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2010 – Research funding in figures

In 2010, the Swiss National Science Foundation (SNSF) granted funding to the total value of 726 million Swiss francs, 2.7 % more than in 2009 (707 million Swiss francs). This financing was used to support around 3,100 research undertakings.

The statistics include all applications processed and approved during the financial year as well as contributions paid out in the area of National Centres of Competence in Research in 2010. Additional grants are not treated as separate applications but are included in the approved amounts. The data in the statistical part of the annual report are not comparable with the figures in the annual statement.

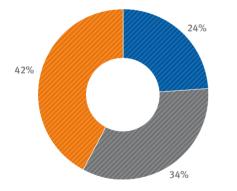
Full version of the statistics: www.snsf.ch > About us > Facts & Figures > Statistics

1. Funding in overview

1.1 Funding by research area

Amounts in millions CHF

Distribution of the approved amounts



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

Humanities and Social Sciences

Mathematics, Natural and Engineering Sciences

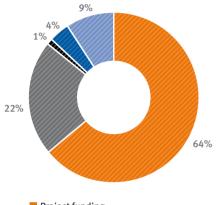
Biology and Medicine

Distribution between the different divisions has changed slightly compared to the previous year. In 2010, 25 million Swiss francs were allocated to Patient-oriented Clinical Research (PaKliF). The share of "Biology and Medicine" in the approved sums thus rose by four percent.

1.2 Funding by type of funding

Amounts in millions CHF

Distribution of the approved amounts



Project funding

Individual funding

- Scientific conferences, Publication grants, International co-operation
- National Research Programmes (NRP)
- National Centres of Competence in Research (NCCR)

	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

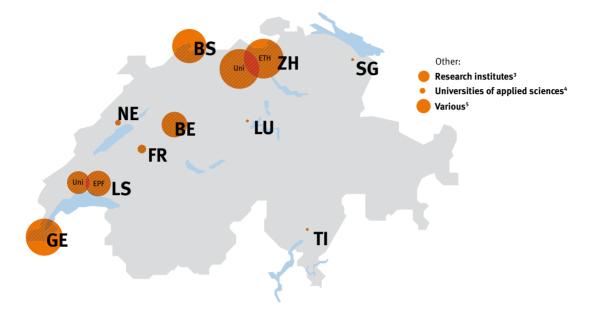
As in previous years, project funding was at the centre of the SNSF's activities in 2010.

The share of National Research Programmes in the approved sums rose slightly year-on-year.

1.3 Funding by institution and research area

Amounts in millions CHF

Distribution of the approved amounts (incl. overhead)¹



Institution		Humanities and Social Sciences	Mathematics, Natural and Engineering Sciences	Biology and Medicine	Unassign- able	Total in mio CHF	Total in %	Over- head 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 (FR)	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 sciences ⁴		12.4	0.5	0.6		13.5	2%	1.9	15.4
Various ⁵		12.1	10.8	12.4		35.3	5%	2.1	37.4
Unassignable ⁶		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) $\,$

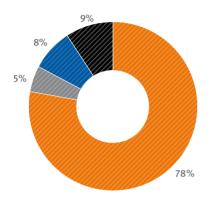
⁴ BFH, FHNW, FHO, HES-SO, HLU, SUPSI, ZFH, Kalaidos and universities of teacher education

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

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

1.4 Use of the approved amounts

Total amount: CHF 726 million



As in previous years, the approved funds were used by the researchers mainly to cover personnel costs, whether for the financing of individual salaries/fellowships in the context of funding for individuals or for the appointment of personnel in research projects.

- Salaries and fellowships (incl. social security contributions)
- Materials of enduring value
- Consumables
- Other (travel and field expenses)

1.5 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 old or younger (95% in the case of personnel at doctoral level, 56% for other scientists).

1.6 Success rates

Amounts in millions CHF

	Success rate ¹			Number of proposals submitted						
	Total	Women	Men	Total	Women	Men	Total	Women	Men	
Project funding ²	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-operation ³	48%	28%	52%	124	18	106	60	5	55	5.7
National Research Programmes ⁴	76%	83%	74%	29	6	23	22	5	17	9.4
National Centres of Competence in Research ⁵	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 (see p. 19) 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.

