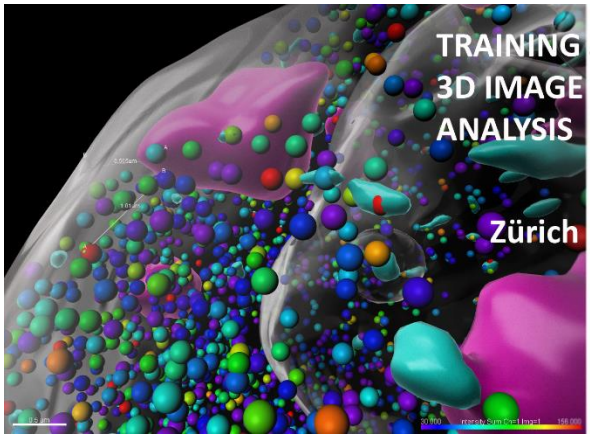

TRAINING SCHOOL on IMARIS-based 3D IMAGE PROCESSING & ANALYSIS OF THE 3D NUCLEUS

Zürich December 7-11, 2020

Event organised by the **INDEPTH COST-Action CA16212**
Trainer: Célia Baroux, *IPMB, University of Zürich*
Partners: Bitplane AG, Oxford Scientific Instruments.
IPMB, University of Zürich, Switzerland.

University of Zurich[UZH]

Day 1 – Monday 7.12

9:00-9:30	Introduction to the course & round-table presentations
9:30-11:00	Snap-Talks by participants (research question related to this training school)
11:00-12:00	Presentation on 3D image processing for analyzing nuclear organization *Célia Baroux*
12:00-13:00	lunch
13:00-15:00	General introduction to Imaris rendering, *Michael Mahlert (Bitplane, AG)*
15:00-15:30	Coffee Break
15:30-17:30	Practice rendering and visualization on own images *3D viewer, blend/MIP, slicers, frame etc.*

Day 2 - Tuesday 8.12

8:30-10:00	Image segmentation using Imaris, *Michael Mahlert (Bitplane, AG)*
10:00-10:30	Coffee Break
10:30-12:00	Practice: segment and quantify signals in nucleus, chromocenters, FISH signals
12:00-13:00	lunch
13:00-15:00	Presentation of Imaris *advanced* features, *Michael Mahlert (Bitplane, AG)*
15:00-15:30	Coffee Break
15:30-17:30	Practice 1-2 *advanced* features (to chose on a list depending on own learning need): spot/surface statistics, distance measurements, batch, plot using Vantage

Day 3 - Wednesday 9.12

8:30-10:00	Example of a pipeline for immunosignal distribution analysis *Célia Baroux*
10:00-10:30	Coffee Break
10:30-12:00	Practice **no remote Imaris -> shift the Practice to Friday 11.12**
12:00-13:00	lunch
	Free afternoon – social programme

Day 4 - Thursday 10.12 – no remote Imaris -> shift to Friday 11.12

8:30-17:30	Whole day practice - Project defined by instructor or by applicant Work in teams of 2 (3)

Day 5 – Friday 11.12 -> shift to Monday 14.12 AFTERNOON 1:30-5:30 pm (Paris time, UTC+001)

9:00-12:00	Delivery: presentation of results by teams
12:00-13:00	Lunch
13:00-14:00	Final questions & conclusions
14:00	Departure