QUANTACELL

Providing image processing and data analysis services for biological applications

Company presentation

- QuantaCell is a CRO located in Pessac near Bordeaux
- Certified for French research tax credit for years 2015, 2016 and 2017



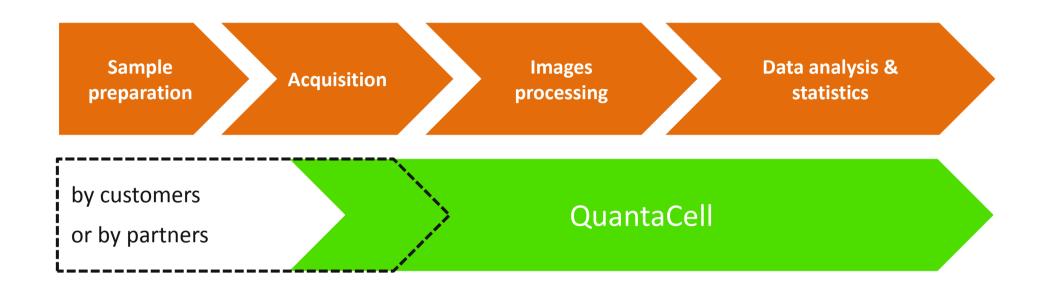
- The team is composed of 3 people
 - Multiple know-how: biology, imaging & computer science
 - Ability to adapt to specific customer needs
 - Long experience in bio-analysis for imaging



 QuantaCell is selected by the SIRIC BRIO network as a cutting edge structure capable of supporting translational research projects in oncology.

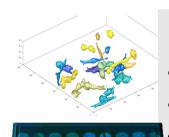


Application fields of QuantaCell





Our services

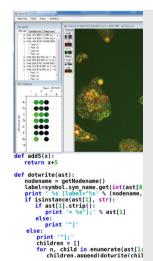


R&D studies

- Experiment analysis
- Development and validation
- **Exploratory analysis**

Deliverables:

- ✓ Statistics
- ✓ Processed data
- ✓ Reports and graphics
- ✓ Materials & methods



Software / code development

- No data transfer
- No confidentiality issue
- Fast processing
- Integrated in custom's environment

Deliverables:

- ✓ Software licenses
- ✓ Source codes
- ✓ User manuals

Major activities

Complex detections

Filaments / Textures / Lesions

3D analysis

Cell culture / histology / RMI-CT

Large scale analysis

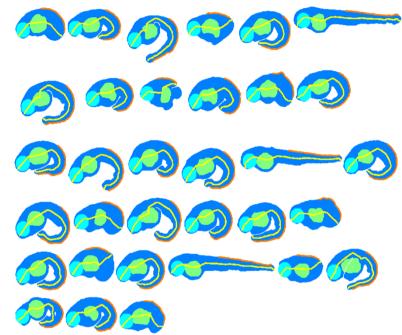
High content screening / histology / classification

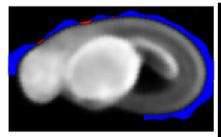
Dynamic quantification

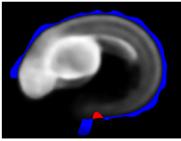
Cell dynamics / animal behaviours

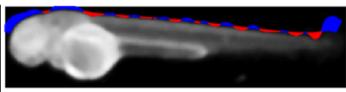
Complex detections Zebra fish quantification



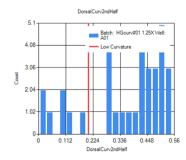




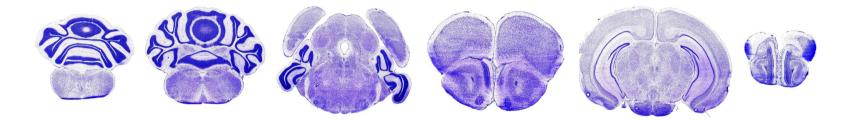




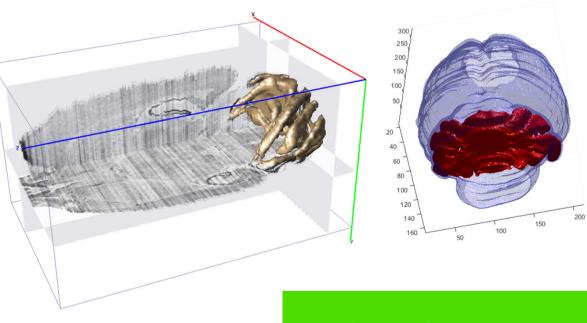
Dorsal curvature analysis



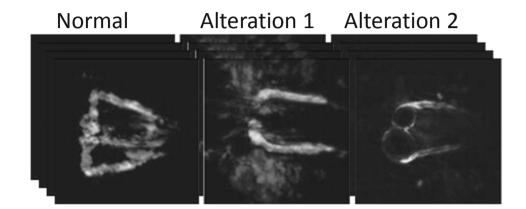
3D analysis Quantification of organs from histological slides

