



Guide 2020

National Centres of Competence in Research



SWISS NATIONAL SCIENCE FOUNDATION

Table of contents

The NCCR at a glance	2
NCCR Bio-Inspired Materials - Using Concepts from Nature to Create "Smart" Materials	8
NCCR Chemical Biology - Visualisation and Control of Biological Processes Using Chemistry	11
NCCR Digital Fabrication - Innovative Building Processes in Architecture	14
NCCR Kidney.CH - Kidney Control of Homeostasis	17
NCCR LIVES - Overcoming vulnerability: life course perspectives	20
NCCR MARVEL - Materials' Revolution: Computational Design and Discovery of Novel Materials	23
NCCR MSE - Molecular Systems Engineering	26
NCCR MUST - Molecular Ultrafast Science and Technology	29
NCCR On the Move - The Migration-Mobility Nexus	32
NCCR PlanetS - Origin, Evolution and Characterisation of Planets	35
NCCR QSIT - Quantum Science and Technology	38
NCCR RNA & Disease - The Role of RNA Biology in Disease Mechanisms	41
NCCR Robotics - Intelligent Robots for Improving the Quality of Live	44
NCCR SwissMAP - The Mathematics of Physics	47
NCCR SYNAPSY - The synaptic bases of mental diseases	50
NCCR TransCure - From transport physiology to identification of therapeutic targets	54
Impressum	57

1. The NCCRs at a glance

Overview of NCCR Calls

	Submitted pre-proposals	Submitted full proposals	Approved proposals	Years of operation
1st Call (1999) ¹	82	34	14	2001-2013
2nd Call (2003) ¹	44	17	6	2005-2017
3rd Call (2008)	54	28	8	2010-2022
4th Call (2011)	63	23	8	2014-2026
5 th Call (2020) ²	54	23	6	2020-2032

¹ The NCCRs of the 1st and the 2nd Call are terminated. For more information see www.snf.ch

² The NCCRs of the 5th Call will start in 2020. For more information see www.snf.ch

3rd Call of NCCRs

Short Name	NCCR-Director	Home Institutions	Starting date
Chemical Biology	Prof. Howard Riezman	University of Geneva, EPFL	December 1, 2010
Kidney.CH	Prof. Johannes Loffing	University of Zurich	August 1, 2010
LIVES	Prof. Dario Spini	University of Lausanne, University of Geneva	January 1, 2011
MUST	Prof. Ursula Keller	ETH Zurich, University of Bern	July 1, 2010
QSIT	Prof. Klaus Ensslin	ETH Zurich, University of Basel	January 1, 2011
Robotics	Prof. Dario Floreano	EPFL, ETH Zurich	December 1, 2010
SYNAPSY	Prof. Alexandre Dayer	Universities of Geneva and Lausanne, EPFL	October 1, 2010
TransCure	Prof. Hugues Abriel	University of Bern	November 1, 2010

4th Call of NCCRs

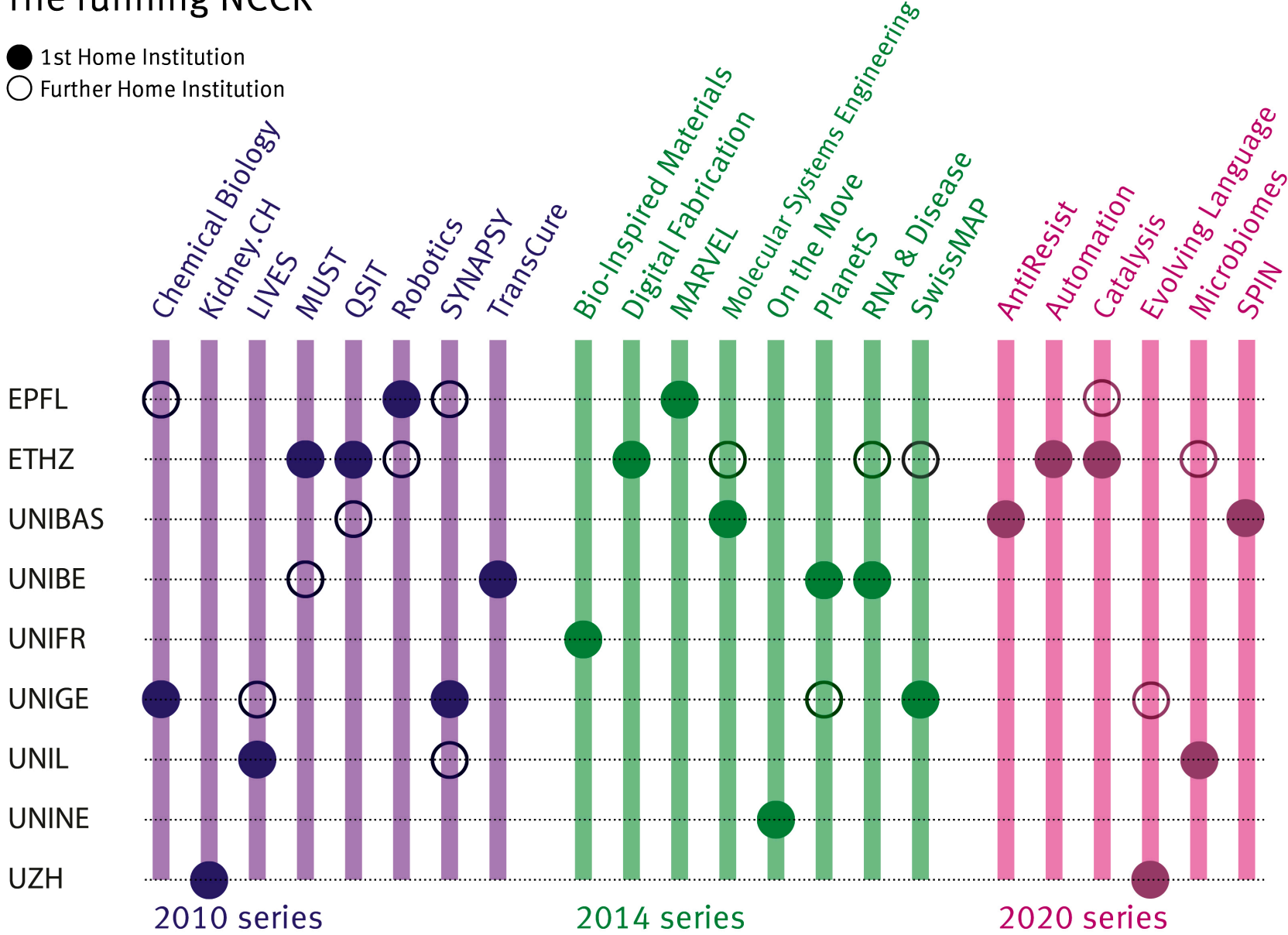
Short Name	NCCR-Director	Home Institutions	Starting date
Bio-Inspired Materials	Prof. Christoph Weder	University of Fribourg	June 1, 2014
Digital Fabrication	Prof. Philippe Block	ETH Zurich	June 1, 2014
MARVEL	Prof. Nicola Marzari	EPFL	May 1, 2014
Molecular Systems Engineering	Prof. Thomas R. Ward	University of Basel, ETH Zurich	July 1, 2014
On the Move	Prof. Gianni D'Amato	University of Neuchatel	June 1, 2014
PlanetS	Prof. Willy Benz	University of Bern, University of Geneva	June 1, 2014
RNA & Disease	Prof. Oliver Mühlemann	University of Bern, ETH Zurich	May 1, 2014
SwissMAP	Prof. Stanislav Smirnov	University of Geneva, ETH Zurich	July 1, 2014

5th Call of NCCRs

Short Name	NCCR-Director	Home Institutions	Starting date
AntiResist	Prof. Christoph Dehio	University of Basel	2020
Automation	Prof. John Lygeros	ETH Zurich	2020
Catalysis	Prof. Javier Pérez-Ramirez	ETH Zurich, EPFL	2020
Evolving Language	Prof. Balthasar Bickel	University of Zurich, University of Geneva	2020
Microbiomes	Prof. Jan Roelof van der Meer	University of Lausanne, ETH Zurich	2020
SPIN	Prof. Richard Warburton	University of Basel	2020

The running NCCR

- 1st Home Institution
- Further Home Institution



3rd Call of NCCRs: Funding in phase 1, phase 2 and phase 3: 2018–2021

Funding source (CHF)	Phase 1	Phase 2	2018	2019	2020	2021	Phase 3 total
SNSF funding	124'685'356	128'859'352	22'529'214	24'794'634	22'816'666	21'245'373	91'385'887
Self-funding from Home Institutions ¹	72'822'637	81'481'259	18'784'735	21'860'500	21'219'596	21'963'403	83'828'234
Self-funding from project participants	95'700'592	112'749'558	25'290'855	17'000'877	15'893'145	14'924'491	73'109'368
Third-party funding ²	9'461'241	2'763'241	432'190	407'611	302'716	114'500	1'257'017
Total	302'669'826	325'853'410	67'036'994	64'063'622	60'232'123	58'247'767	249'580'506

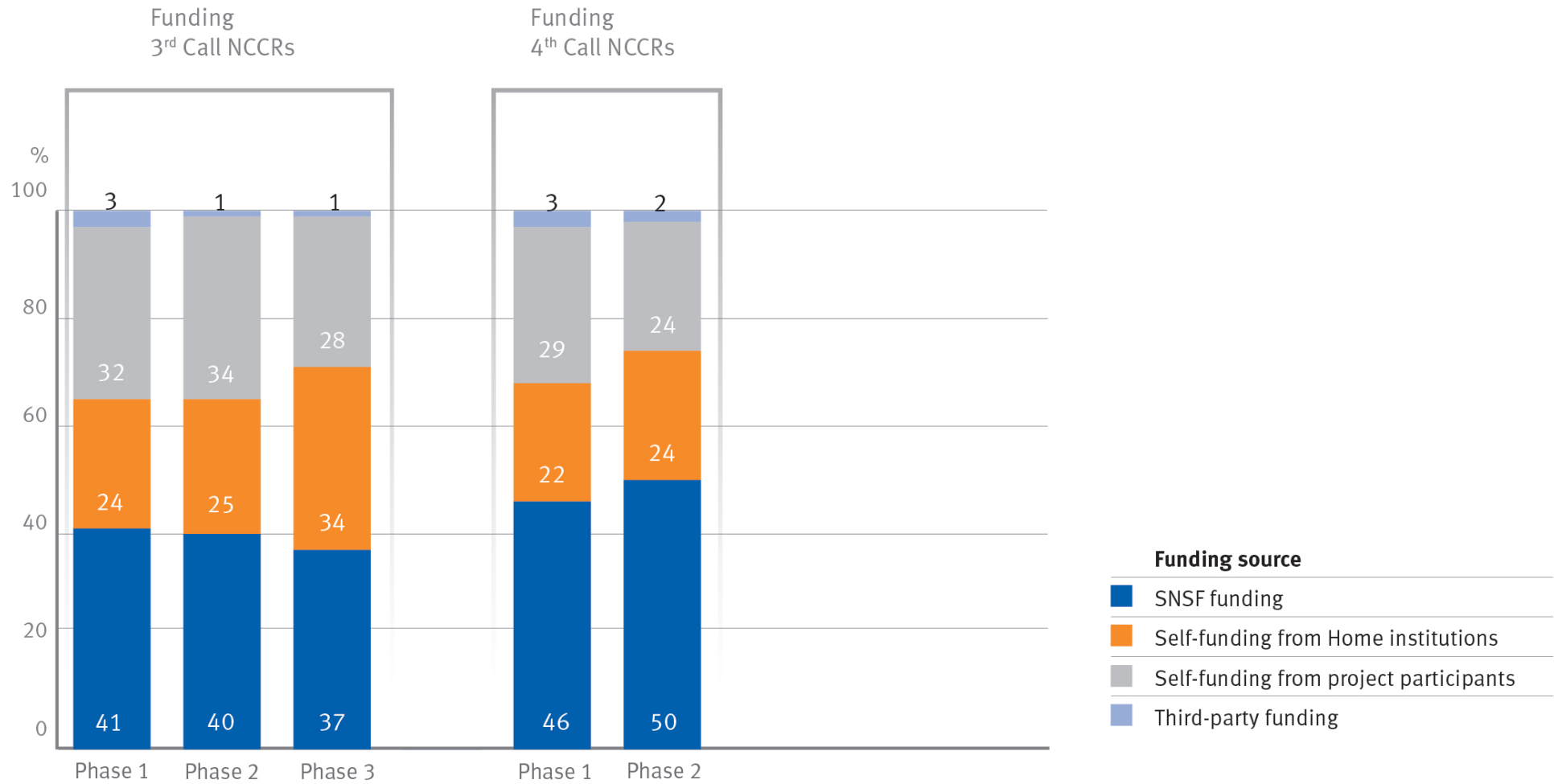
4th Call of NCCRs: Funding in phase 1 and phase 2: 2018-2021

Funding source (CHF)	Phase 1	2018	2019	2020	2021	Phase 2 total
SNSF funding	123'402'938	31'937'732	34'374'001	33'050'800	32'977'400	132'339'933
Self-funding from Home Institutions ¹	58'759'368	16'154'940	15'576'862	15'664'974	16'748'978	64'145'754
Self-funding from project participants	77'471'915	22'406'386	14'627'572	13'644'741	13'354'724	64'033'423
Third-party funding ²	9'787'557	3'570'683	150'000	100'000	186'500	4'007'183
Total	269'421'778	74'069'741	64'728'435	62'460'515	63'267'602	264'526'293

¹ Personnel costs, equipment and consumables, not included infrastructure and basic equipment

² Not included is CTI funding

Funding of the NCCRs



Persons involved in the NCCRs in the last reporting period (12 months)

3rd and 4th Call of NCCRs

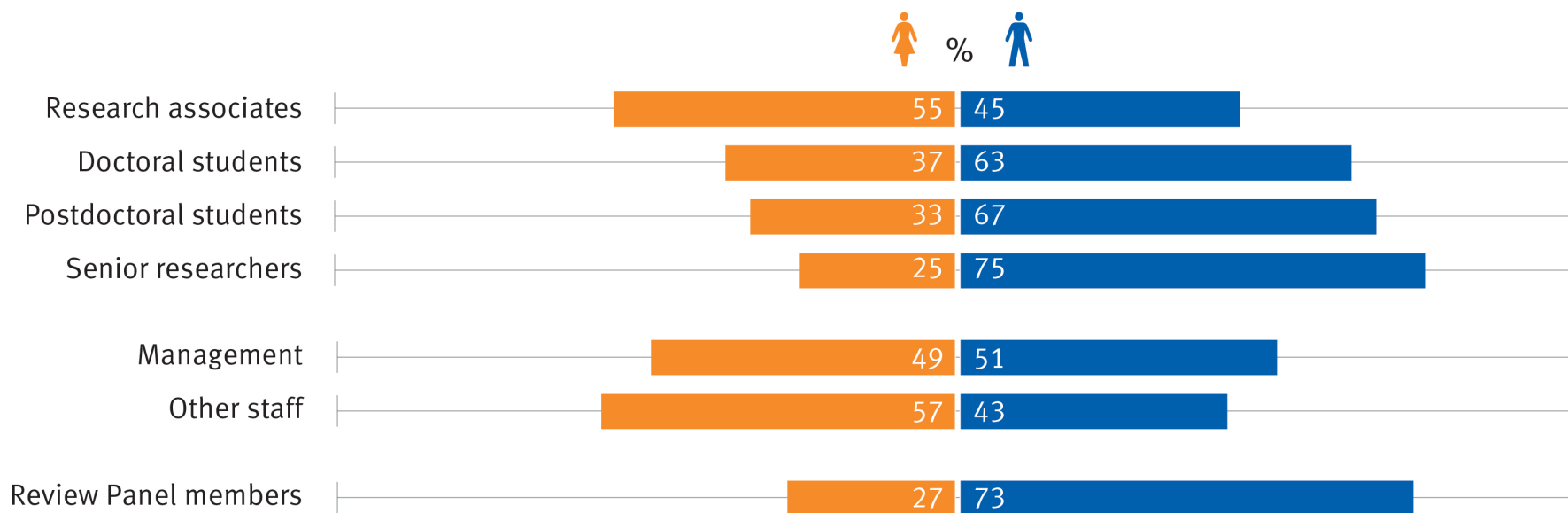
Personnel	Total of Persons	Female	Male	Swiss	Other nationalities
Research associates ¹	133	73	60	73	21
Doctoral students	735	270	465	194	264
Postdoctoral students	446	145	301	46	179
Senior researchers ²	713	178	535	271	171
Management ³	82.14	105	109	122	44
Other staff	231	132	99	137	39
Total	2340.14	903	1569	843	718

¹ Includes graduate scientists (level master) but not registered as doctoral students or undergraduate students participating in research projects.

² Including leaders of the individual projects and other organisational units of the NCCRs

³ Full-time equivalent, including NCCR-Director and persons in charge of knowledge and technology transfer, equal opportunities, communication, education and training

Gender in the NCCRs



NCCR Bio-Inspired Materials

Using Concepts from Nature to Create "Smart" Materials

NCCR Director: Prof. Christoph Weder
Home Institution: University of Fribourg
Start date: 1st of June 2014 (4th NCCR series)

Heads of Research Groups

Prof. **Guillermo Acuna**, Departement Physik, Universität Freiburg
Prof. **Esther Amstad**, Institut de Science et Génie des Matériaux, EPFL
Prof. **Nico Bruns**, Adolphe Merkle Institute, Faculty of Science, Universität Freiburg
Prof. **Eric Robert Dufresne**, Departement Materialwissenschaft, ETH Zürich
Prof. **Alke Fink**, Adolphe Merkle Institute, Faculty of Science, Universität Freiburg
Prof. **Katharina Fromm**, Departement Chemie, Universität Freiburg
Prof. **Andreas Kilbinger**, Departement Chemie, Universität Freiburg
Prof. **Harm-Anton Klok**, Institut de Science et Génie des Matériaux, EPFL
Prof. **Marco Lattuada**, Departement Chemie, Universität Freiburg
Prof. **Matthias Lutolf**, Institut de Bioingénierie, EPFL
Prof. **Michael Mayer**, Adolphe Merkle Institute, Faculty of Science, Universität Freiburg
Prof. **Frank Scheffold**, Departement Physik, Universität Freiburg
Prof. **Ullrich Steiner**, Adolphe Merkle Institute, Faculty of Science, Universität Freiburg
Prof. **Francesco Stellacci**, Institut de Science et Génie des Matériaux, EPFL
Prof. **André Studart**, Departement Materialwissenschaft, ETH Zürich
Prof. **Aleksandra Radenovic**, Institut Interfacultaire de Bioingénierie, EPFL
Prof. **Barbara Rothen-Rutishauser**, Adolphe Merkle Institute, Faculty of Science, Universität Freiburg
Prof. **Curzio Rüegg**, Departement für Medizin, Universität Freiburg
Prof. **Stefano Vanni**, Departement Biologie, Universität Freiburg
Prof. **Christoph Weder**, Adolphe Merkle Institute, Faculty of Science, Universität Freiburg

[Overview of all Research Projects](#)



Participating Institutions

Universität Freiburg (13 groups)/EPFL (5 groups)/ETH Zürich (2 groups)

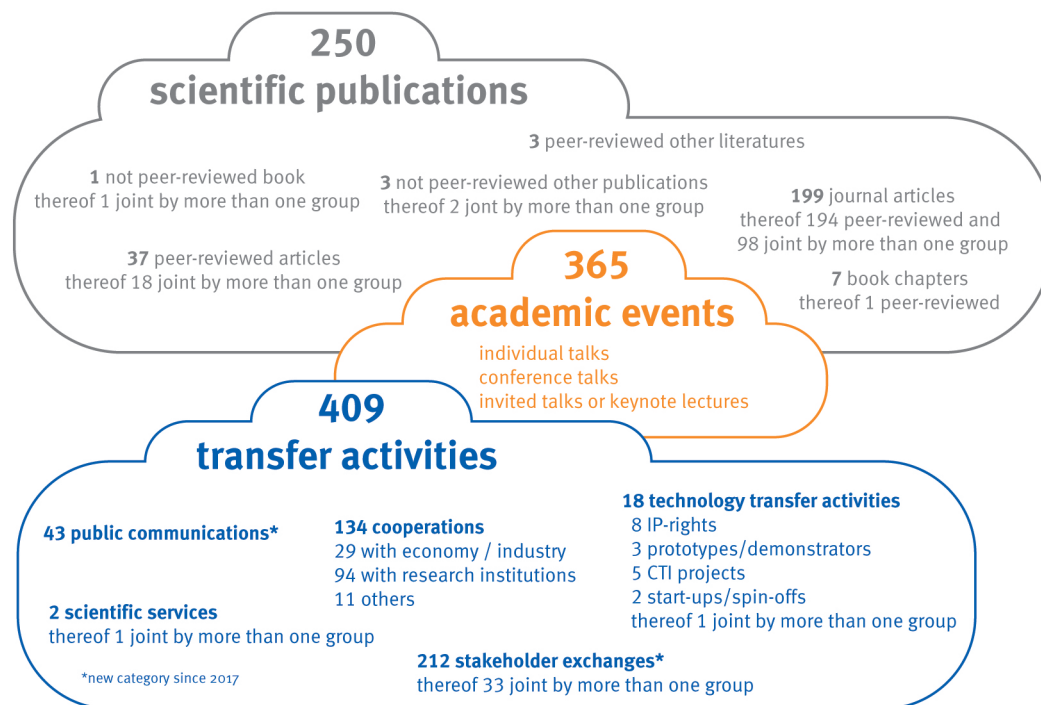
Members of the Review Panel

Prof. **Joanna Aizenberg**, Harvard School of Engineering and Applied Sciences, US
Prof. **Hans-Jürgen Butt**, Physik der Grenzflächen, Max-Planck-Institut für Polymerforschung, DE
Prof. **Kenneth A. Dawson**, School of Chemistry and Chemical Biology, University College Dublin, IE
Prof. **Eva Marie Harth**, Department of Chemistry, Vanderbilt University, US
Prof. **Volker Mailänder**, Center for Translational Nanomedicine, Johannes-von-Gutenberg-Universität, Mainz, DE
Prof. **Phillip B. Messersmith**, Departments of Bioengineering and Materials Science and Engineering, University of California, Berkeley, US
Prof. **Meital Rechtes**, Institute of Chemistry, The Hebrew University of Jerusalem, IL
Prof. **Zhibin Guan**, Department of Chemistry, University of California, Irvine, US
Prof. **Anna Fontcuberta i Morral** (Chair), SNF, Bern, CH
Dr. **Marc Bohner**, SNF, Bern, CH
Prof. **N.N.**, SNF, Bern, CH

Management/Coordination

Dr. Lucas Montero
NCCR Bio-Inspired Materials
Adolphe Merkle Institute
Université de Fribourg
Chemin des Verdiers 4
CH-1700 Fribourg
+41 26 300 91 72
www.bioinspired-materials.ch

Output Data
Data: since start



Key collaborations with third parties

Academia

University of Basel, CH
 University of Bayreuth, DE
 Massachusetts Institute of Technology, Cambridge, US
 University of California, Santa Barbara, US
 University of Chicago, US
 International Iberian Nanotechnology Laboratory, PT
 Harvard University, US
 Institut National de la Santé et de la Recherche Medicale, FR
 Hokkaido University, JP
 Empa, Swiss Federal Laboratories for Materials Science and Technology, CH
 University of Cambridge, UK
 Albert-Ludwigs-Universität Freiburg, DE
 Université de Strasbourg, FR
 Paul Scherrer Institute, CH

