Guide 2018
National Centres of Competence in Research
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1. The NCCRs at a glance

Overview of NCCR Calls

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<tr>
<th>NCCR Call</th>
<th>Submitted pre-proposals</th>
<th>Submitted full proposals</th>
<th>Approved proposals</th>
<th>Years of operation</th>
</tr>
</thead>
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<tr>
<td>1st Call (1999)*</td>
<td>82</td>
<td>34</td>
<td>14</td>
<td>2001-2013</td>
</tr>
<tr>
<td>3rd Call (2008)</td>
<td>54</td>
<td>28</td>
<td>8</td>
<td>2010-2022</td>
</tr>
<tr>
<td>4th Call (2011)</td>
<td>63</td>
<td>23</td>
<td>8</td>
<td>2014-2026</td>
</tr>
</tbody>
</table>

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

3rd Call of NCCRs

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

4th Call of NCCRs

<table>
<thead>
<tr>
<th>Short Name</th>
<th>NCCR-Director</th>
<th>Home Institutions</th>
<th>Starting date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bio-Inspired Materials</td>
<td>Prof. Christoph Weder</td>
<td>University of Fribourg</td>
<td>June 1, 2014</td>
</tr>
<tr>
<td>Digital Fabrication</td>
<td>Prof. Philippe Block</td>
<td>ETH Zurich</td>
<td>June 1, 2014</td>
</tr>
<tr>
<td>MARVEL</td>
<td>Prof. Nicola Marzari</td>
<td>EPFL</td>
<td>May 1, 2014</td>
</tr>
<tr>
<td>Molecular Systems Engineering</td>
<td>Prof. Thomas R. Ward</td>
<td>University of Basel, ETH Zurich</td>
<td>July 1, 2014</td>
</tr>
<tr>
<td>On the Move</td>
<td>Prof. Gianni D'Amato</td>
<td>University of Neuchatel</td>
<td>June 1, 2014</td>
</tr>
<tr>
<td>PlanetS</td>
<td>Prof. Willy Benz</td>
<td>University of Bern, University of Geneva</td>
<td>June 1, 2014</td>
</tr>
<tr>
<td>RNA &amp; Disease</td>
<td>Prof. Oliver Mühlemann</td>
<td>University of Bern, ETH Zurich</td>
<td>May 1, 2014</td>
</tr>
<tr>
<td>SwissMAP</td>
<td>Prof. Stanislav Smirnov</td>
<td>University of Geneva, ETH Zurich</td>
<td>July 1, 2014</td>
</tr>
</tbody>
</table>
### 3rd Call of NCCRs: Funding in phase 1 and phase 2: 2014–2017

<table>
<thead>
<tr>
<th>Funding source (CHF)</th>
<th>Phase 1</th>
<th>2014</th>
<th>2015</th>
<th>2016</th>
<th>2017</th>
<th>2017</th>
<th>Phase 2 total</th>
</tr>
</thead>
<tbody>
<tr>
<td>SNSF funding</td>
<td>124'694'314</td>
<td>35'731'620</td>
<td>34'725'876</td>
<td>32'718'514</td>
<td>25'391'760</td>
<td>128'567'770</td>
<td></td>
</tr>
<tr>
<td>Self-funding from Home Institutions¹</td>
<td>72'822'637</td>
<td>19'543'888</td>
<td>22'300'756</td>
<td>19'300'989</td>
<td>21'250'403</td>
<td>82'396'036</td>
<td></td>
</tr>
<tr>
<td>Self-funding from project participants</td>
<td>95'700'593</td>
<td>28'830'363</td>
<td>28'501'861</td>
<td>27'364'200</td>
<td>21'656'233</td>
<td>106'352'657</td>
<td></td>
</tr>
<tr>
<td>Third-party funding</td>
<td>9'461'241</td>
<td>793'527</td>
<td>613'760</td>
<td>698'203</td>
<td>439'329</td>
<td>2'544'819</td>
<td></td>
</tr>
<tr>
<td>Total</td>
<td>302'678'785</td>
<td>84'899'398</td>
<td>86'142'253</td>
<td>80'081'906</td>
<td>68'737'725</td>
<td>319'861'282</td>
<td></td>
</tr>
</tbody>
</table>

