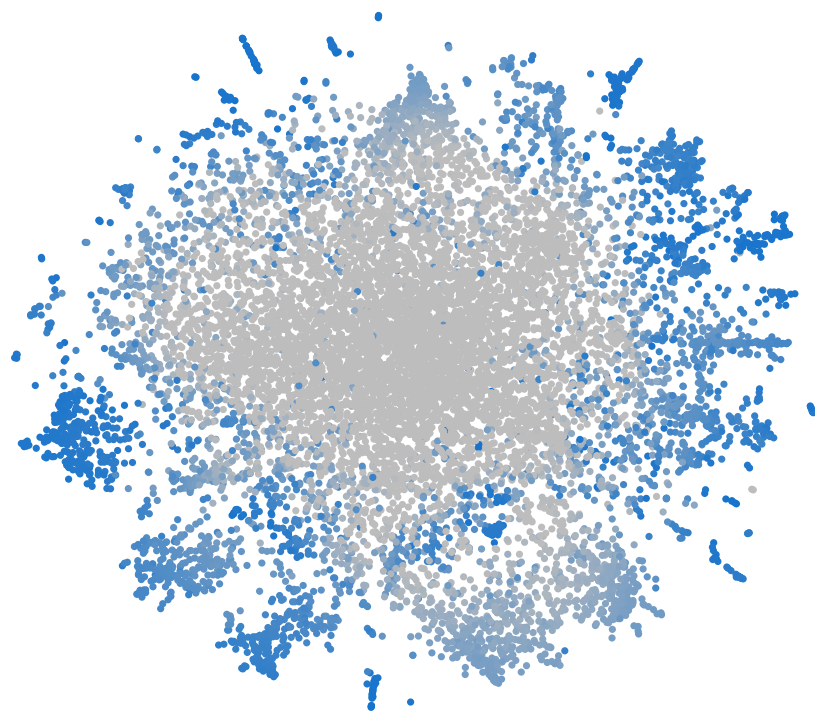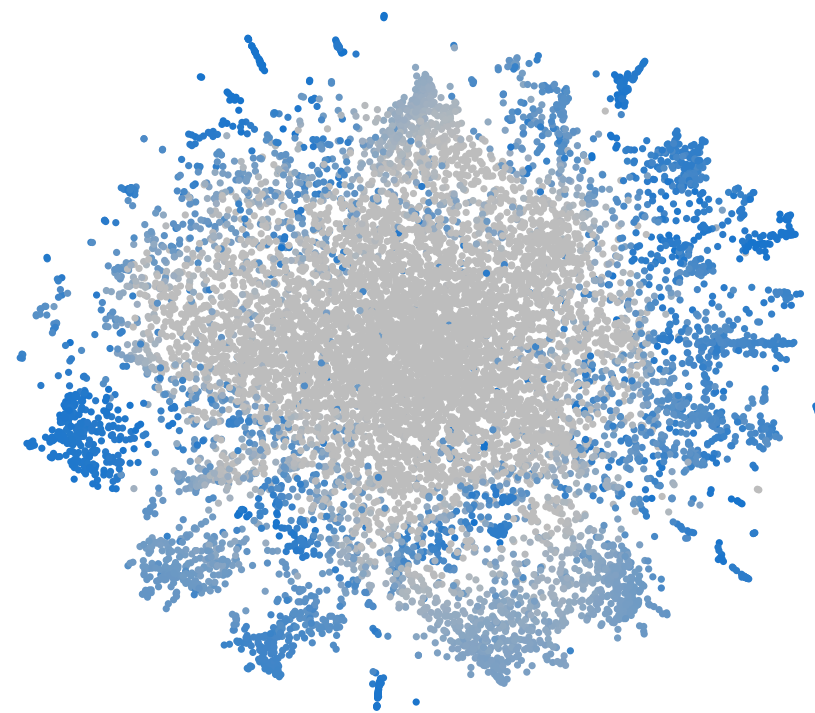
S2 Fig