Private and public sector

BASF Schweiz AG, CH
 Firmenich SA, CH
 NanoLockin GmbH, CH
 Spectroplast AG, CH

Funding

Funding Source (CHF)	Total Phase 1 2014 - 2017	Total Phase 2 2018 - 2021	2018	2019	2020	2021	Phase 2 %
SNSF-funding ¹	12'015'719	17'225'000	4'000'000	4'425'000	4'400'000	4'400'000	47
Self-funding from Home Institution ²	6'853'694	7'219'677	1'637'018	1'405'705	1'471'215	2'705'739	20
Self-funding from project participants	8'111'990	11'796'204	2'808'289	3'037'905	2'975'005	2'975'005	32
3rd party-funding	783'905	482'200	95'700	100'000	100'000	186'500	1
Total	27'765'308	36'723'081	8'541'007	8'968'610	8'946'220	10'267'244	100

¹ incl. flexibility grant in year 2017 and open research data grant in year 2019

² Personnel costs, equipment and consumables, not included infrastructure and basic equipment

Persons involved

Personnel ³	Total of persons	Female %	CH	Top 5 – Most represented nations					Other nations
				DE	IT	FR	ES	IR	
Doctoral students	58	40	9	9	7	6	1	4	22
Postdoctoral students	21	38	0	2	2	5	0	3	13
Senior researchers ⁴	35	29	6	11	4	2	4	0	11
Management ⁵	6.06	36	7	1	2	0	2	0	3
Other staff	13	46	8	1	0	2	0	0	3
Total	133.06	37	30	24	15	15	7	7	52

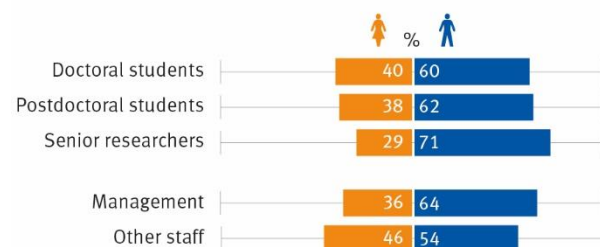
³ Persons involved in the NCCR in the last reporting period (12 months)

⁴ Including leaders of the individual projects and other organisational units of the NCCR

⁵ Full-time equivalent, including NCCR-Director and persons in charge of knowledge and technology transfer, equal opportunities, communication and education and training

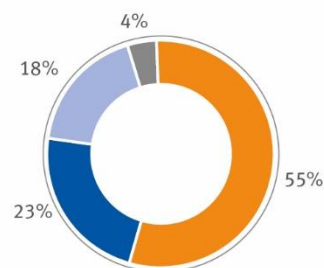
Gender in the NCCR

Data: current year



Training state of doctoral students

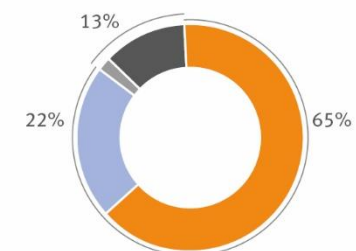
Data: since start



in progress	58
completed	19
continuation outside NCCR	24
dropout	4
Total	105

Next employer of doctoral and postdoctoral students

Data: since start



Academic sector	42
Private sector	14
Public sector	0
Other	1
None/not known	8
Total	65

NCCR Chemical Biology

Visualisation and Control of Biological Processes Using Chemistry



NCCR Director: Prof. Howard Riezman, NCCR Co-Director: Prof. Christian Heinis
Home Institutions: University of Geneva, EPFL
Start date: 1st of December 2010 (3rd NCCR series)

Heads of Research Groups

Prof. **Andrea Ablasser**, Institut d'Infectiologie, EPFL
Prof. **Charlotte Aumeier**, Département de Biochimie, Université de Genève
Prof. **Yimon Aye**, Institut des sciences et ingénierie chimiques, ISIC, EPFL
Prof. **Bruno Correia**, Faculté des sciences et techniques de l'ingénieur, STI, EPFL
Prof. **Lyndon Emsley**, Institut des sciences et ingénierie chimiques, ISIC, EPFL
Prof. **Beat Fierz**, Institut des sciences et ingénierie chimiques, ISIC, EPFL
Prof. **Anne-Claude Gavin**, Faculté de Médecine, Université de Genève
Prof. **Pierre Gönczy**, Institut suisse de recherche expérimentale sur le cancer (ISREC), EPFL
Prof. **Marcos Gonzalez-Gaitan**, Institut des sciences et ingénierie chimiques, ISIC, EPFL
Prof. **Monica Gotta**, Faculté de Médecine, Université de Genève
Prof. **Christian Heinis**, Institut des sciences et ingénierie chimiques, ISIC, EPFL
Prof. **Sascha Hoogendoorn**, Département de Chimie Organique, Université de Genève
Prof. **Marko Kaksonen**, Département de Biochimie, Université de Genève
Prof. **Karten Kruse**, Département de Biochimie & Département de Physique Théorique appliquée à la Biologie, Université de Genève
Prof. **Robbie Loewith**, Département de Biologie Moléculaire, Université de Genève
Prof. **Suliana Manley**, Institut de physique des systèmes biologiques, EPFL
Prof. **Stefan Matile**, Département de Chimie Organique, Université de Genève
Dr. **Dimitri Moreau**, Département de Biochimie, Université de Genève
Prof. **Pablo Rivera-Fuentes**, SB ISIC LOCBP, EPFL
Prof. **Howard Riezman**, Département de Biochimie, Université de Genève
Prof. **Aurélien Roux**, Département de Biochimie, Université de Genève
Prof. **Kaori Sugihara**, Département de Chimie Physique, Université de Genève
Dr. **Gerardo Turcatti**, Plateformes technologiques SV, EPFL
Prof. **Gisou van der Goot**, Institut de recherche en infectiologie, EPFL
Prof. **Jérôme Waser**, Institut de recherche en infectiologie, EPFL
Prof. **Nicolas Winssinger**, Département de Chimie Organique, Université de Genève

[Overview of all Research Projects](#)

Participating Institutions

Université de Genève (13 groups)/EPFL (13 groups)

Members of the Review Panel

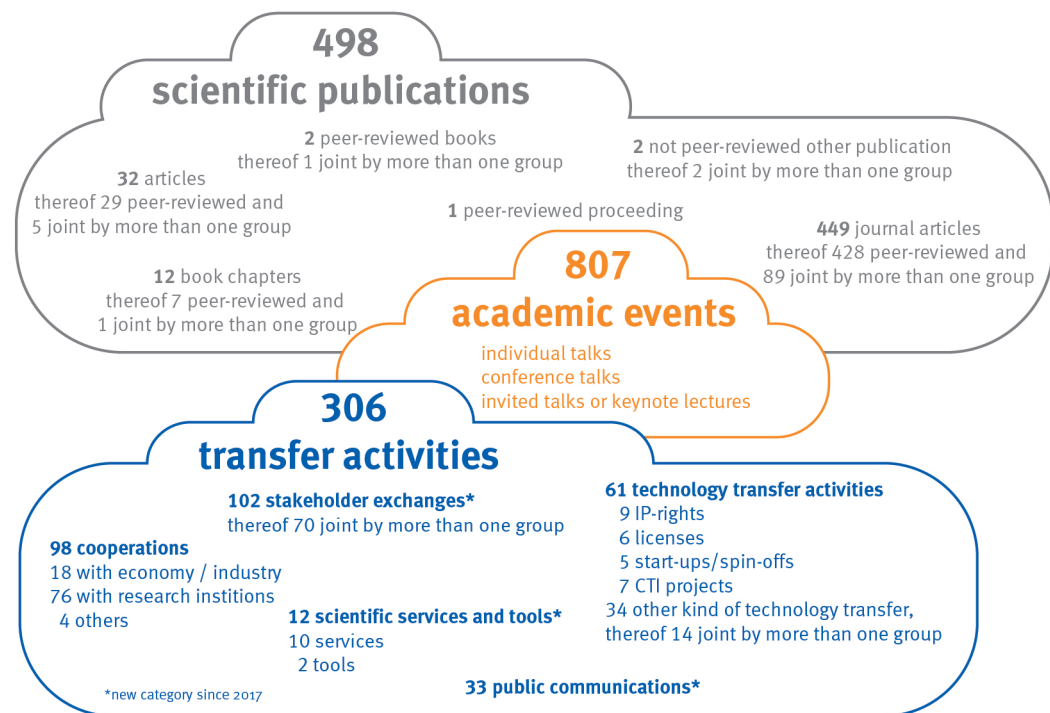
Prof. **Pieter Cullis**, Department of Biochemistry, Life Sciences Center, CA
Dr. **Walter Fischli**, Idorsia Pharmaceuticals Ltd, CH
Prof. **Christian Hackenberger**, Leibniz-Forschungsinstitut für Molekulare Pharmakologie im Forschungsverbund Berlin e.V., Berlin, DE
Prof. **Tom Kirchhausen**, Harvard Medical School, Boston, US
Prof. **Suzanne Pfeffer**, Stanford University School of Medicine, US
Prof. **Carsten Schultz**, Department of Physiology and Pharmacology, Oregon Health & Science University (OHSU), US
Prof. **Dirk Trauner**, New York University, US

Prof. **Andreas Mayer** (Chair), SNF, Bern, CH
Prof. **N.N.**, SNF, Bern, CH
Prof. **Bernard Thorens**, SNF, Bern, CH

Management/Coordination

Dr. Phaedra Simitsek
Université de Genève
Sciences II, bureau 3-308
30 quai Ernest Ansermet
CH-1211 Genève 4
+41 22 379 64 07
www.nccr-chembio.ch

Output Data Data: since start



Key collaborations with third parties

Research Institutions

Biozentrum, University of Basel, CH
 CNRS, Grenoble, FR
 Institut Curie, Paris, FR
 ETHZ, Zurich, CH
 INSERM, University of Lyon, Lyon, FR
 Laboratory of Computational Systems Biotechnology LCSB, EPFL, CH
 Max Planck Institute for Colloids and Surfaces, Potsdam-Golm, DE
 MPI Physics of Complex systems, Dresden, DE
 UCLA, Los Angeles, US
 Dartmouth University, US
 University of California, San Francisco, US
 University of Auckland, NZ
 TU Munchen, DE
 Strasbourg University, FR
 Ben Gurion University, Beer-Shiva, IL
 EMBL Heidelberg, DE

Private and public sector

Avanti Polar lipids, Alabama, US
 Spirochrome, Geneva, CH
 Networks, New York, US
 Novartis Forschungsstiftung, Basel, CH
 SystemsX, Zurich, CH
 TCI Europe N.V., Zwijndrecht, BE

Funding

Funding Source (CHF)	Total Phase 1 2010 - 2013	Total Phase 2 2014 - 2017	Total Phase 3 2018 - 2021	2018	2019	2020	2021	Phase 3 %
SNSF-funding ¹	13'510'000	14'712'738	10'758'236	2'595'346	3'453'140	2'703'250	2'006'500	47
Self-funding from Home Institution ²	13'145'250	9'122'351	9'448'441	1'905'828	2'208'360	2'517'570	2'816'683	42
Self-funding from project participants	3'631'371	7'839'172	2'414'277	2'414'277	0	0	0	11
3rd party-funding	130'596	18'400	0	0	0	0	0	0
Total	30'417'217	31'692'661	22'620'954	6'915'451	5'661'500	5'220'820	4'823'183	100

¹ incl. funding of transfer projects (strong Swiss franc package) in 2012, compensation for PhD salaries increase in 2014, flexibility grant in 2017 and 2018, mobility grant in 2018 and open research data grant in 2019

² Personnel costs, equipment and consumables, not included infrastructure and basic equipment

Persons involved

Personnel ³	Total of persons	Female %	CH	Top 5 – Most represented nations					Other nations
				FR	DE	IT	ES	CN	
Research associates ⁴	16	25	4	4	1	2	3	0	2
Doctoral students	28	50	7	2	5	1	0	1	12
Postdoctoral students	34	29	1	6	6	3	2	3	13
Senior researchers ⁵	30	37	8	3	1	1	1	0	13
Management ⁶	4.88	40	4	1	0	1	0	0	5
Other staff	13	62	9	3	0	1	0	0	0
Total	125.88	39	33	19	13	9	6	4	45

³ Persons involved in the NCCR in the last reporting period (12 months)

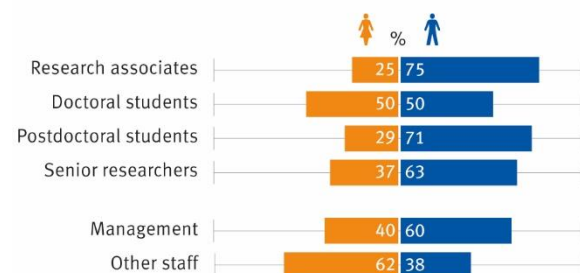
⁴ Includes graduate scientists (level master) but not registered as PhD students or undergraduate students participating in research projects.

⁵ Including leaders of the individual projects and other organisational units of the NCCR

⁶ Full-time equivalent, including NCCR-Director and persons in charge of knowledge and technology transfer, equal opportunities, communication and education and training

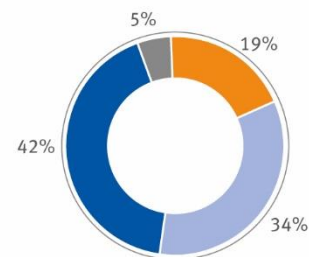
Gender in the NCCR

Data: current year



Training state of doctoral students

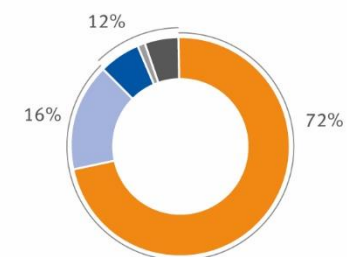
Data: since start



in progress	23
completed	41
continuation outside NCCR	50
dropout	6
Total	120

Next employer of doctoral and postdoctoral students

Data: since start



Academic sector	162
Private sector	37
Public sector	14
Other	1
None/not known	12
Total	226

NCCR Digital Fabrication

Innovative Building Processes in Architecture



NCCR Director: Prof. Philippe Block
Home Institution: ETH Zurich
Start date: 1st of June 2014 (4th NCCR series)

Heads of Research Groups

Prof. **Philippe Block**, Departement Architektur, ETH Zürich
Prof. **Margarita Chli**, Departement Maschinenbau und Verfahrenstechnik, ETH Zürich
Prof. **Stelian Coros**, Departement Informatik, ETH Zürich
Prof. **Benjamin Dillenburger**, Departement Architektur, ETH Zürich
Prof. **Corentin Fivet**, Faculté de l'environnement Naturel, Architectural et Construit, EPFL
Prof. **Robert Flatt**, Departement Bau, Umwelt und Geomatik, ETH Zürich
Prof. **Christophe Girod**, Departement Architektur, ETH Zürich
Prof. **Gudela Grote**, Departement Management, Technologie und Ökonomie, ETH Zürich
Prof. **Guillaume Habert**, Departement Bau, Umwelt und Geomatik, ETH Zürich
Prof. **Daniel Hall**, Departement Bau, Umwelt und Geomatik, ETH Zürich
Prof. **Marco Hutter**, Departement Maschinenbau und Verfahrenstechnik, ETH Zürich
Prof. **Walter Kaufmann**, Departement Bau, Umwelt und Geomatik, ETH Zürich
Prof. **Matthias Kohler**, Departement Architektur, ETH Zürich
Prof. **Agathe Koller-Hodac**, Mechatronik und Automation, HSR Hochschule für Technik Rapperswil
Prof. **Andreas Luible**, Technik und Architektur, HSLU Hochschule Luzern
Prof. **Mark Pauly**, Faculté Informatique et Communications, EPFL
Prof. **Arno Schlueter**, Departement Architektur, ETH Zürich
Prof. **Kristina Shea**, Departement Maschinenbau und Verfahrenstechnik, ETH Zürich
Prof. **Roland Siegwart**, Departement Maschinenbau und Verfahrenstechnik, ETH Zürich
Prof. **Olga Sorkine-Hornung**, Departement Informatik, ETH Zürich
Prof. **Yves Weinand**, Faculté de l'environnement Naturel, Architectural et Construit, EPFL
Prof. **Andreas Wieser**, Departement Bau, Umwelt und Geomatik, ETH Zürich
Prof. **Melanie Zeilinger**, Departement Maschinenbau und Verfahrenstechnik, ETH Zürich

[Overview of all Research Projects](#)

Participating Institutions

EPFL (3 groups)/ETH Zürich (18 groups)/HSR (1 group)/HSLU (1 group)

Members of the Review Panel

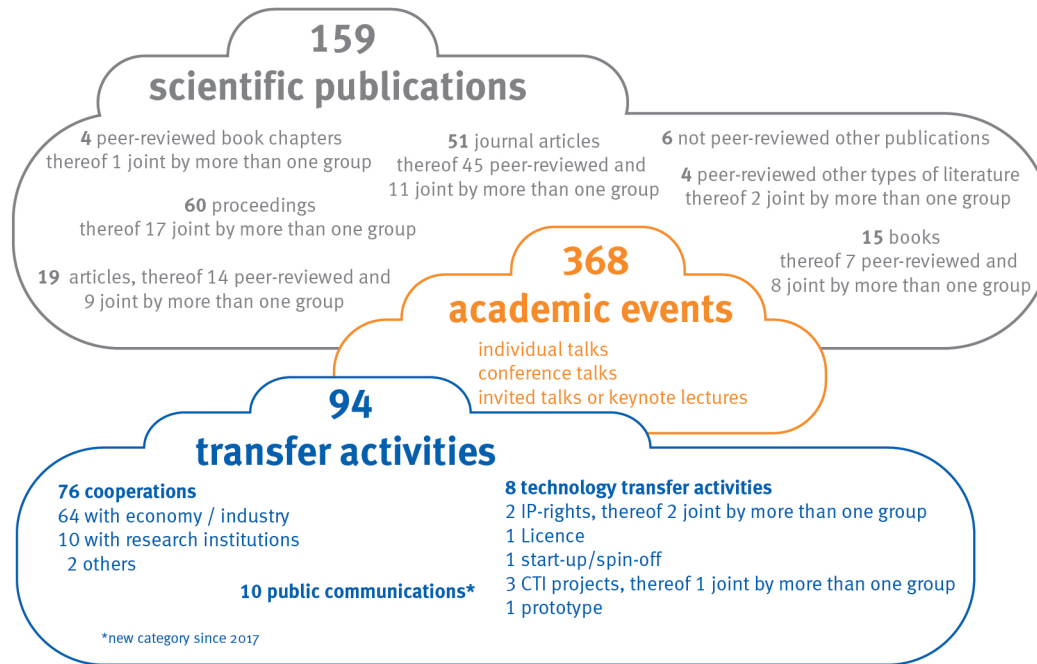
Prof. **Oliver Brock**, Institut für Technische Informatik und Mikroelektronik, TU Berlin, DE
Prof. **Mark Burry**, Smart Cities Research Institute, Hawthorn, AUS
Prof. **Rüdiger Dillmann**, Institut für Anthropomatik und Robotik, Karlsruhe Institut für Technologie, DE
Prof. **Gregor Engels**, Institut für Informatik, Universität Paderborn, DE
Prof. **Gerti Kappel**, Institut für Softwaretechnik und Interaktive Systeme, TU Wien, AT
Prof. **Hanif Kara**, Graduate School of Design, Harvard University, UK
Prof. **Wojciech Matusik**, MIT CSAIL, US
Prof. **Mette Ramsgaard Thomsen**, CITA, Det Kongelige Danske Kunstakademis Skoler, DK
Prof. **Petra von Both**, Karlsruher Institut für Technologie KIT, Karlsruhe, DE

Prof. **Anastasia Ailamaki** (Chair), SNF, Bern, CH
Prof. **Friedrich Eisenbrand**, SNF, Bern, CH
Prof. **N.N.**, SNF, Bern, CH

Management/Coordination

Dr. Russell Loveridge
NCCR Digital Fabrication
ETH Zürich
HIB E 25 / Stefano-Franscini-Platz 1
CH-8093 Zürich
+41 44 633 36 99
www.dfab.ch

Output Data
Data: since start



Key collaborations with third parties

Private and public sector

- Arup Group, UK
- Autodesk Inc, US
- BASF Schweiz AG, CH
- Basler & Hoffmann AG, CH
- Boston Consulting Group, CH
- Bürgin Creations, CH
- EMPA, CH
- ERNE Holzbau AG, CH
- Hilti Corporation, AT
- LafargeHolcim Ltd, CH
- Marti AG, CH
- NOE Schalungstechnik GmbH, CH
- Peri GmbH, CH
- Permat AG, CH
- SACAC AG, CH
- Schlatter Industries AG, CH
- Sika AG, CH
- Steiner AG, CH
- Voxeljet AG, DE
- Zühlke AG, CH

Funding

Funding Source (CHF)	Total Phase 1 2014 - 2017	Total Phase 2 2018 - 2021	2018	2019	2020	2021	Phase 2 %
SNFS-funding ¹	13'441'280	14'523'880	3'382'480	3'771'400	3'685'000	3'685'000	51
Self-funding from Home Institution ²	8'825'936	8'017'614	2'279'079	1'686'365	2'026'085	2'026'085	28
Self-funding from project participants	4'795'110	2'851'350	2'491'350	120'000	120'000	120'000	10
3rd party-funding	5'756'043	3'115'451	3'115'451	0	0	0	11
Total	32'818'369	28'508'295	11'268'360	5'577'765	5'831'085	5'831'085	100

¹ incl. flexibility grant in 2016, 2017, 2018 and 2019 and open research data grant in 2019

² Personnel costs, equipment and consumables, not included infrastructure and basic equipment

Persons involved

Personnel ³	Total of persons	Female %	CH	Top 5 – Most represented nations					Other nations
				DE	BE	IT	US	AR	
Research associates ⁴	13	23	7	1	0	2	0	2	2
Doctoral students	43	26	9	3	2	3	1	1	24
Postdoctoral students	16	38	1	1	1	2	0	0	11
Senior researchers ⁵	31	19	10	4	4	0	2	1	11
Management ⁶	6.96	43	5	4	1	0	1	0	3
Other staff	6	0	3	1	0	0	1	0	1
Total	115.96	26	35	14	8	7	5	4	52

³ Persons involved in the NCCR in the last reporting period (12 months)

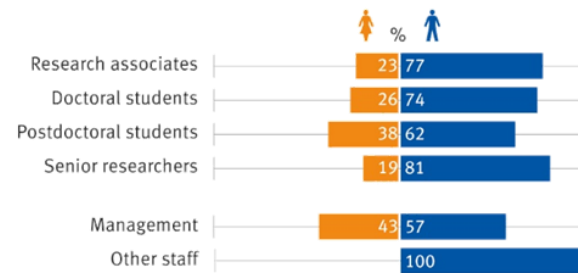
⁴ Includes graduate scientists (level master) but not registered as PhD students or undergraduate students participating in research projects.

