

=====

### Supplementary Figure 1: ER diagram:

=====

The Entity-Relationship (ER) diagram that represents the database structure and relationships between the biological entities can be accessible here -

<https://github.com/icipe-official/Wild-Plants-Fruits-and-Host-Insects/blob/main/database/UML.png>

=====

=====

### Supplementary Figure 2: Phylogeny pipeline:

=====

The phylogeny pipeline diagram illustrates the steps of barcode retrieval, analysis, and phylogenetic tree construction. The diagram can be accessed here -

[https://github.com/icipe-official/Wild-Plants-Fruits-and-Host-Insects/blob/main/updated\\_phylogeny\\_workflow.jpg](https://github.com/icipe-official/Wild-Plants-Fruits-and-Host-Insects/blob/main/updated_phylogeny_workflow.jpg)

=====

=====

### Supplementary Python scripts : Data preprocessing

=====

The scripts provide the steps for barcode retrieval, analysis, and phylogenetic tree construction. The Jupyter Notebook containing the scripts can be accessed here -

[https://github.com/icipe-official/Wild-Plants-Fruits-and-Host-Insects/blob/main/notebooks/data\\_processing.ipynb](https://github.com/icipe-official/Wild-Plants-Fruits-and-Host-Insects/blob/main/notebooks/data_processing.ipynb)

=====

=====

### Supplementary Python scripts: Barcode download

=====

The scripts contain the codes used for downloading barcode sequences from the BOLD. The Jupyter Notebook containing the scripts can be accessed here -

[https://github.com/icipe-official/Wild-Plants-Fruits-and-Host-Insects/blob/main/notebooks/barcode\\_mining\\_from\\_BOLD.ipynb](https://github.com/icipe-official/Wild-Plants-Fruits-and-Host-Insects/blob/main/notebooks/barcode_mining_from_BOLD.ipynb)

=====

=====

### Supplementary Python scripts: Barcode analysis:

=====

These scripts contain analysis of the downloaded barcode sequences including quality control steps. The Jupyter Notebook containing the scripts can be accessed here -

[https://github.com/icipe-official/Wild-Plants-Fruits-and-Host-Insects/blob/main/notebooks/barcode\\_ak2p\\_nalysis\\_and\\_qc.ipynb](https://github.com/icipe-official/Wild-Plants-Fruits-and-Host-Insects/blob/main/notebooks/barcode_ak2p_nalysis_and_qc.ipynb)

=====