



Facts and Figures 2011



SWISS NATIONAL SCIENCE FOUNDATION

The Swiss National Science Foundation (SNSF) is the principal Swiss agency promoting scientific research. On behalf of the Swiss Federal government, it supports research projects in all disciplines, from philosophy and biology to the nanosciences and medicine.

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Research commissions

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Research commissions

Funding Activities of SNSF

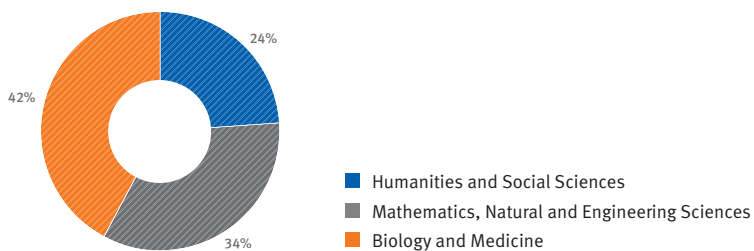
Full version of the statistics:

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Funding by research area

Amounts in millions CHF

Distribution of the approved amounts



	Approved amount	Women Men
Humanities and Social Sciences	173.0	29% 71%
Mathematics, Natural and Engineering Sciences	247.5	13% 87%
Biology and Medicine	305.2	16% 84%
Unapportionable	0.3	
Total	726.0	18% 82%

Status as at 2010

Funding by type of funding

Amounts in millions CHF

Distribution of the approved amounts



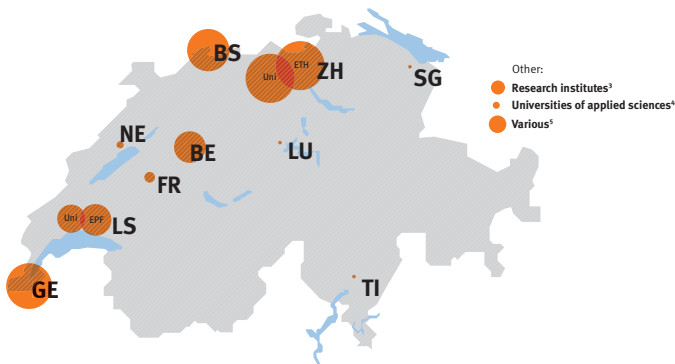
	Number	Amount
Investigator-driven research	2,634	635.9
Project funding ¹	1,360	466.2
Individual funding	762	159.5
Scientific conferences	196	1.4
Publication grants	142	1.7
International co-operation	174	7.1
Targeted research	459	90.1
National Research Programmes (NRP)	66	27.6
National Centres of Competence in Research (NCCR)	393	62.5
Total	3,093	726.0

¹ Without scientific conferences

Status as at 2010

Funding by institution and research area

Distribution of the approved amounts (incl. overhead)¹



Institution	Humanities and Social Sciences	Mathematics, Natural and Engineering Sciences	Biology and Medicine	Unassignable	Total in mio. CHF	Total in %	Overhead ²	Total incl. overhead
Universities	126.3	109.9	238.9		475.1	65%	55.0	530.1
Berne (BE)	16.9	23.3	27.7		67.9	9%	8.4	76.3
Basel (BS)	13.3	17.1	40.3		70.7	12%	10.5	81.2
Fribourg (FE)	11.8	12.9	6.4		31.1	3%	2.7	33.8
Geneva (GE)	23.3	27.6	47.6		98.5	13%	11.3	109.8
Lucerne (LU)	3.8	–	0.0		3.8	1%	0.6	4.4
Lausanne (LS)	14.7	4.8	49.0		68.5	8%	6.4	74.9
Neuchâtel (NE)	3.0	4.5	4.5		12.0	2%	2.0	14.0
St. Gallen (SG)	4.5	–	–		4.5	1%	0.5	5.0
Ticino (TI)	6.6	2.4	–		9.0	1%	0.6	9.6
Zurich (ZH)	28.4	17.3	63.4		109.1	14%	12.0	121.1
ETH Domain	15.6	124.6	48.1		188.3	26%	21.8	210.1
EPF Lausanne (LS)	4.0	50.8	16.4		71.2	9%	7.2	78.4
ETH Zurich (ZH)	11.4	56.0	26.6		94.0	14%	11.8	105.8
Research institutes ³	0.2	17.8	5.1		23.1	4%	2.8	25.9
Universities of applied sciences⁴	12.4	0.5	0.6		13.5	2%	1.9	15.4
Various⁵	12.1	10.8	12.4		35.3	5%	2.1	37.4
Unassignable⁶	6.6	1.8	5.1	0.3	13.8	2%	0.0	13.8
Total	173.0	247.6	305.1	0.3	726.0	100%	80.8	806.8

¹ If no application was presented by the respective institution, this is denoted by a dash. Amounts lower than CHF 0.05 million are shown as zero.

