

French Firm Gets Funding to Sell More Precise DNA Quantification System

MEDICAL

 Clara Rodríguez Fernández on 20/11/2018



Paris-based Stilla Technologies has raised €16M in a Series A round to sell and develop a high-precision PCR system for DNA quantification with promising applications in diagnostics.

The round was led by Illumina Ventures, the investor arm of the gene sequencing giant Illumina. With the funds, Stilla Technologies plans to accelerate sales of its PCR technology, launch a second product and begin the clinical validation of its diagnostics applications.

Founded in 2013, Stilla Technologies has developed a system for DNA quantification based on digital PCR technology, which is known for higher precision and sensitivity than other PCR methods.

ADVERTISEMENT



"Digital PCR is the method of choice to analyze known targets in a complex sample. That is typically the challenge for liquid biopsies where the biomarkers of interests, like tumor DNA, are diluted in a complex mixture of wild-type DNA," Rémi Dangla, CEO and co-founder of Stilla Technologies, told me. "[With digital PCR] it is easy to detect a rare mutant in a high background of wild-type DNA, like a 0.1% mutant to wild-type fraction."

To achieve that, the sample is divided into thousands of droplets, each one with a single DNA molecule. After the PCR, the machine counts the number of droplets that contain the target sequence, which give a fluorescent signal, to quantify the amount of a specific DNA sequence in the whole sample.

The Naica system developed by Stilla aims to improve on digital PCR technology. *"Digital PCR really makes the analysis of complex samples easy and precise. And the Naica System makes digital PCR itself easy,"* said Dangla. *"It is the simplest system on the market... It's also the fastest, with a time to result in 2.5h."*

Feedback



We use [cookies](#) to give you the best experience and for advertising purposes. By accepting, you support our independent media and it's freely accessible content.

Accept cookies

Decline cookies



The Naica system

The technology is also designed to detect three different sequences of DNA at once from a single sample, using different fluorescent colors to identify each one. This feature opens opportunities in diagnostic applications, the first of which will be in oncology.

"We and a number of our users are using the Naica System to characterize and monitor cancer patients from simple blood draws by targeting clinically relevant mutations, such as EGFR mutations for lung cancer patients," said Dangla.

"With the 3 colors, you can target the wild-type DNA with one color, the sensitizing mutations with another and the resistance mutations with the last. Hence, in a single test from a simple blood draw, you can get all the relevant information: will the patient respond to the treatment? is the patient resistant to the treatment?"

Other applications in sight for the company are prenatal testing and GMO detection.

The company is also planning the launch of a second generation product, whose exact features have not yet been disclosed, but Dangla mentioned it is intended to increase the throughput, its capacity to analyze several sequences at once and its integration into automated laboratory workflows.

Illumina currently dominates the gene sequencing market, which it has done through an aggressive strategy of lawsuits and acquisitions. The company has bought a dozen sequencing firms, including Solexa — the British company that pioneered next-generation sequencing. Attracting the interest of the biggest player in the market is surely good news for Stilla and a validation for the potential of its technology.

Images via Shutterstock; Stilla Technologies

Let's Continue The Conversation

Feel free to send us comments about this article to comments@labiotech.eu and/or comment on that article on social media.



Read more on: [Diagnostics](#), [France](#)



Newsletter Subscription

Do you want to join 10 000 subscribers who receive the hottest biotech news in their inbox every Friday (for free)?

We use cookies to give you the best experience and for advertising purposes. By accepting, you support our independent media and it's freely accessible content.

Accept cookies

Decline cookies

Most popular



10 Biotech Companies in Berlin You Should Know



The Past, Present and Future of Genome Sequencing



Top Ten Biotechs in Scotland to Watch Out For



Taking Biotech to the Next Level with Laboratory Automation



Update: French Biotech Raises €22M for a Gene Therapy Trial in Retinitis Pigmentosa

Sponsored



How to Find the Best Electronic Notebook for Your Lab



The Medical Cannabis Momentum in Europe and Canada



A Pathway for Pioneers: Merck's Biotechnology Partnership Program

ADVERTISEMENT

Better Antibody Discovery
Technology at your Fingertips.
Trianni Mouse Antibodies
are a Match for Humans.

LEARN MORE **TRIANNI**

Feedback

Related posts



French Company's Drug Lowers Blood Pressure by Targeting Brain Proteins



Biosensors: Monitoring our Health Anywhere, Anytime



Solid Phase II Performance for French Autoimmune Liver Disease Drug



DNA Repair Treatment Shows Early Promise for Treating Cancer



We use cookies to give you the best experience and for advertising purposes. By accepting, you support our independent media and it's freely accessible content.

Accept cookies

Decline cookies



Labiotech.eu is the leading digital media covering the European Biotech industry. Over 100,000 monthly visitors use it to keep an eye on the business and innovations in biotechnology. Hope you'll enjoy reading our stories!

"We are building the Next Generation of Digital Media for Biotech"

Philip, Joachim and the growing team at Labiotech.eu

ABOUT US

TEAM

STORY

WHO READS US?

INSIDE LABIOTECH

JOIN US

PITCH US

PARTNERS

ADVERTISE

CONTACT

MORE



Feedback

Follow @labiotech_eu <28,000+ Newsletter <10,000+ Follow <6,000+

Made with ♥ & 🇩🇪 in Berlin

Labiotech UG, All Rights Reserved - Imprint - Privacy Policy



We use cookies to give you the best experience and for advertising purposes. By accepting, you support our independent media and it's freely accessible content.

Accept cookies

Decline cookies