

~ A FEW FIGURES ABOUT IPGG ~

27.2M€

INVESTED  
SINCE ITS CREATION

3000m<sup>2</sup>

(32000 SQ. FT)  
EXCLUSIVELY DEDICATED  
TO RESEARCH

30

STATE-OF-THE-ART EQUIPMENT  
ON THE TECHNOLOGICAL  
PLATFORM

250

RESEARCHERS  
GROUP LEADERS,  
RESEARCH FELLOW,  
POSTGRADUATE AND PHD

17

RESEARCH TEAMS  
MEMBERS OF THE PSL UNIVERSITY:  
INSTITUT CURIE, CHIMIE PARISTECH,  
ENS, ESPCI PARIS

≈ 130

PUBLICATIONS PER YEAR  
38 NATURE • 8 CELL • 8 SCIENCE

203

PATENTS LICENSED  
HELD IN PORTFOLIO  
BY THE RESEARCH TEAMS

18

STARTUPS COMPANIES  
FOUNDED BY IPGG TEAMS

47

INDUSTRIAL CONTRACTS  
HELD BY  
THE RESEARCH TEAMS

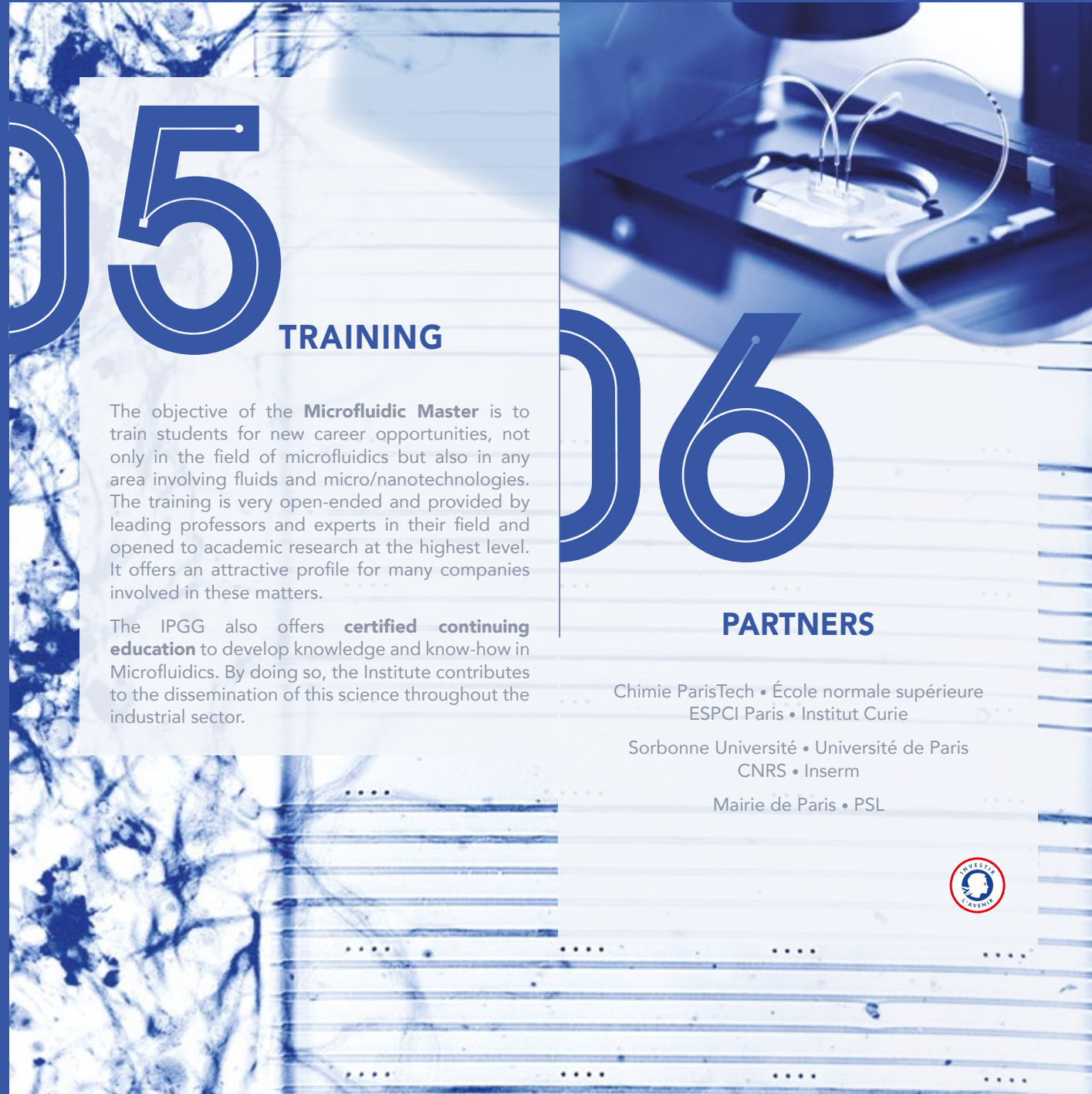
120M€

OF CAPITAL RAISED  
BY THE STARTUPS

5

ERC  
STARTING GRANTS,  
ADVANCED GRANTS...