² Entitlement to overhead in accordance with overhead regulations

³ Research institutes in the ETH Domain (EMPA, EAWAG, PSI, WSL)

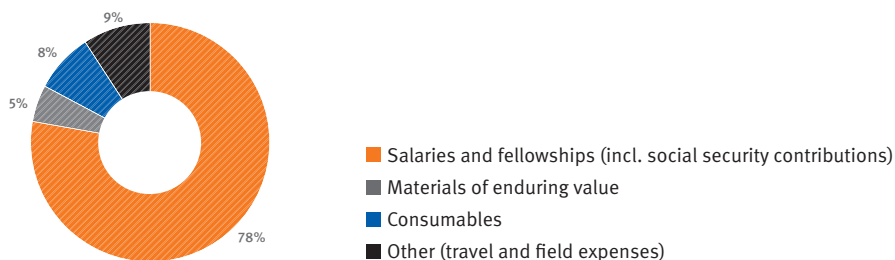
⁴ BFH, FHNW, FHO, HES-SO, HLU, SUPSI, ZFH, Kalaidos and Universities of Teacher Education

⁵ Research centres, museums, libraries, individuals, companies, non-profit organisations, etc.

⁶ Not assignable to an institution and/or discipline (e.g. fellowships, annual contributions)

Use of the approved amounts

Total amount: CHF 726 million



Status as at 2010

Personnel in research projects

Around 5,600 persons were employed in research projects in 2010. In addition, over 1,000 were supported in the context of Individual funding and 1,100 were employed through the National Research Programmes and Centres of Competence in Research.

	Total	Women	Men
Scientists ¹	35 %	44 %	56 %
Personnel at doctoral level	53 %	39 %	61 %
Technicians, support staff	12 %	69 %	31 %
Total	100 %	44 %	56 %

¹ Senior researchers and post-docs

Funding for research projects primarily benefits the promotion of young scientists in Switzerland. Thus 78 % of the collaborators are 35 years or younger (95 % in the case of personnel at doctoral level, 56 % for other scientists).

Status as at 2010

Amounts in millions CHF

	Success rate ¹			Number of proposals submitted			Number of proposals submitted			Approved amount
	Total	Women	Men	Total	Women	Men	Total	Women	Men	
Project funding²	53%	46%	55%	2 566	500	2,066	1,360	231	1 129	466.2
Humanities and Social Sciences	46%	47%	45%	750	206	544	343	96	247	72.3
Mathematics, Natural and Engineering Sciences	67%	66%	67%	853	88	765	568	58	510	155.2
Biology and Medicine	47%	37%	49%	815	179	636	380	67	313	181.2
Interdisciplinary Research and Sinergia	47%	37%	49%	148	27	121	69	10	59	57.4
Individual funding	53%	52%	53%	1,368	567	801	722	294	428	145.9
Fellowships (prospective)	68%	70%	66%	711	266	445	480	187	293	28.6
Fellowships (advanced)	65%	57%	70%	166	68	98	108	39	69	11.2
Marie Heim-Vögtlin Programme (MHV) ¹	37%	37%	–	101	101	–	37	37	–	6.1
Ambizione	28%	22%	33%	189	82	107	53	18	35	26.2
SNSF Professorships ¹	22%	26%	21%	201	50	151	44	13	31	73.8
Scientific conferences	90%	87%	91%	218	69	149	196	60	136	1.4
Publication grants	87%	80%	91%	164	66	98	142	53	89	1.7
International co-operation³	48%	28%	52%	124	18	106	60	5	55	5.7
National Research Programmes⁴	76%	83%	74%	29	6	23	22	5	17	9.4
National Centres of Competence in Research⁵	15%	14%	15%	54	7	47	8	1	7	123.7

