



An initiative of the Canceropôle Provence-Alpes-Côte d'Azur



### Presentation of the CRISPR Screen action

Selected in the context of a call for novel structuring actions from the Canceropôle's Provence-Alpes-Côte d'Azur, the CRISPR Screen action aims to **build a regional infrastructure on the innovative CRISPR/Cas9-based screen technology** and constitute a task-force working collaboratively with the cancer research community in the South region of France.

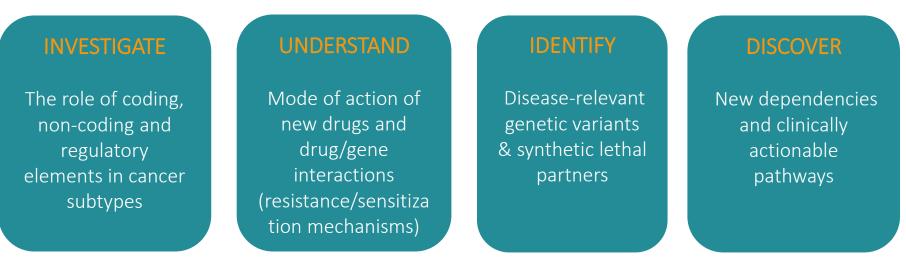
The objective of this action is to **develop, improve and spread CRISPR/Cas9 functional genomics screening approaches** that leverage different versions of the Cas9 enzymes to better understand gene function and identify biologically-relevant targets in various cancer subtypes. In addition, we will also work on enhancing lentiviral delivery methods, and create infrastructure and resources to enable their use on large and small scales.



