SIGNALIFE

http://signalife.unice.fr

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Keywords
Development, Neurosciences
Cell Biology and Physiology
Genetics and Epigenetics
Cellular reprogramming
Signal transduction
Immunity, Stress, Ageing
Stem cells, Pathogens, Cancer
Obesity, Diabetes, Modeling

Numbers
11 millions Euros (2012-2019)
49 research teams
6 laboratories : iBV, IPMC, IRCAN, C3M, ISA, Inria
6 sites in Nice & Sophia Antipolis
Institutions : Inserm, CNRS, INRA, UNS, Inria, Nice Hospital & Anti-Cancer Center
503 members, 208 researchers

Platforms
Imaging
Animal houses
Mouse, zebrafish, Drosophila
Genomics and bioinformatics
Human Biobank
Flow Cytometry
Proteomics

Awards
Marie Curie EU PhD Program
European Research Council ERC
EU grants (FP6/FP77)
EMBO YIPs & EMBO Members
CNRS Medals, Inserm Prizes
Numerous distinctions

Publications (2006-2011)
1479 articles
201 (13,6 %) IF>10
692 (46,8 %) IF>5

Presentation

The research program "SIGNALIFE" has been selected by the French Ministry of Research and Education during the highly competitive Labex "Laboratoire d'Excellence" call, within the framework of the governmental initiative "Investments for the Future" in 2011.

Labex SIGNALIFE has been awarded 11 million euros over an 8-year period, starting in March 2012. SIGNALIFE aims at developing a research network between six leading academic research institutes in Nice. This project will thus contribute to establishing an interactive network of regional institutes in the life sciences, focused on the study of signaling pathways in animal and plants, essential to our understanding of human health and fundamental biological processes.

The key initiative of the Labex SIGNALIFE is to advance postgraduate and research training through the recruitment of talented and highly motivated PhD students.

Labex organization

SIGNALIFE is hosted by the Université Nice Sophia Antipolis (UNS) and gathers roughly 40% of its life sciences forces. It is coordinated by Dr. Stéphane Noselli, CNRS Research Director, head of the institute de Biologie Valrose (iBV).

SIGNALIFE is composed of 6 research institutes : iBV, Institut de Pharmacologie Moléculaire et Cellulaire (IPMC), Centre Méditerranéen de Médecine Moléculaire (C3M), Institute for Research Cancer and Aging of Nice (IRCAN), Institut Sophia Agrobiotech (ISA) and Inria Sophia Antipolis-Méditerranéen Research Center.

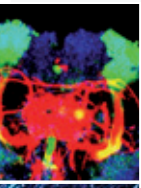
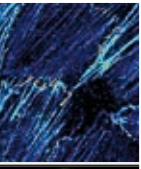
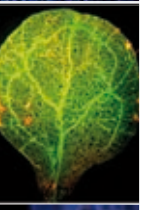
Research

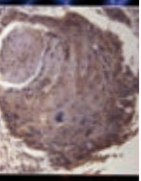
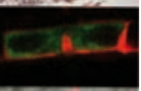
The SIGNALIFE project is organized into 5 main axes

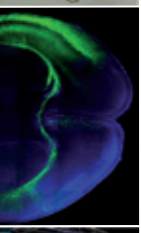
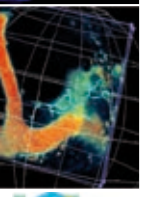
1. Cellular architecture of signaling pathways
2. Plasticity and Signaling
3. Stress Signaling
4. Signaling in aging and disease progression
5. New principles in signaling and application

PhD Program

The primary objective of this unique international PhD program is to recruit 72 highest quality PhD researchers from all over the world at all interfaces of Cell signaling. The SIGNALIFE PhD program is a 3-year multi-stage project emphasizing laboratory research coupled with high profile theoretical and practical courses training. At the core of this program is a consortium of 49 high caliber, motivated group leaders studying different aspects of Cell Signaling in a broad range of model organisms at the UNS. Successful candidates will enroll at the Graduate School of the UNS, a major interdisciplinary campus with over 25 000 students on the French Riviera and state-of-the-art facilities for biomedical and basic research.

SIGNALIFE : 49 Teams

Abad : Plant nematode interactions
Antonny : Dynamics of lipid membranes and protein coats
Arkowitz :Polarized growth in yeast
Auberger : Cell Death, Differentiation, Inflammation and Cancer
Ballotti : Biology & pathology of melanocytic cells:from cutaneous pigmentation to melanomas
Barbry : Physiological Genomics of the Eukaryotes
Bardoni : Physiopathology of intellectual disability
Besse : Post-transcriptional control of axon growth and guidance in *Drosophila*
Braendle : Gene-environment interactions in development and evolution
Braud /Anjuère : Immune regulation at muco-cutaneous surfaces
Chaboissier : Genetics of sex determination and fertility
Collombat : Diabetes Genetics
Cristofari : Retrotransposon and genome plasticity
Dani : Stem cells and differentiation
Delaunay : Circadian System Biology
Descombes : Computational Morphometry and Morphodynamic of Cellular & Supra-cellular Structures (MORPHEME : Inria/iBV/I3S)
Feral : Epithelial homeostasis and tumorigenesis
Frendo : Nitrogen-fixing symbiosis and redox state
Fürthauer : Membrane dynamics and cell signaling in animal development
Gilson : Telomere, senescence and cancer
Glaichenhaus : Immunology and immune tolerance
Gouzé : Biological Control of artificial ecosystems (BIOCORE: Inria/INRA /CNRS/UPMC)
Gual /Tran : Hepatic complications in obesity
Hofman : Carcinogenesis related chronic active inflammation
Hueber : Death receptors signaling and cancer therapy
Lalli : Regulatory mechanisms of gene expression in physiopathology
Lambeau : Molecular physiopathology of phospholipases A2 and their mediators
Lemichez : Microbial Toxins in host-pathogen interactions
Leopold : Genetics and Physiology of growth in *Drosophila*
Liti : Population genomics and complex traits
Luton /Franco : Arf proteins, cell morphology and membrane transport
Magnaldo /Meneguzzi : Genetics and physiopathology of epithelial cancers
Marie : Molecular mechanisms of neuronal plasticity in health and disease
Martin : Activity-dependent dynamics and roles of synaptic sumoylation
Nahon : Genomics and Evolution in Neuroendocrinology (GENE)
Noselli :Epithelial morphogenesis and left-right asymmetry in *Drosophila*
Panabières : Plant oomycete interactions
Poirié : Evolution and Specificity of Multitrophic Interactions
Rassoulzadegan : RNA-mediated epigenetic heredity
Ricci : Metabolic control of cell deaths
Robichon : Genome Plasticity and Environment
Schedl : Molecular programs controlling development and tissue homeostasis
Studer : Genetics of mouse cortical development
Tanti/Cormont : Cellular and Molecular Pathophysiology of Obesity and Diabetes
Tartare-Deckert : Microenvironment, signaling and Cancer
Thérond : Secretion and Signaling of Morphogens in *Drosophila* development
Trabucchi : Control of Gene Expression
Van Obberghen : Ageing and diabetes
Van Obberghen-Schilling: Adhesion Signaling and Regulation of Cell Plasticity in the Tumor Microenvironment