¹ Ratio of the number of proposals approved/number of proposals submitted

² Without conference grants

³ Comprises SCOPES and North–South Research Partnerships

⁴ Concerns only NRP 64 and NRP 65 at application level

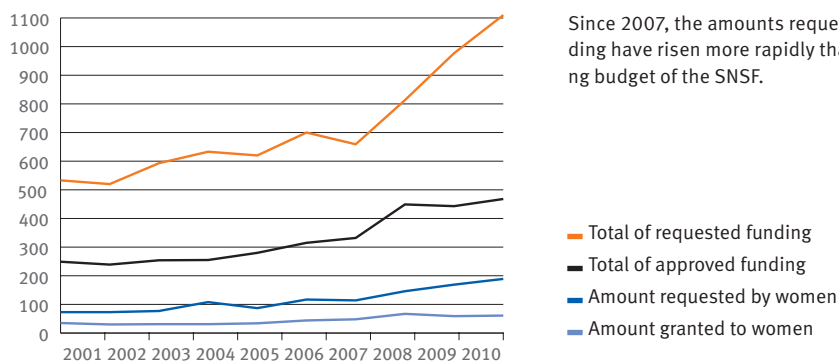
⁵ Concerns only the third series of NCCRs (2008–2010); two-level evaluation procedure

The success rates for project funding regularly reveal differences that are unfavourable to women. The large amount of available data enables a statistical procedure to be applied with which any potential discrimination can be determined. Multivariate analyses are performed annually on the figures, taking into account gender as well as other possible factors, such as age, nationality and type of institution. If these differences are factored in, the gender effect disappears. Hence, in accordance with the GEFO study, no signs of gender discrimination could be made out in the evaluation procedures of the SNSF.

Project funding

Amounts in millions CHF

Total of requested and approved amounts since the year 2001



Status as at 2010

Funding by funding scheme

Amounts in millions CHF

	Number of applications submitted						Number of applications submitted					Approved amount
	New applications			Follow-up applications			New applications			Follow-up applications		
	Total	Women	Men	Women	Men	Total	Women	Men	Women	Men		
Fellowships (prospective)	711	266	445	48	79	480	187	293	31	45	28.6	
Fellowships (advanced)	166	68	98	7	16	108	39	69	2	12	11.2	
Marie Heim-Vögtlin Programme (MHV)	101	101	–	6	–	37	37	0	5	–	6.1	
Ambizione	189	82	107	–	–	53	18	35	–	–	26.2	
SNSF Professorships	201	50	151	8	11	44	13	31	8	11	73.8	
Total (excl. ProDoc)	1,368	567	801	69	106	722	294	428	46	68	145.9	
ProDoc	116	31	85	0	5	36	10	26	0	4	13.5	
Overall Total (incl. ProDoc)	1,484	598	886	69	111	758	304	454	46	72	159.4	

Status as at 2010

National Centers of Competence in Research (NCCR)

Amounts in millions CHF

Series 2001

	Contribution SNSF 2010 ¹	Contribution SNSF for 12 years	Total budget for 12 years	Start	Home institution
Financial Valuation and Risk Management (FINRISK)	2.1	28.2	57.9	2001	University of Zurich
Computer Aided and Image Guided Medical Interventions (CO-ME)	2.0	42.7	112.4	2001	ETH Zurich
Frontiers in Genetics	2.0	43.0	108.8	2001	University of Geneva
Interactive Multimodal Information Management (IM2)	1.1	32.8	85.2	2002	Idiap, Martigny
Climate	1.7	26.6	114.7	2001	University of Berne
Materials with Novel Electronic Properties (MaNEP)	2.9	49.6	187.7	2001	University of Geneva
Mobile Information and Communication Systems (MICS)	2.0	37.5	98.1	2001	EPF Lausanne
Molecular Oncology	2.2	43.6	110.6	2001	EPF Lausanne
Nanoscale Science	2.9	49.3	160.2	2001	University of Basel
North–South	2.0	36.4	97.1	2001	University of Berne
Neural Plasticity and Repair (NEURO)	2.5	42.7	234.5	2001	University of Zurich
Quantum Photonics	2.3	44.8	118.5	2001	EPF Lausanne
Structural Biology – Molecular Life Sciences	2.0	36.7	103.4	2001	University of Zurich
Plant Survival	1.9	33.4	75.8	2001	University of Neuchâtel
Total	29.6	547.3	1,664.9		