Mean   **Median**

S3 Fig
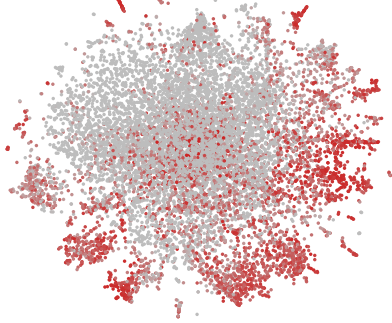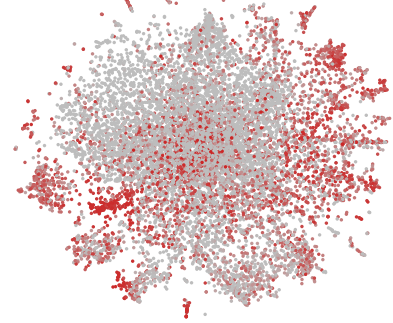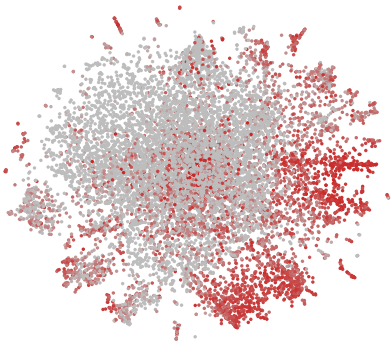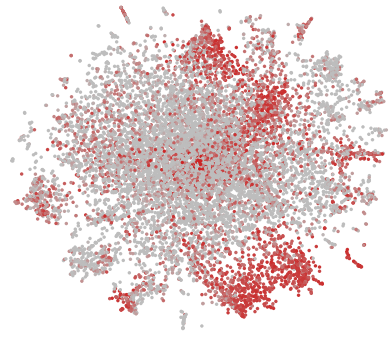
Angola
A. coluzzii
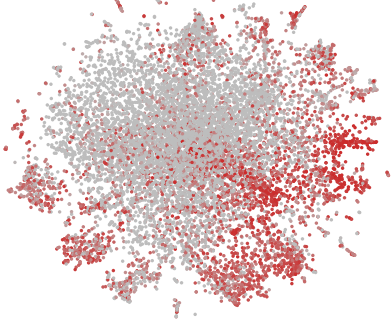
Cameroon
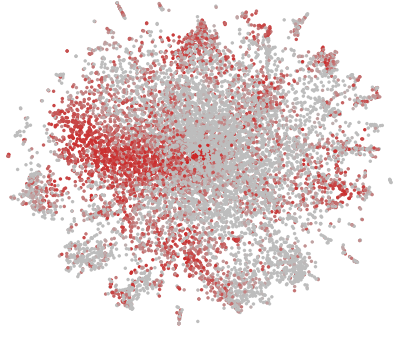*A. gambiae s.s*

Guinea-Bissau
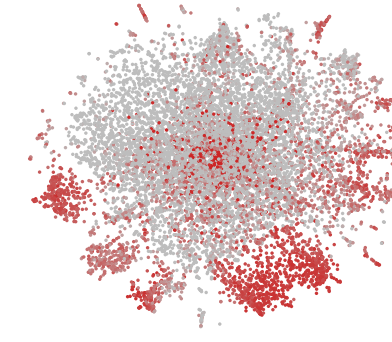*A. gambiae.s.s & A. coluzzii*

Burkina Faso
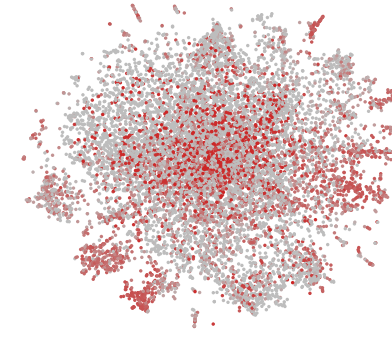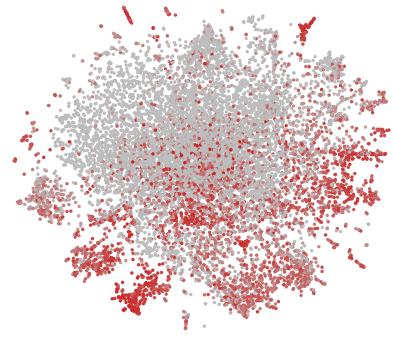*A. coluzzii*

