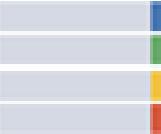


# NERC Environment Omics Facility (NEOF)





# NEOF

- UK centre of excellence

- Partnership between



UNIVERSITY OF  
LIVERPOOL

&



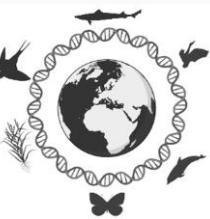
The University  
Of Sheffield.

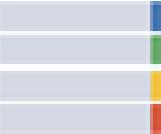
- Empower the next generation of environmental researchers



# Ways NEOF can support your research

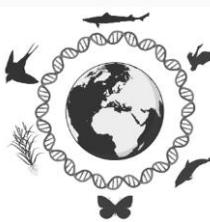
- Bioinformatics **training courses**
- Include NEOF in your **NERC grant application**
- Apply to a **NEOF Pilot Competition**
  - open to ECRs (& PIs), genomics, metabolomics & proteomics
- Apply for access to the **NEOF Visitor Facility**
  - facilities & training available to PhD students, ECRs, PIs





# NEOF Visitor Facility

University  
of  
Sheffield



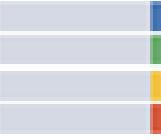
# NEOF Visitor Facility

- State-of-the-art facilities
- In-lab 1-to-1 training & supervision,  
1-6 months access
- 1-to-1 support with analyses

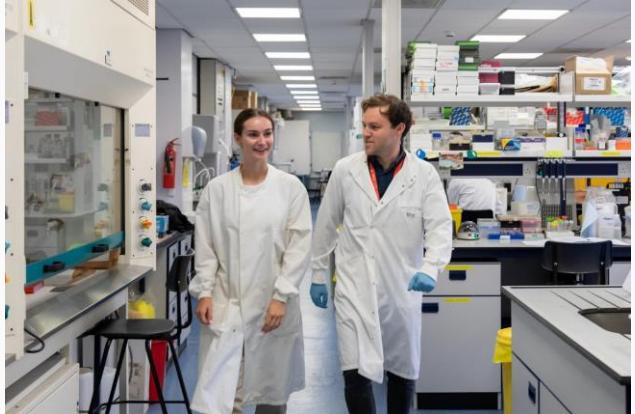
NERC remit, ie environmental, **BUT** do  
not need to be NERC funded to apply



# What we offer -

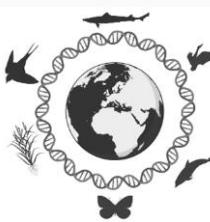


- Approved applications =



funded access to lab (upto 6 months),  
state of art facilities,  
expert lab training & support,  
agreed consumables and sequencing.  
(living and travel costs not covered)

- One-to-one project-specific support from NEOF bioinformatics team
- Prepare your samples for genome sequencing (eg pilots)
- More info @ <https://neof.org.uk/training/>

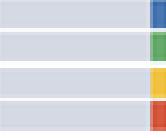


# • Can we support your study?

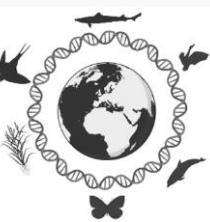
- Supported 250+ projects from 56 institutes
- Provided lab training for 200+ PhD students
- 500+ publications supported in Sheffield, including articles in Nature and Science



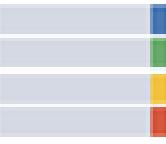
# NEOF supports studies of



- **Individuals:** individual identification, abundance, territory sizes, distribution
- **Species:** genetic bottlenecks, hybrid id, conservation biology
- **Behaviour:** behavioural ecology, mating strategies, mate choice, reproductive behaviour, dispersal, kinship and sexual selection
- **Populations:** effective population size, population structure, landscape genetics (eg habitat fragmentation), spatial ecology