⁵ Including leaders of the individual projects and other organisational units of the NCCR

⁶ Full-time equivalent, including NCCR-Director and persons in charge of knowledge and technology transfer, equal opportunities, communication and education and training

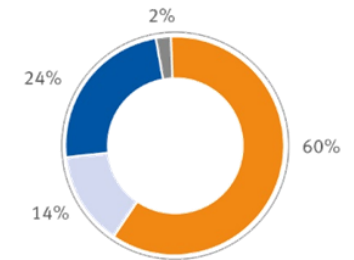
Gender in the NCCR

Data: current year



Training state of doctoral students

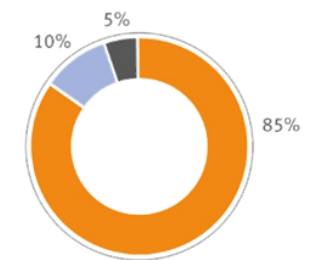
Data: since start



in progress	35
completed	8
continuation outside NCCR	14
dropout	1
Total	58

Next employer of doctoral and postdoctoral students

Data: since start



Academic sector	17
Private sector	2
Public sector	0
Other	0
None/not known	1
Total	20

NCCR Kidney.CH

Kidney Control of Homeostasis

NCCR Director: Prof. Johannes Loffing
Home Institution: University of Zurich
Start date: 1st of August 2010 (3rd NCCR series)



Heads of Research Groups

Prof. **Felix Beuschlein**, Klinik für Endokrinologie, Diabetologie und Klinische Ernährung, Universitätsspital Zürich
Prof. **Murielle Bochud**, Institut Universitaire de Médecine Sociale et Préventive, Université de Lausanne
Prof. **Olivier Bonny**, Département de pharmacologie et de toxicologie, Université de Lausanne
Prof. **Sophie De Seigneux**, Département Physiologie cellulaire et métabolisme, Université de Genève
Dr. **Diane De Zélicourt**, Physiologisches Institut, Universität Zürich
Prof. **Olivier Devuyst**, Physiologisches Institut, Universität Zürich
Dr. **Daniela Egli-Spichtig**, Physiologisches Institut, Universität Zürich
Prof. **Eric Feraille**, Département Physiologie cellulaire et métabolisme, Université de Genève
Prof. **Daniel Fuster**, Departement Nephrologie / Hypertonie, Universitätsspital Bern
Prof. **Andrew Hall**, Anatomisches Institut, Universität Zürich
Prof. **Edith Hummler**, Département de Pharmacologie et Toxicologie, Université de Lausanne
Prof. **Uyen Huynh-Do**, Departement Nephrologie / Hypertonie, Universitätsspital Bern
Dr. **Pedro Imenez Silva**, Physiologisches Institut, Universität Zürich
Dr. **Anna Keppner**, Abteilung Medizin, Universität Freiburg
Prof. **Vartan Kurtcuoglu**, Physiologisches Institut, Universität Zürich
Prof. **Soeren Lienkamp**, Anatomisches Institut, Universität Zürich
Prof. **Johannes Loffing**, Anatomisches Institut, Universität Zürich
Prof. **Johan Lorenzen**, Klinik für Nephrologie, Universitätsspital Zürich
Dr. **Matthias Moor**, Department for BioMedical Research (DBMR), Universität Bern
Dr. **David Pentón Ribas**, Anatomisches Institut, Universität Zürich
Dr. **Carsten Scholz**, Physiologisches Institut, Universität Zürich
Dr. **Natsuko Tokonami**, Physiologisches Institut, Universität Zürich
Prof. **Carsten Wagner**, Physiologisches Institut, Universität Zürich
Prof. **Roland Wenger**, Physiologisches Institut, Universität Zürich

[Overview of all Research Projects](#)

Participating Institutions

Université de Genève (2 groups)/Université de Lausanne (3 groups)
Universität Zürich (13 groups)/Universität Bern (1 group)/Universität Freiburg (1 group)/Universitätsspital Bern (2 groups)/Universitätsspital Zürich (2 groups)

Members of the Review Panel

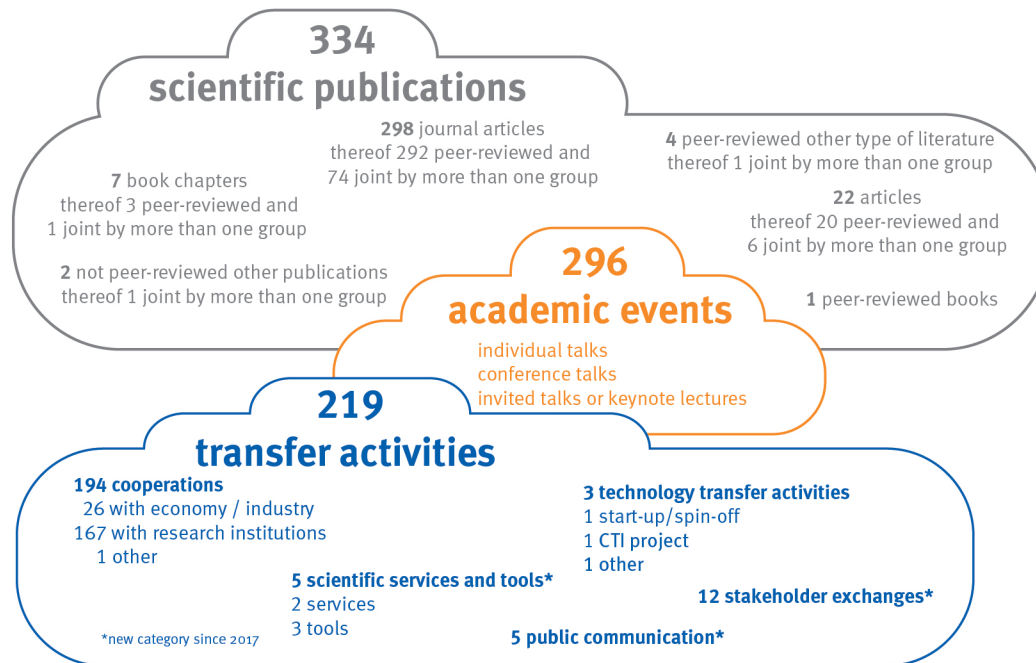
Prof. **Robert Alpern**, Yale School of Medicine, US
Prof. **David A. Bushinsky**, Nephrologie Unit, University of Rochester, US
Prof. **Kai-Uwe Eckardt**, Medizinische Klinik m.S. Nephrologie und Intensivmedizin, Charité-Universitätsmedizin Berlin, DE
Prof. **Denis P. Fouque**, Hôpital Edouard Herriot and INSERM U1060; Université de Lyon, FR
Prof. **Armin Kurtz**, Institut für Physiologie, Universität Regensburg, DE
Prof. **Alicia A. McDonough**, Keck School of Medicine of USC, US
Prof. **David Pearce**, Medicine and Cellular and Molecular Pharmacology, University of California, US
Prof. **Jonathan Seckl**, Center Cardiovascular Science, The Queen's Medical Research Institute, UK
Prof. **Fabiola Terzi**, INSERM, Université de Paris, FR

Prof. **Nicolas Rodondi** (Chair), SNF, Bern, CH
Prof. **N.N.**, SNF, Bern, CH
Prof. **Rolf Zeller**, SNF, Bern, CH

Management/Coordination

Romina Theiler
Scientific Project Manager
Universität Zürich
Physiologisches Institut
Winterthurerstrasse 190
CH-8057 Zürich
+41 44 635 59 68
www.nccr-kidney.ch

Output Data
Data: since start



Key collaborations with third parties

Academia

Department of Physiology, University College London, GB
 Human Genetics Unit, Medical Research Council, Edinburgh, GB
 Institute of molecular bioscience, University of Tokyo, JP
 Institute of Veterinary Physiology, University of Zurich, CH
 Internal Medicine, National Center of Integrative Biomedical Informatics, Ann Arbor, US
 Internal Medicine, CHUV - Centre Hospitalier Universitaire Vaudois, Lausanne, CH
 Mineral metabolism clinic, Ut Southwestern Medical Centre, Dallas, TX, US
 Department of Medicine, University of Aarhus, DK
 Institute of Physiology, University of Kiel, DE
 Centre de Recherche des Cordeliers, Paris, FR
 Department of Anesthesiology, Vanderbilt University Medical Center, Nashville, US

Private and public sector

Novartis, Basel, CH
 Calciscon AG, Bern CH
 VIFOR, Villars-sur-Glâne CH
 Prosalix, Allschwil CH

Funding

Funding Source (CHF)	Total Phase 1 2010 - 2013	Total Phase 2 2014 - 2017	Total Phase 3 2018 - 2021	2018	2019	2020	2021	Phase 3 %
SNSF-funding ¹	16'530'000	16'568'958	10'580'000	2'892'750	2'762'417	2'562'417	2'362'416	57
Self-funding from Home Institution ²	2'168'316	4'709'507	3'980'411	1'235'130	931'513	768'768	1'045'000	22
Self-funding from project participants	5'271'515	3'333'162	3'874'183	564'183	1'110'000	1'100'000	1'100'000	21
3rd party-funding	146'955	2	0	0	0	0	0	0
Total	24'116'786	24'611'629	18'434'594	4'692'063	4'803'930	4'431'185	4'507'416	100

¹ incl. compensation for PhD salaries increase in 2014 and flexibility grant in 2016

² Personnel costs, equipment and consumables, not included infrastructure and basic equipment

Persons involved

Personnel ³	Total of persons	Female %	CH	Top 5 – Most represented nations					Other nations
				DE	FR	IT	GB	IN	
Research associates ⁴	5	40	1	2	0	0	0	1	1
Doctoral students	15	53	3	3	1	4	1	0	3
Postdoctoral students	5	60	0	0	2	0	0	0	3
Senior researchers ⁵	33	30	13	8	4	1	2	1	4
Management ⁶	1.72	40	1	3	1	0	0	0	0
Other staff	9	67	8	0	0	0	0	0	1
Total	68.72	43	26	16	8	5	3	2	12

³ Persons involved in the NCCR in the last reporting period (12 months)

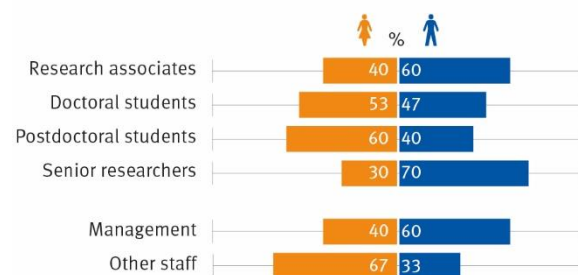
⁴ Includes graduate scientists (level master) but not registered as PhD students or undergraduate students participating in research projects.

⁵ Including leaders of the individual projects and other organisational units of the NCCR

⁶ Full-time equivalent, including NCCR-Director and persons in charge of knowledge and technology transfer, equal opportunities, communication and education and training

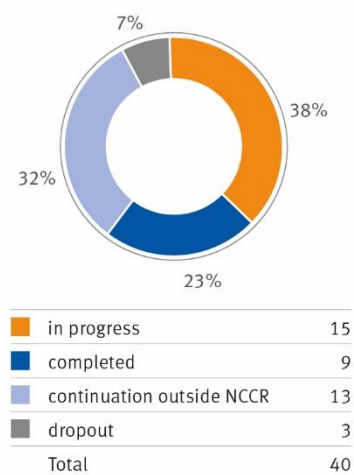
Gender in the NCCR

Data: current year



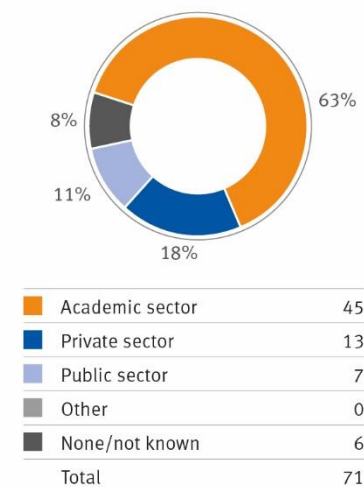
Training state of doctoral students

Data: since start



Next employer of doctoral and postdoctoral students

Data: since start



NCCR LIVES

Overcoming vulnerability: life course perspectives

NCCR Director: Prof. Dario Spini, NCCR Co-Director: Prof. Eric Widmer
Home Institutions: University of Lausanne, University of Geneva
Start date: 1st of January 2011 (3rd NCCR series)



Heads of Research Groups

Prof. **André Berchtold**, Centre de recherche sur les parcours de vie et les inégalités, Université de Lausanne
Prof. **Laura Bernardi**, Centre de recherche sur les parcours de vie et les inégalités, Université de Lausanne
Prof. **Jean-Michel Bonvin**, Institut de socio-économie, Université de Genève
Prof. **Claudine Burton-Jeangros**, Département de Sociologie, Université de Genève
Prof. **Eric Davoine**, Chaire Ressources Humaines et Organisation, Université de Fribourg
Prof. **Paolo Ghisletta**, Groupe méthodologie et analyse de données, Faculté de psychologie et des sciences de l'éducation, Université de Genève
Prof. **Daniela Jopp**, Faculté des sciences sociales et politiques, Université de Lausanne
Prof. **Matthias Kliegel**, Laboratoire du Vieillissement Cognitif, Université de Genève
Prof. **Nicky Le Feuvre**, Laboratoire de sociologie, Université de Lausanne
Prof. **Jürgen Maurer**, Département d'économie, Université de Lausanne
Prof. **Daniel Oesch**, Institut des Sciences Sociales, Université de Lausanne
Prof. **Michele Pellizzari**, Département des Sciences Économiques, Université de Genève
Prof. **Clémentine Rossier**, Institut de démographie et socio économie, Université de Genève
Prof. **Jérôme Rossier**, Laboratoire de psychologie du développement, conseil et Intervention, Université de Lausanne
Prof. **Alexandra Freund**, Psychologisches Institut, Universität Zürich
Prof. **Dario Spini**, Centre de recherche sur les parcours de vie et les inégalités, Université de Lausanne
Prof. **Leen Vandecasteele**, Faculté des sciences sociales et politiques, Université de Lausanne
Prof. **Erich Widmer**, Département de Sociologie, Université de Genève

[Overview of all Research Projects](#)

Participating Institutions

Université de Fribourg (1 group)/Université de Genève (7 groups)
Université de Lausanne (8 groups)/Universität Zürich (1 group)

Members of the Review Panel

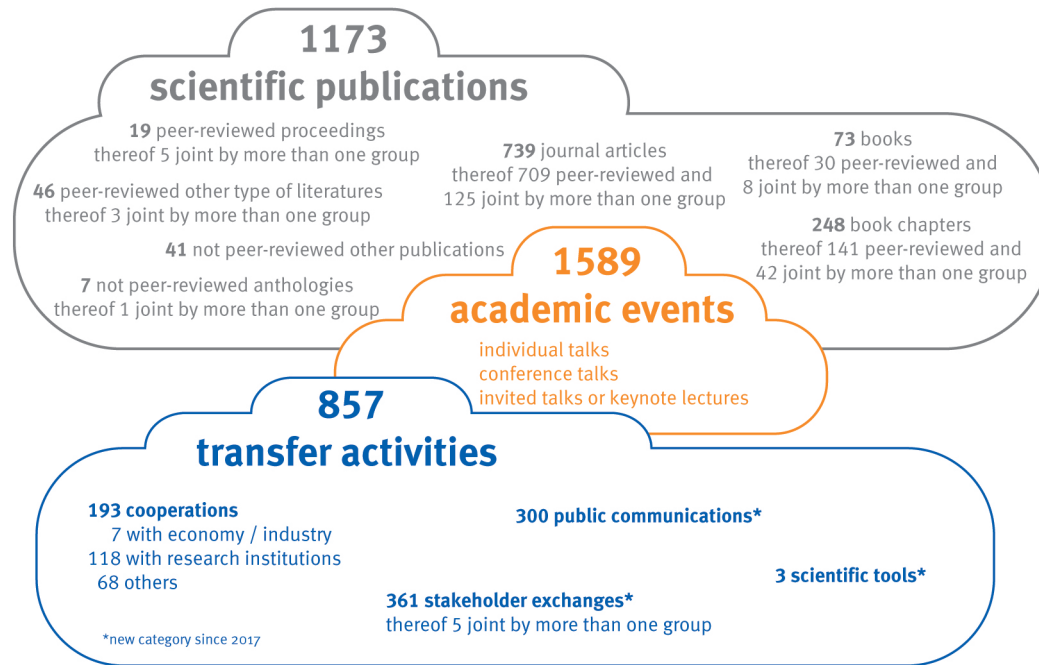
Prof. **Alain Chenu** (emerit.), Directeur de l'Observatoire sociologique du changement, Paris, FR
Prof. **Michael Eid**, Erziehungswissenschaften und Psychologie, Freie Universität Berlin, DE
Prof. **Jutta Heckhausen**, Department of Psychology and Social Behavior, University of California, Irvine, US
Prof. **François Héran**, Collège de France, Paris, FR
Prof. **Ingrid Schoon**, Department of Quantitative Social Science, Institute of Education, University of London UK
Prof. **Joan Miquel Verd Pericàs**, Departamento de Sociología, Univeristat Autònoma de Barcelona, ES

Prof. **Uschi Backes-Gellner** (Chair), SNF, Bern, CH
Prof. **Gudela Grote**, SNF, Bern, CH
Prof. **Eszter Hargittai**, SNF, Bern, CH

Management/Coordination

Dr. Christina Györkös
Head of Scientific and Shared Services
NCCR LIVES
Université de Lausanne
Bâtiment Géopolis
CH-1015 Lausanne
+41 21 692 38 52
www.lives-nccr.ch

Output Data
Data: since start



Key collaborations with third parties

Academia

Institut National Etude Démographiques (INED), Paris, FR
 NCCR on the move, University of Neuchatel, CH
 Oregon State University, Center for Healthy Ageing Research and Hallie, US
 Jacobs Centre for Productive Youth Development, University of Zurich, CH
 Bremen International Graduate School of Social Sciences (BIGSSS), University of Bremen, DE
 Centre on Aging and the Life Course, Purdue University, US
 Millenium Nucleus for the Study of the Life Course and Vulnerability, Santiago de Chile, CHI
 International Centre for Life Course Studies in Society and Health, University College London, UK
 Institute for Life Course and Society, Galway, IRA
 Population Europe – Network of Europe’s leading demographic research centres, Berlin, DE
 University College London, International Centre for Lifecourse Studies in Society and Health, UK
 University of Bremen, Institut für Soziologie, Bremen, DE

Private and public sector

Centre de compétence suisse en sciences sociales (FORS), Lausanne, CH
 Centre for Economic Policy Research, London, GB
 Département de la santé et de l’action sociale du Canton de Vaud, Lausanne, CH
 Départements des affaires régionales, de l’économie et de la santé du Canton de Genève, CH
 Fondation Leenards, Lausanne, CH
 Organisation for Economic Co-operation and Development, Paris, FR
 Federal Social Insurance Office (OFAS), Bern, CH
 Pro Senectute Switzerland, Basel, Bern, Valais, Vaud, CH
 State Secretariat of Economic Affairs, Bern, CH

Funding

Funding Source (CHF)	Total Phase 1 2010 - 2013	Total Phase 2 2014 - 2017	Total Phase 3 2018 - 2021	2018	2019	2020	2021	Phase 3 %
SNSF-funding ¹	14'551'895	14'778'648	10'708'555	2'561'031	3'291'149	2'685'458	2'170'917	24
Self-funding from Home Institution ²	5'636'219	13'983'831	20'818'614	4'476'789	5'352'372	5'395'913	5'593'540	46
Self-funding from project participants	13'721'239	12'886'243	13'100'045	3'297'778	3'649'695	3'261'863	2'890'709	29
3rd party-funding	5'440'407	955'918	449'662	138'946	120'000	190'716	0	1
Total	39'349'760	42'604'640	45'076'876	10'474'544	12'413'216	11'533'950	10'655'166	100

¹ incl. Mobility-grant in 2014 and 2015, compensation for PHD salaries increase in 2015, flexibility grant in 2015, 2016, 2017 and 2018 and open research data grant in 2019.

² Personnel costs, equipment and consumables, not included infrastructure and basic equipment

Persons involved

Personnel ³	Total of persons	Female %	CH	Top 5 – Most represented nations					Other nations
				FR	DE	IT	CA	GB	
Research associates ⁴	20	65	12	2	1	1	0	0	4
Doctoral students	39	69	19	3	3	4	2	0	9
Postdoctoral students	19	53	8	5	1	3	0	1	2
Senior researchers ⁵	78	46	49	8	8	3	1	1	12
Management ⁶	8.65	63	15	1	1	1	2	0	0
Other staff	16	81	13	0	2	0	0	1	0
Total	180.65	58	116	19	16	12	5	3	27

³ Persons involved in the NCCR in the last reporting period (12 months)

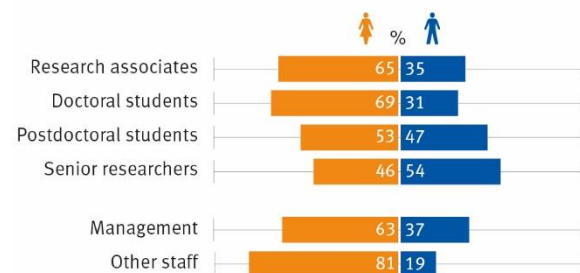
⁴ Includes graduate scientists (level master) but not registered as PhD students or undergraduate students participating in research projects

⁵ Including leaders of the individual projects and other organisational units of the NCCR

⁶ Full-time equivalent, including NCCR-Director and persons in charge of knowledge and technology transfer, equal opportunities, communication and education and training

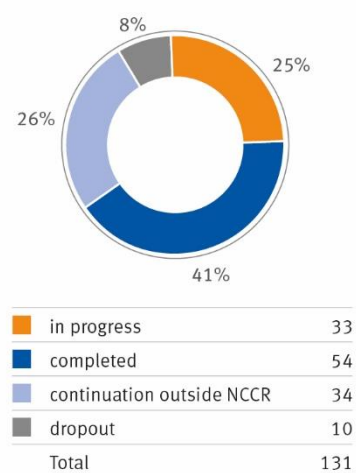
Gender in the NCCR

Data: current year



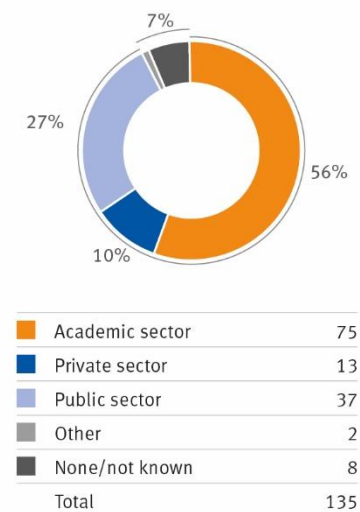
Training state of doctoral students

Data: since start



Next employer of doctoral and postdoctoral students

Data: since start



NCCR MARVEL

Materials' Revolution: Computational Design and Discovery of Novel Materials



NCCR Director: Prof. Nicola Marzari
Home Institution: EPFL
Start date: 1st May 2014 (4th NCCR series)

Heads of Research Groups

Prof. **Ulrich Aschauer**, Departement für Chemie und Biochemie, Universität Bern
Prof. **Michele Ceriotti**, Institut des matériaux, EPFL
Prof. **Anne-Clémence Corminboeuf**, Institut des sciences et ingénierie chimiques, EPFL
Prof. **William Curtin**, Institut de génie mécanique, EPFL
Prof. **Claude Ederer**, Departement Materialwissenschaft, ETH Zürich
Prof. **Roman Fasel**, Nanotech@surfaces, Empa Dübendorf
Prof. **Stefan Goedecker**, Departement Physik, Universität Basel
Prof. **Jürg Hutter**, Institut für Chemie, Universität Zürich
Prof. **Martin Jaggi**, Institut d'informatique et de communications, EPFL
Prof. **Michiel Kenzelmann**, Laboratory for Neutron Scattering and Imaging, PSI Villigen
Dr. **Teodoro Laino**, IBM Research GmbH, Rueschlikon
Prof. **Mathieu Luisier**, Departement Informationstechnologie und Elektrotechnik, ETH Zürich
Prof. **Piero Macchi**, Departement für Chemie und Biochemie, Universität Bern
Prof. **Nicola Marzari**, Institut des matériaux, EPFL
Prof. **Maria Luisa Medarde Barragan**, Laboratory for Multiscale Materials Experiments, PSI Villigen
Prof. **Frithjof Nolting**, Laboratory for Condensed Matter Physics, PSI Villigen
Prof. **Michele Parrinello**, Facoltà di scienze informatiche, Università della Svizzera Italiana, Lugano and Departement Chemie und Angewandte Biowissenschaften, ETH Zürich
Prof. **Alfredo Pasquarello**, Institut de physique, EPFL
Dr. **Daniele Passerone**, Nanotech@surfaces, Empa Dübendorf
Dr. **Daniele Pergolesi**, Laboratory for Multiscale Materials Experiments, PSI Villigen
Dr. **Giovanni Pizzi**, Institut des matériaux, EPFL
Dr. **Marco Ranocchiari**, Laboratory for Catalysis and Sustainable Chemistry, PSI Villigen
Prof. **Volker Roth**, Departement Mathematik & Informatik, Universität Basel
Prof. **Thomas Schulthess**, Centro Svizzero di Calcolo Scientifico (CSCS), Lugano and Institut für Theoretische Physik, ETH Zürich
Prof. **Ming Shi**, Laboratory for Condensed Matter Physics, PSI Villigen
Prof. **Berend Smit**, Institut des sciences et ingénierie chimiques, EPFL
Prof. **Nicola Spaldin**, Departement Materialwissenschaft, ETH Zürich
Dr. **Urs Staub**, Laboratory for Condensed Matter Physics, PSI Villigen
Dr. **Ivano Tavernelli**, IBM Research GmbH, Rueschlikon
Dr. **Joost VandeVondele**, Centro Svizzero di Calcolo Scientifico (CSCS), Lugano
Prof. **Anatole von Lilienfeld**, Departement Chemie, Universität Basel

