



## FOR IMMEDIATE RELEASE:

# Microfluidics applications are greatly diversifying, creating new opportunities

Extracted from: Status of the Microfluidics Industry, Yole Développement, 2019

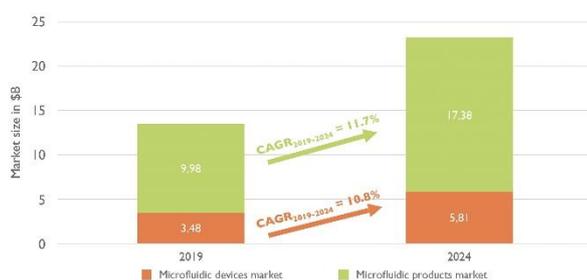


Presentation: "[Status of the Microfluidics Industry: the lure of microfluidic devices high volume production](#)" on October 9 at Lab-on-Chip World & Microfluidics Congress

**LYON, France – September 30, 2019:** Microfluidics is now a mature technology, and today the identified number of companies developing microfluidic-based solutions worldwide far surpasses a thousand, including myriad opportunistic startups, and the applications are end-less.

### Global microfluidic devices and products market: 2019-2024 forecast

(Source: Status of the Microfluidics Industry 2019, Yole Développement, 2019)



YOLE  
Développement

© 2019 | www.yole.fr - www.lmicronotes.com

Under this dynamic context, the market research and strategy consulting company, [Yole Développement \(Yole\)](#) estimates, the microfluidic products market reached US\$8.7 billion in 2018, and will grow at a 11.7% CAGR<sup>1</sup> between 2019 and 2024, reaching US\$17.4 billion.

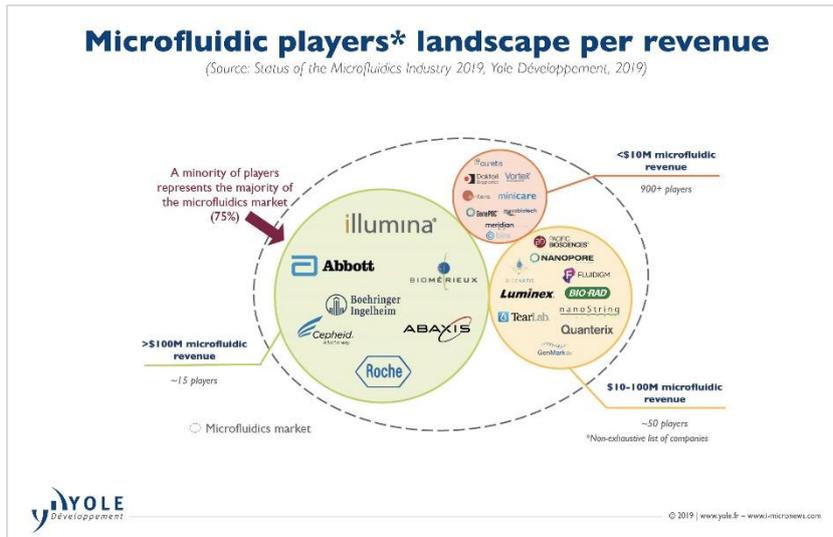
*“The two principal applications are still PoC<sup>2</sup> testing and pharmaceutical/ life science research, including sequencing,*

*genomics, and proteomics”*, details **Sébastien Clerc, Technology & Market Analyst at Yole**. *“However, dynamics per application are evolving...”*

Yole announces today its new microfluidics report, [Status of the Microfluidics Industry](#). This new analysis provides an complete overview of the past two years, present and future for microfluidic devices and products. In order to get a better understanding of the value and its distribution all along the supply chain, this report covers both the microfluidic device and microfluidic-based product markets. It delivers a detailed analysis of every microfluidics application, with an overview of the main players per application. This report also analyzes microfluidic players’ dynamics and ranking, and highlights the latest industry trends, strategic moves, and business models’ evolutions. Innovative technologies, materials and manufacturing processes are

<sup>1</sup> CAGR: Compound Annual Growth Rate

<sup>2</sup> PoC : Point of Care

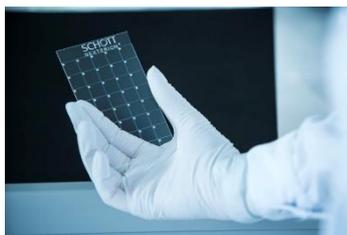


also well described in this new analysis. What is the status of the microfluidics industry? Yole's analysts offer you today a snapshot of this technology and associated markets.

