

ACADEMIC NEIGHBOURS – SIB SWISS INSTITUTE OF BIOINFORMATICS

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The [SIB Swiss Institute of Bioinformatics](http://www.sib.swiss) is an independent, nonprofit foundation recognized of public utility. The mission of the Institute is to lead and coordinate the field of bioinformatics in Switzerland. SIB's data science experts join forces to advance biological and medical research and enhance health by:

- providing the national and international life science community with a state-of-the-art [bioinformatics infrastructure](#), including resources, expertise and services
- federating world-class [researchers](#) and delivering [training in bioinformatics](#).

SIB counts some 60 groups from the major Swiss schools of higher education and research institutions and more than 750 scientists with a strong presence in Lausanne.

www.sib.swiss

RESEARCH FIELDS

Bioinformatics is the application of computer technology to the understanding and effective use of biological and clinical data. It is thus an interdisciplinary field, targeting different areas of medicine and life sciences, such as:

- Bioinformatics
- Personalized medicine
- Oncology
- Immunology
- Vaccines
- Nutrition

SIB's research activities focus on seven main bioinformatics domains presented in the table below with the corresponding research & service groups located in Lausanne, Fribourg, Yverdon-les-Bains and Geneva:

Bioinformatics fields	Group Leaders	Research & Services Groups or Core Facilities	SIB Institutional Members
Genes and genomes	Bergmann Sven	Computational Biology Group	UNIL
	Bucher Philipp	Computational Cancer Genomics Group	EPFL
	Deplancke Bart	Laboratory of Systems Biology and Genetics	EPFL
	Dermitzakis Emmanouil	Genomics of Complex Traits Group	UNIGE
	Falquet Laurent	Bioinformatics Unravelling Group - BUGFri (core facility)	UNIFR
	Kutalik Zoltan	Statistical Genetics Group	UNIL
	Stasiak Andrzej	DNA and Chromosome Modelling Group	UNIL
	Zdobnov Evgeny	Computational Evolutionary Genomics Group	UNIGE
Proteins and proteomes	Bairoch Amos & Lane Lydie	Computer and Laboratory Investigation of Proteins of Human Origin – CALIPHO	UNIGE
	Lisacek Frédérique	Proteome Informatics Group – PIG	UNIGE
	Xenarios Ioannis & Bougueleret Lydie	Swiss-Prot Group	UNIGE
Medicine and health	Delorenzi Mauro	Bioinformatics Core Facility - BCF (core facility)	UNIL
	Fellay Jacques	Host-Pathogen Genomics Group	EPFL

	Gfeller David	Computational Cancer Biology	UNIL
	Peña-Reyes Carlos-Andrés	Intelligence for Computational Biology - CI4CB	HEIG-VD
	Ruch Patrick	Text Mining Group	HEG
Evolution and phylogeny	Jensen D. Jeffrey	Population Genetics Group	EPFL
	Goudet Jérôme	Population Genetics and Genomics Group	UNIL
	Moret Bernard	Laboratory for Computational Biology and Bioinformatics	EPFL
	Robinson-Rechavi Marc	Evolutionary Bioinformatics Group	UNIL
	Salamin Nicolas	Computational Phylogenetics Group	UNIL
	Wegmann Daniel	Statistical and Computational Evolutionary Biology Group	UNIFR
Structural biology	Dal Peraro Matteo	Laboratory for Biomolecular Modelling	EPFL
	Michielin Olivier & Zoete Vincent	Molecular Modelling Group	UNIL
Systems biology	Chopard Bastien	Scientific and Parallel Computing Group	UNIGE
	Mazza Christian	Biomathematics and Computational Biology Group	UNIFR
	Milinkovitch Nuchael	Artificial & Natural Evolutionary Development of Complexity Group	UNIGE
	Naef Félix	Computational Systems Biology	EPFL
Bioinformatics infrastructure	Rougemont Jacques	Bioinformatics and Biostatistics Core Facility-BBCF (core facility)	EPFL
	Xenarios Ioannis	Vital-IT Group (core facility)	SIB