Participating Institutions

Universität Basel (3 groups)/Universität Bern (2 groups)/Université de Fribourg (1 group)/Università della Svizzera Italiana (1 group)/Universität Zürich (2 groups)/EPFL (9 groups)/ETH Zürich (5 groups)/Centro Svizzero di Calcolo Scientifico (2 groups)/Empa (2 groups)/IBM Research GmbH (2 groups)/Paul Scherrer Institut (7 groups)

Members of the Review Panel

Prof. **Ali Alavi**, Max-Planck-Institut für Festkörperforschung, DE/
Department of Chemistry, University of Cambridge, UK
Prof. **Massimo Capone**, Scuola Internazionale Superiore di Studi Avanzati (SISSA), Trieste, IT
Prof. **Angelos Michaelides**, Thomas Young Centre, London, UK
Prof. **Shobhana Narasimhan**, Theoretical Sciences Unit, JNCASR, IN
Prof. **Mike Payne**, Theory of Condensed Matter Group, University of Cambridge, UK
Prof. **Alexandre Tkatchenko**, Faculty of Science, Technology and Communication, Université du Luxembourg, LU
Prof. **Christopher M. Wolverton**, Department of Materials Science & Engineering, Northwestern University, US
Prof. **Dimos Poulikakos** (Chair), SNF, Bern, CH
Prof. **N.N.**, SNF, Bern, CH
Prof. **N.N.**, SNF, Bern, CH

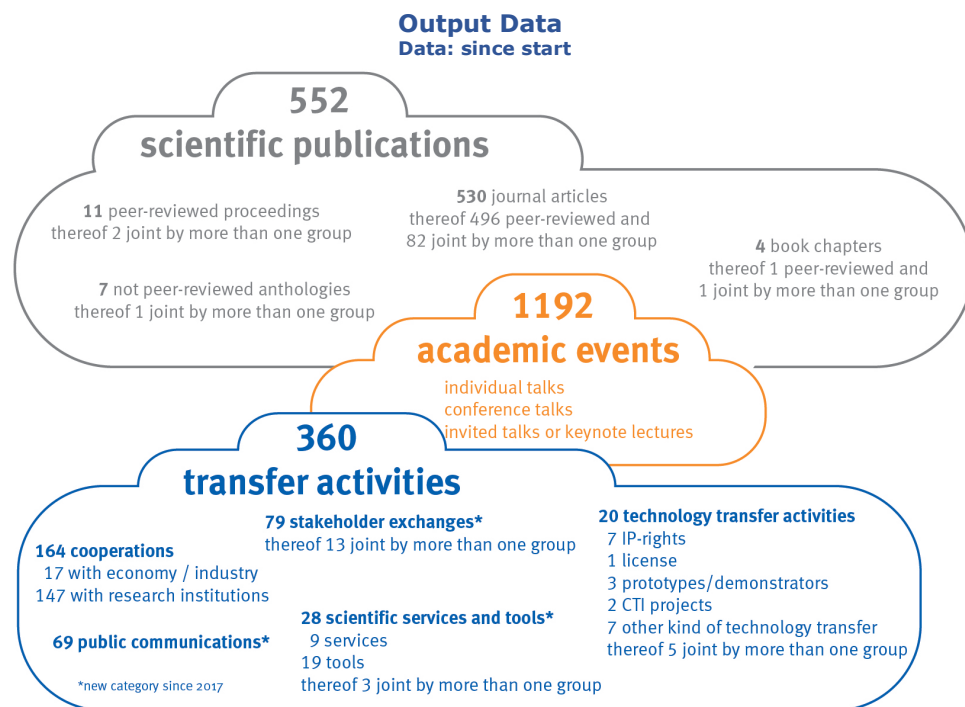
Management / Coordination

Dr. Lidia Favre-Quattropani
Dr. Patrick Mayor
NCCR MARVEL
EPFL STI PRN-MARVEL
Station 9
CH-1015 Lausanne
+41 21 693 48 80
+41 21 693 81 66
www.nccr-marvel.ch

Heads of Research Groups (continued)

Prof. **Philipp Werner**, Département de physique, Université de Fribourg
 Prof. **Oleg Zayzev**, Institut de physique, EPFL

Overview of all Research Projects



Key collaborations with third parties

Academia

Centre Européen de Calcul Atomique et Moléculaire (CECAM), EPFL
 Platform for Advanced Scientific Computing (PASC)
 H2020 Flagship Human Brain Project, EPFL
 H2020 Flagship Graphene
 H2020 Centre of Excellence on Materials Design at the Exascale (MaX)
 H2020 European Materials Modelling Council (EMMC)
 H2020 Nanoscience Foundries & Fine Analysis (NFFA)
 H2020 MarketPlace
 H2020 Intersect
 Consorzio Interuniversitario CINECA, Bologna
 Psi-k
 Thomas Young Centre, London
 Max-Planck-EPFL Center for Molecular Nanoscience and Technology
 Quantum ESPRESSO Foundation, London
 Crystallography Open Database, Vilnius
 Simons Collaboration on the Many Electron Problem, Columbia University
 African School series on Electronic Structure Methods and Applications (ASESMA), Urbana
 Open Quantum Materials Database, Northwestern University
 MAPEX Center for Materials and Processes

Private and public sector

Varinor-Richemont, Delémont
 Material Phases Data System (MPDS), Vitznau
 Solvay, Bruxelles
 Robert Bosch Research and Technology Center, Cambridge MA
 Samsung, Korea
 MAPEX Center for Materials and Processes, Bremen, DE

Funding

Funding Source (CHF)	Total Phase 1	Total Phase 2	2018	2019	2020	2021	Phase 2
	2014 - 2017	2018 - 2021					%
SNSF-funding ¹	18'000'000	18'171'327	4'543'082	4'628'245	4'500'000	4'500'000	44
Self-funding from Home Institution ²	5'674'162	4'778'983	1'608'983	1'130'000	1'020'000	1'020'000	12
Self-funding from project participants	21'892'743	17'670'873	5'969'934	4'392'667	3'654'136	3'654'136	43
3rd party-funding	587'725	158'411	158'411	0	0	0	1
Total	46'154'630	40'779'594	12'280'410	10'150'912	9'174'136	9'174'136	100

¹ incl. flexibility grant in Year 2018 and 2019 and open research data grant in 2019

² Personnel costs, equipment and consumables, not included infrastructure and basic equipment

Persons involved

Personnel ³	Total of persons	Female %	CH	Top 5 – Most represented nations					Other nations
				IT	DE	CN	RU	US	
Research associates	2	0	2	0	0	0	0	0	0
Doctoral students	55	25	9	18	4	3	2	1	19
Postdoctoral students	61	21	0	11	12	3	3	1	31
Senior researchers ⁴	55	15	17	12	4	3	3	2	15
Management ⁵	3.56	70	5	1	0	0	0	2	5
Other staff	15	73	2	3	0	2	2	1	5
Total	191.56	27	35	45	20	11	10	7	75

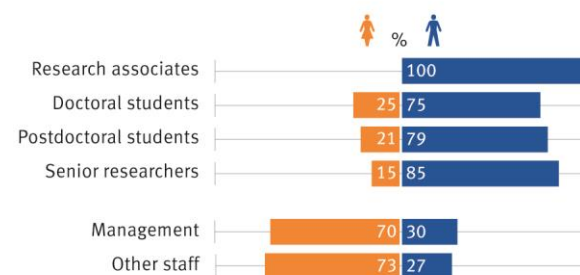
³ Persons involved in the NCCR in the last reporting period (12 months)

⁴ Including leaders of the individual projects and other organisational units of the NCCR

⁵ Full-time equivalent, including NCCR-Director and persons in charge of knowledge and technology transfer, equal opportunities, communication and education and training

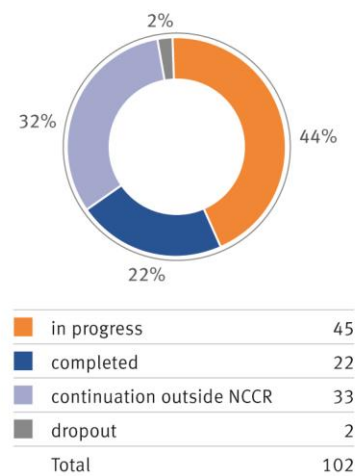
Gender in the NCCR

Data: current year



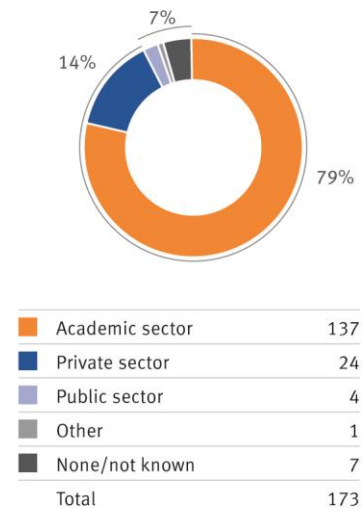
Training state of doctoral students

Data: since start



Next employer of doctoral and postdoctoral students

Data: since start



NCCR MSE

Molecular Systems Engineering



NCCR Director: Prof. Thomas R. Ward, NCCR Co-Director: Prof. Daniel Müller
Home Institutions: University of Basel, ETH Zurich
Start date: 1st of July 2014 (4th NCCR series)

Heads of Research Groups

Prof. **Yaakov Benenson**, Departement Biosysteme, ETH Zürich
Prof. **Nikola Biller-Andorno**, Institut für Biomedizinische Ethik und Medizingeschichte, Universität Zürich
Prof. **Bruno Correia**, Institut of Bioengineering, EPFL
Prof. **Jonathan De Roo**, Departement Chemie, Universität Basel
Prof. **Petra Ditttrich**, Departement Biosysteme, ETH Zürich
Prof. **Dimitrios Fotiadis**, Institut für Biochemie und Molekulare Medizin, Universität Bern
Prof. **Martin Fussenegger**, Departement Biosysteme, ETH Zürich
Prof. **Catherine Housecroft**, Departement Chemie, Universität Basel
Dr. **Richard Kammerer**, Paul Scherrer Institut, PSI Villigen
Dr. **Emanuel Lörtscher**, IBM Research GmbH, Rüschlikon
Prof. **Ivan Martin**, Departement Biomedizin, Universitätsspital Basel
Prof. **Stefan Matile**, Section Chimie et Biochimie, Université de Genève
Prof. **Marcel Mayor**, Departement Chemie, Universität Basel
Prof. **Wolfgang Meier**, Departement Chemie, Universität Basel
Prof. **Daniel Müller**, Departement Biosysteme, ETH Zürich
Prof. **Michael Nash**, Departement Chemie, Universität Basel
Prof. **Cornelia Palivan**, Departement Chemie, Universität Basel
Prof. **Sven Panke**, Departement Biosysteme, ETH Zürich
Prof. **Randall Platt**, Departement Biosysteme, ETH Zürich
Prof. **Sai Reddy**, Departement Biosysteme, ETH Zürich
Prof. **Botond Roska**, Neurobiologie, Friedrich Miescher Institut, Basel
Prof. **Hendrik Scholl**, Augenklinik, Universitätsspital Basel
Prof. **Florian Seebeck**, Departement Chemie, Universität Basel
Prof. **Christof Sparr**, Departement Chemie, Universität Basel
Prof. **Jörg Stelling**, Departement Biosysteme, ETH Zürich
Prof. **Konrad Tiefenbacher**, Departement Chemie, Universität Basel
Prof. **Viola Vogel**, Departement Gesundheitswissenschaften und Technologie, ETH Zürich
Prof. **Thomas R. Ward**, Departement Chemie, Universität Basel
Prof. **Oliver Wenger**, Departement Chemie, Universität Basel

[Overview of all Research Projects](#)

Participating Institutions

Universität Basel (11 groups)/Universität Bern (1 group)/Université de Genève (1 group)/Universität Zürich (1 groups)/EPFL (1 group)/ETH Zürich (9 groups)/Friedrich Miescher Institut (1 group)/IBM Research GmbH (1 groups)/Paul Scherrer Institut (1 group)/Universitätsspital Basel (2 groups)

Members of the Review Panel

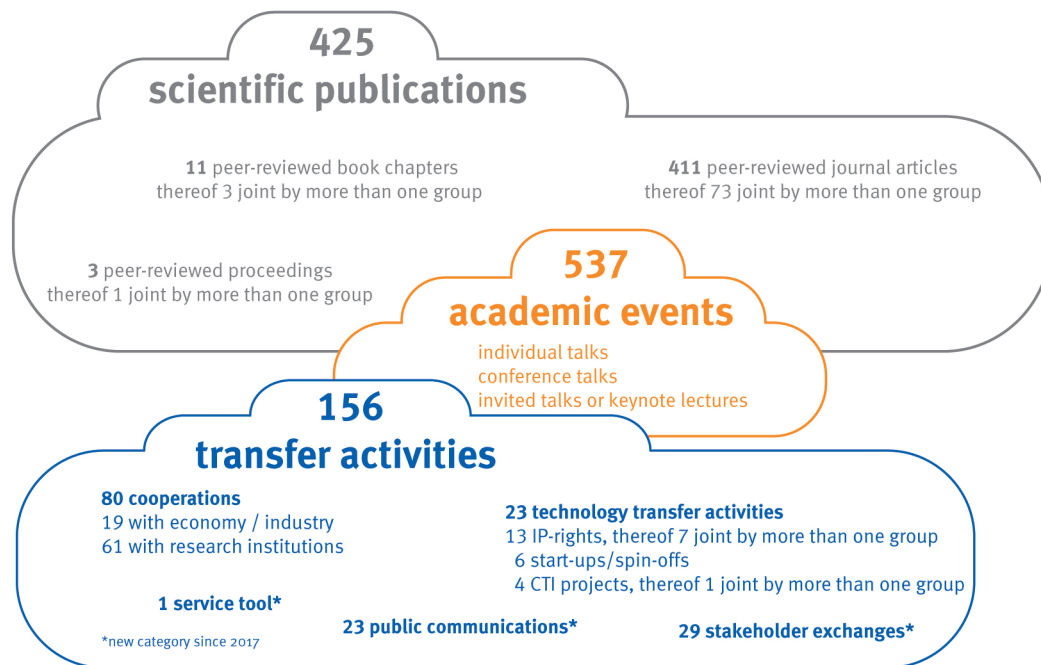
Prof. **Luisa De Cola**, Institut de Science et d'Ingénierie, Supramoléculaires, Université de Strasbourg, FR
Prof. **Egbert W. Meijer**, Laboratory of Macromolecular and Organic Chemistry, Eindhoven University of Technology, NL
Prof. **Krzysztof Palczewski**, Center for Translational Vision Research, University of California, US
Prof. **Joachim P. Spatz**, Max-Planck-Institut für intelligente Systeme, DE
Prof. **Gregory Stephanopoulos**, MIT, US
Prof. **Tanja Weil**, Institut für Organische Chemie III, Universität Ulm, DE

Prof. **Denis Jabaudon** (Chair), SNF, Bern, CH
Prof. **Bart Deplancke**, SNF, Bern, CH
Prof. **Anna Fontcuberta i Morral**, SNF, Bern, CH

Management/Coordination

Aleksander Beniak
NCCR Molecular Systems Engineering
University of Basel
BPR 1095, Mattenstrasse 24a
P.O. Box 3350
CH-4002 Basel
+41 61 267 19 90
www.nccr-mse.ch

Output Data
Data: since start



Key collaborations with third parties

Academia

Bar-Ilan University, Ramat Gan, IL
 Delft University of Technology, Delft, NL
 Ecole Normale Supérieure, Paris, FR
 Harvard Medical School, Boston, US
 Institut de la Vision, Paris, FR
 Ludwig Maximilians-Universität, München, DE
 Max Planck Institute of Biophysics, Frankfurt, DE
 Mc Gill University, Montreal, CA
 Salk Institute for Biological Studies, La Jolla, US
 Scripps Research Institute, Jupiter, FL, US
 Stanford University, Stanford, US
 University of Pennsylvania, Pennsylvania, US
 University of Uppsala, Uppsala, SE
 Vienna University of Technology, Vienna, AT
 Weizmann Institute of Science, Rehovot, IL

Private and public sector

BASF, Basel, CH
 Deltamem, Muttentz, CH
 Huntsman, Basel, CH
 Nanosurf AG, Liestal, CH
 Novartis, Basel, CH
 Roche Diagnostics, Penzberg, DE

Funding

Funding Source (CHF)	Total Phase 1 2014 - 2017	Total Phase 2 2018 - 2021	2018	2019	2020	2021	Phase 2 %
SNSF-funding ¹	16'927'600	18'267'500	4'225'000	4'747'500	4'647'500	4'647'500	65
Self-funding from Home Institution ²	7'710'222	8'430'122	1'800'122	2'210'000	2'210'000	2'210'000	30
Self-funding from project participants	8'396'443	1'224'961	1'224'961	0	0	0	5
3rd party-funding	727'780	0	0	0	0	0	0
Total	33'762'045	27'922'583	7'250'083	6'957'500	6'857'500	6'857'500	100

¹ incl. 120%-grant in year 2016 and 2017

² Personnel costs, equipment and consumables, not included infrastructure and basic equipment

Persons involved

Personnel ³	Total of persons	Female %	CH	Top 5 – Most represented nations					Other nations
				DE	CN	US	IT	ES	
Research associates ⁴	1	0	0	0	0	0	1	0	0
Doctoral students	58	29	17	15	2	1	2	3	20
Postdoctoral students	18	11	2	2	4	1	1	1	7
Senior researchers ⁵	42	19	18	9	1	4	1	0	11
Management ⁶	4.94	33	7	4	0	2	1	0	2
Other staff	5	20	3	1	0	0	0	0	2
Total	128.94	24	47	31	7	8	6	4	42

³ Persons involved in the NCCR in the last reporting period (12 months)

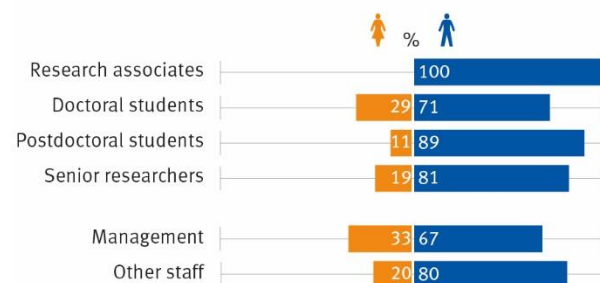
⁴ Includes graduate scientists (level master) but not registered as PhD students or undergraduate students participating in research projects.

⁵ Including leaders of the individual projects and other organisational units of the NCCR

⁶ Full-time equivalent, including NCCR-Director and persons in charge of knowledge and technology transfer, equal opportunities, communication and education and training

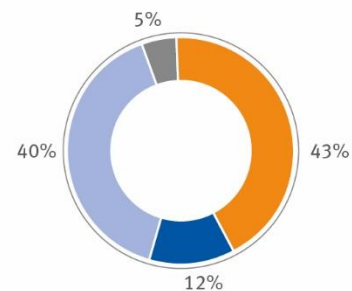
Gender in the NCCR

Data: current year



Training state of doctoral students

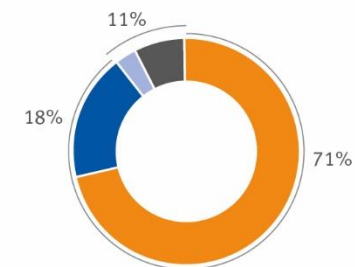
Data: since start



in progress	47
completed	14
continuation outside NCCR	43
dropout	5
Total	109

Next employer of doctoral and postdoctoral students

Data: since start



Academic sector	66
Private sector	17
Public sector	3
Other	0
None/not known	7
Total	93

NCCR MUST

Molecular Ultrafast Science and Technology



NCCR Director: Prof. Ursula Keller, NCCR Co-Director: Prof. Thomas Feurer
Home Institutions: ETH Zurich, University of Bern
Start date: 1st July 2010 (3rd NCCR series)

Heads of Research Groups

Prof. **Natalie Banerji**, Departement für Chemie und Biochemie, Universität Bern
Dr. **Paul Beaud**, Laboratory for Synchrotron Radiation – Condensed Matter, PSI Villigen
Prof. **Christoph Bostedt**, PSI Villigen/Institut des Sciences et Ingénierie Chimiques, EPFL
Prof. **Andrea Cannizzo**, Institut für Angewandte Physik, Universität Bern
Prof. **Fabrizio Carbone**, Institute de Physique, EPFL
Prof. **Adrian Cavaliere**, PSI Villigen/Institut für Angewandte Physik, Universität Bern
Prof. **Majed Chergui**, Institut des Sciences et Ingénierie Chimiques, EPFL
Prof. **Thomas Feurer**, Institut für Angewandte Physik, Universität Bern
Prof. **Manfred Fiebig**, Departement Materialwissenschaft, ETH Zürich
Prof. **Robert Häner**, Departement für Chemie und Biochemie, Universität Bern
Prof. **Peter Hamm**, Physikalisch-Chemisches Institut, Universität Zürich
Prof. **Steve Johnson**, PSI Villigen/Institut für Quantenelektronik, ETH Zürich
Prof. **Ursula Keller**, Institut für Quantenelektronik, ETH Zürich
Prof. **Markus Meuwly**, Departement Chemie, Universität Basel
Dr. **Chris Milne**, SwissFEL Alvra, PSI Villigen
Prof. **Jacques-E. Moser**, Institut des Sciences et Ingénierie Chimiques, EPFL
Prof. **Jürg Osterwalder**, Physik-Institut, Universität Zürich
Prof. **Jeremy Richardson**, Laboratorium für Physikalische Chemie, ETH Zürich
Prof. **Ursula Röthlisberger**, Institut des Sciences et Ingénierie Chimiques, EPFL
Prof. **Ruth Signorell**, Laboratorium für Physikalische Chemie, ETH Zürich
Prof. **Daniela Rupp**, Laboratorium für Festkörperphysik, ETH Zürich
Dr. **Jörg Standfuss**, Department of Biology and Chemistry, PSI Villigen
Dr. **Urs Staub**, Laboratory for Synchrotron Radiation – Condensed Matter, PSI Villigen
Prof. **Jiri Vanicek**, Institut des Sciences et Ingénierie Chimiques, EPFL
Prof. **Jean-Pierre Wolf**, Groupe de Physique Appliquée, Université de Genève
Prof. **Hans Jakob Würner**, Laboratorium für Physikalische Chemie, ETH Zürich

[Overview of all Research Projects](#)

Participating Institutions

Universität Basel (1 group)/Universität Bern (5 groups)/Université de Genève (1 group)/Universität Zürich (2 groups)/EPFL (6 groups)/ETH Zürich (7 groups)/Paul Scherrer Institut PSI (6 groups)

