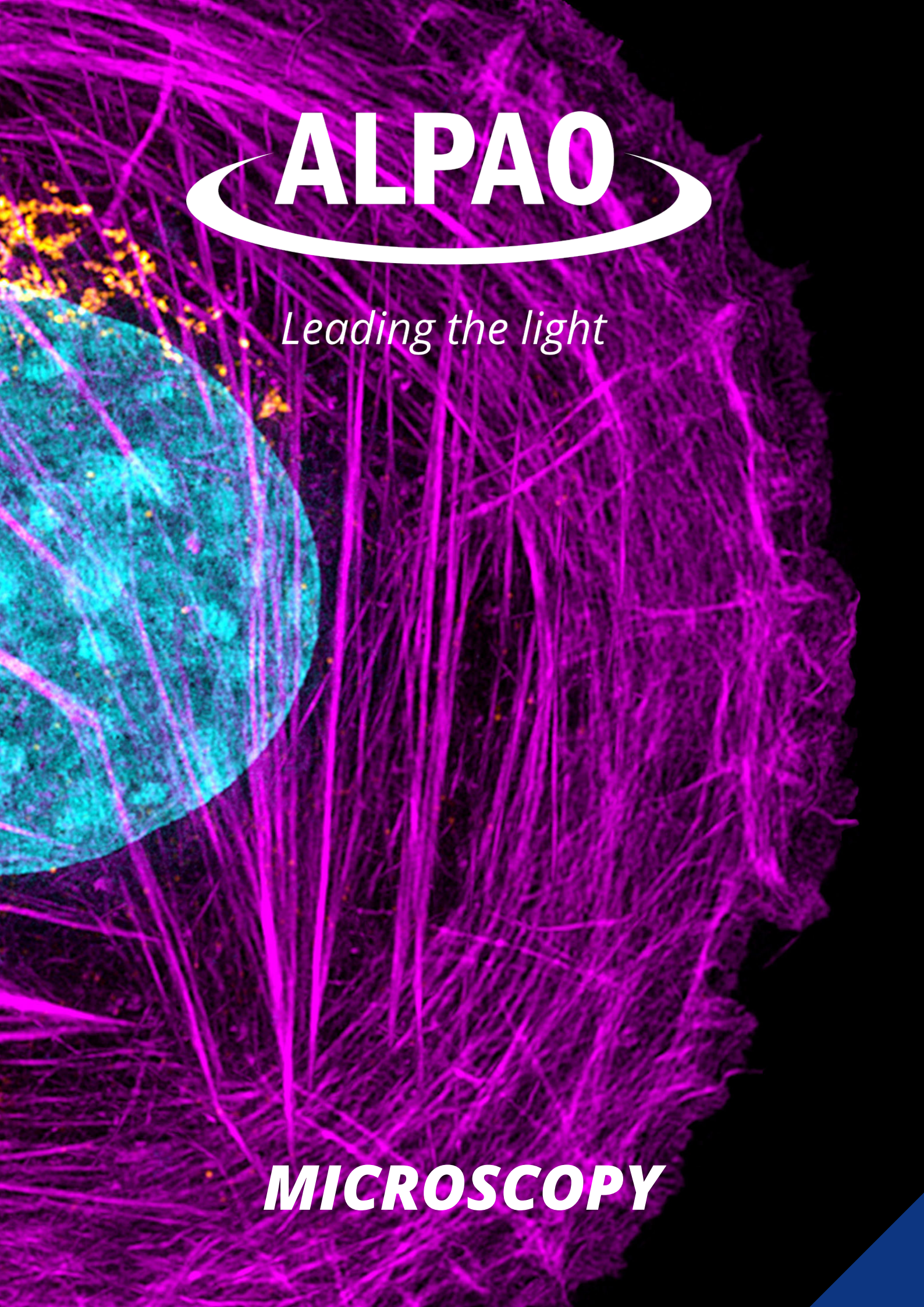

ALPAO
Leading the light
MICROSCOPY

From the stars to the cells

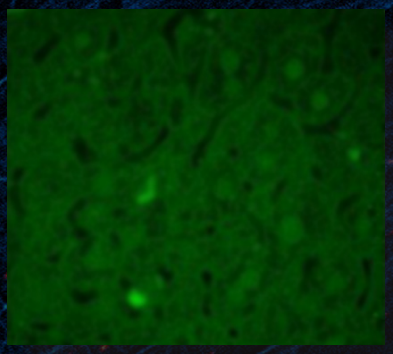
Born in Astronomy, Adaptive Optics has found its way into several new fields in recent years, helping to achieve earth-shattering discoveries in each one of them.

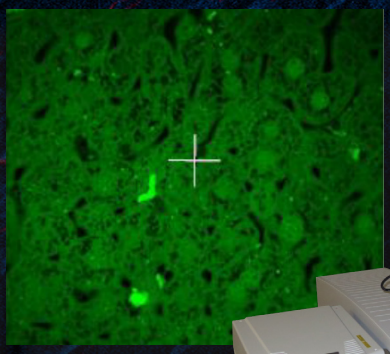
Microscopy has a vast array of imaging methods. Ever since Adaptive Optics adoption in the field, it has proven to be a crucial component helping biologists to look deep and neatly into the building blocks of life.

