Australian Drosophila Ecology and Evolution Resource – curating life science research data

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The Australian Drosophila Ecology and Evolution Resource (ADEER) from the Hoffmann lab and other contributors is a nationally significant life science collection.

https://adeer.esrc.info/
Collaboration

- Researchers from the Pest & Environmental Adaptation Research Group (PEARG), led by Professor Ary Hoffmann
- eScholarship Research Centre
- Digital Scholarship
- Research Platforms Services
- Nectar
- VicNode
Collection

- It featured 103 datasets from 39 studies, consisting of clinical, genomic and species distribution data which were collected, curated, documented, visualised and made openly available
Curation

- **ADEER** ([https://adeer.esrc.info/index.html](https://adeer.esrc.info/index.html)) was published as a web resource to provide a gateway to the datasets, providing a contextualised view of the data through systematically curated metadata descriptions to ensure that the datasets could not just be accessed, but also be understood into the future.

Metadata

- ISAAR (CPF): International Standard Archival Authority Record for Corporate Bodies, Persons and Families
- RIF-CS: Registry Interchange Format - Collections and Services
08 Hoffmann & Shirriffs 2002, Wing traits

From 2001
To 2001
Keywords Wing angle, Wing aspect, Wing centroid size, Wing landmarks and Wing proportion

Summary
This data file contains x and y coordinates of nine landmarks for wings and different traits related to wing shape for 19 Drosophila serrata populations collected in 2001. Measurements were taken for up to 10 isofemale lines per population. Wing_aspect was defined as wing length (the linear distance between landmarks 3 and 6) divided by the square root of wing area (here taken to be centroid size). Angle (outer-wing aspect) was defined as the angle between the vectors from landmarks 2 and 8 and the vector between landmarks 4 and 8. Wing proportion (outer_wing aspect) was defined as the linear distance between landmarks 2 and 4 divided by wing length (Fig. 2). Note longitudes in data are approximate.
Drosophila Species
- *Drosophila serrata*

People
- Hoffmann, Professor Ary A.
- Shirriffs, Jennifer

Research Groups
- Hoffmann Lab, Professor Ary Hoffmann

Publication Citations

Digital Resources
- Title: 8 Hoffmann & Shirriffs 2002
  Type: Visualisation

- Title: 08 Hoffmann & Shirriffs 2002, Wing traits dataset
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Preservation

• The datasets were prepared and saved in digital formats that would best ensure their longevity

• Spreadsheets converted to CSV files

• Static images of online visualisations

• Metadata able to be exported in Encoded Archival Context – Corporate Bodies, Persons and Families (EAC-CPF) XML format
Future Challenges and Opportunities Identified at the end of the project

• Maintaining data and resource into the future
• Building on existing resource by adding more datasets
• Digital preservation
• Adapting to changing research data management landscape
• Funding
Thank you

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