Members of the Review Panel

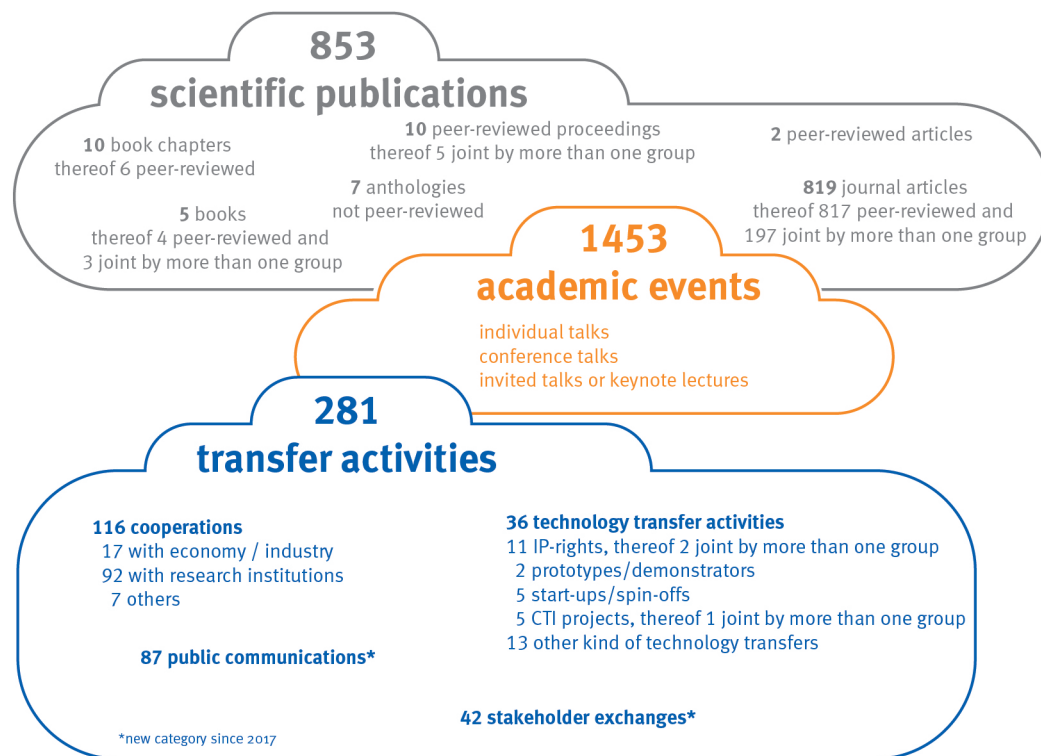
Prof. **Regina de Vivie-Riedle**, Department Chemie, Ludwig-Maximilians-Universität München, DE
Prof. **Thomas Elsaesser**, Max-Born-Institut, Berlin, DE
Prof. **Roger W. Falcone**, Physics Department, University of California, Berkeley, US
Prof. **Shaul Mukamel**, Department of Chemistry, University of California Irvine, US
Prof. **Anthony W. Parker**, Rutherford Appleton Laboratory, Harwell Science and Innovation, Oxfordshire, UK
Prof. **Villy Sundström**, Kemiska Institutionen, Lunds Universitet, SE
Prof. **Martin Wolf**, Abteilung Physikalische Chemie, Fritz-Haber Institut der MPG, DE

Prof. **Anastasia Ailamaki** (Chair), SNF, Bern, CH
Prof. **N. N.**, SNF, Bern, CH
Prof. **N.N.**, SNF, Bern, CH

Management/Coordination

Dr. Jan van Beilen and Dr. Anna Garry
Institut für Quantenelektronik (IQE)
ETH Zürich
Auguste-Piccard-Hof 1
CH-8093 Zürich
+41 44 633 29 90
www.nccr-must.ch

Output Data
Data: since start



Key collaborations with third parties

Academia

Cluster of Excellence – RESOLV, Bochum, DE
 Institute of Physical Chemistry, Polish Academy of Sciences, Warsaw, PL
 Physikalisches Institut, Albert-Ludwigs-Universität Freiburg, DE
 Combustion Research Facility, Sandia National Laboratories, Livermore, US
 Center for Physical Sciences and Technology, Institute of Physics, Vilnius, LT
 Department of Chemistry, Princeton University, NY, US
 Department of Chemistry, University of California, Irvine, US
 Institute of Applied Physics, KIT Karlsruhe, DE
 Stanford Linear Accelerator Center, Menlo Park CA, US
 Department of Physics, Imperial College London, UK
 Department of Chemistry, Massachusetts Institute of Technology, Cambridge, US
 Graduate School of Advanced Integration Science, University of Chiba, JP
 Laboratory of Photonics and Interfaces, EPFL, CH
 Max-Planck-Institut für Physik Komplexer Systeme, Dresden, DE
 Max-Planck-Institut für Struktur und Dynamik der Materie/CFEL, Hamburg, DE
 Department of Chemistry, Copenhagen University, DK

Private and public sector

Bystronic, Niederoenz, CH
 Novartis, Basel, CH
 OneFive, Zürich, CH
 Rainbow Photonics AG, Zürich, CH
 Clair, Genève, CH
 AME GmbH, Bern, CH
 Supercomputing Systems AG, Zürich CH
 Aekip SA, Saint Sulpice, CH

Funding

Funding Source (CHF)	Total Phase 1 2010 - 2013	Total Phase 2 2014 - 2017	Total Phase 3 2018 - 2021	2018	2019	2020	2021	Phase 3 %
SNSF-funding ¹	17'766'000	17'401'769	12'670'152	3'045'902	3'241'417	3'191'417	3'191'416	37
Self-funding from Home Institution ²	9'616'456	6'517'233	5'136'571	1'215'571	1'305'000	1'307'000	1'309'000	15
Self-funding from project participants	14'445'287	17'855'201	16'635'864	4'922'618	3'970'682	4'061'282	3'681'282	48
3rd party-funding	867'189	173'346	0	0	0	0	0	0
Total	42'694'932	41'947'549	34'442'587	9'184'091	8'517'099	8'559'699	8'181'698	100

¹ incl. funding of transfer projects (strong Swiss franc package) in 2012, compensation for PhD salaries increase in 2014 and flexibility grant in 2013, 2014, 2015, 2016, 2017 and 2018 and open research data grant in 2019

² Personnel costs, equipment and consumables, not included infrastructure and basic equipment

Persons involved

Personnel ³	Total of persons	Female %	CH	Top 5 – Most represented nations					Other nations
				DE	IT	FR	GB	IN	
Doctoral students	65	23	13	10	9	5	2	1	25
Postdoctoral students	52	27	5	9	6	6	4	7	18
Senior researchers ⁴	43	21	19	6	5	2	3	0	10
Management ⁵	3.35	56	7	1	0	0	1	0	1
Other staff	5	0	5	0	0	0	0	0	0
Total	168.35	25	49	26	20	13	10	8	54

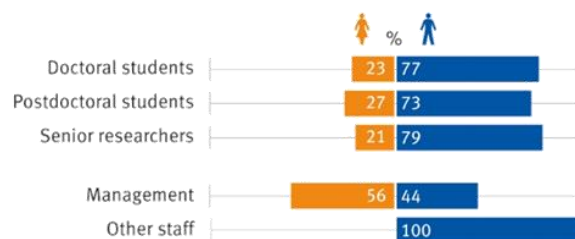
³ Persons involved in the NCCR in the last reporting period (12 months)

⁴ Including leaders of the individual projects and other organisational units of the NCCR

⁵ Full-time equivalents, including NCCR-Director and persons in charge of knowledge and technology transfer, equal opportunities, communication and education and training

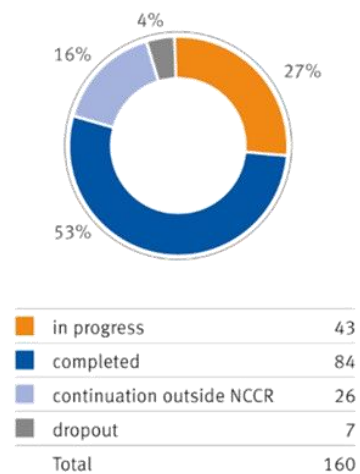
Gender in the NCCR

Data: current year



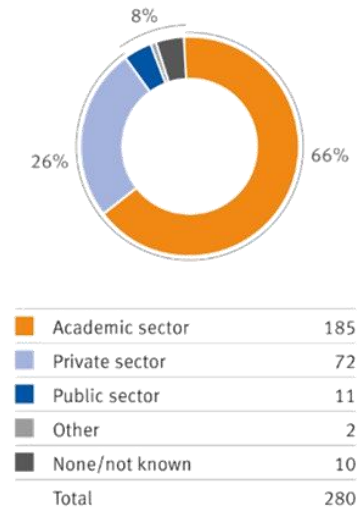
Training state of doctoral students

Data: since start



Next employer of doctoral and postdoctoral students

Data: since start



NCCR On the Move

The Migration-Mobility Nexus

NCCR Director: Prof. Gianni D'Amato
Home Institution: University of Neuchâtel
Start date: 1st of June 2014 (4th NCCR series)

nccr →
on the move

National Center of Competence in Research –
The Migration-Mobility Nexus
nccr-onthemove.ch

Heads of Research Groups

Prof. **Christin Achermann**, Centre de droit des migrations, Université de Neuchâtel
Prof. **Joachim Blatter**, Politikwissenschaftliches Seminar, Universität Luzern
Prof. **Giuliano Bonoli**, Institut des hautes études en administration publique (IDHEAP), Université de Lausanne
Prof. **Eric Crettaz**, Haute école de travail social, HES-SO Genève
Prof. **Janine Dahinden**, Maison d'analyse des processus sociaux (MAPS), Université de Neuchâtel
Prof. **Gianni D'Amato**, Forum suisse pour l'étude des migrations et de la population (SFM), Université de Neuchâtel
Prof. **Juan Manuel Falomir-Pichastor**, Unité de psychologie sociale, Université de Genève
Prof. **Matteo Gianni**, Institut d'études de la citoyenneté, Université de Genève
Prof. **Fabrizio Gilardi**, Institut für Politikwissenschaft, Universität Zürich
Prof. **Eva Green**, Institut de psychologie, Université de Lausanne
Prof. **Dominik Hangartner**, Immigration Policy Lab, ETH Zürich
Prof. **Wassilis Kassis**, Pädagogische Hochschule, Fachhochschule Nordwestschweiz (FHNW)
Prof. **Stefanie Kurt**, Institut travail social, HES-SO Valais-Wallis
Prof. **Sandra Lavenex**, Département de science politique et relations internationales, Université de Genève
Prof. **Walter Leimgruber**, Seminar für Kulturwissenschaft und Europäische Ethnologie, Universität Basel
Prof. **Francesco Maiani**, Centre de droit comparé, européen et international, Université de Lausanne
Prof. **Anita Manatschal**, Forum suisse pour l'étude des migrations et de la population (SFM), Université de Neuchâtel
Prof. **Tobias Müller**, Institut d'économie et d'économétrie, Université de Genève
Prof. **Mihaela Nedelcu**, Institut de sociologie, Université de Neuchâtel
Prof. **Etienne Piguet**, Institut de géographie, Université de Neuchâtel
Prof. **Yvonne Riaño**, Institut de géographie, Université de Neuchâtel
Prof. **Didier Ruedin**, Forum suisse pour l'étude des migrations et de la population (SFM), Université de Neuchâtel
Prof. **Alois Stutzer**, Wirtschaftswissenschaftliche Fakultät, Universität Basel
Prof. **Martina Viarengo**, Department of International Economics, Graduate Institute for International and Development Studies
Prof. **Philippe Wanner**, Institut de démographie et socioéconomie, Université de Genève
Prof. **Tania Zittoun**, Institut de psychologie et éducation, Université de Neuchâtel

[Overview of all Research Projects](#)

Participating Institutions

Universität Basel (2 groups)/Université de Genève (5 groups)/Université de Lausanne (3 groups)/Universität Luzern (1 group)/Université de Neuchâtel (9 groups)/Universität Zürich (1 group)/ ETH Zürich (1 group) HES-SO Valais-Wallis (1 group)/HETS Genève (1 group)/Pädagogische Hochschule Fachhochschule Nordwestschweiz (1 group)/The Graduate Institute (1 group)

Members of the Review Panel

Prof. **Rupert Brown**, School of Psychology, University of Sussex, UK
Prof. **Ayse Caglar**, Institut für Kultur- und Sozialanthropologie, Universität Wien, AT
Prof. **Gil S. Epstein**, Department of Economics, School of Graduate Studies, Bar-Ilan University, IL
Prof. **Kulu Hill**, School of Geography & Geosciences, University of St. Andrews, UK
Prof. **Susan Martin**, Georgetown University, Washington, US
Prof. **Noel Salazar**, Faculty of Social Sciences IMMRC, KU Leuven, BE
Prof. **Maarten Vink**, Faculty of Arts and Social Sciences, Maastricht University, NL

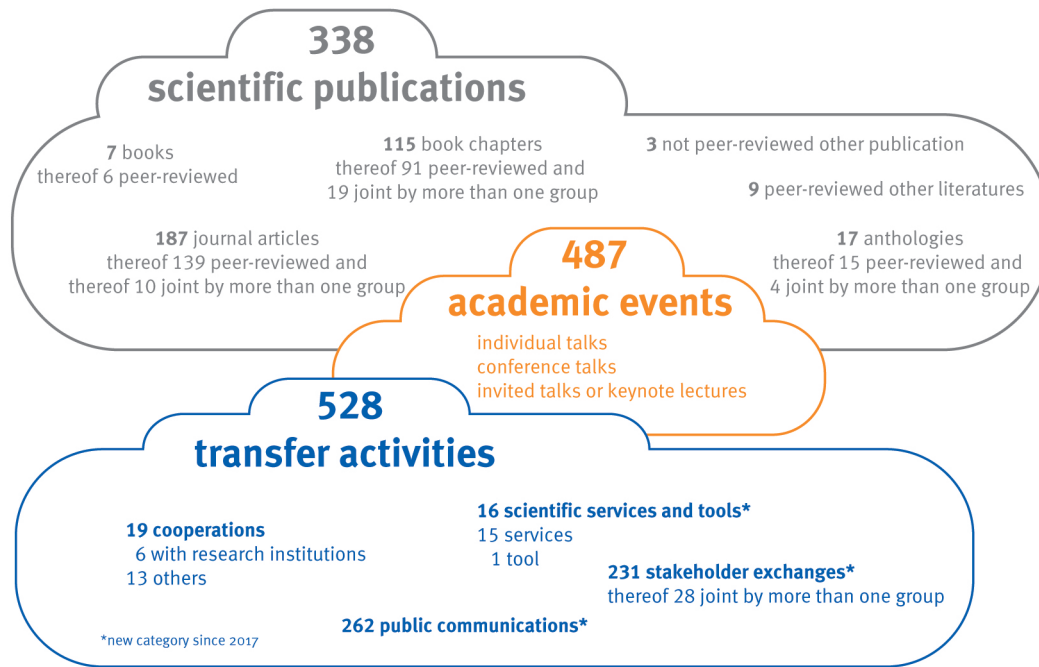
Prof. **Max Bergman** (Chair), SNF, Bern, CH
Prof. **Franz Caspar**, SNF, Bern, CH
Prof. **Gudela Grote**, SNF, Bern, CH

Management / Coordination

Dr. Nicole Wichmann
NCCR On the Move
Université de Neuchâtel
Abram-Louis-Breguet 2
CH-2000 Neuchâtel
+41 32 718 39 25

www.nccr-onthemove.ch

Output Data
Data: since start



Key collaborations with third parties

Academia

Center for Migration Law, University of Nijmegen, NL
 Department of Political Science, University of Vienna, AT
 History Department, University of Amsterdam, NL
 IMISCOE, Network of Scholars International Migration,
 Integration and Social Cohesion, Erasmus University Rotterdam, NL
 IMIS Osnabrück, DE
 Malmö Institute for Studies of Migration, Diversity and Welfare, SE
 Migration Policy Centre, European University Institute, IT
 Pädagogische Hochschule Heidelberg, DE
 Universidad Santo Tomas, Bogotá, CO
 Università di Bologna, IT
 Universitat Autònoma de Barcelona, ES
 University of Sheffield, UK
 University of Stockholm, SE
 University of Thessaly, GR
 University of Toronto, CA
 University of Trondheim, NL

Private and public sector

Centre de compétence suisse en sciences sociales – FORS,
 Université de Lausanne, CH
 Commission fédérale pour les questions de migration (CFM), Wabern, CH
 Stiftung Mercator Schweiz, Zürich, CH
 Office fédéral de la statistique, Neuchâtel, CH
 Secrétariat d'Etat aux migrations, Wabern, CH

Funding

Funding Source (CHF)	Total Phase 1 2014 - 2017	Total Phase 2 2018 - 2021	2018	2019	2020	2021	Phase 2 %
SNSF-funding ¹	17'403'134	16'494'913	4'354'913	4'113'400	4'013'300	4'013'300	79
Self-funding from Home Institution ²	3'054'791	3'002'727	707'327	911'200	708'575	675'625	14
Self-funding from project participants	3'887'100	1'380'567	1'380'567	0	0	0	7
3rd party-funding	0	0	0	0	0	0	0
Total	24'345'025	20'878'207	6'442'807	5'024'600	4'721'875	4'688'925	100

¹incl. Mobility-grant in 2014, 2016 and 2017 and 120% Support in 2015, 2016, 2017 and 2018

² Personnel costs, equipment and consumables, not included infrastructure and basic equipment

Persons involved

Personnel ³	Total of persons	Female %	CH	Top 5 – Most represented nations					Other nations
				DE	IT	ES	FR	AT	
Research associates ⁴	28	64	20	2	1	2	1	0	3
Doctoral students	38	61	18	6	1	1	2	1	13
Postdoctoral students	27	70	8	8	4	3	0	1	6
Senior researchers ⁵	35	40	24	1	5	1	1	1	5
Management ⁶	6.39	69	13	1	1	1	1	0	0
Other staff	5	80	3	0	1	0	1	0	1
Total	139.39	60	86	18	13	8	6	3	28

³ Persons involved in the NCCR in the last reporting period (12 months)

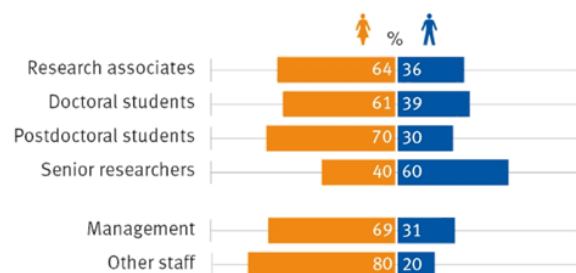
⁴ Includes graduate scientists (level master) but not registered as PhD students or undergraduate students participating in research projects.

⁵ Including leaders of the individual projects and other organisational units of the NCCR

⁶ Full-time equivalent, including NCCR-Director and persons in charge of knowledge and technology transfer, equal opportunities, communication and education and training

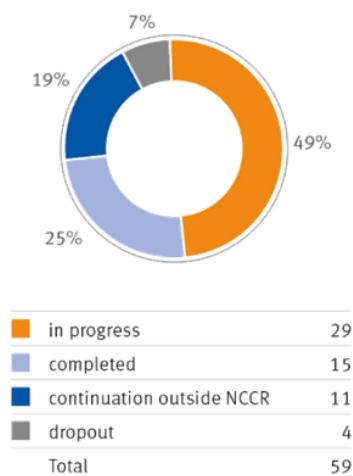
Gender in the NCCR

Data: current year



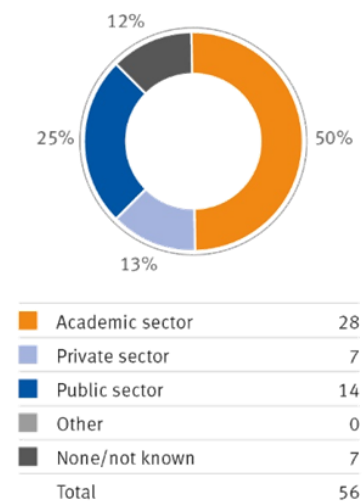
Training state of doctoral students

Data: since start



Next employer of doctoral and postdoctoral students

Data: since start



NCCR PlanetS

Origin, Evolution and Characterisation of Planets



NCCR Director: Prof. Willy Benz, NCCR Co-Director: Prof. Stéphane Udry
Home Institutions: University of Bern, University of Geneva
Start date: 1st of June 2014 (4th NCCR series)

Heads of Research Groups

Dr. **Yann Alibert**, Physikalisches Institut und Center for Space and Habitability (CSH), Universität Bern
Prof. **Willy Benz**, Physikalisches Institut und Center for Space and Habitability (CSH), Universität Bern
Prof. **François Bouchy**, Observatoire, Université de Genève
Dr. **Henner Busemann**, Institut für Geochemie und Petrologie, ETH Zürich
Dr. **Brice-Olivier Demory**, Physikalisches Institut und Center for Space and Habitability (CSH), Universität Bern
Dr. **David Ehrenreich**, Observatoire, Université de Genève
Prof. **Ravit Helled**, Institut für Computergestützte Wissenschaften, Universität Zürich
Prof. **Kevin Heng**, Physikalisches Institut und Center for Space and Habitability (CSH), Universität Bern
Prof. **Ingo Leya**, Physikalisches Institut und Center for Space and Habitability (CSH), Universität Bern
Dr. **Christophe Lovis**, Observatoire, Université de Genève
Prof. **Lucio Mayer**, Institut für Computergestützte Wissenschaften, Universität Zürich
Prof. **Klaus Mezger**, Institut für Geologie, Universität Bern
Dr. **Christoph Mordasini**, Physikalisches Institut und Center for Space and Habitability (CSH), Universität Bern
Prof. **Francesco Pepe**, Observatoire, Université de Genève
Dr. **Antoine Pommerol**, Physikalisches Institut und Center for Space and Habitability (CSH), Universität Bern
Dr. **Sascha P. Quanz**, Institut für Teilchen- und Astrophysik, ETH Zürich
Prof. **Hans Martin Schmid**, Institut für Teilchen- und Astrophysik, ETH Zürich
Prof. **Maria Schönbachler**, Institut für Geochemie und Petrologie, ETH Zürich
Dr. **Damien Ségransan**, Observatoire, Université de Genève
Dr. **Joachim Stadel**, Institut für Computergestützte Wissenschaften, Universität Zürich
Prof. **Nicolas Thomas**, Physikalisches Institut und Center for Space and Habitability (CSH), Universität Bern
Prof. **Stéphane Udry**, Observatoire, Université de Genève
Dr. **Susanne Wampfler**, Physikalisches Institut und Center for Space and Habitability (CSH), Universität Bern

[Overview of all Research Projects](#)

Participating Institutions

Universität Bern (10 groups)/Université de Genève (6 groups)/Universität Zürich (3 groups)/ETH Zürich (4 groups)