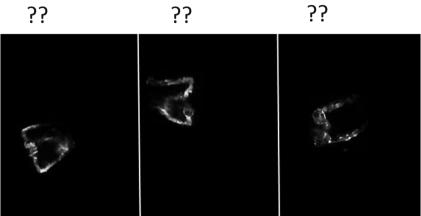


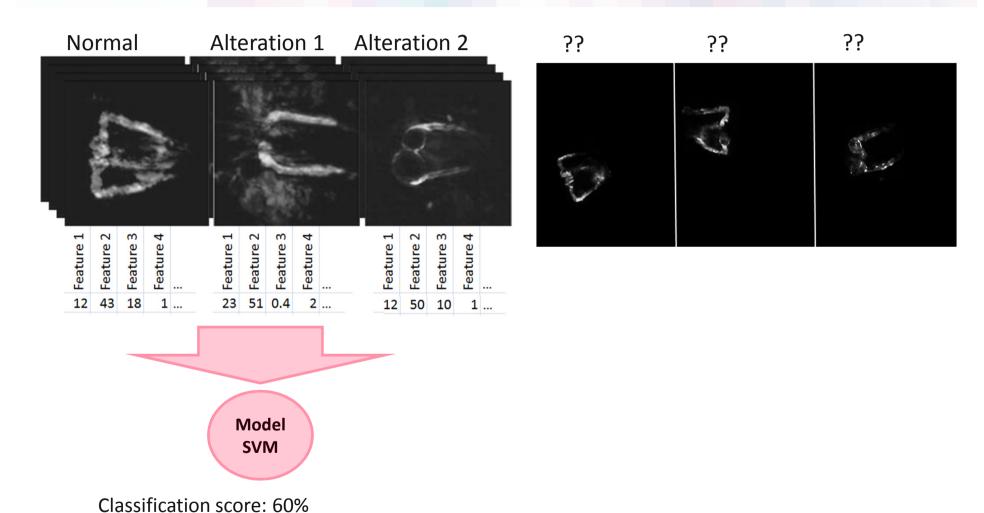
- √ 3D reconstruction based on successive histological slides
- ✓ Segmenting structure of interest, ex : cerebellum
- ✓ Volume analysis in 3D like antibody intensities in 3D zones
- ✓ Visualization 3D, ex: transversal slices, iso-surfaces