# NEOF supports studies of



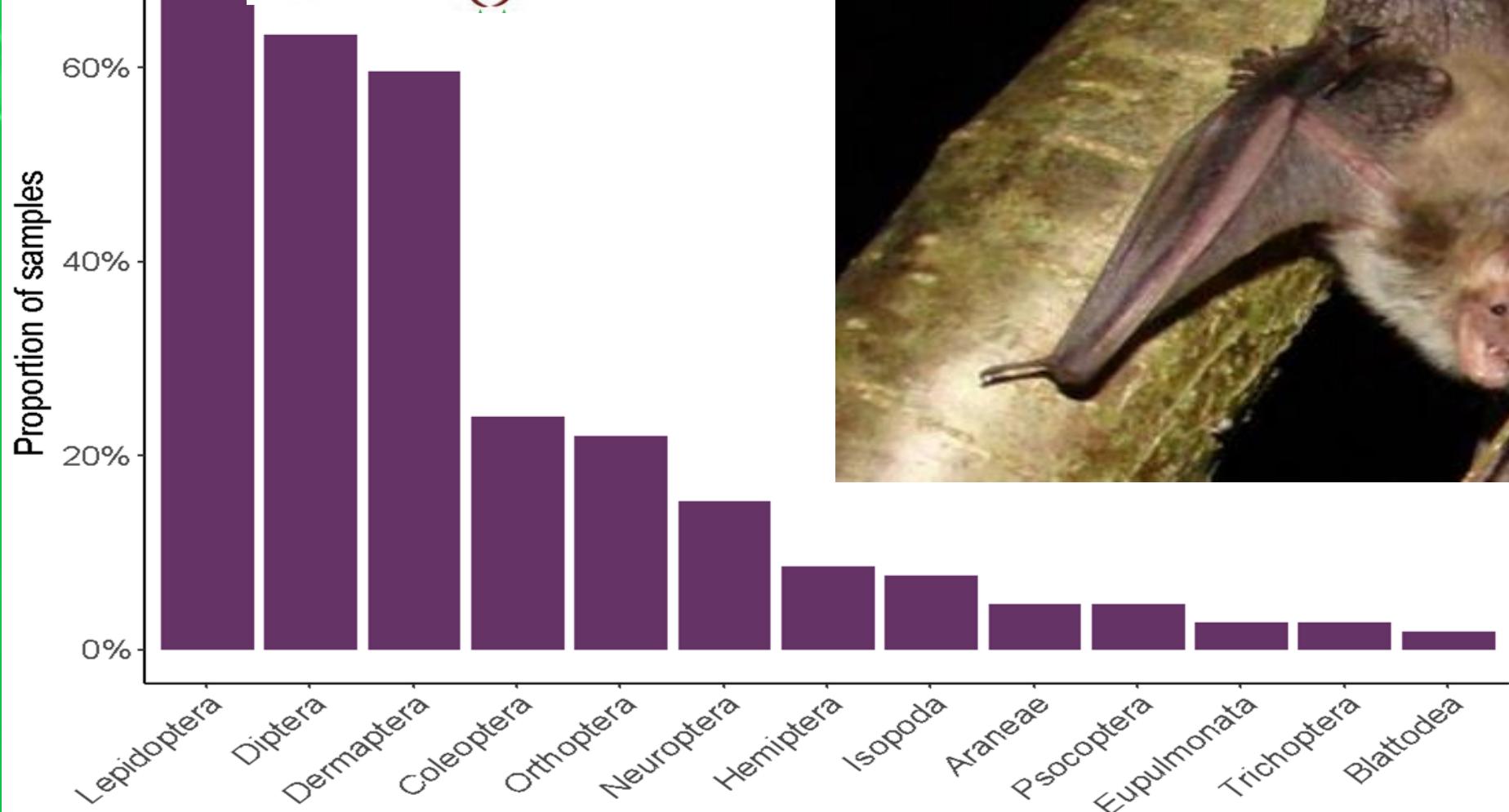
- **Genes and chromosomes:** QTL identification, linkage mapping, evolutionary genetics
- **Phylogeny:** molecular systematics
- and more !!
- Always open to other studies / new ideas
  - please get in touch to discuss



