

## Contact Form

### Digital PCR service


Since September 2013, the qPCR-HD-GPC platform has been offering digital PCR services, accessible to the entire scientific community. The aim of this document is to present the different service possibilities and to identify your needs in order to propose a suitable offer.


#### Plateforme de qPCR Haut-Débit par microfluidique

---

- **Scientific responsible:** Bertrand DUCOS
- **Technical manager:** Marine DELAGRANGE
- **Contact**

 [qpcr@biologie.ens.fr](mailto:qpcr@biologie.ens.fr)

 01.44.32.39.19

 <https://qpcr.cnrs.fr/>

The qPCR-HD-GPC platform, labelled IBISA, is part of the Genomic Paris Centre consortium (ISO 9001 and NFX 50-900 certified) which brings together the high-throughput sequencing platforms of the ENS and the Institut Curie.

- **Services and facilities**

We offer a project support system for which the platform participates in the experimental design and takes care of the whole experimental and analytical process in order to provide publication-ready results to the project sponsors. Digital PCR analysis can be performed on Fluidigm microfluidic chips with the Biomark-HD™ system (dPCR), or in nanodroplets after emulsion in microfluidic chips of the Naica™ system from Stilla Technologies (cdPCR), for more sensitivity.

Services provided	Equipments
Nucleic acids extraction	RNeasy kit (Qiagen)   other possible kits
RNA quality control	NanoDrop™
	Fragment Analyzer (Agilent Technology)
Nucleic acids retrotranscription	Oriented or specific RT Specific kits (Fluidigm, Exiqon,)   other possible kits
	One Step RT dPCR (QuantaBio)
cDNA quality control	Fragment Analyzer (Agilent Technology)
Microfluidic dPCR	Biomark-HD™ and IFC controller MX
	12.765 chip (12 samples/run)
	dPCR 37k chip (48 samples/run)
Nanodroplet cdPCR	Naica® 6 colours system
	Sapphire chip (up to 12 samples/run)
	Opale chip (up to 48 samples/run)
Technical validation and analysis of the data	Fluidigm software   CrystalMiner

## Your project

---

**Project name**

**Acronym**

**Project leader's name**

**Function**

**Mail**

**Phone**

**Project leader's laboratory**

**Laboratory status**

Academic

Private

**Laboratory address**

**Do you have any experience in qPCR ?**

Yes

No

**Describe your project and its objectives**

## Experimental design

---

**What is your biological model ?**

**How many samples to quantify ?**

**How many targets would you like to study ?**

**What are your reference genes (if necessary) ?**

**Describe the experiments envisaged and the different conditions to analyze and/or compare ?**

**Which chemistry is envisaged ?**

- Hydrolysis probes
- EvaGreen
- Other

**Have the probes/primers previously been tested and validated ?**

- Yes
- No

**What is their annealing temperature ?**

°C

## Project completion

---

**When would you like to start/finish this project ?**

**What services would you like the platform to provide ?**

- Single cell sample preparation
- Nucleic acid extraction
- miRNA extraction
- RNA dosage and dilution
- RNA quality control
- Retrotranscription
- Quality control of all cDNA
- Quality control of some cDNA
- Microfluidic dPCR quantification
- Nanodroplet cdPCR quantification
- Technical validation and analysis of the data

## Technical advice

---

- Samples should be provided in 96-well DNase/RNase-free plates, in a minimum volume of 5 $\mu$ L. The cells will be subject to a specific protocol to be discussed with the project sponsor.
- We can ensure receipt of the probes/primers directly on the platform. If required, the probes/primers (10 $\mu$ M of each primer) will also be supplied in a DNase / RNase-free 96-well plate. In the case of hydrolysis probes, we offer favourable pricing on Taqman™ probes in agreement with Thermofisher.
- In case of shipment, it is necessary to plan to use sufficient dry ice to keep the samples/probes/samples frozen for at least 3 days (as an indication, dry ice sublimation is 1kg/24h).
- We recommend quality control of all RNA and cDNA.

