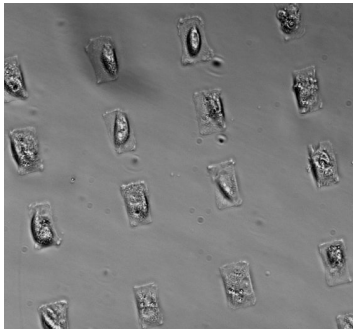


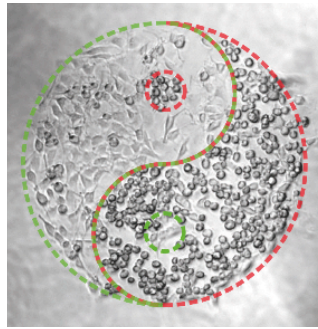
Alvéole presents its new PRIMO® photo-patterning technology at ASCB 2016

San Francisco, December 4, 2016 - Alvéole is presenting its new PRIMO multi-protein photo-patterning solution at the annual congress of the American Society for Cell Biology (ASCB). Technical presentations on the technology and its applications will be organized from December 4 thru 6 on Alvéole's exhibition stand, no. 1017.

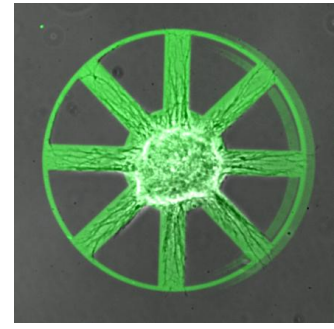
PRIMO has been created to enable biologists to design and carry out all the micro-patterning experiments that they can think of, on 2D and also in 3D. With this tool, it is now possible to accurately and easily adjust micro-patterns made of proteins and so to easily control the cellular micro-environment, whether to study the effect of a molecule or to imitate the physiological conditions. PRIMO offers new possibilities for multiple applications, such as research on stem cells, cell tests for developing drugs and predictive toxicology to respond to the major public health challenges in oncology, immunology or neurology.



Fibroblasts arranged as single cells on rectangular fibronectin patterns.



Combined culture of S180 and MEF cells deposited successively on a Yin & Yang pattern (Yin: fibronectin, Yang: streptavidin, incubated with biotinylated fibronectin).⁽¹⁾



Axonal guidance on the spokes and circumference of a wheel made of Alexa-laminin 488 (green), with a chicken brain explant positioned in the middle of the pattern.⁽²⁾

The PRIMO multi-protein photo-patterning technique is based on LIMAP technology (Light Induced Molecular Adsorption of Proteins) and combines a UV illumination system controlled by dedicated software (Leonardo) with a specific light-activated reagent (PLPP). The combined action of these two components makes it possible, in a few seconds, to generate any pattern with several proteins on standard cell culture substrates, at micrometer scale and with excellent reproducibility.

About Alvéole

Alvéole develops innovative tools to control the cellular micro-environment, so enabling biologists to control the development and proliferation of living cells in culture.

The company was founded in 2010 by three researchers from the French National Center for Scientific Research (CNRS)^{(3),(4),(5)} collaborating with Quattrocento, a 'business creator' in the life sciences field making it possible for academic researchers to convert their inventions into marketed products.

In June 2016, after 6 years of industrial development, Alvéole launched its first product, PRIMO, which was voted Product of the Year at the SLAS annual congress (Society for Laboratory Automation and Screening) at San Diego in January 2016.

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⁽¹⁾ With the permission of P-O Strale and V Studer. Strale P-O *et al.*, *Adv Mater.* 2015. ⁽²⁾ With the permission of H Ducuing, R Moore, Y Lecomte, P-O Strale and V Studer. ⁽³⁾ Vincent Studer, Neurosciences Interdisciplinary Institute (CNRS, Bordeaux University, France). ⁽⁴⁾ Maxime Dahan, Curie Physico-chemical Unit (CNRS, Curie Institute, Pierre and Marie Curie University, France). ⁽⁵⁾ Jean-Christophe Galas, Jean Perrin Laboratory (CNRS, Pierre and Marie Curie University, France).

Photo of PRIMO® system and PLPP™ light-activated reagent

