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Promising new technologies and applications suggest a bright future for microfluidics

2015 Microfluidic Applications in the Pharmaceutical, Life Sciences, In-Vitro Diagnostic, and Medical Device Markets report – June 2015

LYON, France – July 22, 2015: By offering innovative solutions and cost advantages, microfluidic technologies are attracting more and more players from various fields. Under this context, numerous large companies are exploring the possibility of adopting microfluidics in order to improve their products...

The More than Moore market research and strategy consulting company Yole Développement (Yole), released few days ago its new technology & market analysis entitled, Microfluidic Applications in the Pharmaceutical, Life Sciences, In-Vitro Diagnostic, and Medical Device Markets. This report is part of the medical technologies reports collection performed by Yole’s analysts for several years, including Point-of-Care Testing, Next Generation Sequencing, BioMEMS, Microfluidic Substrates Market and Processing Trends, Flow Chemistry Technologies …
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Microfluidic Applications in the Pharmaceutical, Life Sciences, In-Vitro Diagnostic, and Medical Device Markets report provides a complete overview of the technology trends through a detailed marketing analysis. Leveraging participation in major events and numerous interviews of microfluidic players performed by Yole’s analysts, the report consolidates 2012 – 2014 market data and proposes a high added-value analysis of the 2015-2020 forecasts.

With the healthcare industry moving steadily toward personalized medicine, technology has evolved to fit requirements. Consequently, significant improvements in drug discovery have been made thanks to breakthroughs in genomics. Moreover, the recent Ebola epidemic underlined the critical need for inexpensive tests to be rapidly analyzed in the field in order to cure the sick as soon as possible. The push to avoid future epidemics will lead to many innovations in the microfluidic point-of-care field.

In the meantime, recent sanitary scandals have had for consequence the strengthening of regulations in the agro-food and water industries, thus sharply increasing the need for tests dedicated to bacteria detection. Industrial and environmental testing are thus in full swing, and are enjoying one of the best growth rates amongst microfluidic applications.

“Promising new technologies and applications suggest a bright future for microfluidics”, asserts Dr Benjamin Roussel, Activity Leader at Yole.

With a microfluidic devices market reaching US$5.95B in 2020 against US$2.56B in 2015, Yole’s analysts confirm: “Microfluidic applications are now well established, and their advantages well-known.” And Sébastien Clerc, Technology & Market Analyst, Yole adds: “We can observe fields in which existing microfluidic technologies supporting new applications are competing with other technologies. Also, emerging microfluidic technologies are used in both existing and emerging applications, where they bring new functions and/or benefits”.

Yole’s technology & market report offers a deep understanding of the technology evolution. Indeed analysts propose an overview of the microfluidic technologies and related applications including a specific focus on emerging ones (See illustration enclosed). “Emerging microfluidic applications have the potential to significantly boost the microfluidic market in the coming years. They have been listed and analyzed in our report”, says Sébastien Clerc.
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Following what Yole foresaw several years ago, the combination of microfluidics and optics in the same device are now emerging everywhere through performant devices. One great example is the development of liquid lenses for camera modules, which provide high precision, continuous autofocus, and low power consumption. Other new applications are coming into play, such as microfluidic cooling for integrated components. All of these emerging applications including electronic components cooling, acoustic microfluidics, optofluidics ... are detailed in this report.

A detailed description of this new report is available on i-micronews.com, MedTech reports section.
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About 2015 Microfluidic Applications in the Pharmaceutical, Life Sciences, In-Vitro Diagnostic, and Medical Device Markets report:
Rates: Euros 5,990.00 (Full report - Multi user license). For special offers and the price in dollars, please contact David Jourdan (Phone: +33 472 83 01 90).

“2015 Microfluidic Applications in the Pharmaceutical, Life Sciences, In-Vitro Diagnostic, and Medical Device Markets” report from Yole Développement will be available on June 29, 2015.

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Benjamin Roussel oversees MedTech activity (microfluidic and medical technologies) at Yole Développement. Benjamin has supported many companies in their innovation and product development strategy, in making the bridge between micro systems technologies and their applications in diagnostics, pharmaceutical life science and medical devices industries. He holds a Pharmacy diploma from the University Claude Bernard Lyon, complemented by a master’s degree in Technology and Innovation Management from EM Lyon Business School.


About Yole Développement
Founded in 1998, Yole Développement has grown to become a group of companies providing marketing, technology and strategy consulting, media and corporate finance services. With a strong focus on emerging applications using silicon and/or micro manufacturing, the Yole Développement group has expanded to include more than 50 collaborators worldwide covering MEMS, Compound Semiconductors, LED, Image Sensors, Optoelectronics, Microfluidics & Medical, Photovoltaics, Advanced Packaging, Manufacturing, Nanomaterials and Power Electronics. The group supports industrial companies, investors and R&D organizations worldwide to help them understand markets and follow technology trends to develop their business.

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