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

### 4th Call of NCCRs: Funding in phase 1: 2014–2017

<table>
<thead>
<tr>
<th>Funding source (CHF)</th>
<th>2014</th>
<th>2015</th>
<th>2016</th>
<th>2017</th>
<th>Phase 1 total</th>
</tr>
</thead>
<tbody>
<tr>
<td>SNSF funding</td>
<td>29'989'032</td>
<td>30'810'179</td>
<td>31'396'526</td>
<td>31'111'749</td>
<td>123'307'486</td>
</tr>
<tr>
<td>Self-funding from Home Institutions¹</td>
<td>8'216'016</td>
<td>12'519'487</td>
<td>17'162'775</td>
<td>21'910'040</td>
<td>59'808'318</td>
</tr>
<tr>
<td>Self-funding from project participants</td>
<td>15'821'639</td>
<td>18'995'924</td>
<td>20'900'355</td>
<td>13'355'539</td>
<td>69'073'457</td>
</tr>
<tr>
<td>Third-party funding</td>
<td>1'040'486</td>
<td>973'176</td>
<td>3'890'142</td>
<td>440'000</td>
<td>6'343'804</td>
</tr>
<tr>
<td>Total</td>
<td>55'067'173</td>
<td>63'298'766</td>
<td>73'349'798</td>
<td>66'817'328</td>
<td>258'533'065</td>
</tr>
</tbody>
</table>

² Not included is CTI funding
Funding of the NCCRs

Funding 3rd Call NCCRs

Funding 4th Call NCCRs

Funding source
- SNSF funding
- Self-funding from Home institutions
- Self-funding from project participants
- Third-party funding
## Persons involved in the NCCRs in the last reporting period (12 months)

### 3rd and 4th Call of NCCRs

<table>
<thead>
<tr>
<th>Personnel</th>
<th>Total of Persons</th>
<th>Female</th>
<th>Male</th>
<th>Swiss</th>
<th>Other nationalities</th>
</tr>
</thead>
<tbody>
<tr>
<td>Research associates¹</td>
<td>125</td>
<td>56</td>
<td>88</td>
<td>52</td>
<td>27</td>
</tr>
<tr>
<td>Doctoral students</td>
<td>668</td>
<td>244</td>
<td>458</td>
<td>186</td>
<td>209</td>
</tr>
<tr>
<td>Postdoctoral students</td>
<td>490</td>
<td>147</td>
<td>359</td>
<td>50</td>
<td>186</td>
</tr>
<tr>
<td>Senior researchers²</td>
<td>707</td>
<td>156</td>
<td>589</td>
<td>283</td>
<td>166</td>
</tr>
<tr>
<td>Management³</td>
<td>84.18</td>
<td>113</td>
<td>118</td>
<td>138</td>
<td>38</td>
</tr>
<tr>
<td>Other staff</td>
<td>245</td>
<td>153</td>
<td>105</td>
<td>150</td>
<td>30</td>
</tr>
<tr>
<td>Total</td>
<td>2319</td>
<td>869</td>
<td>1717</td>
<td>859</td>
<td>656</td>
</tr>
</tbody>
</table>

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

![Gender Distribution Chart]

- Research associates: 39% Female, 61% Male
- Doctoral students: 35% Female, 65% Male
- Postdoctoral students: 29% Female, 71% Male
- Senior researchers: 21% Female, 79% Male
- Management: 49% Female, 51% Male
- Other staff: 59% Female, 41% Male
- Review Panel members: 27% Female, 73% Male
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. Michał Borkovec, Section de Chimie et Biochimie, Université de Genève
Prof. Carole Bourquin, Section Sciences Pharmaceutiques, Université de Genève
Prof. Joseph Brader, Physikdepartement, Universität Freiburg
Prof. Nico Bruns, Adolphe Merkle Institute, Faculty of Science, Universität Freiburg
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. Marco Lattuada, Departement Chemie, Universität Freiburg
Prof. Michael Mayer, Adolphe Merkle Institute, Faculty of Science, Universität Freiburg
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. Frank Scheffold, Physikdepartement, Universität Freiburg
Prof. Ulrich 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 Zurich
Prof. Christoph Weder, Adolphe Merkle Institute, Faculty of Science, Universität Freiburg
Prof. Andreas Zumbühl, Departement Chemie, Universität Freiburg

Overview of all Research Projects

Participating Institutions
Universität Freiburg (13 groups)/Université de Genève (2 groups)
EPFL (2 groups)/ETH Zürich (1 group)