Serie 2005

	Contribution SNSF 2010 ¹	Contribution SNSF for 8 years	Total budget for 8 years	Start	Home institution
Affective Sciences – Emotion in Individual Behaviour and Social Processes	2.5	20.0	49.6	2005	University of Geneva
Democracy – Challenges to Democracy in the 21 st Century	1.9	14.6	30.8	2005	University of Zurich
Iconic Criticism – The Analysis of Image Processes	1.9	14.6	33.1	2005	University of Basel
Mediality – Historical Perspectives	1.5	11.7	19.6	2005	University of Zurich
International Trade Regulation – From Fragmentation to Coherence	2.3	19.8	24.4	2005	University of Berne
Total	10.1	80.7	157.5		

¹ Also contains contributions for management, knowledge and technology transfer, promotion of young scientists, etc.

Series 2010

	Contribution SNSF 2010 ¹	Contribution SNSF for 4 years	Total budget for 4 years	Start	Home institution
Chemical Biology – Visualisation and Control of Biological Processes Using Chemistry	2.7	13.4	28.6	2010	University of Geneva EPF Lausanne
Kidney.CH – Kidney Control of Homeostasis	3.1	16.5	28.5	2010	University of Zurich
LIVES – Overcoming vulnerability: life course perspectives	2.5	14.5	31.1	2011	University of Lausanne University of Geneva
MUST – Molecular Ultrafast Sciences and Technology	5.5	17.3	38.9	2010	ETH Zurich University of Berne
QSIT – Quantum Science and Technology		17.1	55.3	2011	ETH Zurich University of Basel
Robotics – Intelligent Robots for Improving the Quality of Life	2.4	13.3	35.4	2010	EPF Lausanne
SYNAPSY – The synaptic bases of mental diseases	3.6	17.5	43.2	2010	EPF/Univ. of Lausanne University of Geneva
TransCure – From transport physiology to identification of therapeutic targets	3.0	14.1	26.2	2010	University of Berne
Total	22.8	123.7	287.2		
All NCCRs	62.5	628.0	1,822.4		

National Research Programmes (NRP)

Amounts in millions CHF¹

	Approved amount 2010 ²	Overall Budget	Overall amount approved up to 2010 ³	Duration
Current NRPs	Total		Total	
NRP 54 Sustainable Development of the Built Environment	0.4	13.0	11.1	2004–2011
NRP 56 Language Diversity and Linguistic Competence in Switzerland	0.0	8.0	7.8	2004–2010
NRP 57 Non-Ionising Radiation – Health and Environment	0.0	5.0	4.6	2006–2011
NRP 58 Religions, the State and Society	0.6	10.0	9.5	2006–2011
NRP 59 Benefits and Risks of the Deliberate Release of Genetically Modified Plants	1.2	15.0	12.8	2007–2012
NRP 60 Gender Equality	6.2	8.0	6.2	2010–2013
NRP 61 Sustainable Water Management	1.1	12.0	9.5	2010–2013
NRP 62 Smart Materials	1.3	11.0	6.5	2010–2014
NRP 63 Stem Cells and Regenerative Medicine	5.5	10.0	5.6	2010–2014
NRP 64 Opportunities and Risks of Nanomaterials	7.2	12.0	7.2	2010–2015
NRP 65 New Urban Quality	3.4	5.0	3.4	2010–2013
New NRPs				
NFP 66 Resource Wood	–	15.0	–	2012–2017
NFP 67 End of life	0.4	12.0	0.4	2012–2018
Total	21.5	136.0	84.6	

¹ Amounts under CHF 0.05 million are shown as zero

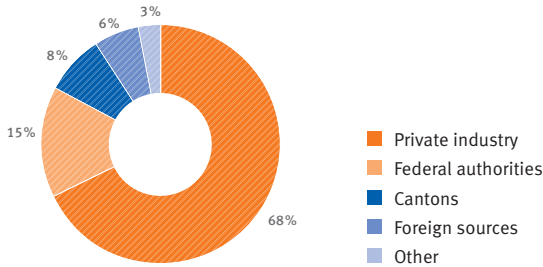
² Excluding grants for formally terminated programmes (CHF 0.1 million)

³ These amounts do not take account of repayments, third party funds, etc.