Members of the Review Panel

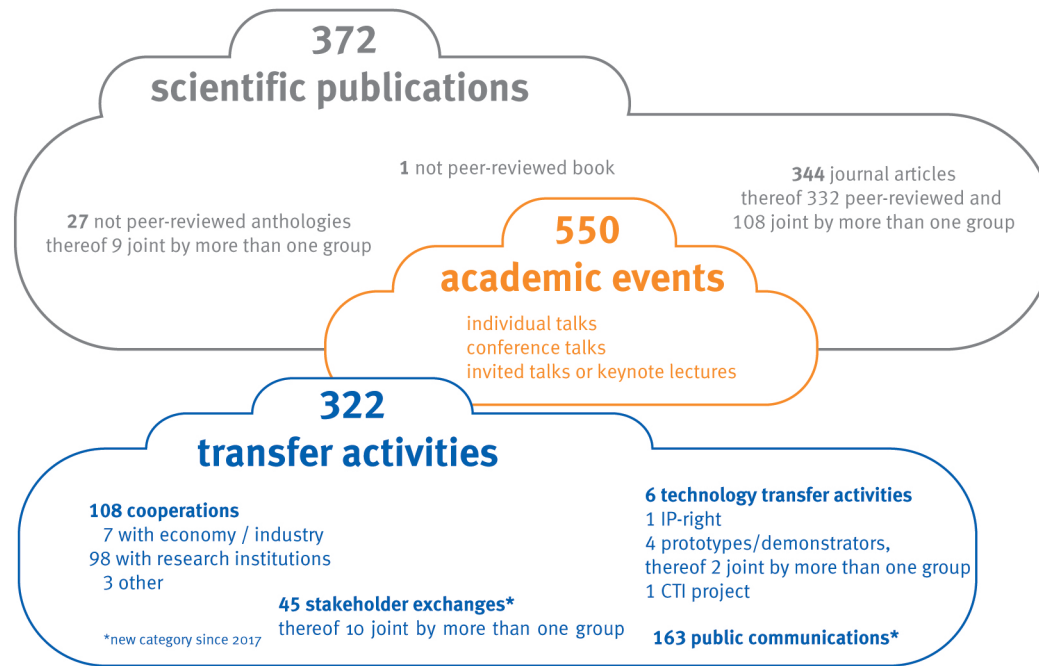
Prof. **Imke de Pater**, Department of Astronomy, University of California, Berkeley, US
Prof. **Debra Fischer**, Department of Astronomy, Yale University, New Haven, US
Prof. **Jamie Gilmour**, School of Earth, Atmospheric and Environmental Sciences, The University of Manchester, UK
Prof. **Lisa Kaltenegger**, Department of Astronomy, Cornell University, Ithaca, US
Prof. **Douglas N. C. Lin**, Astronomy & Astrophysics Department, UC Santa Cruz, US
Dr. **Larry R. Nittler**, Department of Terrestrial Magnetism, Carnegie Institution of Washington, US
Prof. **Ewine F. van Dishoeck**, Leiden Observatory, NL

Prof. **Anna Fontcuberta i Morral** (Chair), SNF, Bern, CH
Prof. **Stuart Lane**, SNF, Bern, CH
Prof. **Ulrike Lohmann**, SNF, Bern, CH

Management/Coordination

NCCR PlanetS
Physikalisches Institut
Universität Bern
Janine Jungo / Valentina Sankolli
Gesellschaftsstrasse 6
CH-3012 Bern
+41 31 631 32 39
www.nccr-planetS.ch

Output Data
Data: since start



Key collaborations with third parties

International Organisations / Agencies

European Space Agency (ESA)
European Southern Observatory (ESO)

Private and public sector

Burgergemeinde Zermatt
Swiss Museum of Transport
Swiss Space Museum

Funding

Funding Source (CHF)	Total Phase 1	Total Phase 2	2018	2019	2020	2021	Phase 2 %
	2014 - 2017	2018 - 2021					
SNSF-funding ¹	17'654'539	19'104'786	4'474'730	4'950'056	4'840'000	4'840'000	55
Self-funding from Home Institution ²	7'468'707	10'369'936	2'315'238	2'795'899	2'616'499	2'642'300	30
Self-funding from project participants	8'868'814	5'169'477	2'705'794	1'007'500	873'100	583'083	15
3rd party-funding	50'000	22'670	22'670	0	0	0	0
Total	34'042'060	34'666'869	9'518'432	8'753'455	8'329'599	8'065'383	100

¹ incl. flexibility grant in Year 2017, 2018 and 2019 and open research data grant 2019

² Personnel costs, equipment and consumables, not included infrastructure and basic equipment

Persons involved

Personnel ³	Total of persons	Female %	CH	Top 5 – Most represented nations					Other nations
				FR	DE	GB	IT	US	
Research associates ⁴	1	0	1	0	0	0	0	0	1
Doctoral students	30	37	5	5	3	5	2	1	10
Postdoctoral students	33	30	4	11	1	1	1	5	10
Senior researchers ⁵	38	16	14	8	8	3	2	0	6
Management ⁶	10.87	38	22	3	3	0	3	1	4
Other staff	16	13	11	3	0	0	0	0	3
Total	128.87	27	57	30	15	9	8	7	34

³ Persons involved in the NCCR in the last reporting period (12 months)

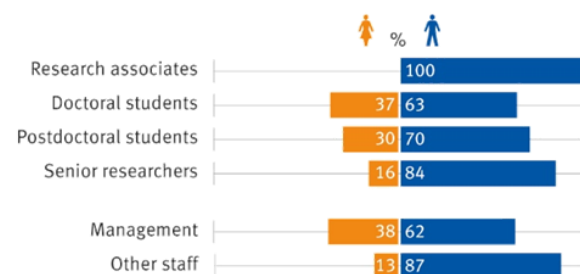
⁴ Includes graduate scientists (level master) but not registered as PhD students or undergraduate students participating in research projects.

⁵ Including leaders of the individual projects and other organisational units of the NCCR

⁶ Full-time equivalent, including NCCR-Director and persons in charge of knowledge and technology transfer, equal opportunities, communication and education and training

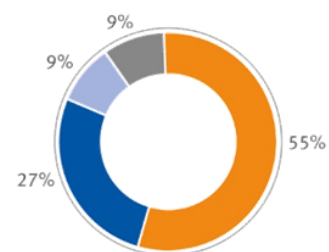
Gender in the NCCR

Data: current year



Training state of doctoral students

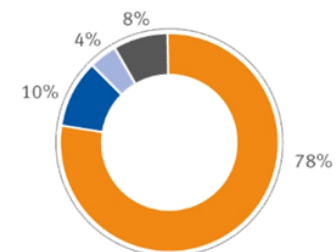
Data: since start



in progress	24
completed	12
continuation outside NCCR	4
dropout	4
Total	44

Next employer of doctoral and postdoctoral students

Data: since start



Academic sector	56
Private sector	7
Public sector	3
Other	0
None/not known	6
Total	72

NCCR QSIT

Quantum Science and Technology

NCCR Director: Prof. Klaus Ensslin, NCCR Co-Director: Prof. Richard Warburton
Home Institutions: ETH Zurich, University of Basel
Start date: 1st of January 2011 (3rd NCCR series)



Heads of Research Groups

Prof. **Johann Blatter**, Institut für Theoretische Physik, ETH Zürich
Prof. **Christoph Bruder**, Departement Physik, Universität Basel
Prof. **Nicolas Brunner**, Département de Physique Théorique, Université de Genève
Prof. **Christian Degen**, Laboratorium für Festkörperphysik, ETH Zürich
Prof. **Klaus Ensslin**, Laboratorium für Festkörperphysik, ETH Zürich
Prof. **Tilman Esslinger**, Institut für Quantenelektronik, ETH Zürich
Prof. **Jérôme Faist**, Institut für Quantenelektronik, ETH Zürich
Prof. **Anna Fontcuberta i Morral**, Laboratoire des matériaux semiconducteurs, EPFL
Dr. **Andreas Fuhrer**, IBM Research – Zürich Rüschlikon
Prof. **Jonathan Home**, Institut für Quantenelektronik, ETH Zürich
Prof. **Thomas Ihn**, Laboratorium für Festkörperphysik, ETH Zürich
Prof. **Atac Imamoglu**, Institut für Quantenelektronik, ETH Zürich
Prof. **Tobias Kippenberg**, Laboratoire de photonique et mesures quantiques, EPFL
Prof. **Jelena Klinovaja**, Departement Physik, Universität Basel
Prof. **Daniel Loss**, Departement Physik, Universität Basel
Prof. **Patrick Maletinsky**, Departement Physik, Universität Basel
Prof. **Alberto Morpurgo**, Département de physique de la matière quantique, Université de Genève
Prof. **Lukas Novotny**, Department Informationstechnologie und Elektrotechnik, ETH Zürich
Prof. **Martino Poggio**, Departement Physik, Universität Basel
Dr. **Renato Renner**, Institut für Theoretische Physik, ETH Zürich
Dr. **Gian Salis**, IBM Research - Zürich Rüschlikon
Prof. **Christian Schönenberger**, Departement Physik, Universität Basel
Prof. **Philipp Treutlein**, Departement Physik, Universität Basel
Prof. **Andreas Wallraff**, Laboratorium für Festkörperphysik, ETH Zürich
Prof. **Richard Warburton**, Departement Physik, Universität Basel
Prof. **Werner Wegscheider**, Laboratorium für Festkörperphysik, ETH Zürich
Prof. **Stefan Willitsch**, Departement Chemie, Universität Basel
Prof. **Stefan Wolf**, Facoltà di Lugano, Scienze informatiche, Università della Svizzera Italiana
Prof. **Vanessa Wood**, Department Informationstechnologie und Elektrotechnik, ETH Zürich
Prof. **Hugo Zbinden**, GAP-Quantum Technologies, Université de Genève
Prof. **Dominik Zumbühl**, Departement Physik, Universität Basel

[Overview of all Research Projects](#)

Participating Institutions

Universität Basel (10 groups)/Université de Genève (3 groups)/Università della Svizzera Italiana Lugano (1 group)/EPFL (2 groups)/ETH Zürich (13 groups)/IBM Research Laboratory Rüschlikon (2 groups)

Members of the Review Panel

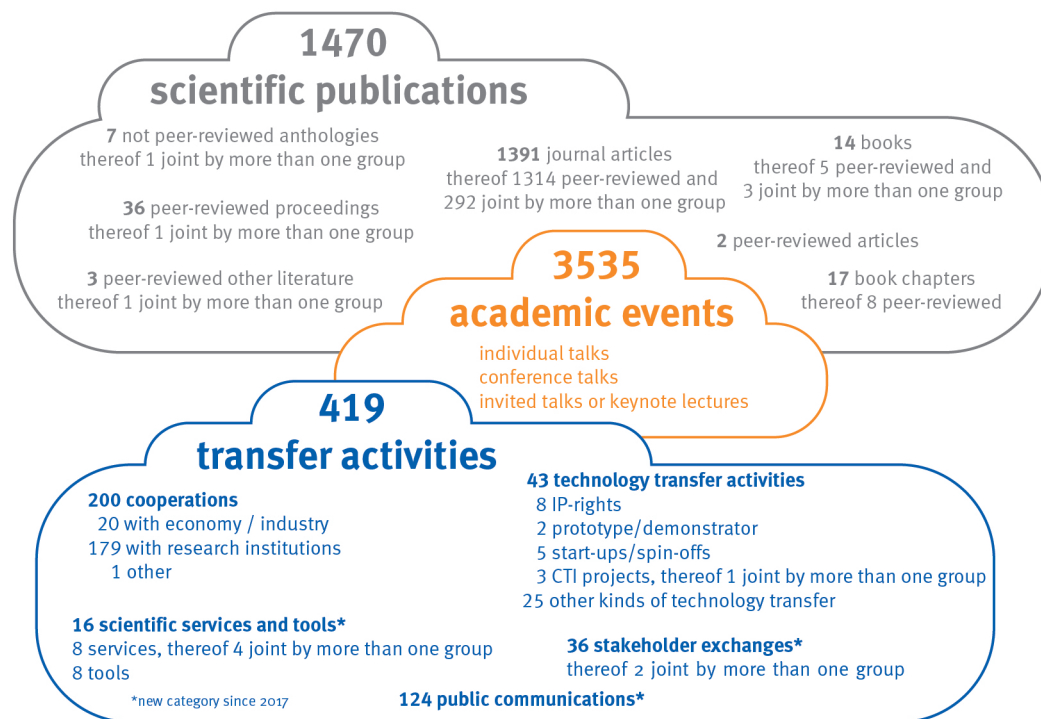
Prof. **Alain Aspect**, Laboratoire Charles Fabry, Institut d'Optique, Palaiseau, FR
Prof. **Guenther Bauer**, Institut für Halbleiter- und Festkörperphysik, Universität Linz, AT
Prof. **Jacqueline Bloch**, C2N-CNRS and UPSud, Marcoussis, FR
Prof. **Elisabeth Giacobino**, Laboratoire Kastler Brossel, Université Pierre et Marie Curie, Paris, FR
Prof. **Leonid Glazman**, Department of Physics, Yale University, New Haven, US
Prof. **Moty Heiblum**, Braun Center for Submicron Research, Weizmann Institute of Science, IL
Prof. **Dieter Jaksch**, Clarendon Laboratory, University of Oxford, UK
Prof. **Elke Scheer**, Fachbereich Physik, Universität Konstanz, DE
Prof. **Gerd Schön**, Institut für Theoretische Festkörperphysik, Karlsruher Institut für Technologie, DE

Prof. **Friedrich Eisenbrand** (Chair), SNF, Bern, CH
Prof. **Jean-François Molinari**, SNF, Bern, CH
Prof. **N.N.**, SNF, Bern, CH

Management/Coordination

Klara Berg
ETH Zürich
NCCR QSIT
Laboratorium für Festkörperphysik
Otto-Stern-Weg 1
CH-8093 Zürich
+41 44 633 38 44
www.nccr-qsit.ethz.ch

Output Data
Data: since start



Key collaborations with third parties

Academia

L.D. Landau Institute of Theoretical Physics, RUS
Keio University Yokohama, ITOH group, JP
Istituto di Fotonica e Nanotecnologie, IT
Dept. of Physics, National University, SIN
Inst. für Theoretische Physik, University of Innsbruck, AT
Ecole normale supérieure, FR
Quantum optics laboratory, Harvard University, Cambridge, US
Niels Bohr Institute, Copenhagen, DK
Department of material science, Tohoku University, JP
Département de Physique, Université de Sherbrooke, CAN
Kavli Institute of NanoScience, Technische Universität Delft, NL
Fachhochschule Nordwestschweiz, Muttenz, CH
Stanford University, Stanford, US
University of Texas, Austin, US
National Institute for Material Science, Tsukuba, JP
NIST National Institute of Standards and Technology, Gaithersburg, US
Princeton University, US
University of Sydney, AUS
University of California, Berkeley, US
University of Oxford, UK
Imperial College London, UK
Max Planck Institute of Quantum Optics, DE
Laboratory for Micro and Nanotechnology, Paul Scherrer Institute, CH

Private and public sector

Microsoft Corporation, US
ID Quantique, CH
Zurich Instruments, CH
IBM, Yorktown Heights, US

Funding

Funding Source (CHF)	Total Phase 1 2011 - 2014	Total Phase 2 2015 - 2018	Total Phase 3 2019 - 2022	2019	2020	2021	2022	Phase 3 %
SNSF-funding ¹	17'301'437	20'703'916	14'975'000	3'616'000	3'786'334	3'786'333	3'786'333	29
Self-funding from Home Institution ²	17'394'837	17'374'595	14'841'035	3'599'720	3'732'105	3'777'105	3'732'105	29
Self-funding from project participants	18'759'166	29'395'878	21'093'882	6'103'382	5'565'500	4'877'500	4'547'500	41
3rd party-funding	171'450	0	48'000	12'000	12'000	12'000	12'000	1
Total	53'626'890	67'474'389	50'957'917	13'331'102	13'095'939	12'452'938	12'077'938	100

¹ incl. funding of transfer projects (strong Swiss franc package) in 2012, compensation for PhD salaries increase in 2015, flexibility grant in 2014, 2015, 2016, 2017 and 2018 and open research data grant in 2019

² Personnel costs, equipment and consumables, not included infrastructure and basic equipment

Persons involved

Personnel ³	Total of persons	Female %	CH	Top 5 – Most represented nations					Other nations
				DE	IT	RU	AT	IN	
Research associates	1	0	0	1	0	0	0	0	1
Doctoral students	69	25	19	15	5	4	3	2	23
Postdoctoral students	29	10	5	8	4	2	1	2	9
Senior researchers ⁴	38	8	14	12	3	1	1	0	8
Management ⁵	3.51	54	5	4	1	0	0	0	5
Other staff	12	0	5	4	1	0	0	0	2
Total	152.51	19	48	44	14	7	5	4	48

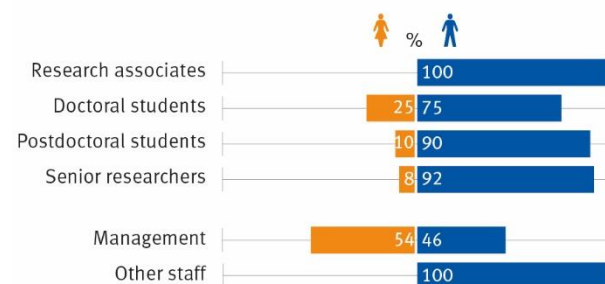
³ Persons involved in the NCCR in the last reporting period (12 months)

⁴ Including leaders of the individual projects and other organisational units of the NCCR

⁵ Full-time equivalent, including NCCR-Director and persons in charge of knowledge and technology transfer, equal opportunities, communication and education and training

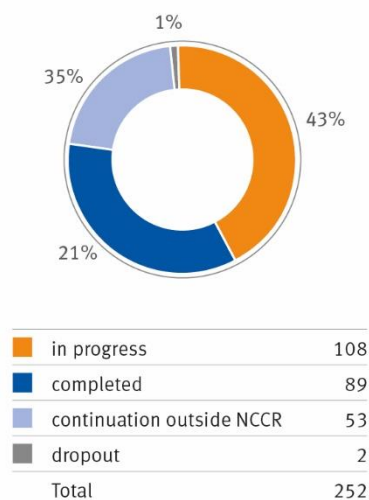
Gender in the NCCR

Data: current year



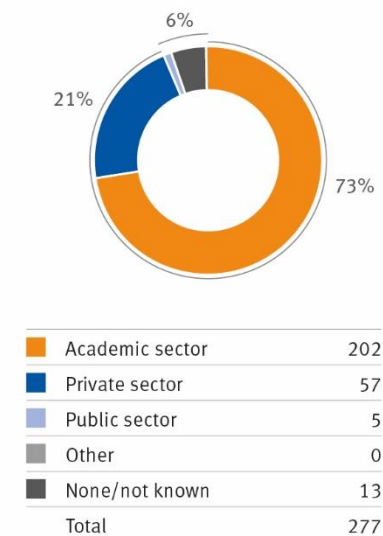
Training state of doctoral students

Data: since start



Next employer of doctoral and postdoctoral students

Data: since start



NCCR RNA & Disease

The Role of RNA in Disease Mechanisms



NCCR Director: Prof. Oliver Mühlemann, NCCR Co-Director: Prof. Frédéric Allain
Home Institutions: University of Bern, ETH Zurich
Start date: 1st of May 2014 (4th NCCR series)

Heads of Research Groups

Prof. **Frédéric Allain**, Departement Biologie, ETH Zürich
Prof. **Nenad Ban**, Departement Biologie, ETH Zürich
Prof. **Marc Bühler**, Friedrich Miescher Institute for Biomedical Research, Basel
Dr. **Jeffrey A. Chao**, Friedrich Miescher Institute for Biomedical Research, Basel
Prof. **Jacob Corn**, Departement Biologie, ETH Zürich
Prof. **Constance Ciaudo**, Departement Biologie, ETH Zürich
Prof. **David Gatfield**, Faculté de biologie et de médecine, Université de Lausanne
Dr. **Helge Grosshans**, Friedrich Miescher Institute for Biomedical Research, Basel
Prof. **Jonathan Hall**, Departement Chemie und Angewandte Biowissenschaften, ETH Zürich
Prof. **Michael N. Hall**, Biozentrum, Universität Basel
Prof. **Martin Jinek**, Biochemisches Institut, Universität Zürich
Prof. **Rory Johnson**, Department for BioMedical Research, Universität Bern
Prof. **Stefanie Jonas**, Departement Biologie, ETH Zürich
Prof. **Ulrike Kutay**, Departement Biologie, ETH Zürich
Prof. **Sebastian Leidel**, Departement für Chemie und Biochemie, Universität Bern
Prof. **Joachim Lingner**, Institut Suisse de Recherche Expérimentale sur le Cancer, EPFL
Prof. **Ana Marques**, Faculté de biologie et médecine, Université de Lausanne
Prof. **Oliver Mühlemann**, Departement für Chemie und Biochemie, Universität Bern
Prof. **Mariusz Nowacki**, Institut für Zellbiologie, Universität Bern
Prof. **Ramesh Pillai**, Département de biologie moléculaire, Université de Genève
Prof. **Norbert Polacek**, Departement für Chemie und Biochemie, Universität Bern
Prof. **Magdalini Polymenidou**, Institut für Molekulare Biologie, Universität Zürich
Prof. **André Schneider**, Departement für Chemie und Biochemie, Universität Bern
Prof. **Markus Stoffel**, Departement Biologie, ETH Zürich
Prof. **Mihaela Zavolan**, Biozentrum, Universität Basel

Overview of all Research Projects

Participating Institutions

Universität Basel (2 groups)/Universität Bern (6 groups)/Université de Genève (1 group)/Université de Lausanne (2 groups)/Universität Zürich (2 groups)/EPFL (1 group)/ETH Zürich (8 groups)/FMI Basel (3 groups)

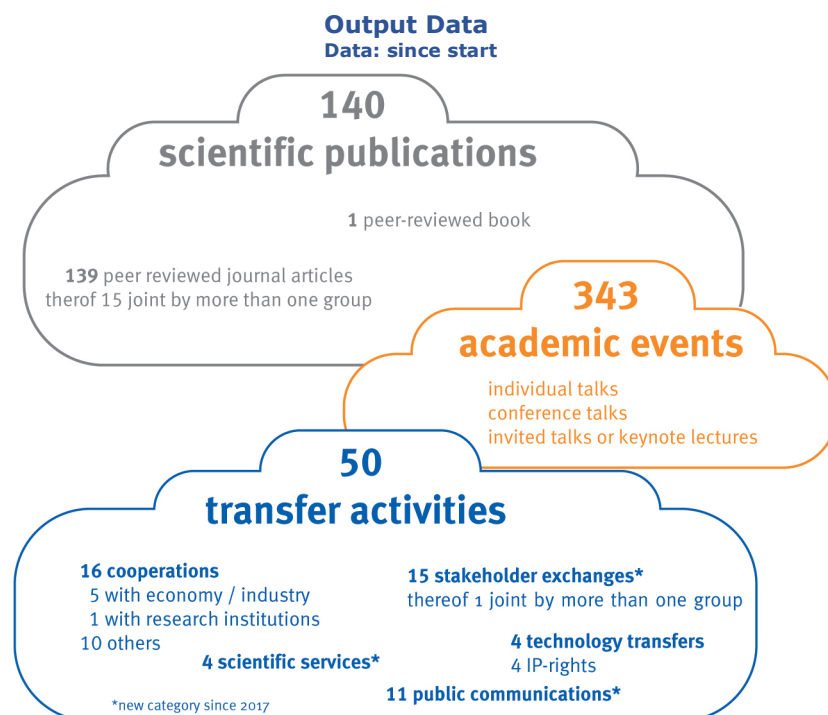
Members of the Review Panel

Prof. **Javier F. Caceres**, Institute of Genetics and Molecular Medicine, University of Edinburgh, UK
Prof. **Thomas A. Cooper**, Department of Pathology and Immunology, Baylor College of Medicine, US
Prof. **Bryan R. Cullen**, Department of Molecular Genetics and Microbiology, Duke University Medical Center, US
Prof. **Fátima Gebauer**, Centre for Genomic Regulation, Barcelona, ES
Prof. **Reinhard Lührmann**, Abteilung Zelluläre Biochemie, Max-Planck-Institut, DE
Prof. **Bertrand Séraphin**, IGBMC, CNRS, Illkirch, FR
Prof. **Maurice S. Swanson**, Department of Molecular Genetics and Microbiology, University of Florida, US

Prof. **Andreas Mayer** (Chair), SNF, Bern, CH
Prof. **Markus Affolter**, SNF, Bern, CH
Prof. **Denis Jabaudon**, SNF, Bern, CH

Management/Coordination

Dr. Dominik Theler
NCCR RNA & Disease
Departement für Chemie & Biochemie
Universität Bern
Freiestrasse 3
CH-3012 Bern
+41 31 631 38 12
www.nccr-rna-and-disease.ch