Visualizing in depth 3D samples	Confocal Light-Sheet
Imaging deep tissue	Multi-Photon Z-Scanning
Observing in vivo specimens	SIM Widefield
Super Resolution	STORM PAINT STED PALM

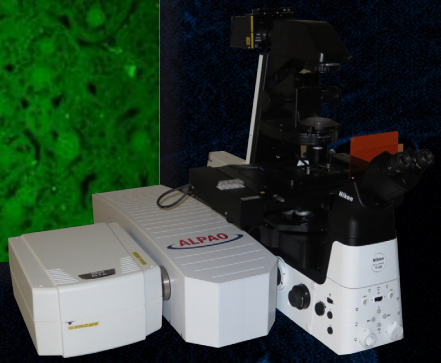
“In any application where you must study deep inside a specimen, an in vivo specimen or a clarified specimen, you must correct for optical aberrations. Without Adaptive Optics, we wouldn’t have been able to study several samples while keeping them in their natural habitat and still getting images as close as possible to the ideal situation.“

Antoine Delon, Researcher at LiPhy and Institute for Advanced Biosciences of Grenoble





Credits: Laurence Dubreuil, LabOniris, Nantes, France



ConfoBright

“By using Adaptive Optics we can restore the performance of microscopes to the optimal,that is to the limits imposed by physics. Even though the specimen distorts the light, we can still recover the best images and hence the best scientific information out of those microscopes.”

Martin Booth, Professor of Engineering Science at University of Oxford

Credits: Betzig Lab, Janelia Farm, HHMI

DM 97-15

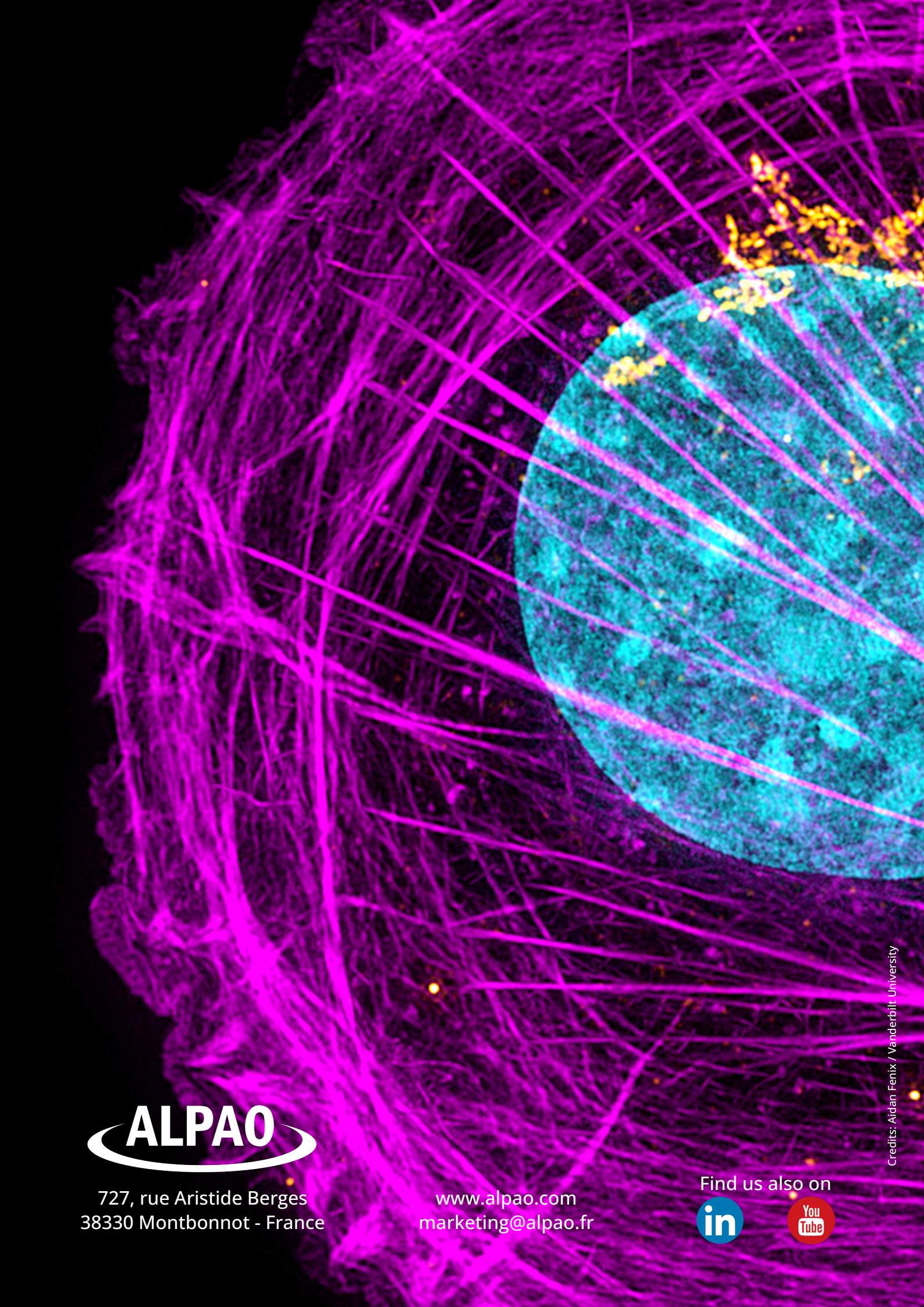
SH-CMOS

ALPAO Microscopy related products

Deformable Mirrors	Shack-Hartmann Wavefront Sensors		Software Control
DM 57*	SH-EMCCD	SH-CMOS	ALPAO Core Engine
DM 69*	SH InGaAs	SH-sCMOS	
DM 97*	SH-InGaAs fast	SH-sCMOS UV ext.	

*Pitch options available: 0.8 mm, 1.5 mm, 2.5 mm and 5.0 mm

Credits: Dr. Motosuke Tsutsumi / Hokkaido University



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Find us also on

Credits: Aidan Fenix / Vanderbilt University