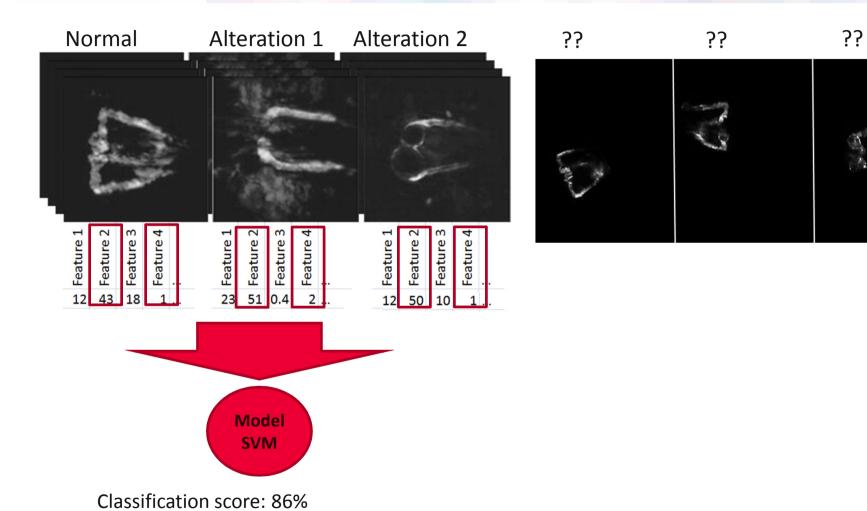


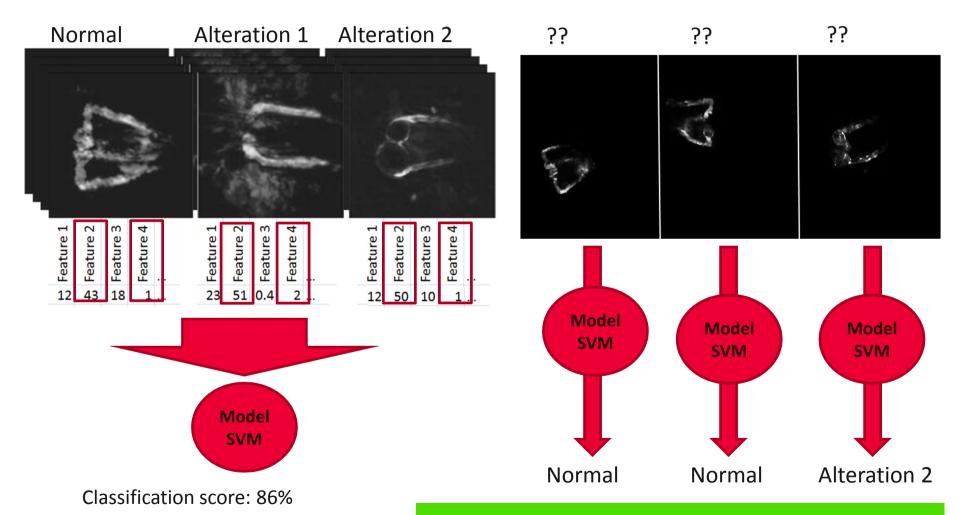
3D Volume information











Methods: Artificial intelligence, shape recognition

Dynamic quantification Post processing analysis of behavior studies





Methods:
Tracking
Trajectory analysis



Each project is unique, and must be treated as such

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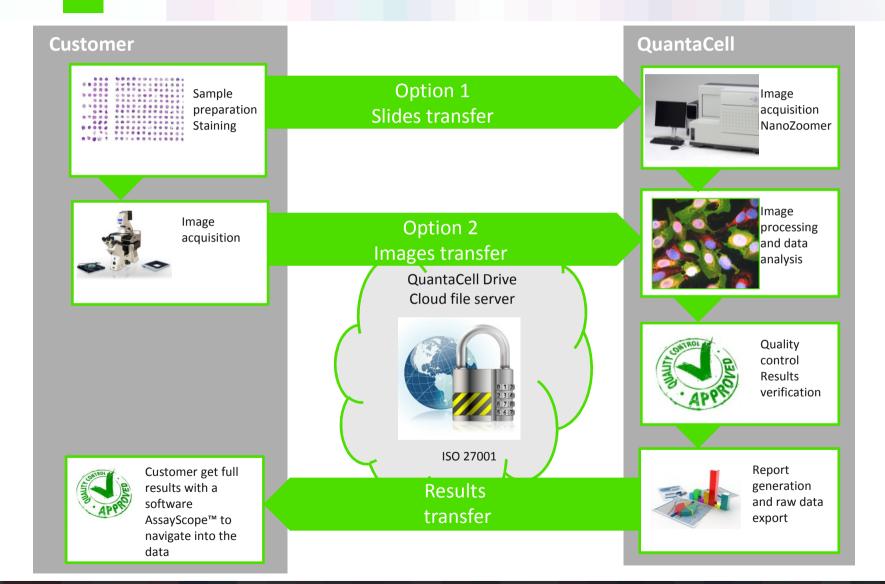
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Service of image quantification

For quantitative characterization of drugs and ingredients effects





Software development for time-consuming procedures

To automate analysis in routine experiments in your laboratory

QuantaCell provides software solution to automate analysis in routine experiments for your laboratory

Our solutions include:

- ✓ Proof of concept on your images
- ✓ Software solution including automatic or user-guided quantification
- ✓ Logging capability of all data and results
- ✓ Software licenses and user manuals

Added values:

- ✓ Quick software development achievement
- ✓ Fully integrated in customer IT environment
- ✓ Intuitive user interface (no training are required)
- ✓ QuantaCell team members are all graduated in biology and understand life sciences