Under its new technology & market analysis, [Status of the Microfluidics Industry](#), Yole's analysts propose a relevant study focused on the microfluidic technologies and the related applications and

market segments. According to this report, PoC devices are increasing in complexity and integrating more and smart combinations of materials among glass, silicon and polymer, to offer additional functions. Analysts also identified high-end applications increasingly using polymer when possible, in order to decrease costs. Glass and silicon have a large share in these applications, especially in sequencing, explains Yole's team. However these semiconductor materials are increasingly integrated at the heart of complex plastic cartridges. "This is also the case in drug delivery – even though most devices are made of glass and silicon today, we may soon observe the entry of polymer devices", comments Sébastien Clerc from Yole. Overall, thanks to increased commercial adoption, all three materials are growing nicely.

Microfluidics is increasingly appealing to many large players, the leaders in various technology sectors. Several of them have recently decided to enter or strengthen their position in the microfluidics market, which reflects the attractiveness of this dynamic field. This is a good opportunity for these companies to find new growth areas where they can leverage their core expertise. A good example is the growing presence of SCHOTT in the domain of micro-structured devices for diagnostics and life sciences. Its recent acquisition of Minifab enables the glass manufacturer to complement its existing capabilities to serve these applications well.



Sébastien had the opportunity to interview **Greg Wolters, Head of SCHOTT SBF Diagnostics** and **Christian Jabschinsky, Head of SCHOTT NEXTERION®**. They invite you to discover their discussion today on [i-Micronews.com](#).

Emerging applications, in particular within the biotechnology field, can benefit from the improvement of microfluidic technologies and innovations.

“Today, academics and researchers are the main users of such technologies in biotech, but we have begun seeing an increased adoption from pharmaceutical companies, CRO<sup>3</sup>, and industrial biotech companies”, explains **Asma Siari, PhD. Technology & Market Analyst at Yole**. “For example, cell line development, single-cell isolation/analysis, as well as cell-gene therapies and gene editing, are all applications where microfluidics have a role to play.”

In particular, microfluidics is receiving enthusiastic response from single-cell isolation, where there are already several successful commercialized technologies. The other applications mentioned above are steadily emerging, and it is time for innovative microfluidic companies to take the opportunity to solve the issues linked to integration, automation, throughput increase, etc. Indeed, most solutions used today are expensive and low-throughput, and thus prone to human error due to manual operations.

In its microfluidic report, Yole proposes a detailed description of the challenges these fields face. The company points out how microfluidic technologies, for example droplet microfluidics, can address the bottlenecks and forge new possibilities... A detailed description of the report, [Status of the Microfluidics Industry](#) is available on [i-Micronews.com](#).



In addition, these results will be detailed during a presentation proposed by Yole at [Lab-on-a-Chip and Microfluidics World Congress](#) (Coronado Island, California – October 7 to 9, 2019):

- Title of the presentation: Status of the Microfluidics Industry: The Lure of Microfluidic

Devices High Volume Production

- Date: October 9 at 10:30 PM
- Location: during co-located conference, title The Companies, Emerging Technologies & Commercialization Track "B".
- Speaker: Sébastien Clerc, Technology & Market Analyst, Microfluidics & Medical Technologies, Yole Développement

Full program on [i-Micronews.com](#).

Make sure to collect all presentations that are regularly posted on [i-Micronews.com](#).

Stay tuned!