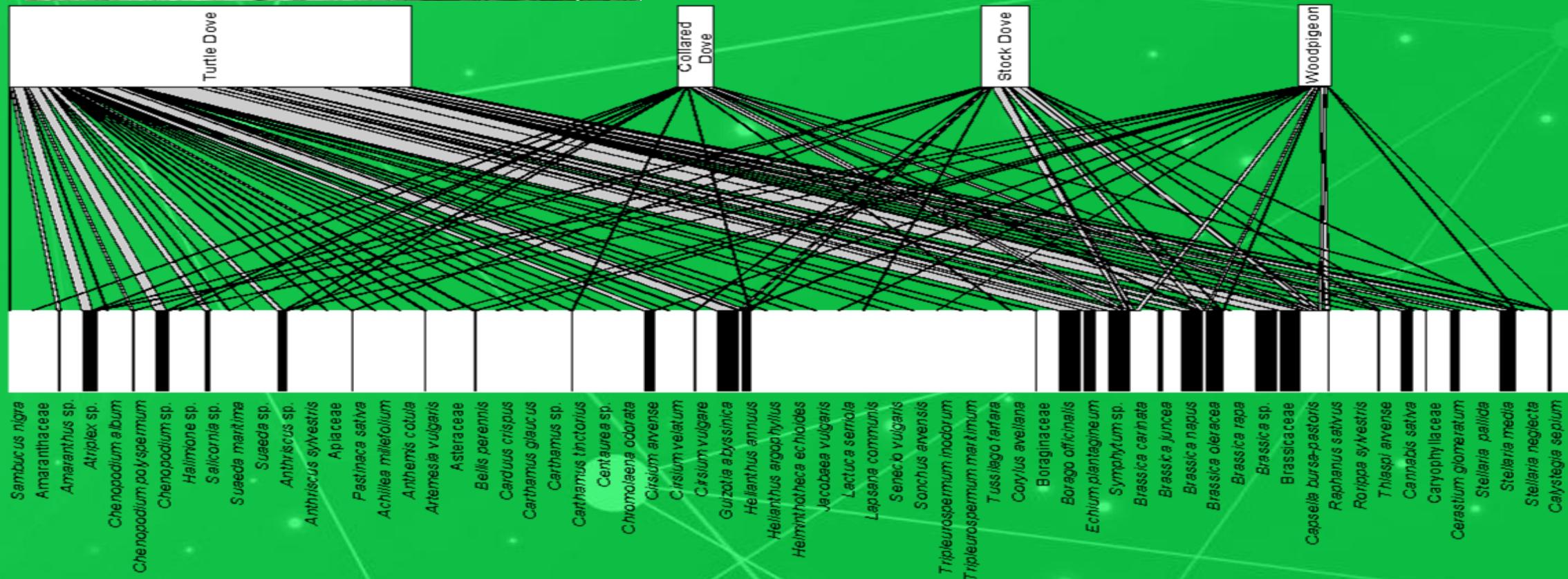
# . Metabarcoding



# Moths, flies and earwigs are the most common prey of Bechstein's bats



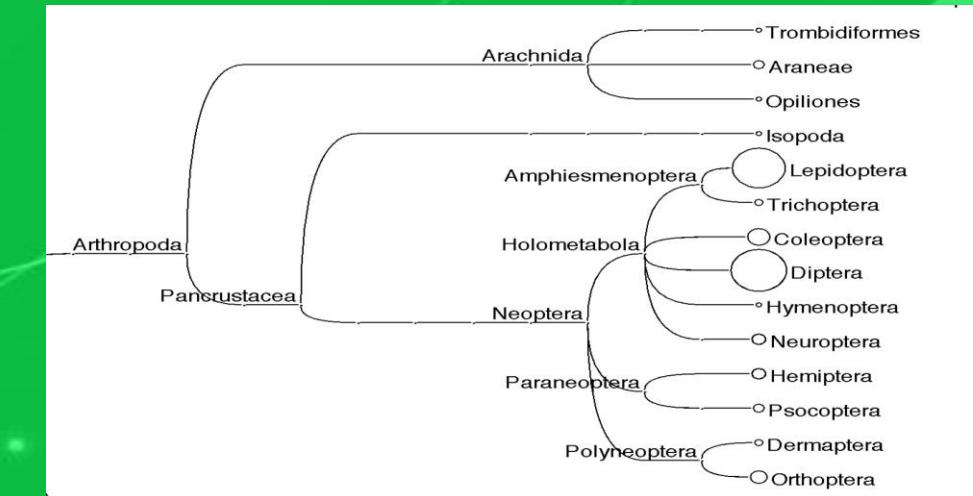
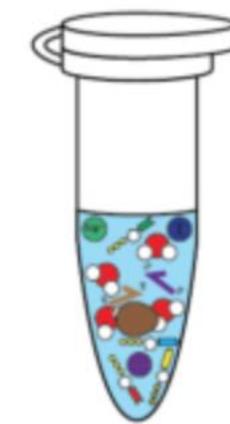
# Declining UK Turtle Doves have high dietary overlap with other pigeons, especially Stock Doves



# What are the consequences for biodiversity of different farming practices?

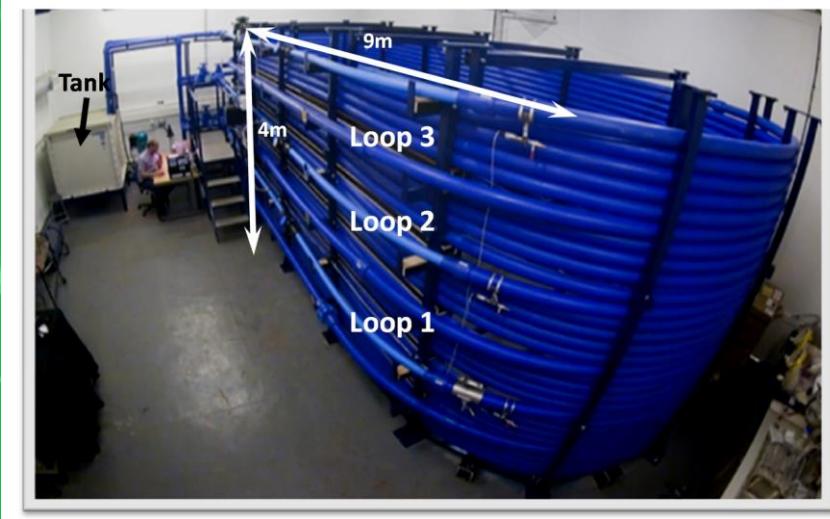


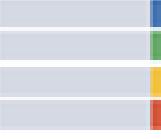
Amplify DNA  
markers



# Water treatment

Disease detection  
Flood management  
Climate change





- **Biodiversity assessments:** pollination networks, effects of agricultural practices
- **Conservation:** eDNA studies of species distributions, monitoring
- **Diet analyses:** food webs, climate change, gut fauna
- **Disease transmission:** studies of drinking water systems, bacterial and parasite loads



# NEOF supports



. Your study?





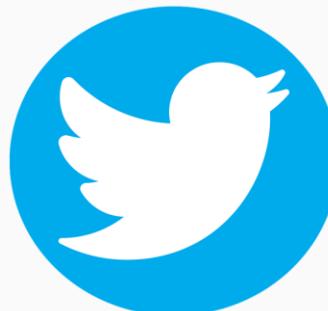
# News, updates and more info



## NEOF

NERC ENVIRONMENTAL  
OMICS FACILITY

<https://neof.org.uk>



@NERC\_EOF



mailchimp

<https://neof.org.uk/news/>

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