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. Stephen Craig, Department of Chemistry, Duke University, US
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. Phillip B. Messersmith, Departments of Bioengineering and Materials Science and Engineering, University of California, Berkeley, US
Prof. Meital Reches, Institute of Chemistry, The Hebrew University of Jerusalem, IL

Prof. Anna Fontcuberta i Morral (Chair), SNF, Bern, CH
Dr. Marc Bohner, SNF, Bern, CH
Prof. Jan Carmeliet, 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

95 scientific publications
- 1 not peer-reviewed book
  thereof 1 joint by more than one group
- 5 peer-reviewed articles
  thereof 2 joint by more than one group

189 academic events
- 83 journal articles
  thereof 51 peer-reviewed and
  24 joint by more than one group
- 6 not peer-reviewed book chapters
- 93 cooperation
  - 24 with economy / industry
  - 62 with research institutions
  - 7 others

234 transfer activities
- 9 technology transfer activities
  - 4 IP rights
  - 2 prototypes/demonstrators
  - 3 CTI projects
- 14 public communications*
- 118 stakeholder exchanges*

Funding Source (CHF)

<table>
<thead>
<tr>
<th>Funding Source</th>
<th>Total Phase 1 2014 - 2017</th>
<th>2014</th>
<th>2015</th>
<th>2016</th>
<th>2017</th>
<th>Phase 1 %</th>
</tr>
</thead>
<tbody>
<tr>
<td>SNSF-funding</td>
<td>12'015'719</td>
<td>3'000'000</td>
<td>3'000'000</td>
<td>3'000'000</td>
<td>3'015'719</td>
<td>43</td>
</tr>
<tr>
<td>Self-funding from Home Institution</td>
<td>7'347'985</td>
<td>1'234'501</td>
<td>1'103'726</td>
<td>2'157'218</td>
<td>2'852'540</td>
<td>27</td>
</tr>
<tr>
<td>Self-funding from project participants</td>
<td>7'555'422</td>
<td>1'728'344</td>
<td>2'158'699</td>
<td>1'948'324</td>
<td>1'720'055</td>
<td>27</td>
</tr>
<tr>
<td>3rd party-funding</td>
<td>824'348</td>
<td>533'648</td>
<td>58'850</td>
<td>91'850</td>
<td>140'000</td>
<td>3</td>
</tr>
<tr>
<td>Total</td>
<td>27'743'474</td>
<td>6'496'493</td>
<td>6'321'275</td>
<td>7'197'392</td>
<td>7'728'314</td>
<td>100</td>
</tr>
</tbody>
</table>

1 incl. 120%-grant in year 2017
2 Personnel costs, equipment and consumables, not included infrastructure and basic equipment

Key collaborations with third parties

Academia
- Case Western Reserve University, Cleveland (OH), US
- University of Basel, CH
- University of Bayreuth, DE
- Bulgarian Academy of Sciences, BG
- University of California, Los Angeles, US
- University of California, Irvine, US
- Philipps Universität Marburg, DE
- University of Bordeaux, FR
- Zurich University of Applied Sciences, CH
- University of Cambridge, UK
- Albert-Ludwigs-Universität Freiburg, DE
- Université de Strasbourg, FR
- Erasmus University Medical Center, NL

Private and public sector
- BASF Schweiz AG, CH
- Artimelt AG, CH
- Firmenich SA, CH
- Ivoclar Vivadent AG, LI
- LS Instruments AG, CH
- regenHU Ltd., CH
Persons involved

<table>
<thead>
<tr>
<th>Personnel</th>
<th>Total of persons</th>
<th>Female %</th>
<th>CH</th>
<th>Top 5 – Most represented nations</th>
<th>Other nations</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>DE</td>
<td>FR</td>
</tr>
<tr>
<td>Doctoral students</td>
<td>40</td>
<td>55</td>
<td>8</td>
<td>9</td>
<td>4</td>
</tr>
<tr>
<td>Postdoctoral students</td>
<td>15</td>
<td>53</td>
<td>0</td>
<td>2</td>
<td>3</td>
</tr>
<tr>
<td>Senior researchers</td>
<td>26</td>
<td>23</td>
<td>7</td>
<td>10</td>
<td>2</td>
</tr>
<tr>
<td>Management</td>
<td>4.99</td>
<td>42</td>
<td>8</td>
<td>1</td>
<td>0</td>
</tr>
<tr>
<td>Other staff</td>
<td>11</td>
<td>55</td>
<td>9</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>Total</td>
<td>96.99</td>
<td>45</td>
<td>32</td>
<td>23</td>
<td>10</td>
</tr>
</tbody>
</table>