Research landscape in Switzerland

Research and development

Sources of finance for R&D in Switzerland

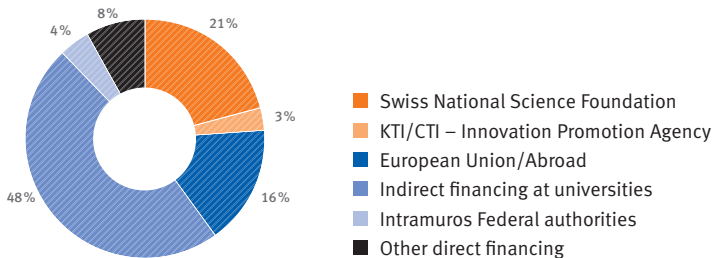


Total 16,300 millions CHF

Source: Swiss Federal Statistical Office, as at 2008

Sources of finance for R&D (Research and Development) in Switzerland, excluding flows of funds abroad

R&D financing through federal authorities

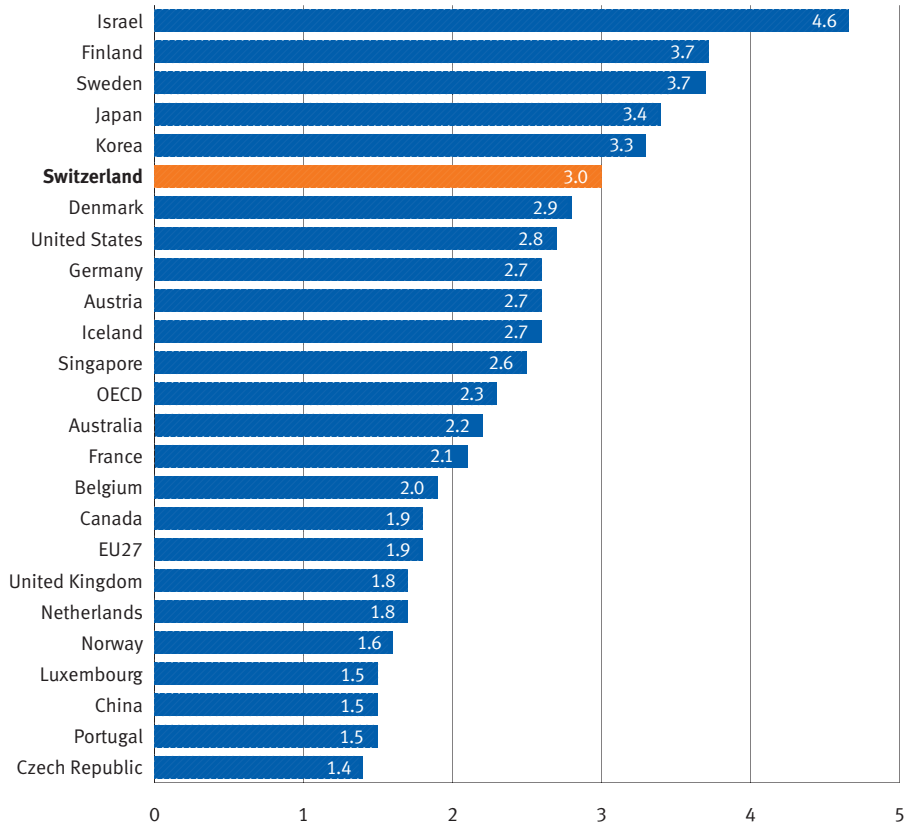


Total 2,925 millions CHF

Source: Swiss Federal Statistical Office, as at 2008

International comparison of research and development expenditure

Gross domestic expenditure on R&D as a percentage of the GDP

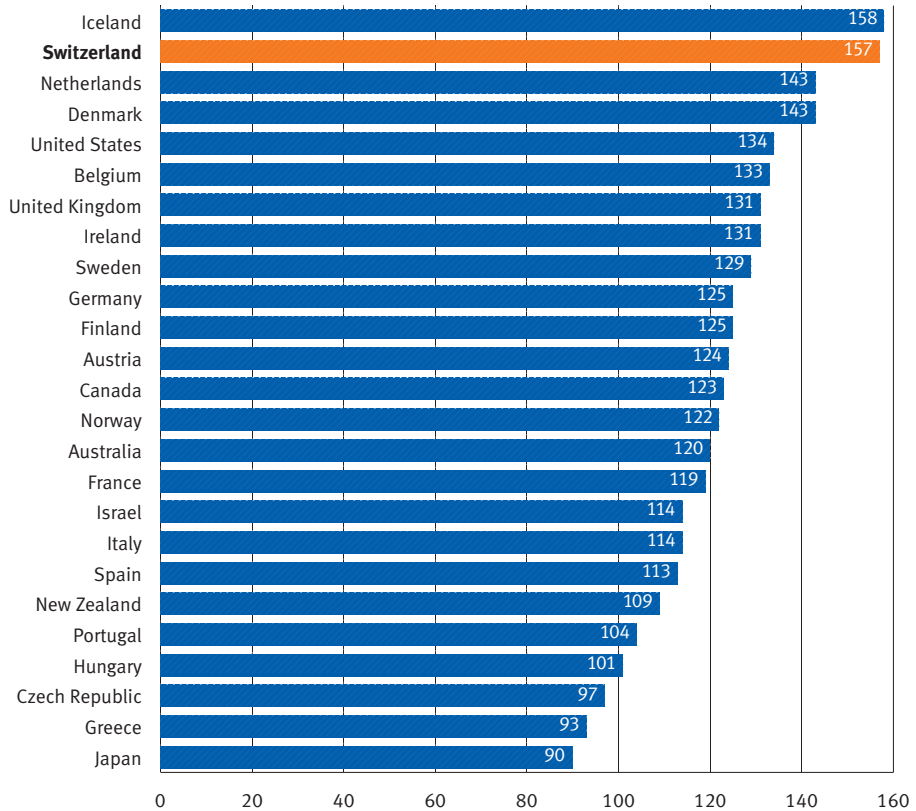


Source: Swiss Federal Office of Statistics, OECD, as at 2008

Already in 2008, Switzerland had reached the EU Lisbon-target to invest 3% of gross domestic product (GDP) on R&D.

Impact of scientific publications

Relative citation index