Key collaborations with third parties

Academia

Swiss Reference Center for Porphyrias, Triemli Hospital, Zurich, CH
Institute for Research in Biomedicine, Università della Svizzera italiana, Bellinzona, CH

Private and public sector

Fondation Dufloateau, Zürich, CH
Hofmann-La Roche, Basel, CH
Holcim Stiftung zur Förderung der wissenschaftlichen Forschung, Holderbank, CH
NOMIS Foundation, Samedan, CH
Novartis, Basel, CH
Promedica Stiftung, Chur, CH
Saverna, Allschwil, CH
Schweizerische Stiftung für die Erforschung der Muskelkrankheiten, SSEM, Cortaillod, CH
Skyhawk, Waltham, US
SMA Foundation, New York, US
T3 Pharmaceuticals AG, Basel, CH
Cure Spinal Muscular Atrophy, Illinois, US
Research and development fund University of Basel, Basel, CH
Ruth & Arthur Scherbarth Stiftung, Bern, CH

Funding

Funding Source (CHF)	Total Phase 1 2014 - 2017	Total Phase 2 2018 - 2021	2018	2019	2020	2021	Phase 2 %
SNSF-funding ¹	16'751'666	17'905'000	4'150'000	4'625'000	4'565'000	4'565'000	41
Self-funding from Home Institution ²	12'570'545	14'017'935	3'882'915	3'334'391	3'472'000	3'328'629	32
Self-funding from project participants	10'904'797	11'646'939	2'809'939	2'977'000	2'930'000	2'930'000	26
3rd party-funding	1'882'104	228'451	178'451	50'000	0	0	1
Total	42'109'112	43'798'325	11'021'305	10'986'391	10'967'000	10'823'629	100

¹ incl. flexibility grant in 2014, 2015, 2016 and 2017, mobility grant in 2015, 2016 and 2017 and open research data grant in 2019

² Personnel costs, equipment and consumables, not included infrastructure and basic equipment

Persons involved

Personnel ³	Total of persons	Female %	CH	Top 5 – Most represented nations					Other nations
				DE	IT	FR	IN	US	
Research associates	1	0	0	1	0	0	0	0	0
Doctoral students	54	61	17	5	7	2	3	2	19
Postdoctoral students	32	41	5	6	2	2	2	3	13
Senior researchers ⁴	57	25	11	11	4	4	4	4	20
Management ⁵	3.50	40	5	1	0	1	0	0	3
Other staff	32	69	14	4	3	3	0	0	8
Total	179.50	46	52	28	16	12	9	9	63

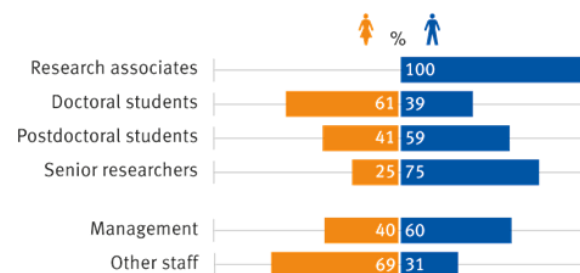
³ Persons involved in the NCCR in the last reporting period (12 months)

⁴ Including leaders of the individual projects and other organisational units of the NCCR

⁵ Full-time equivalent, including NCCR-Director and persons in charge of knowledge and technology transfer, equal opportunities, communication and education and training

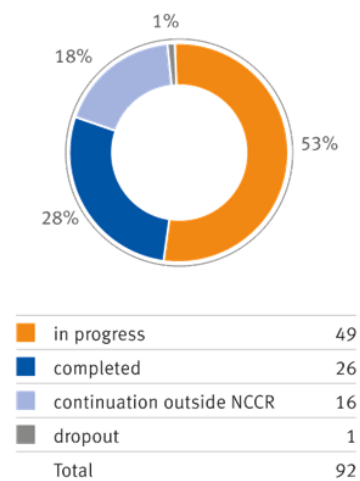
Gender in the NCCR

Data: current year



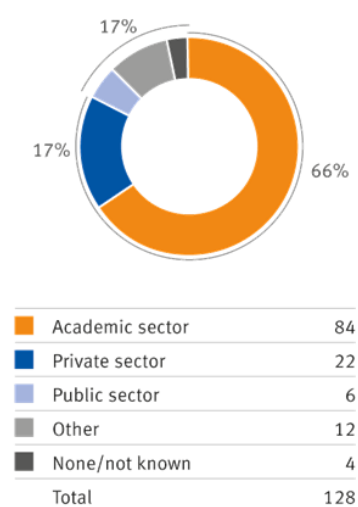
Training state of doctoral students

Data: since start



Next employer of doctoral and postdoctoral students

Data: since start



NCCR Robotics

Intelligent Robots for Improving the Quality of Life



NCCR Director: Prof. Dario Floreano, NCCR Co-Director: Prof. Robert Riener
Home Institutions: EPFL, ETH Zurich (since the 1st of December 2014)
Start date: 1st of December 2010 (3rd NCCR series)

Heads of Research Groups

Prof. **Aude Billard**, Learning Algorithms and Systems Laboratory (LASA), EPFL
Prof. **Margarita Chli**, Vision for Robotics Lab (V4RL), ETH Zürich
Prof. **Grégoire Courtine**, Chair in Spinal Cord Repair (IRP), EPFL
Prof. **Tobias Delbruck**, Institute of Neuroinformatics (INI), Universität Zürich
Prof. **Pierre Dillenbourg**, Computer Human Interaction in Learning and Instruction (CHILI), EPFL
Prof. **Dario Floreano**, Laboratory of Intelligent Systems (LIS), EPFL
Prof. **Luca Gambardella**, Istituto Dalle Molle di Studi sull'Intelligenza Artificiale (IDSIA)
Prof. **Roger Gassert**, Rehabilitation Engineering Laboratory (RELab), ETH Zürich
Prof. **Marco Hutter**, Robotics Systems Lab (RSL), ETH Zürich
Prof. **Auke Ijspeert**, Biorobotics Laboratory (BIORob), EPFL
Prof. **Stéphanie Lacour**, Laboratory for Soft Bioelectronic Interfaces (LSBI), EPFL
Prof. **Laura Marchal-Crespo**, ARTORG Center for Biomedical Engineering Research, Universität Bern
Prof. **Silvestro Micera**, Translational Neural Engineering Lab (TNE), EPFL
Prof. **Francesco Mondada**, Biorobotics Laboratory (BIORob), EPFL
Prof. **Jamie Paik**, Reconfigurable Robotics Laboratory (RRL), EPFL
Prof. **Robert Riener**, Sensory-Motor Systems Lab (SMS), ETH Zürich
Prof. **Davide Scaramuzza**, Robotics and Perception Group (RPG), Universität Zürich
Prof. **Roland Siegwart**, Autonomous Systems Lab (ASL), ETH Zürich

Heads of Associated Research Groups

Prof. **Alexandre Alahi**, Visual Intelligence for Transportation (VITA), EPFL
Prof. **David Atienza**, Embedded Systems Laboratory (ESL), EPFL
Prof. **Ori Bar-Nur**, Laboratory of Regenerative and Movement Biology, ETH Zürich
Prof. **Olaf Blanke**, Laboratory of Cognitive Neuroscience (LNCO), EPFL
Prof. **Stelian Coros**, Computational Robotics Lab (CRL), ETH Zürich
Prof. **Mirko Kovac**, Materials and Technology Centre of Robotics, EMPA
Prof. **Stanisa Raspopovic**, Institute of Robotics and Intelligent Systems (IRIS), ETH Zürich
Prof. **Selman Sakar**, MicroBioRobotic Systems (MICROROBS), EPFL

Overview of all Research Projects

Participating Institutions

Universität Bern (1 group)/Universität Zürich (2 groups)
EPFL (13 groups)/ETH Zürich (8 groups)/IDSIA (1 group)/EMPA (1 group)

Members of the Review Panel

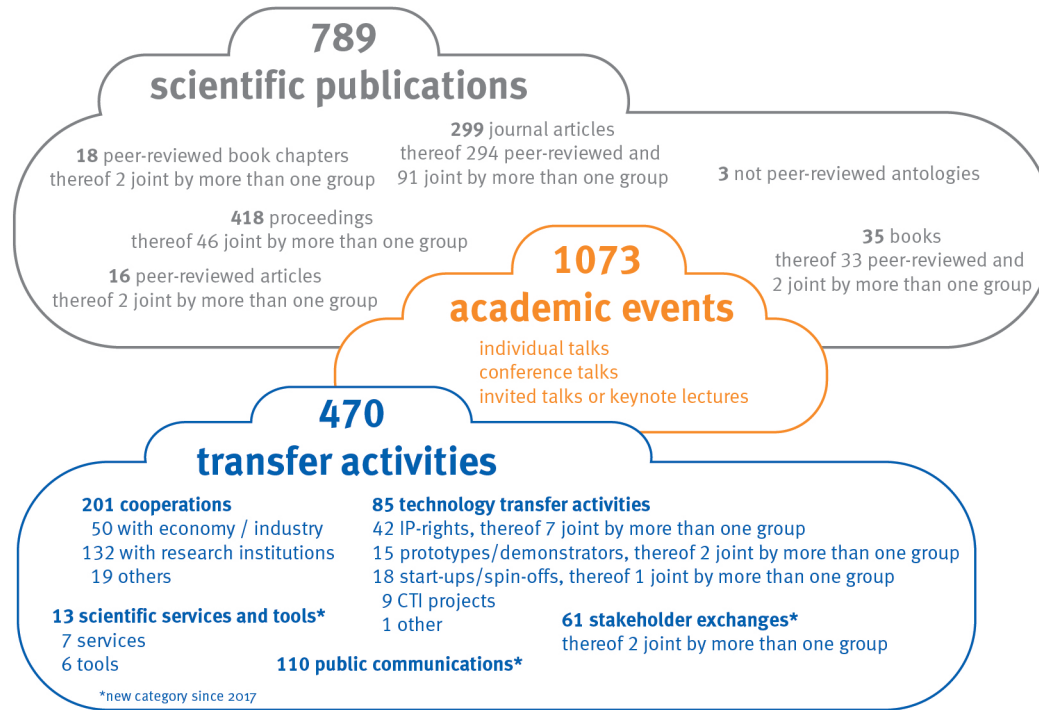
Prof. **Rüdiger Dillmann**, Institut für Anthropomatik und Robotik, Karlsruhe Institut für Technologie, DE
Prof. **Robert J. Full**, Department of Integrative Biology, University of California at Berkeley, US
Prof. **Verena Hafner**, Institut für Informatik, Humbolt-Universität, Berlin, DE
Dr. **Martin Hägele**, Google X, München DE
Prof. **William Harwin**, Biological Sciences, University of Reading, UK
Prof. **Katherine J. Kuchenbecker**, Max-Planck-Institut für intelligente Systeme, Stuttgart, DE
Prof. **David J. Reinkensmeyer**, Biorobotics Laboratory, Department of Mechanical and Aerospace Engineering, University of California at Irvine, US
Prof. **Carme Torras**, Institut de Robòtica i Informàtica Industrial (CSIC-UPC), ES

Prof. **Bert Müller** (Chair), SNF, Bern, CH
Prof. **Lothar Thiele**, SNF, Bern, CH
Prof. **N.N.**, SNF, Bern, CH

Management/Coordination

Dr. Jan Kerschgens, eMBA
EPFL-STI-PRN-ROBOTICS
MED 1 1526, Station 9
CH-1015 Lausanne
+41 21 693 01 78
www.nccr-robotics.ch

Output Data
Data: since start



Key collaborations with third parties

Academia

Biomimetic Millisystems Lab, UC Berkeley, US
 Biorobotics Institute, SSSA, IT
 Delft Biorobotics Lab, TU Delft, NL
 Deutsches Zentrum für Luft- und Raumfahrt, DE
 Dynamic Legged Systems Lab, IIT, IT
 Instituto Superior Técnico, PT
 NEUWalk (EU-FP7)
 Centre Hospitalier Universitaire Vaudois, CH
 Spinal Cord Injury Center, Balgrist University Hospital, CH

Private and public sector

Armassuisse, CH
 Clinique romande de réadaptation, Sion, CH
 Hocoma AG, Volketswil, CH
 Inilabs GmbH, Zürich, CH
 Zürcher RehaZentren | Klinik Wald, Wald, CH

Funding

Funding Source (CHF)	Total Phase 1 2010 - 2013	Total Phase 2 2014 - 2017	Total Phase 3 2018 - 2021	2018	2019	2020	2021	Phase 3 %
SNSF-funding ¹	13'391'024	15'336'237	11'250'000	2'676'625	2'924'459	2'824'458	2'824'458	55
Self-funding from Home Institution ²	6'126'703	12'091'453	8'098'945	1'086'445	2'937'500	2'037'500	2'037'500	39
Self-funding from project participants	10'387'838	5'055'707	1'314'858	1'314'858	0	0	0	6
3rd party-funding	115'360	0	0	0	0	0	0	0
Total	30'020'925	32'483'397	20'663'803	5'077'928	5'861'959	4'861'958	4'861'958	100

¹ incl. compensation for PhD salaries increase in 2014, flexibility grant in 2017 and 2018, mobility grant in 2017 and open research data grant in 2019

² Personnel costs, equipment and consumables, not included infrastructure and basic equipment

Persons involved

Personnel ³	Total of persons	Female %	CH	Top 5 – Most represented nations					Other nations
				IT	FR	DE	US	ES	
Research associates	1	0	1	0	0	0	0	0	0
Doctoral students	47	19	13	4	5	4	2	0	19
Postdoctoral students	8	25	0	3	1	0	2	1	2
Senior researchers ⁴	29	17	8	7	3	2	1	3	6
Management ⁵	5.07	44	9	2	1	3	0	1	2
Other staff	25	60	11	3	2	3	2	1	7
Total	115.07	30	42	19	12	12	7	6	36

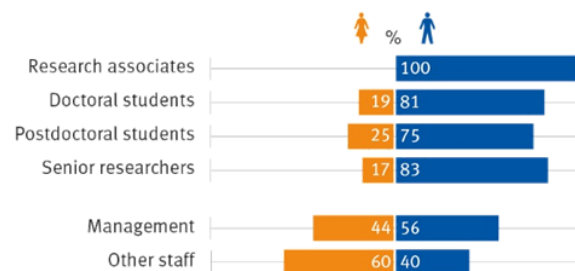
³ Persons involved in the NCCR in the last reporting period (12 months)

⁴ Including leaders of the individual projects and other organisational units of the NCCR

⁵ Full-time equivalent, including NCCR-Director and persons in charge of knowledge and technology transfer, equal opportunities, communication and education and training

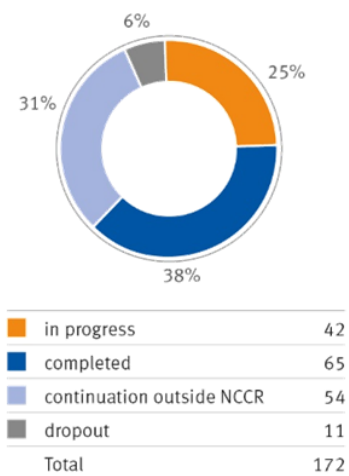
Gender in the NCCR

Data: current year



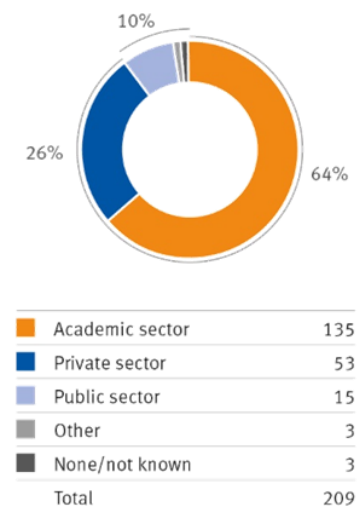
Training state of doctoral students

Data: since start



Next employer of doctoral and postdoctoral students

Data: since start



NCCR SwissMAP

The Mathematics of Physics



NCCR Director: Prof. Stanislav Smirnov, NCCR Co-Director: Prof. Giovanni Felder
Home Institutions: University of Geneva, ETH Zurich
Start date: 1st of July 2014 (4th NCCR series)

Heads of Research Groups

Prof. **Anton Alekseev**, Section de Mathématiques, Université de Genève
Prof. **Alberto Cattaneo**, Institut für Mathematik, Universität Zürich
Prof. **Giovanni Felder**, Departement Mathematik, ETH Zürich
Prof. **Matthias Gaberdiel**, Institut für Theoretische Physik, ETH Zürich
Prof. **Gian Michele Graf**, Institut für Theoretische Physik, ETH Zürich
Prof. **Wolfgang Lerche**, Theory Division, CERN
Prof. **Marcos Mariño Beiras**, Section de Mathématiques et Département de Physique Théorique, Université de Genève
Prof. **Rahul Pandharipande**, Departement Mathematik, ETH Zürich
Prof. **Stanislav Smirnov**, Section de mathématiques, Université de Genève

[Overview of all Research Projects](#)

Participating Institutions

Université de Genève (3 groups)/Universität Zürich (1 groups)
ETH Zürich (4 groups)/CERN (1 groups)

Members of the Review Panel

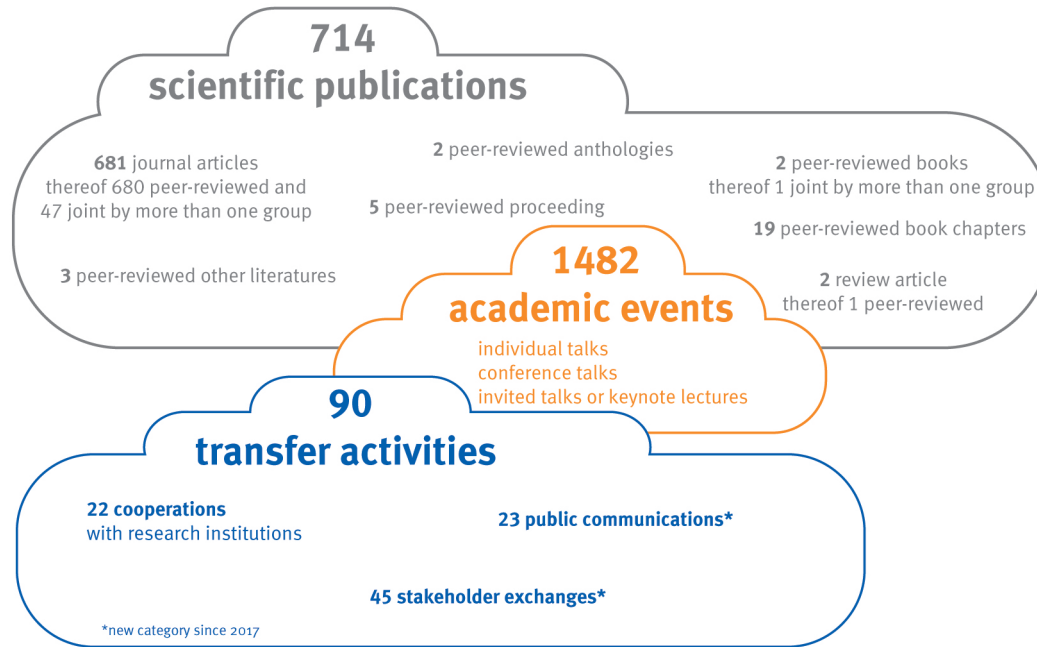
Prof. **François David**, Institut de Physique Théorique, CEA/DSM/IPhT, FR
Prof. **Krzysztof Gawedzki**, Ecole Normale Supérieure, FR
Prof. **Peter Goddard**, School of Natural Sciences, Institute for Advanced Study, US
Prof. **Daniel Huybrechts**, Institut für Mathematik, Universität Bonn, DE
Prof. **Herbert Spohn**, Zentrum Mathematik, TU München, DE
Prof. **Michèle Vergne**, Institut de Mathématiques de Jussieu, CNRS, FR

Prof. **Friedrich Eisenbrand** (Chair), SNF, Bern, CH
Prof. **Bert Müller**, SNF, Bern, CH
Prof. **Donna Testerman**, SNF, Bern, CH

Management / Coordination

Dr. Elise Raphael
Scientific Officer
NCCR SwissMAP
Section de mathématiques
Université de Genève
2-4 rue du Lièvre
1211 Genève 4
+41 22 379 11 44
www.nccr-swissmap.ch

Output Data
Data since start



Key collaborations with third parties

Academia

- Massachusetts Institute of Technology, US
- Columbia University, US
- Cornell University, US
- University of Chicago, US
- University of Michigan, US
- University of British Columbia, CA
- University of Toronto, CA
- Institut de Physique Théorique, CEA-Saclay, FR
- Université Paris-7, FR
- Université Claude Bernard Lyon 1, FR
- University of Cambridge, UK
- University of Oxford, UK
- University of Loughborough, UK
- University of Helsinki, FI
- Lund University, SE
- Technion - Israel Institute of Technology, IL
- Hebrew University of Jerusalem, IL
- HRI Allahabad, IN
- University of Chicago, US
- University of Michigan, US

Funding

Funding Source (CHF)	Total Phase 1 2014 - 2017	Total Phase 2 2018 - 2021	2018	2019	2020	2021	Phase 2 %
SNSF-funding ¹	11'209'000	10'647'527	2'807'527	3'113'400	2'400'000	2'326'600	34
Self-funding from Home Institution ²	6'601'311	8'308'760	1'924'258	2'103'302	2'140'600	2'140'600	27
Self-funding from project participants	10'614'917	12'293'052	3'015'552	3'092'500	3'092'500	3'092'500	39
3rd party-funding	0	0	0	0	0	0	0
Total	28'425'228	31'249'339	7'747'337	8'309'202	7'633'100	7'559'700	100

¹ incl. mobility grant in year 2017 and flexibility grant in year 2018

²Personnel costs, equipment and consumables, not included infrastructure and basic equipment

Persons involved

Personnel ³	Total of persons	Female %	CH	Top 5 – Most represented nations					Other nations
				IT	DE	FR	RU	GB	
Research associates ⁴	14	9	11	0	0	2	0	0	2
Doctoral students	81	15	17	12	10	3	10	0	31
Postdoctoral students	59	12	1	9	5	10	6	2	29
Senior researchers ⁵	70	7	14	15	9	5	6	5	23
Management ⁶	6.85	9	8	1	1	2	3	2	6
Other Staff	3	1	3	1	0	0	0	0	0
Total	233.85	22	54	38	25	22	25	9	91

³ Persons involved in the NCCR in the last reporting period (12 months)

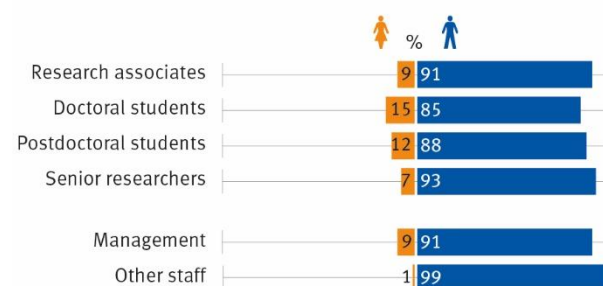
⁴ Includes graduate scientists (level master) but not registered as PhD students or undergraduate students participating in research projects.