Submitted applications by gender

	Women Men
Fellowships (prospective)	37% 63%
Fellowships (advanced)	41% 59%
Marie Heim-Vögtlin Programme (MHV)	100%
Ambizione	43% 57%
SNSF Professorships	25% 75%
Project funding	20% 80%

 $^{\rm 1}$ The proportion of female applicants is 100 % as MHV is a programme for women scientists.

The share of women submitting proposals declines as the academic age increases.

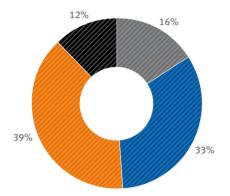
2. Project funding

In this funding category, the SNSF supports research projects of high quality across all disciplines. The topics are selected by the researchers. Grants include contributions towards personnel costs, equipment, consumables and travel expenses.

2.1 Funding by research area¹

Amounts in millions CHF

Distribution of the approved amounts



Amount
73.4
155.5
181.4
57.3
467.6

¹ Incl. Scientific conferences

Humanities and Social Sciences

Mathematics, Natural and Engineering Sciences

Biology and Medicine

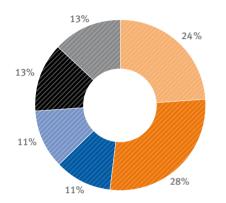
Interdisciplinary Research and Sinergia

2.2 Funding by group of disciplines

Amounts in millions CHF

Division I: Humanities and Social Sciences

Distribution of the approved amounts



Number Amount 119 18.0 Philosophy, Psychology, Educational Science and Religious Science Legal and Social Sciences, Economics 140 20.3 History 57 8.1 Archaeology, Ethnology, Art Studies and Social Urban Science 48 8.1 Linguistics and Literature 9.7 50 Applied Sciences (incl. DORE) 87 9.2 Total¹ 501 73.4

¹ Special funding is included:

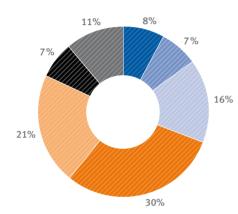
DORE (83 grants; CHF 8.6 million), research infrastructure (1 grant; CHF 1.3 million), R'Equip (2 grants; CHF 0.2 million), Scientific conferences (158 grants; CHF 1.0 million), summer schools (115 grants; CHF 0.3 million)

- Philosophy, Psychology, Educational Science and Religious Science
- Legal and Social Sciences, Economics
- History
- Archaeology, Ethnology, Art Studies and Social Urban Science
- Linguistics and Literature
- Applied Sciences

At the universities of applied sciences, the areas "art" and "health" are particularly well represented in terms of both numbers and funds. Some projects are being realised in collaboration with the universities.

Division II: Mathematics, Natural and Engineering Sciences

Distribution of the approved amounts



	Number	Amount
Mathematics	50	12.6
Astronomy, Astrophysics and Space Sciences	20	10.2
Chemistry	97	25.4
Physics	134	46.0
Engineering Sciences	169	33.1
Environmental Sciences	50	10.8
Earth Sciences	66	17.4
Total ¹	586	155.5

¹ Special funding is included:

Research infrastructure (8 grants; CHF 9.8 million), R'Equip, (35 grants; CHF 6.7 million), FORCE/FINES, (15 grants; CHF 5.6 million), EUROCORES (5 grants; CHF 7.1 million), Scientific conferences (18 grants, CHF 0.3 million)

Mathematics

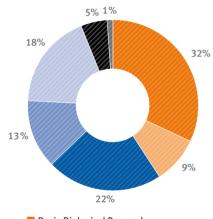
Astronomy, Astrophysics and Space Sciences

- Chemistry
- Physics
- Engineering Sciences
- Environmental Sciences
- Earth Sciences

The number of approved proposals rose by 10 percent year-on-year. Particularly strong growth was registered in the Engineering Sciences.

