

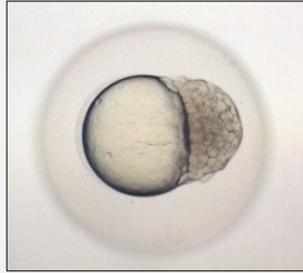


Automated Morphology Assessments for Improved Larval Zebrafish Screening

Morgan Lowery
Bridgett Hill, Stephanie Padilla

Disclaimer: The views expressed in this presentation are those of the authors and do not necessarily reflect the views or policies of the U.S. EPA.

Integrating Automated Morphology

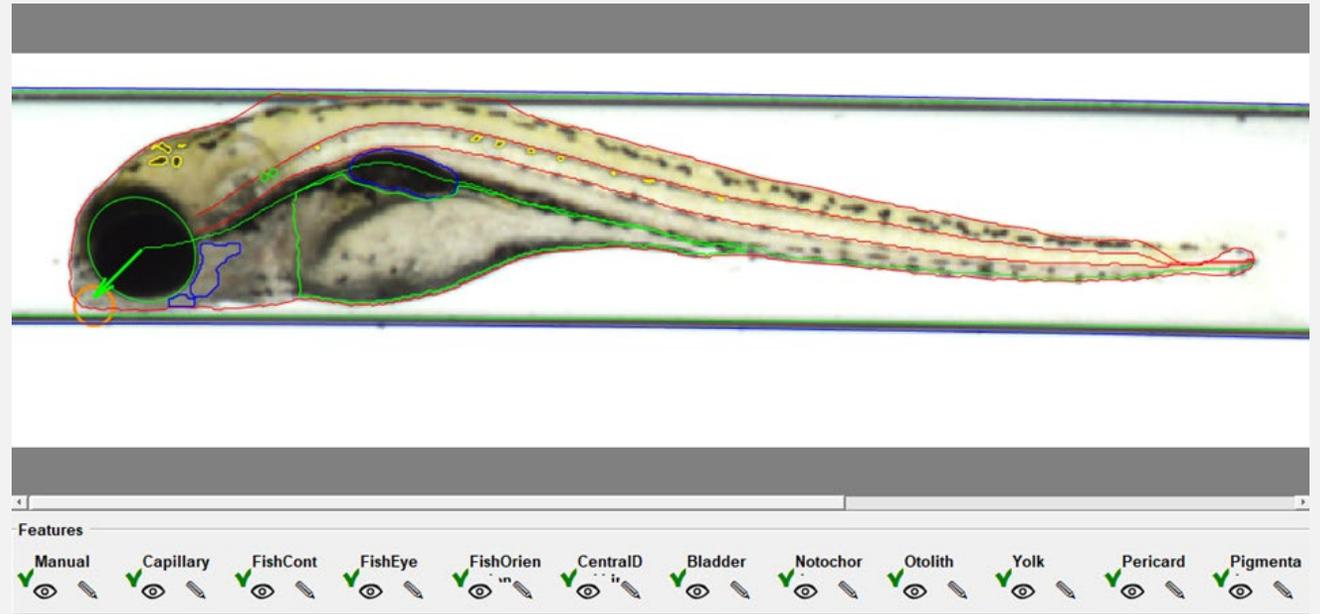


Embryos are plated, and treated

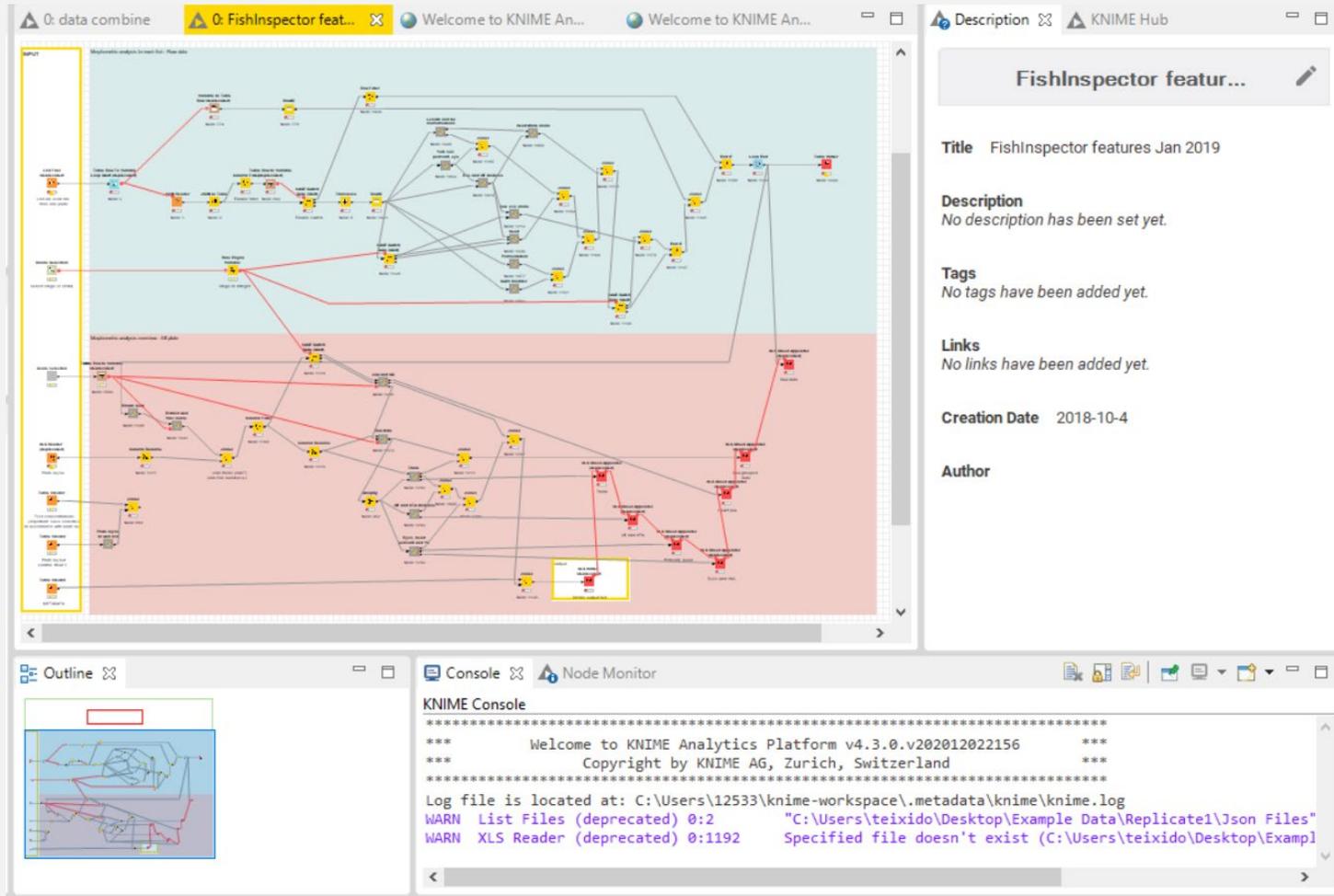
Embryos removed from treatment

Behavior assessment

Visual Morphological assessment



Integrating Automated Morphology



The screenshot displays the KNIME Analytics Platform interface. The main workspace shows a complex workflow with numerous nodes connected by lines. The interface includes a description panel on the right and a console at the bottom.

Description
FishInspector featur...

Title FishInspector features Jan 2019

Description
No description has been set yet.

Tags
No tags have been added yet.

Links
No links have been added yet.

Creation Date 2018-10-4

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KNIME Console

```
*****  
*** Welcome to KNIME Analytics Platform v4.3.0.v202012022156 ***  
*** Copyright by KNIME AG, Zurich, Switzerland ***  
*****  
Log file is located at: C:\Users\12533\knime-workspace\.metadata\knime\knime.log  
WARN List Files (deprecated) 0:2 "C:\Users\teixido\Desktop\Example Data\Replicate1\Json Files"  
WARN XLS Reader (deprecated) 0:1192 Specified file doesn't exist (C:\Users\teixido\Desktop\Exampl
```

Summary:

VAST Biolmager

-provides detailed images

FishInspector

-detects and measures features

KNIME

-organizes and analyzes extensive morphological data for each individual larva