* Persons involved in the NCCR in the last reporting period (12 months)
* Including leaders of the individual projects and other organisational units of the NCCR
* 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

<table>
<thead>
<tr>
<th>Personnel</th>
<th>% total</th>
<th>Male</th>
<th>Female</th>
</tr>
</thead>
<tbody>
<tr>
<td>Doctoral students</td>
<td>55.55%</td>
<td>45</td>
<td>15</td>
</tr>
<tr>
<td>Postdoctoral students</td>
<td>53.37%</td>
<td>37</td>
<td>16</td>
</tr>
<tr>
<td>Senior researchers</td>
<td>23.77%</td>
<td>23</td>
<td>7</td>
</tr>
<tr>
<td>Management</td>
<td>42.58%</td>
<td>58</td>
<td>25</td>
</tr>
<tr>
<td>Other staff</td>
<td>55.45%</td>
<td>55</td>
<td>45</td>
</tr>
</tbody>
</table>

Training state of doctoral students
Data: since start

- In progress: 34
- Completed: 5
- Continuation outside NCCR: 4
- Dropout: 3
- Total: 46

Next employer of doctoral and postdoctoral students
Data: since start

- Academic sector: 14
- Private sector: 9
- Public sector: 0
- Other: 1
- None/not known: 2
- Total: 26
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. Nicolai Cramer, Institut des sciences et ingénierie chimiques, ISIC, EPFL
Prof. Beat Fierz, Institut des sciences et ingénierie chimiques, ISIC, EPFL
Prof. Pierre Gönczy, Institut suisse de recherche expérimentale sur le cancer (ISREC), EPFL
Prof. Marcos Gonzalez Gaitan, Département de Biochimie, Université de Genève
Prof. Monica Gotta, Faculté de Médecine, Université de Genève
Prof. Elena Goun, Institut des sciences et ingénierie chimiques, ISIC, EPFL
Prof. Jean Gruenberg, Département de Biochimie, Université de Genève
Prof. Oliver Hantschel, Institut suisse de recherche expérimentale sur le cancer (ISREC), EPFL
Prof. Christian Heinis, Institut des sciences et ingénierie chimiques, ISIC, EPFL
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
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
Prof. Andreas Zumbühl, Département de Chimie, Université de Fribourg

Overview of all Research Projects

Participating Institutions
Université de Fribourg (1 group)/Université de Genève (12 groups)
EPFL (11 groups)

Members of the Review Panel
Prof. Pieter Cullis, Department of Biochemistry, Life Sciences Center, CA
Dr. Walter Fischli, Idorsia Pharmaceuticals Ltd, CH
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. Katharina Fromm, SNF, Bern, CH
Prof. Bernard Thorens, SNF, Bern, CH

Management/Coordination
Dr. Phaedra Simitsek
Université de Genève
Sciences II, sale 146
30 quai Ernest Ansermet
CH-1211 Genève 4
+41 22 379 64 07
www.nccr-chembio.ch
Output Data
Data: since start

427 scientific publications
- 4 peer-reviewed books
  - thereof 1 joint by more than one group
- 1 peer-reviewed proceeding
- 8 peer-reviewed articles
  - thereof 1 joint by more than one group
- 11 peer-reviewed book chapters
- 402 journal articles
  - thereof 388 peer-reviewed and
  - 56 joint by more than one group

629 academic events
- individual talks
- conference talks
- invited talks or keynote lectures

240 transfer activities
- 70 cooperations
  - 14 with economy / industry
  - 51 with research institutions
  - 5 others
- 61 technology transfer activities
  - 11 IP rights
  - 6 licenses
  - 8 start-ups/spin-offs
  - 7 CTI projects
  - 29 other kind of technology transfer,
  - thereof 12 joint by more than one group
- 77 stakeholder exchanges*
- 30 public communications*
*new category since 2012

Funding

<table>
<thead>
<tr>
<th>Funding Source (CHF)</th>
<th>Total Phase 1</th>
<th>Total Phase 2</th>
<th>2014</th>
<th>2015</th>
<th>2016</th>
<th>2017</th>
<th>Phase 2</th>
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<td>1'138'774</td>
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<td>33'004'336</td>
<td>9'136'802</td>
<td>9'432'065</td>
<td>7'523'417</td>
<td>6'912'052</td>
<td>100</td>
</tr>
</tbody>
</table>