Division III: Biology and Medicine

Distribution of the approved amounts



- Basic Biological Research
- General Biology
- Basic Medical Research
- Experimental Medicine
- Clinical Medicine
- Preventive Medicine
- Social Medicine

	Number	Amount
Basic Biological Research	139	59.0
General Biology	39	15.8
Basic Medical Research	100	39.1
Experimental Medicine	61	23.5
Clinical Medicine	46	32.8
Preventive Medicine (Epidemiology/Early Diagnosis/Prevention)	10	9.6
Social Medicine	5	1.6
Total ¹	400	181.4

¹ Special funding included:

R⁻Equip (19 grants, CHF 5.6 million), MD-PhD (8 grants; CHF 1.3 million), SCORE/PROSPER (2 grants; CHF 1.4 million), ERA-NET EuroNanoMed (3 Grants; CHF 0.7 million), EDCTP (1 grant; CHF 0.3 million), EUROCORES (10 grants; CHF 3.8 million), cohort studies (5 grants; CHF 25.2 million), Scientific conferences (20 grants; CHF 0.1 million)

With infrastructure grants totalling 27.5 mio Swiss francs for the continuation of five cohort studies and the expansion of three CTUs (Clinical Trial Units), the Biology and Medicine division again made a strong contribution towards strengthening clinical research.

2.3 Interdisciplinary research and Sinergia

Interdisciplinary research

In 2010, the SNSF supported a total of 29 projects with CHF 9.4 million. Both the number of submitted and approved applications as well as the requested and approved funding amounts are similar to 2009.

Sinergia

Amounts in millions CHF

	Number	Amount
Interdisciplinary Research	14	16.2
Disciplinary Research	26	31.7
Total	40	47.9

2.4 Project funding: grants, reductions and rejections

Amounts in millions CHF

	Number	Amount	Grants Red	uctions Rejections, withdrawal
Humanities and Social Sciences				
Applications submitted	917		55%	45%
		207.2	36%	<mark>8%</mark> 56%
Grants	501	73.4		
Reductions in approved applications	(406)	17.1		
Rejections, withdrawals	416	116.7]	

Mathematics, Natural and Engineering Sciences

Applications submitted	878		67%		33%
		336.2	46%	20%	34%
Grants	586	155.5			
Reductions in approved applications	(485)	66.0			
Rejections, withdrawals	292	114.7			

52% 12% 43%

Biology and Medicine

Applications submitted	841		48%
		401.4	45%
Grants	400	181.4	
Reductions in approved applications	(294)	46.5	
Rejections, withdrawals	441	173.5	

Interdisciplinary research and Sinergia

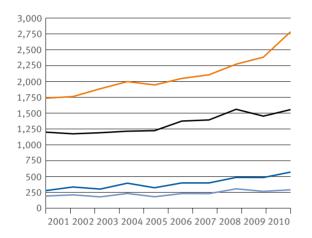
Applications submitted	148		47%		53%
		178.5	32%	14%	54%
Grants	69	57.3			
Reductions in approved applications	(57)	24.3			
Rejections, withdrawals	79	96.9			

Total

Applications submitted	2,784		56%		44%	
		1,123.3	41%	14%	45%	
Grants	1,556	467.6				
Reductions in approved applications	(1,242)	153.9				
Rejections, withdrawals	1,228	501.8				

2.5 Applications and grants since the year 2001

Number of applications and grants

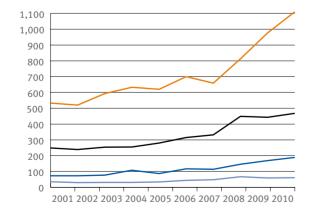


The number of applications submitted in project funding has risen consistently since 2005 while the number of approved proposals has stagnated since 2008.

- Number of applications submitted
- Number of applications approved
- Applications by women
- Applications by women approved

2.6 Requested and approved amounts since the year 2001

Amounts in millions CHF



Total of requested and approved amounts

Since 2007, the amounts requested in project funding have risen more rapidly than the corresponding budget of the SNSF. The increase in approved amounts since 2007 is only partially attributable to budget increases in ordinary project funding. In 2008 and 2010, the increase was largely due to the award of earmarked funds (Special Programme University Medicine and Patient-oriented Clinical Research).