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# 05 TRAINING

The objective of the **Microfluidic Master** is to train students for new career opportunities, not only in the field of microfluidics but also in any area involving fluids and micro/nanotechnologies. The training is very open-ended and provided by leading professors and experts in their field and opened to academic research at the highest level. It offers an attractive profile for many companies involved in these matters.

The IPGG also offers **certified continuing education** to develop knowledge and know-how in Microfluidics. By doing so, the Institute contributes to the dissemination of this science throughout the industrial sector.

# 06 PARTNERS

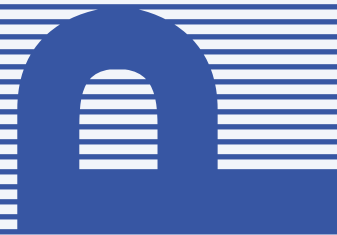
Chimie ParisTech • École normale supérieure  
ESPCI Paris • Institut Curie

Sorbonne Université • Université de Paris  
CNRS • Inserm

Mairie de Paris • PSL



FROM FUNDAMENTAL RESEARCH TO INNOVATION



THE BEST WAY TO IMPROVE  
**TECHNICAL PROGRESS** IS TO  
 RECONCILE **SCIENCE & INDUSTRY**

~ PIERRE-GILLES  
 DE GENNES ~

**PIERRE-GILLES  
 DE GENNES  
 INSTITUTE  
 ~ IPGG**

IPGG is a research center specialized in Microfluidics and its wide range of applications. **The institute targets top-level fundamental research and brings out pioneering concepts that foster progress and innovation.** IPGG brings together researchers from different disciplines (physics, biology, chemistry, engineering). Their complementary skills enable them to conceive theoretical breakthroughs as well as innovative industrial applications.

In 2010 and 2019, IPGG received the Equipex and Labex labels from the Investissements d'avenir, a French national program launched to foster innovation. **The Institute has become one of the world leaders in the field of Microfluidics** and has established prestigious partnerships with several universities and companies.

**2 MICROFLUIDICS**

Microfluidics is the **science of the manipulation of fluids at the micrometric scale.** Microfluidic systems are devices that combine numerous functionalities through cutting edge microfabrication technology.

The microfluidic devices elaborated at IPGG can **perform high-throughput chemical synthesis, produce energy or mimic/replicate different organs to develop tomorrow's medicine.** Microfluidics is a rapidly evolving market that fosters innovations in many areas of fundamental and applied research.

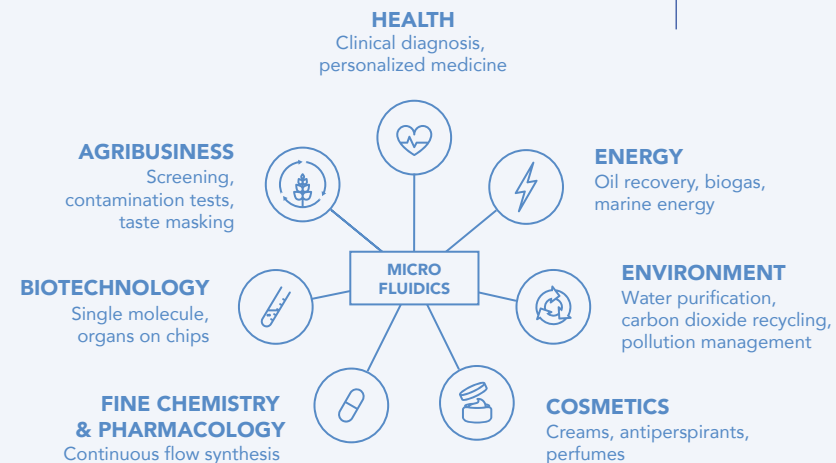
**3 PARTNERSHIPS  
 & VALORIZATION**



Partnerships-based research and valorization are **strong key aspects** of IPGG. Since 2016, the Institute is certified with the Carnot label and strongly supports companies in their collaborative research projects.

The new recent advances in microfluidics give our partners a competitive advantage in multiple fields of application.

The Carnot IPGG is also a partner of the **Paris Flowtech Platform**, focusing on flow chemistry that was awarded the Sesame PIA award in 2019. The IPGG research teams have already founded more than **18 startups** companies such as Hifibio, Alvéole, Calyxia or Sweetch Energy.



**4 TECHNOLOGICAL  
 PLATFORM**



The **550 m<sup>2</sup>** platform provides all the technologies needed for the design, fabrication and characterization of microfluidic devices, together with a cell culture and imaging facility. It is a **CNRS unit (UMS3750)** since January 2016.

It also belongs to the SBPC (Salles Blanches Paris Centre) and **Renatech+ networks.**

A dedicated team of engineers and technicians manages the equipment, provides support to the users (consulting/advices and training) and develops new processes / microfluidics technologies.