1 incl. funding of transfer projects (strong Swiss franc package) in 2012 and compensation for PhD salaries increase in 2014
2 Personnel costs, equipment and consumables, not included infrastructure and basic equipment

Key collaborations with third parties

Research Institutions
- Biozentrum, University of Basel, CH
- Curie Institute Orsay, FR
- ETHZ, Zurich, CH
- INEREM, 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
- Scripps research institute, Florida, US

Private and public sector
- Geneva Business School, Geneva, CH
- Neworks, New York, US
- NCCR Transcure, Bern, CH
- NCCR RNA & Disease, Bern, CH
- Swiss Integrative Center for Human Health (SICHH), Fribourg, CH
- Swiss Federal Institute of Intellectual Property (IPI), Bern, CH
- School of Management, Fribourg, CH
- SystemsX, Zurich, CH
- TCI Europe N.V., Zwijndrecht, BE
## Persons involved

<table>
<thead>
<tr>
<th>Personnel²</th>
<th>Total of persons</th>
<th>Female %</th>
<th>CH</th>
<th>Top 5 – Most represented nations</th>
<th>Other nations</th>
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<tr>
<td>Research associates³</td>
<td>19</td>
<td>26</td>
<td>5</td>
<td>FR</td>
<td>7</td>
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<tr>
<td>Doctoral students</td>
<td>36</td>
<td>44</td>
<td>5</td>
<td>DE</td>
<td>6</td>
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<tr>
<td>Postdoctoral students</td>
<td>26</td>
<td>35</td>
<td>2</td>
<td>ES</td>
<td>6</td>
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<tr>
<td>Senior researchers⁵</td>
<td>27</td>
<td>22</td>
<td>9</td>
<td>IT</td>
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<td>Management⁶</td>
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<td>Other staff</td>
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<td>Other nations</td>
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<td>Total</td>
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</table>

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**

<table>
<thead>
<tr>
<th>Personnel</th>
<th>Female %</th>
<th>Male %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Research associates</td>
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<td>74</td>
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<tr>
<td>Doctoral students</td>
<td>44</td>
<td>56</td>
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<tr>
<td>Postdoctoral students</td>
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<td>65</td>
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<tr>
<td>Senior researchers</td>
<td>22</td>
<td>78</td>
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<tr>
<td>Management</td>
<td>55</td>
<td>45</td>
</tr>
<tr>
<td>Other staff</td>
<td>80</td>
<td>20</td>
</tr>
</tbody>
</table>

### Training state of doctoral students

**Data: since start**

- In progress: 33%
- Completed: 33%
- Continuation outside NCCR: 29%
- Dropout: 5%
- Total: 91

### Next employer of doctoral and postdoctoral students

**Data: since start**

- Academic sector: 97%
- Private sector: 23%
- Public sector: 7%
- Other: 1%
- None/not known: 17%
- Total: 145
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. Robert Flatt, Institut für Baustoffe, ETH Zürich
Prof. Matthias Kohler, Departement Architektur, ETH Zürich
Prof. Yves Weinand, Laboratoire de construction en bois, EPFL
Prof. Melanie Zeilinger, Departement Maschinenbau und Verfahrenstechnik, ETH Zürich

Overview of all Research Projects

Participating Institutions
EPFL (1 group)/ETH Zürich (4 groups)

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 Softwaredesign 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. Oscar Nierstrasz, 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

57 scientific publications
- 3 peer-reviewed book chapters
  - thereof 1 joint by more than one group
- 20 journal articles
  - thereof 15 peer-reviewed and 1 joint by more than one group
- 10 proceedings
  - thereof 4 joint by more than one group
- 9 peer-reviewed articles
  - thereof 3 joint by more than one group
- 5 not peer-reviewed other publications
  - thereof 1 joint by more than one group
- 9 books
  - thereof 6 peer-reviewed and 2 joint by more than one group

105 academic events
- individual talks
- conference talks
- invited talks or keynote lectures

18 transfer activities
- 6 cooperations
  - with economy / industry
- 3 technology transfer activities
  - 1 IP-right, thereof 1 joint by more than one group
  - 1 start-up/spin-off
  - 1 CTI project
- 9 public communications
  - *new category since 2017

