

Larval zebrafish hunting behavior over development

Datasets (raw in .xlsx format under Data folder):

Name	Description
highSpeedFeeding AssayMasterList.xlsx	Features extracted from each event over development
highSpeedFeedingAssayMDMasterList.xlsx	Features extracted from each event over development for fish imaged twice during development (5, and 13-15).
MDLookuptable.xlsx	A table linking the same fish in highSpeedFeedingAssayMDMasterList.xlsx imaged on two imaging days

Datasets (processed data in .mat format under Data folder):

Name	Description
feedingAssayCollatedData.mat	A row per fish averaging the features over the events
feedingAssayCollatedDataMD.mat	A row per fish and imaging day averaging the features over the events
MDLookupTable.mat	A table linking the same fish in feedingAssayCollatedDataMD imaged on two imaging days

Code (.m format under Code folder):

Name	Description
collectFeedingAssayResults.m	Reads the data file highSpeedFeedingAssayMasterList.xlsx and aggregates/averages features per fish over events, saves an output processed file in \Data\ feedingAssayCollatedData.mat (the output file is already generated and in the Data folder).
collectMDFeedingAssayResults.m	Reads the data file highSpeedFeedingAssayMDMasterList.xlsx and aggregates/averages features per fish over events, saves an output file in \Data\ feedingAssayCollatedDataMD.mat (the output file is already generated and in the Data folder). Generates also the lookup table mat file (already in the Data folder).
MDLookupTable.mat	A table linking the same fish in feedingAssayCollatedDataMD imaged on two imaging days
plotBehaviouralResults.m	Reads feedingAssayCollatedData.mat and plots behavioral results
plotBehaviouralMDResults.m	Reads feedingAssayCollatedDataMD.mat and plots behavioral results of the same fish over development
compareMean.m	A support function for statistical tests
renderPvalueString.m	A support function for statistical tests presentation