⁵ Including leaders of the individual projects and other organisational units of the NCCR

⁶ Full-time equivalent, including NCCR-Director and persons in charge of knowledge and technology transfer, equal opportunities, communication and education and training

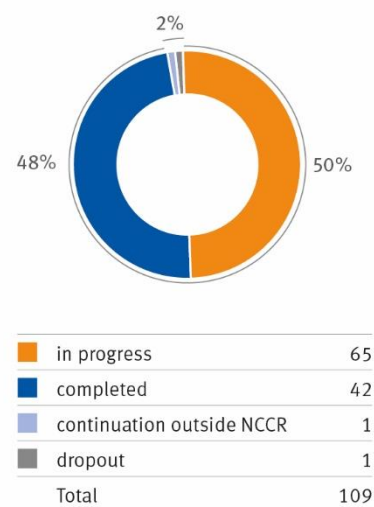
Gender in the NCCR

Data: current year



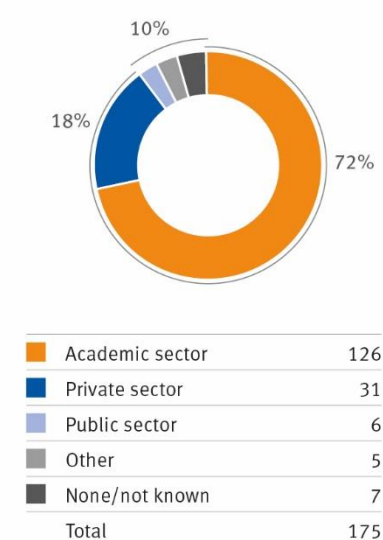
Training state of doctoral students

Data: since start



Next employer of doctoral and postdoctoral students

Data: since start



NCCR SYNAPSY

The synaptic bases of mental diseases



NCCR Director: Prof. Alexandre Dayer, NCCR Co-Directors: Prof. Carmen Sandi and Prof. Philippe Conus
Home Institutions: University of Geneva, EPFL, University of Lausanne
Start date: 1st of October 2010 (3rd NCCR series)

Heads of Research Groups

Prof. **Jean-Michel Aubry**, Service de Psychiatrie générale et Programme troubles de l'humeur, HUG-Hôpitaux Universitaires de Genève
Prof. **Claudia Bagni**, Département des neurosciences fondamentales (DNF), Université de Lausanne
Prof. **Camilla Bellone**, Département des neurosciences fondamentales (NEUFO), Université de Genève
Prof. **Olaf Blanke**, Brain Mind Institute, EPFL
Prof. **Alan Carleton**, Département des neurosciences fondamentales (NEUFO), Université de Genève
Prof. **Pico Caroni**, Friedrich Miescher Institute for Biomedical Research, Universität Basel
Prof. **Philippe Conus**, Service de Psychiatrie générale, Clinique psychiatrique universitaire, Cery-CHUV Lausanne
Prof. **Alexandre Dayer**, Département de Psychiatrie, Université de Genève
Prof. **Kim Do**, Centre de neurosciences psychiatriques, Unité de recherche sur la schizophrénie, Cery-CHUV Lausanne
Prof. **Stephan Eliez**, Département de Psychiatrie, Université de Genève
Prof. **Johannes Gräff**, Brain Mind Institute, EPFL
Prof. **Patric Hagmann**, Service de radiodiagnostic et radiologie interventionnelle, CHUV-Université de Lausanne
Prof. **Michael Herzog**, Brain Mind Institute, EPFL
Prof. **Kathryn Hess Bellwald**, Brain Mind Institute, EPFL
Prof. **Anthony Holtmaat**, Département des neurosciences fondamentales (NEUFO), Université de Genève
Prof. **Christian Lüscher**, Département des neurosciences fondamentales (NEUFO), Université de Genève
Prof. **Pierre Magistretti**, Centre de Neurosciences psychiatriques, Cery-CHUV Lausanne
Prof. **Pierre Marquet**, Unité mixte internationale en neurodéveloppement et psychiatrie infantile, Dept. Psychiatrie-CHUV, Université de Lausanne et Université Laval; Département de psychiatrie et neuroscience, Université Laval, Québec, Canada
Prof. **Jean Luc Martin**, Centre de Neurosciences psychiatriques, Cery-CHUV Lausanne
Prof. **Christoph Michel**, Département des neurosciences fondamentales (NEUFO), Université de Genève

Participating Institutions

Universität Basel/Friedrich-Miescher-Institut (1 group)/Université de Genève/HUG Genève (10 groups)/Université de Lausanne/CHUV Lausanne (8 groups)/EPFL (6 groups)

Members of the Review Panel

Prof. **Wade Berrettini**, Center for Neurobiology and Behavior, University of Pennsylvania School of Medicine, US
Prof. **Elisabeth Binder**, Max Planck Institute für Psychiatrie, München, DE
Prof. **Jamel Chelly**, Institut de génétique et de biologie moléculaire et cellulaire, Illkirch, FR
Prof. **Joseph Thomas Coyle**, McLean Hospital a Harvard Medical School Affiliate, US
Prof. **Takao K. Hensch**, Department Molecular & Cellular Biology, Department Neurology, Center for Brain Science, Harvard University, US
Prof. **Helmut Kettenmann**, Max Delbrück-Centrum für Molekulare Medizin, Berlin, DE
Prof. **Julio Licinio**, College of Medicine, Weiskotten Hall, Syracuse, New York, US
Prof. **Bitá Moghaddam**, Department of Behavioral Neurosciences, Oregon Health & Sci Univ, Portland, US
Prof. **Nicolas Rodondi** (Chair), SNF, Bern, CH
Prof. **Fritjof Helmchen**, SNF, Bern, CH
Prof. **N.N.**, SNF, Bern, CH

Management/Coordination

Dr. Anouchka Junod
NCCR Synapsy
Campus Biotech
Chemin des Mines 9
CH-1202 Genève
+41 22 379 11 21
www.nccr-synapsy.ch

Heads of Research Groups (continued)

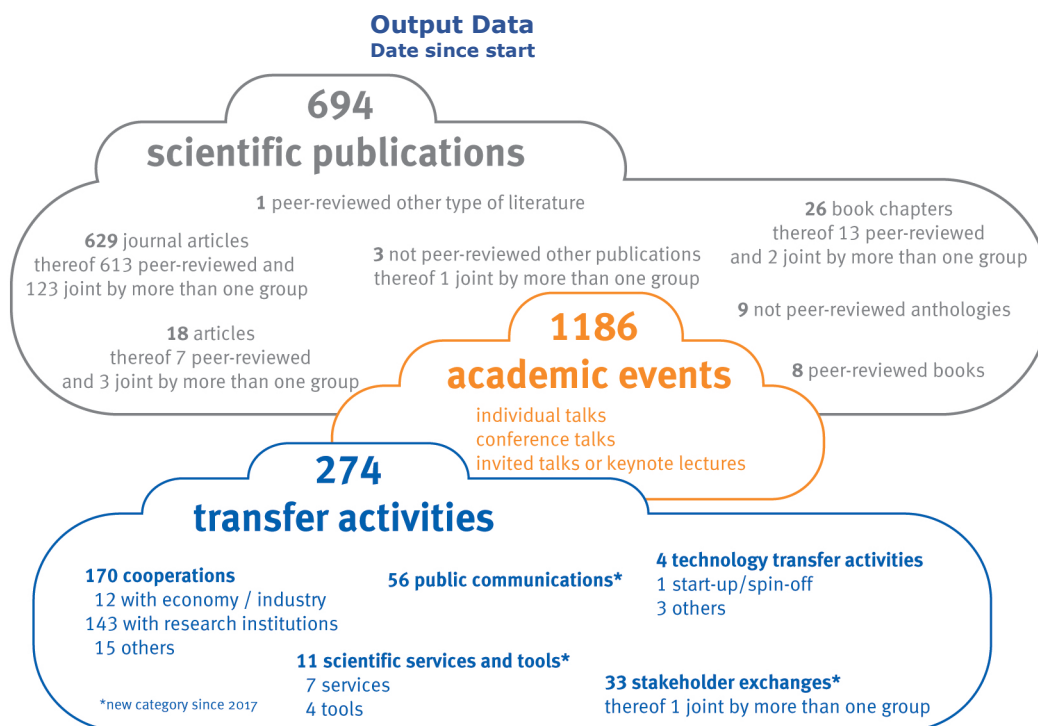
Prof. **Martin Preisig**, Unité mixte internationale en neurodéveloppement et psychiatrie infantile, Dept. Psychiatrie-CHUV, Université de Lausanne
 Prof. **Carmen Sandi**, Brain Mind Institute, EPFL
 Prof. **Marie Schaer**, Département de Psychiatrie, Université de Genève
 Prof. **Daniel Schechter**, Département de Psychiatrie, Université de Genève
 Prof. **Ralf Schneggenburger**, Brain Mind Institute, EPFL

[Overview of all Research Projects](#)

Key collaborations with third parties

Academia

University of Pennsylvania, US
 King's College London, UK
 Glasgow University, UK
 Albert Einstein College of Medicine Bronx, US
 Columbia University, US
 King's College London, UK
 North Carolina University, Chapel Hill, US
 Mannheim, DE
 NIMH, Bethesda, US
 Laval University, CA
 Munich University, DE
 NeuroSpin, Paris, FR
 McLean Hospital, Harvard, Boston, US
 Sainte-Anne Hospital, Paris, FR
 Simon Fraser University, Vancouver, CA
 INSERM, Gif-sur-Yvette, FR
 Mount Sinai, US
 Radboud University, Nijmegen, NL
 Langone School of Medicine NYU, US
 University of Oslo, SE



Funding

Funding Source (CHF)	Total Phase 1 2010 - 2013	Total Phase 2 2014 - 2017	Total Phase 3 2018 - 2021	2018	2019	2020	2021	Phase 3 %
SNSF-funding ¹	17'480'000	17'574'634	12'834'760	3'073'760	3'300'334	3'230'333	3'230'333	37
Self-funding from Home Institution ²	14'144'189	13'332'539	16'636'449	3'996'760	4'184'835	4'225'140	4'229'714	48
Self-funding from project participants	15'637'967	23'704'005	4'562'800	4'562'800	0	0	0	13
3rd party-funding	2'254'204	959'270	530'000	80'939	246'561	100'000	102'500	2
Total	49'516'360	55'570'448	34'564'009	11'714'259	7'731'730	7'555'473	7'562'547	100

¹ incl. compensation for PhD salaries increase in 2014, flexibility grant in 2016, 2017 and 2018 and open research data grant 2019

² Personnel costs, equipment and consumables, not included infrastructure and basic equipment

Persons involved

Personnel ³	Total of persons	Female %	CH	Top 5 – Most represented nations					Other nations
				FR	IT	DE	ES	US	
Research associates ⁴	29	83	13	7	2	0	2	0	5
Doctoral students	29	66	6	6	5	1	0	0	11
Postdoctoral students	23	61	4	4	5	0	0	2	9
Senior researchers ⁵	63	35	32	10	9	4	2	3	9
Management ⁶	2.79	50	4	1	0	0	1	0	1
Other staff	36	86	28	3	1	0	1	0	3
Total	182.79	61	87	31	22	5	6	5	38

³ Persons involved in the NCCR in the last reporting period (12 months)

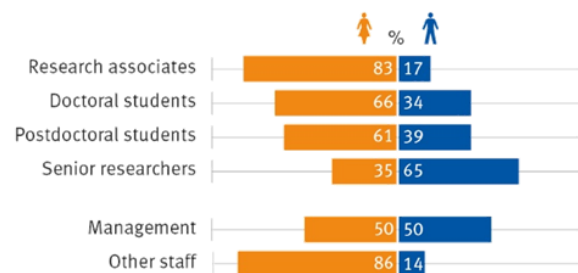
⁴ Includes graduate scientists (level master) but not registered as PhD students or undergraduate students participating in research projects.

⁵ Including leaders of the individual projects and other organisational units of the NCCR

⁶ Full-time equivalent, including NCCR-Director and persons in charge of knowledge and technology transfer, equal opportunities, communication and education and training

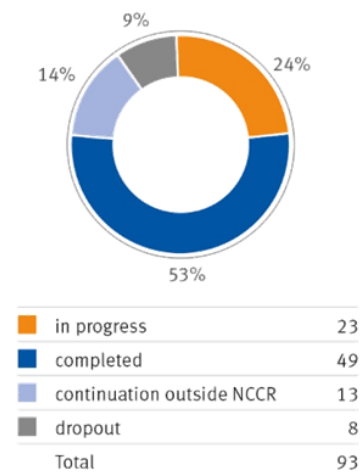
Gender in the NCCR

Data: current year



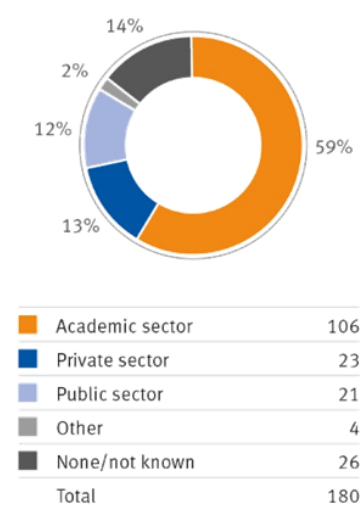
Training state of doctoral students

Data: since start



Next employer of doctoral and postdoctoral students

Data: since start



NCCR TransCure

From transport physiology to identification of therapeutic targets



NCCR Director: Prof. Hugues Abriel
Home Institution: University of Bern
Start date: 1st of November 2010 (3rd NCCR series)

Heads of Research Groups

Prof. **Hugues Abriel**, Institut für Biochemie und Molekulare Medizin, Universität Bern
Prof. **Christiane Albrecht**, Institut für Biochemie und Molekulare Medizin, Universität Bern
Prof. **Karl-Heinz Altmann**, Institut für Pharmazeutische Wissenschaften, ETH Zürich
Prof. **Murielle Bochud**, Institut Universitaire de Médecine Sociale et Préventive, Université de Lausanne
Prof. **Roch-Phillippe Charles**, Institut für Biochemie und Molekulare Medizin, Universität Bern
Prof. **Raimund Dutzler**, Biochemisches Institut, Universität Zürich
Prof. **Dimitrios J. Fotiadis**, Institut für Biochemie und Molekulare Medizin, Universität Bern
Prof. **Daniel G. Fuster**, Universitätsklinik für Nephrologie und Hypertonie, Inselspital Bern
Prof. **Jürg Gertsch**, Institut für Biochemie und Molekulare Medizin, Universität Bern
Prof. **Kaspar Locher**, Institut für Molekulare Biologie und Biophysik, ETH Zürich
Prof. **Martin Lochner**, Institut für Biochemie und Molekulare Medizin, Universität Bern
Prof. **Christine Peinelt**, Institut für Biochemie und Molekulare Medizin, Universität Bern
Prof. **Jean-Louis Reymond**, Departement für Chemie und Biochemie, Universität Bern
Prof. **Henning Stahlberg**, C-CINA, Biozentrum, Universität Basel
Prof. **Andrea Volterra**, Département des neurosciences fondamentales, Université de Lausanne

[Overview of all Research Projects](#)

Participating Institutions

Universität Basel (1 group)/Universität Bern (8 groups)/Université de Lausanne (2 groups)/Universität Zürich (1 group)/ETH Zürich (2 groups)
Inselspital Bern (1 group)

Members of the Review Panel

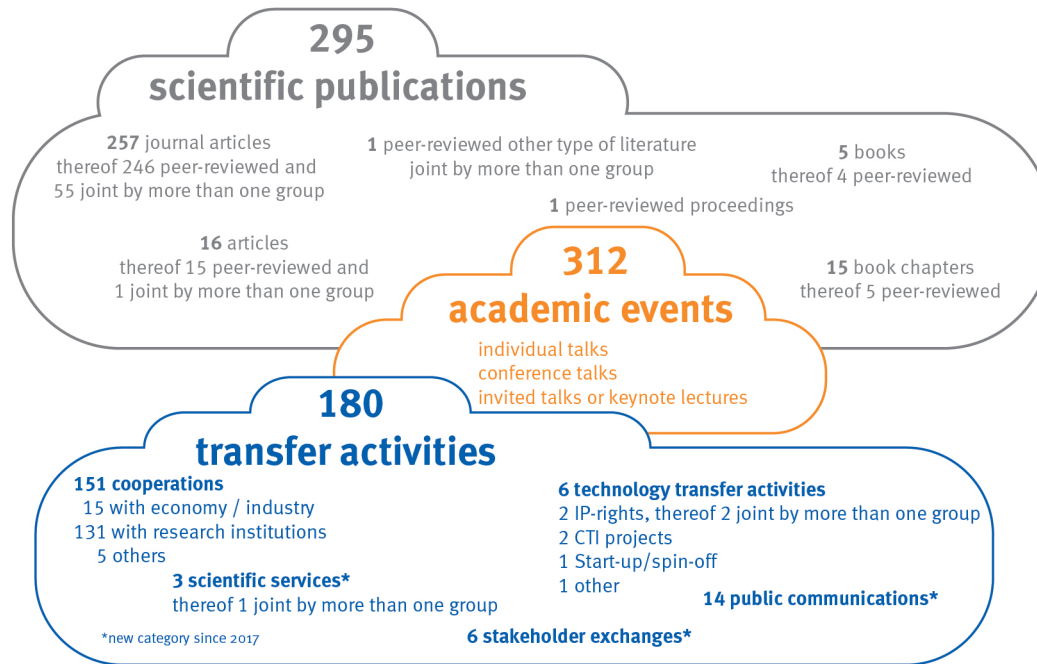
Prof. **Ruben Abagyan**, School of Pharmacy & Pharmaceutical Sciences, University of California, US
Prof. **Seth L. Alper**, Renal Division and Molecular and Vascular Medicine Unit, US
Prof. **Susan Bates**, Center for Cancer Research, National Cancer Institute, US
Prof. **Dennis A. Dougherty**, Division of Chemistry and Chemical Engineering, California Institute of Technology, US
Prof. **Jeanne M. Nerbonne**, Division of Biology and Biomedical Sciences, Washington University, US
Prof. **Lutz Schmitt**, Lehrstuhl für Biochemie, Heinrich Heine Universität, Düsseldorf, DE
Prof. **Hans Ulrich Stilz**, Academic Partnerships, Novo Nordisk A/S, DK
Prof. **Hendrik van Veen**, Department of Pharmacology, University of Cambridge, UK
Prof. **Da-Neng Wang**, Skirball Institute of Biomolecular Medicine, New York University School, US

Prof. **Andreas Mayer** (Chair), SNF, Bern, CH
Prof. **Michael Detmar**, SNF, Bern, CH
Prof. **N.N.**, SNF, Bern, CH

Management/Coordination

Dr. Valentina Rossetti
NFS TransCure
Bühlstrasse 28
CH-3012 Bern
+41 31 631 36 22
www.nccr-transcure.ch

Output Data
Data since start



Key collaborations with third parties

Academia

Free University of Brussels, Department of Structural Biology, Brussels, BE
 CNCR, Neuroscience Campus Amsterdam, VU University, Amsterdam, NL
 Departments of Pharmacology and Systems, Icahn School of Medicine at Mount Sinai, New York, US
 Computational Biomolecular Dynamics Group, MPI for Biophysical Chemistry, Göttingen, DE
 Inselspital, Urology department, Bern, CH
 Department of Biochemistry and Biophysics, Stockholm University, Stockholm, SWE
 Department of neuroscience, University of Uppsala, Uppsala, SWE
 University Hospital Lausanne, Department of Laboratory, Lausanne, CH
 Telethon Institute of Genetics and Medicine, TIGEM, Pozzuoli, IT
 Food Science & Human Nutrition Dept., University of Florida, Gainesville, US
 Department of Physiology, Johns Hopkins University, Baltimore, US
 Dept. of Physiology, University of Cambridge, Cambridge, UK
 Heart Institute, University of Ottawa, Ottawa, CA
 Institut du Thorax, Université de Nantes, Nantes, FR
 University of Guadalajara, University Center of Exact Sciences and Engineering, Guadalajara, MX
 Institute of Pharmacy, University of Regensburg, Regensburg, DE
 Division of Child Health, Obstetrics & Gynaecology, University of Nottingham, Nottingham, UK

Private and public sector

Dr. August Wolff GmbH, Bielefeld, DE
 Vifor Pharma, Villars-sur-Glâne, CH
 Novartis, Basel, CH

Funding

Funding Source (CHF)	Total Phase 1 2010 - 2013	Total Phase 2 2014 - 2017	Total Phase 3 2018 - 2021	2018	2019	2020	2021	Phase 3 %
SNSF-funding ¹	14'155'000	11'782'452	7'609'184	2'067'800	2'035'384	1'833'000	1'673'000	34
Self-funding from Home Institution ²	4'590'667	4'349'751	4'867'768	1'268'492	1'208'815	1'190'600	1'199'861	21
Self-funding from project participants	13'846'209	12'680'191	10'113'459	2'110'959	2'705'000	2'592'500	2'705'000	44
3rd party-funding	335'080	656'305	229'355	200'305	29'050	0	0	1
Total	32'926'956	29'468'699	22'819'766	5'647'556	5'978'249	5'616'100	5'577'861	100

¹ incl. compensation for PhD salaries increase in 2014, flexibility grant in 2015, 2016, 2017, 2018, mobility grant in 2019 and open research data grant in 2019

² Personnel costs, equipment and consumables, not included infrastructure and basic equipment

Persons involved

Personnel ³	Total of persons	Female %	CH	Top 5 – Most represented nations					Other nations
				IT	DE	FR	IN	PL	
Research associates	1	0	1	0	0	0	0	0	0
Doctoral students	26	54	13	1	1	4	2	2	4
Postdoctoral students	9	67	2	0	1	1	2	0	3
Senior researchers ⁴	36	25	14	9	5	3	0	1	7
Management ⁵	3.04	58	5	2	2	0	0	1	4
Other staff	20	60	11	3	3	1	0	0	3
Total	95.04	46	46	15	12	9	4	4	21

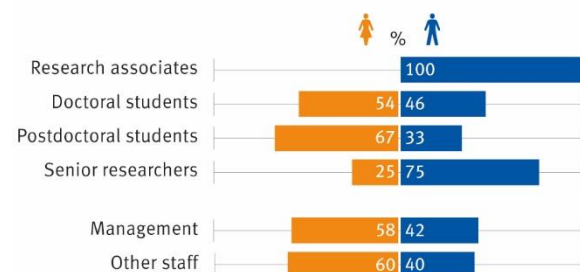
³ Persons involved in the NCCR in the last reporting period (12 months)

⁴ Including leaders of the individual projects and other organisational units of the NCCR

⁵ Full-time equivalent, including NCCR-Director and persons in charge of knowledge and technology transfer, equal opportunities, communication and education and training

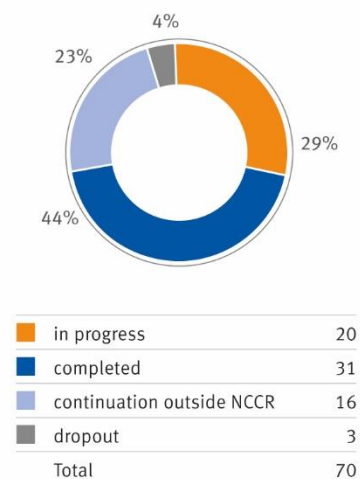
Gender in the NCCR

Data: current year



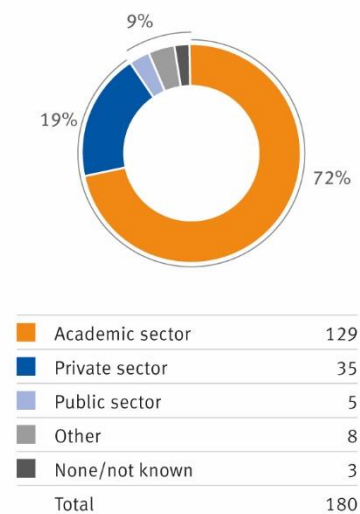
Training state of doctoral students

Data: since start



Next employer of doctoral and postdoctoral students

Data: since start



Impressum

The brochure "Guide" presents an overview on the currently running NCCRs. The statistical data is based on the latest progress reports of the NCCRs submitted during 2019. It is updated every year and can be downloaded as a pdf on our website: www.snsf.ch/Publications

Published by

Swiss National Science Foundation Wildhainweg 3, P.O. Box,
CH-3001 Berne +41 31 308 22 22
nccr@snf.ch
www.snsf.ch

Editing and production

Thomas Griessen, Yolanda Curletto, Ötkür Maimaiti

Graphic support

kong.gmbh, Bienne

© 2019 Swiss National Science Foundation, Berne