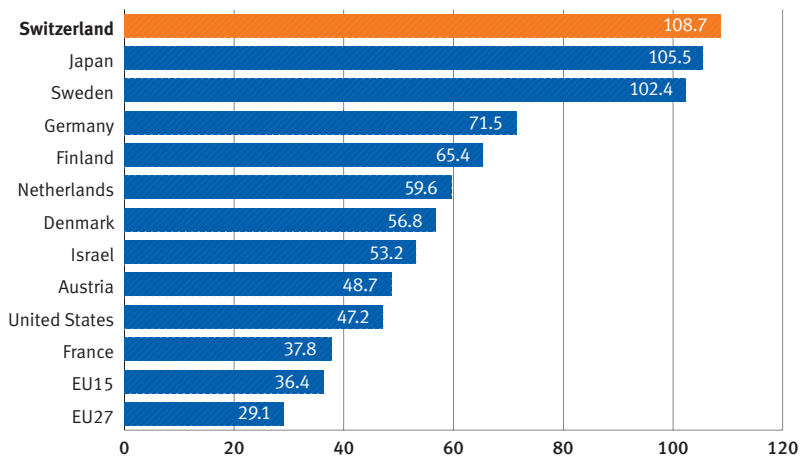


Source: NIFU STEP / National Science Indicators Thomson Reuters. The numbers are based on the publications for the years 2006–2007 and cumulative citations until 2008

With a relative citation index of 157, Swiss publications are cited 57 % more frequently than the world average (=100). The country ranking can vary depending on the way the citation index is calculated. Switzerland ranks among the frontrunners in several different studies.

Patents

Number of patents* per million inhabitants



Source: OECD, as at 2008

* Patents that have been registered simultaneously with European and Japanese patent offices as well as granted by the US Patent & Trademark Office (triadic patent families)



Swiss National Science Foundation

Press and Information Office

Wildhainweg 3, P.O. Box 8232

CH-3001 Berne

Tel.: +41 (0)31 308 22 22

Fax: +41 (0)31 308 22 65

pri@snf.ch

www.snsf.ch