- Total of requested funding
- Total of approved funding
- Amount requested by women
- Amount granted to women

3. Individual funding

With a multi-faceted fellowship and grants programme the SNSF provides targeted career support for highly promising young researchers.

3.1 Funding by funding scheme

Amounts in millions CHF

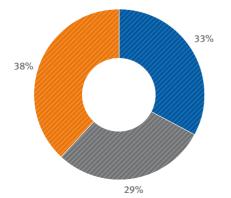
		Number of applications submitted			Number of applications approved						
		New applica	ations	Follow-up ap	plications	Ne	w applicatio	ons	Follow-up a	pplications	Approved
	Total	Women	Men	Women	Men	Total	Women	Men	Women	Men	amount
Fellowships (prospective)	711	266	445	48	79	480	187	293	31	45	28.6
Fellowships (advanced)	166	68	98	7	16	108	39	69	2	12	11.2
Marie Heim-Vögtlin Programme (MHV)	101	101	-	6	-	37	37	-	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

The budget for individual funding remained stable in 2010 compared to the previous year. With the exception of SNSF professorships and ProDoc, demand reached an all time peak in all funding schemes. A portion of the funds allocated to ProDoc remained unused due to the high number of sub-standard proposals. However, these funds will be available again for ProDoc in 2011.

3.2 Funding by research area

Amounts in millions CHF

Distribution of the approved amounts



Amount
53.1
45.7
60.6
159.4

Humanities and Social Sciences

Mathematics, Natural and Engineering Sciences

Biology and Medicine

4. International co-operation and networking

The international involvement of the SNSF manifests itself principally in the transnational co-operation of researchers within the context of Project funding and Individual funding. This is supplemented by funding schemes specific to international collaborations.

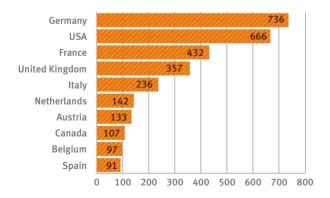
4.1 Funding by funding scheme

Amounts in millions CHF

	Amount
SCOPES / ESTROM Programme	0.1
Research Partnerships with Developing Countries	5.6
International Short Visits	0.7
International Expoloratory Workshops	0.4
Multilateral co-operation	0.3
Total	7.1

4.2 International networking in Project funding

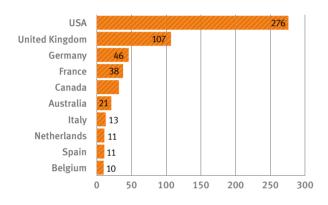
Number of international collaborations



Nearly 3,800 instances of international collaboration have taken place in total. The table shows the ten countries with which the most frequent collaboration has occurred.

4.3 Fellowships by host country

Number of fellowships



With 588 fellowships for prospective and advanced researchers, the SNSF supported a total of 655 work periods abroad. The graph shows the ten most frequent host countries.

5. National Research Programmes (NRP)

The National Research Programmes generate scientific knowledge aimed at solving Switzerland's most pressing problems. The topics are specified by the Federal Council.

5.1 NRPs in overview

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)

 $^{\rm 3}$ $\,$ These amounts do not take account of repayments, third party funds, etc.

In 2010, the Federal Council mandated the SNSF to carry out two new NRPs: NRP 66 "Resource Wood" and NRP 67 "End of Life". For both NRPs, research work will start in 2012. NRP 56 "Language Diversity and Linguistic Competence in Switzerland" was officially concluded in December 2010.

The share of women in the ongoing NRPs has remained largely unchanged (women 20 %, men 80%).

6. National Centres of Competence in Research (NCCR)

With the National Centres of Competence in Research the SNSF promotes long-term research networks in areas of strategic significance for the future of Swiss science, economy and society.

6.1 Current NCCRs in overview

Iconic Criticism – The Analysis of Image Processes

International Trade Regulation – From Fragmentation to Coherence

Mediality – Historical Perspectives

Total

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		
Series 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

1.9

1.5

2.3

10.1

14.6

11.7

19.8

80.7

33.1

19.6

24.4

157.5

2005

2005

2005

University of Basel

University of Zurich

University of Berne

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 Lausanne University 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		

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