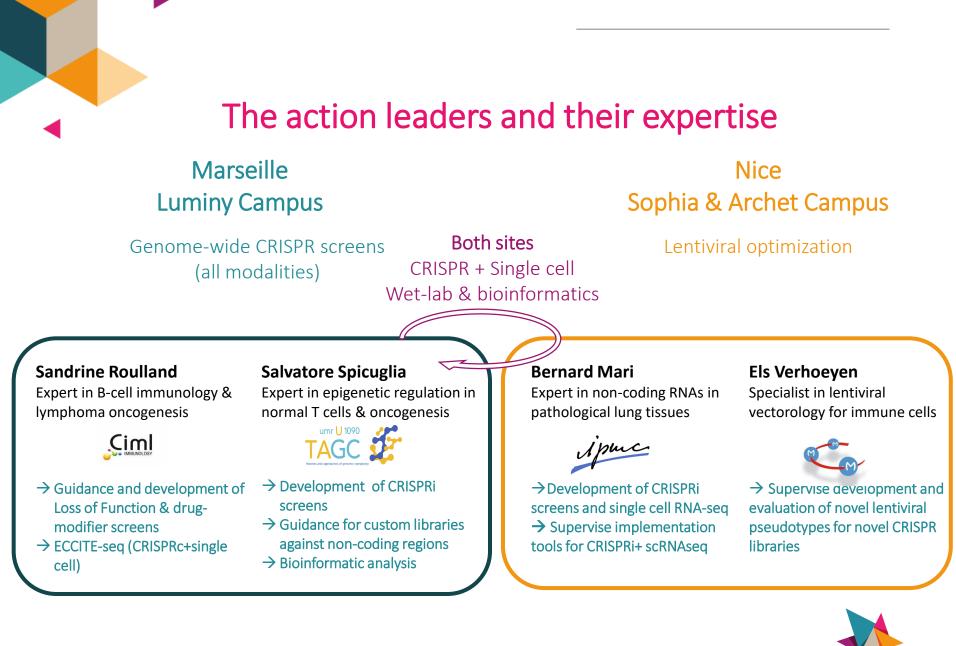


## Value for collaborative partners

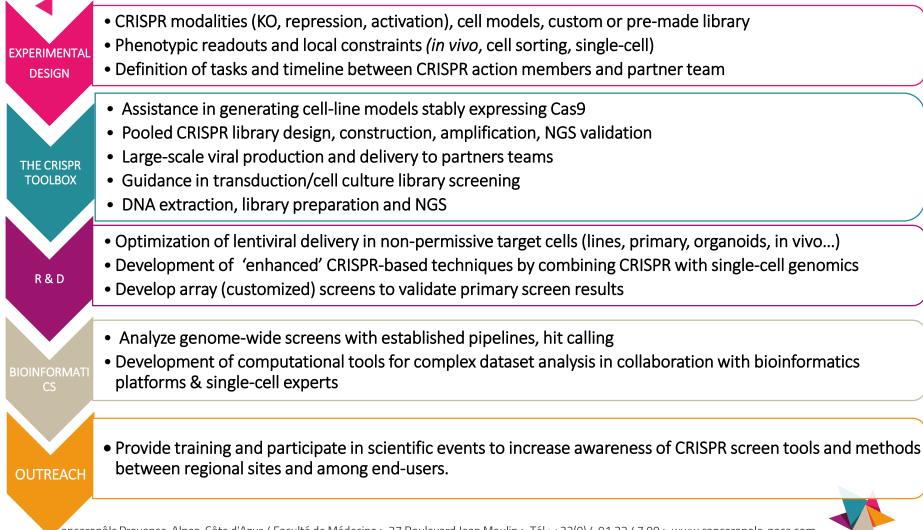
The CRISPR Screen action provides researchers with 'toolbox' to interrogate gene function at the genome-wide level with local site specificities and complementary expertise. By collaborating with the CRISPR screen action, scientists can gain access to CRISPR-based high-throughput screening technology to:







# The offer: a CRISPR screening service



. canceropôle Provence-Alpes-Côte d'Azur / Faculté de Médecine > 27 Boulevard Jean Moulin > Tél : +33(0) 4 91 32 47 00 > www.canceropole-paca.com

# The support from the Canceropôle

### SUPPORT

Funding of personnel & equipment

Starting packages for consummables for collaborative and R&D projects

Project application and follow-up by a Steering Committee

Organisation of events and communication

IMPACT (2020) 2 staff members hired

1 Matching Day organized

12 ongoing projects

66% of the projects led by Young Scientists

5 publications submitted or in preparation

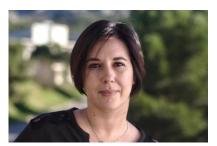
463k€ of additional funding obtained



# User's testimonies

«Even though I started a genome-wide CRISPR screen before the implementation of the CRISPR action, I benefited from the expertise of its members for the steps of sequencing isolated sgRNAs as well as for bioinformatics analyzes. Thanks to this, we are currently in the validation of the identified genes. The action members have always been very available, and helpful, and I really recommend contacting them to anyone who has a screening project » Sandrine Marchetti, C3M, Nice





« We are very grateful to the CRISPR Screen action and to the Canceropôle Provence-Alpes-Côte d'Azur, and in particular to the Dr Sandrine Roulland, for sharing not only reagents and protocols but also advices allowing us to perform genome wide crispr/cas9 screen" Emilie Narni, CIML, Marseille





## Contacts

#### Administrative coordination :

Dr. Vanessa Zepponi, Project officer Canceropôle Provence-Alpes-Côte d'Azur. Tél : 06 14 61 35 67 Mail : <u>vanessa.zepponi@univ-amu.fr</u>

#### **Scientific Leaders:**

Dr. Sandrine Roulland (CIML, Marseille) roulland@ciml.univ-mrs.fr Tel : 04 91 26 91 08

Dr. Bernard Mari (IPMC, Sophia Antipolis) <u>bernard.mari@unice.fr</u> Tel: 04 93 95 77 77 Dr. Salvatore Spicuglia (TAGC, Marseille) salvatore.spicuglia@inserm.fr Tel : 04 91 82 87 22

Dr. Els Verhoeyen (C3M, Nice) els.verhoeyen@univ-cotedazur.fr Tel : 04 89 06 43 01