<sup>3</sup> CRO : Contract Research Organizations

**ABOUT THE REPORT:****Status of the Microfluidics Industry**

*Diversification of microfluidic technologies has led to burgeoning new applications and market growth, driving players' interest and M&A. - Powered by Yole Développement (Yole).*

**Companies cited:**

3M, 10X Genomics, Abaxis (Zoetis), Abbott, Alere (Abbott), Achira Labs, Affymetrix (Thermo Fisher Scientific), AGC, Agilent Technologies, Akatsuki Tech, Akonni Biosystems, Allevi, ALine, Alveo Technologies, Angle plc, Applied Microarrays, Araymond Life, Arrayit, Arrayjet, Ativa Medical, Atlas Genetics (binx health), AutoGenomics (Prescient Medicine), AxoSim, Axxicon, Axxin, Balda AG (Stevanato Group), Base4 Innovation, BD, BGI, binx health, Biocartis, Biocept, BioFire Diagnostics (bioMérieux), BioFluidica, Biolidics... and more

**Authors of the report:**

- **Sébastien Clerc** works as a Technology & Market Analyst, Microfluidics, Sensing & Actuating at Yole Développement (Yole).

As part of the Photonics, Sensing & Display activities, Sébastien has authored a collection of market and technology reports dedicated to microfluidics and other micro-devices for both market segments: medical (including diagnostics, pharmaceutical, biotechnology, drug delivery, medical devices) and industrial (including environment, agro-food).

In parallel, he is daily involved in custom projects such as strategic marketing, technology scouting and technology evaluation to help academic and industrial players in their innovation processes. Thanks to his technology & market expertise, Sébastien has spoken in more than 20 industry conferences worldwide over the last 4 years.

Sébastien Clerc graduated from Grenoble Institute of Technology (Grenoble INP - Grenoble, France) with a Master's degree in Biomedical Technologies. He then completed his cursus with a Master's degree in Innovation and Technology Management in the same institute.

- As a Technology & Market Analyst, Sensing Technologies at Yole Développement (Yole), **Asma Siari** is involved in the development of technology & market reports as well as the production of custom consulting projects. Asma is part of the Photonics, Sensing & Display activities at Yole. She daily investigates innovative technologies for medical, wearable and connected applications and related market segments. Pressure sensors, microfluidics devices including diagnostic technologies (micropumps and microvalves), BioMEMS and more are part of the technology portfolio analyzed by Asma Siari, at Yole.

After a Master's degree in Biotechnologies, Diagnostic Therapeutics & Management, Asma served as Research Assistant at the Moores Cancer Center (San Diego, CA).

She is a coauthor in three scientific publications published in the Molecular Cancer Research Journal.

Asma Siari graduated with an Advanced Master's degree in International Strategy & Marketing BtoB from EM Lyon Business School (France).

**ABOUT YOLE DEVELOPPEMENT**

Founded in 1998, **Yole Développement (Yole)** has grown to become a group of companies providing marketing, technology and strategy consulting, media and corporate finance services, reverse engineering and reverse costing services and well as IP and patent analysis. With a strong focus on emerging applications using silicon and/or micro manufacturing, the Yole group of companies has expanded to include more than 80 collaborators worldwide covering MEMS & Sensors - Imaging - Medical Technologies - Compound Semiconductors - RF Electronics - Solid State Lighting - Displays - Photonics - Power Electronics - Batteries & Energy Management - Advanced Packaging - Semiconductor Manufacturing - Software & Computing - Memory and more...

The "More than Moore" market research, technology and strategy consulting company Yole Développement, along with its partners System Plus Consulting, PISEO and KnowMade, support industrial companies, investors and R&D organizations worldwide to help them understand markets and follow technology trends to grow their business. . For more information, visit [www.yole.fr](http://www.yole.fr) and follow Yole on [LinkedIn](#) and [Twitter](#).

- Consulting & Financial Services: Jean-Christophe Eloy ([eloy@yole.fr](mailto:eloy@yole.fr))
- Reports: David Jourdan ([jourdan@yole.fr](mailto:jourdan@yole.fr))

Yole Développement, System Plus Consulting, Knowmade, PISEO and Blumorpho are part of Yole Group of Companies. Yole Group of Companies - Press Relations & Corporate Communication: Sandrine Leroy ([leroy@yole.fr](mailto:leroy@yole.fr)).

###