Gabon
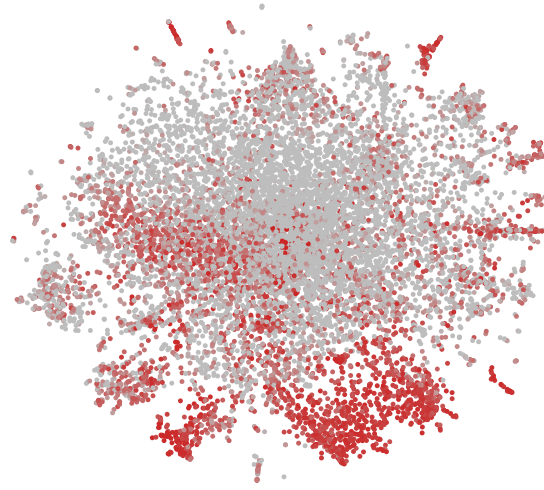*A. gambiae s.s*

Kenya
A. gambiae s.s

Burkina Faso
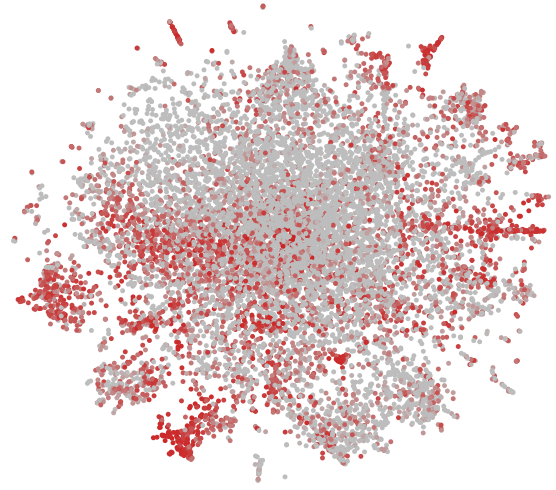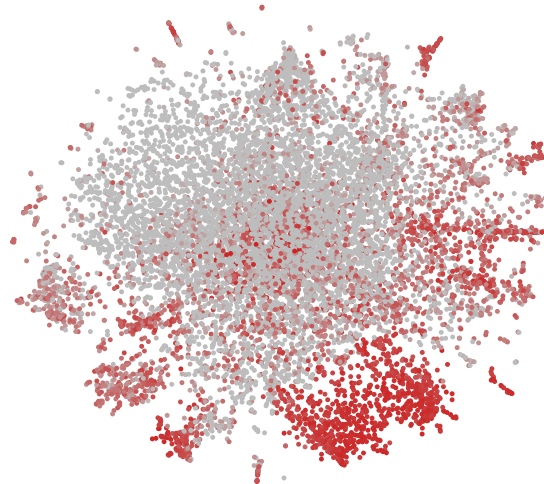*A. gambiae s.s*

Guinea
A. gambiae s.s

Uganda
A. gambiae s.s

S4 Fig

East vs. Central   **East vs. West**

West vs. Central   **East vs. Central + West**

S5 Fig

Biological Process

gluthathione metabolism

phosphorylation

translation
peptide and amide biosynthesis

peptide catabolism
oxidation-reduction

transcription
repressor activity

cholesterol transport

chitin metabolism

aminoglycan metabolism

synapse transmission

sensory perception
behaviour

Molecular Function

purine ribonucleoside binding

gluthathione activity

protein binding

structural constituent of ribosome
structural molecule activity

neurotrophin activity

ATP binding

oxidoreductase
aminopeptidase

ion binding

olfactory receptor

chitin binding

structural constituent of cuticle

Cellular Component

ribosome
mitochondria

membrane

neural cell

cell surface

extracellular region

S6 Fig

Perplexity = 50   Perplexity = 100   Perplexity = 250   Perplexity = 1000

- 2L
- 2L*a*
- 2R
- 2R*b*
- 3L
- 3R
- X

S7 Fig