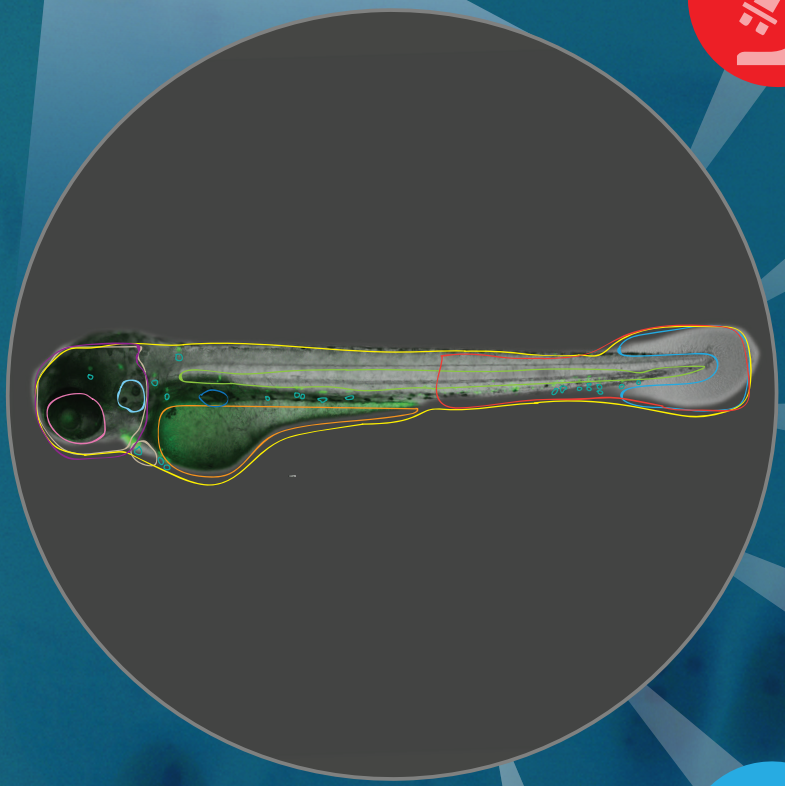
IDEA Bio-Medical Ltd.
Seeing Better

wiscan® Hermes for ZEBRAFISH

Zebrafish *In Vivo* Screening Empowered By Deep Learning

When HCS Meets A.I.

NEW



High Content Imaging

Artificial Intelligence - Driven Analysis

Multiplexing Fluorescence & Brightfield

Parameter - Based Classification

Time-lapse & Z-Stack Imaging

Automated Quantitative Analysis

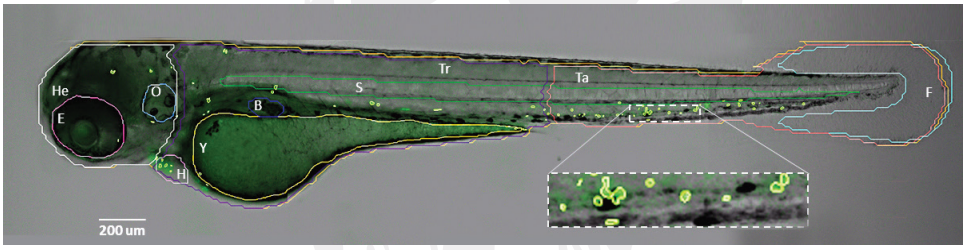
ANIMALAB

wiscan®
Hermes for ZEBRAFISH When HCS meets A.I.

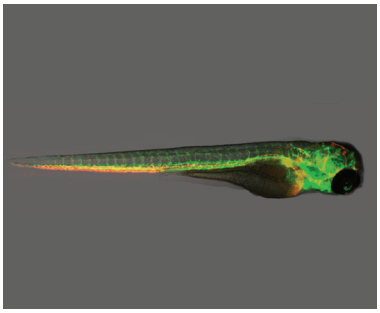
Revolutionary Deep Learning- Based Image Analysis For TRUE Zebrafish High-Content Screening

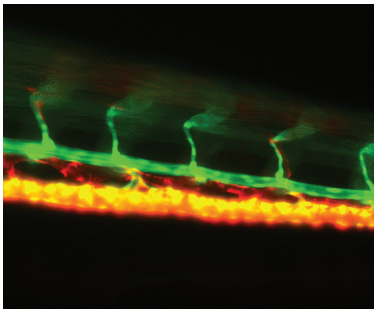
Zebrafish (Danio rerio) are an attractive model organism for the study of human disease pathology because of their optical transparency and genetic tractability. They serve as a great alternative to mammalian screening due to cost, throughput and reduced ethical concerns. Automated analysis of Zebrafish imposes unique demands due to the versatility of organs and features needed to be detected.
IDEA Bio-Medical is proud to present our unique dedicated imaging platform for automated data acquisition & analysis to quantify fluorescence, morphological changes & other features in Zebrafish larvae in a high throughput format.

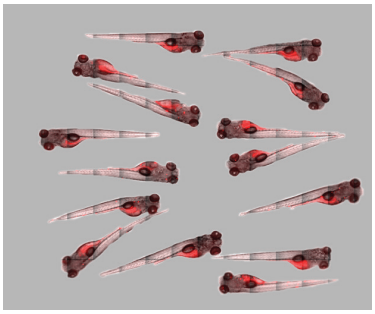
Hermes for Zebrafish automatically quantifies area, fluorescence intensity, and count of whole fish and internal organelle properties, including eye, yolk, spine, tail, brain, internal granules and more.

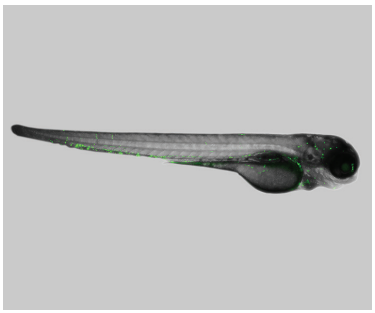


Fish organs & regions automatic segmentation


Multiplexing Fluorescence & Bright field


Blood vessels at 10X magnification


Well montage


Internal granules detection

Key Features:

- Image & analyze Label-free or fluorescently tagged fish and internal organelles
- Multiple levels of magnification available from 2X up to 60X with high NA
- Keep images in focus from head to tail with images acquired in single plane, Z stack and projections
- Novel artificial Intelligence-based algorithms for automated fish and organ-specific segmentation in brightfield
- Unbeatable throughput: Image 96 larvae within minutes
- Ensure proper fish orientation in post-analysis with customizable, software-based selection
- Statistical data calculated per fish and per organelle

Organs Identified Automatically or Manually

Fish Outline	Bladder
Yolk Sac	Heart
Eye	Head
Tail Fin	Trunk
Spine	Tail
Otic vesicle	Internal granules
	User-definable region

Morphological Features Extracted

- Area
- Count
- Fluorescence Intensity
- Shape parameters

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