Funding

<table>
<thead>
<tr>
<th>Funding Source (CHF)</th>
<th>Total Phase 1</th>
<th>2014</th>
<th>2015</th>
<th>2016</th>
<th>2017</th>
<th>Phase 1 %</th>
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<tbody>
<tr>
<td>SNSF-funding</td>
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</table>

1 incl. 120% support-grant in 2016 and 2017
2 Personnel costs, equipment and consumables, not included infrastructure and basic equipment

Key collaborations with third parties
Private and public sector
- BAWO Befestigungstechnik AG
- ERNE AG Holzbau
- Gruschwitz GmbH Tech-Twists
- Krinner GmbH Schweiz
- Moog - Robotics & Autonomous Systems
- NOE Schaluntechnik GmbH
- Rotho Blaas GmbH
- SACAC AG
- Schilliger Holz AG
- Schlatter Industries AG
- Sika Technology AG
- Stahl Gerlafingen AG
- Steiner AG
- Sulser AG
### Persons involved

<table>
<thead>
<tr>
<th>Personnel</th>
<th>Total of persons</th>
<th>Female %</th>
<th>CH</th>
<th>Total of persons</th>
<th>Female %</th>
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<td>7</td>
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<td>4</td>
<td>4</td>
<td>3</td>
<td>37</td>
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</tbody>
</table>

\(^3\) 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

<table>
<thead>
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<td>Other staff</td>
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### Training state of doctoral students

Data: since start

- In progress: 23%
- Completed: 0%
- Continuation outside NCCR: 0%
- Dropout: 7%

Total: 30

### Next employer of doctoral and postdoctoral students

Data: since start

- Academic sector: 3
- Private sector: 0
- Public sector: 0
- Other: 0
- None/not known: 1

Total: 4
Kidney Control of Homeostasis

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

Heads of Research Groups
Prof. Murielle Bochud, Institut Universitaire de Médecine Sociale et Préventive, Universität de Lausanne
Prof. Olivier Bonny, Département de pharmacologie et de toxicologie, Université de Lausanne
Prof. Olivier Devuyst, Physiologisches Institut, Universität Zürich
Prof. Sophie De Seigneux, Département Physiologie cellulaire et métabolisme, Universität de Genève
Prof. Eric Feraille, Département Physiologie cellulaire et métabolisme, Universität de Genève
Prof. Andrew Hall, Anatomisches Institut, Universität Zürich
Prof. Edith Hummler, Département de Pharmacologie et Toxicologie, Universität de Lausanne
Prof. Uyen Huynh-Do, Département Nephrologie / Hypertonie, Universitätsspital Bern
Prof. Reto Krapf, Klinik St. Anna, Luzern
Prof. Vartan Kurtcuoglu, Physiologisches Institut, Universität Zürich
Dr. Andreas Pasch, University Institute of Clinical Chemistry, Center of Laboratory Medicine, Universitätsspital Bern
Prof. Johannes Loffing, Anatomisches Institut, Universität Zürich
Prof. Jean-Pierre Montani, Département de Médecine / Physiologie, Universität de Fribourg
Prof. Alex Odermatt, Pharmazentrum, Universität Basel
Prof. Olivier Staub, Département de Pharmacologie et Toxicologie, Universität de Lausanne
Prof. François Verrey, Physiologisches Institut, Universität Zürich
Prof. Carsten Wagner, Physiologisches Institut, Universität Zürich
Prof. Roland Wenger, Physiologisches Institut, Universität Zürich
Prof. Zhihong Yang, Département de Médecine / Physiologie, Universität de Fribourg

Participating Institutions
Universität Basel (Pharmazentrum) (1 group)/Université de Fribourg (2 groups)/Université de Genève (2 groups)/Université de Lausanne (4 groups)/Universität Zürich (7 groups)/Universitätsspital Bern (2 groups)
Klinik St. Anna Luzern (1 group)

Members of the Review Panel
Prof. Robert Alpern, Yale School of Medicine, US
Prof. Kai-Uwe Eckardt, Nephrologie und Hypertensiologie, Universitätshôpital Erlangen, DE
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. Michael O. Hottiger, SNF, Bern, CH
Prof. Markus Stoffel, SNF, Bern, CH

Overview of all Research Projects

Management/Coordination
Dr. Jens Selige
Scientific Project Manager
Universität Zürich
Physiologisches Institut
Winterthurerstrasse 190
CH-8057 Zürich
+41 44 635 59 68
www.nccr-kidney.ch
### Funding

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<th>Funding Source (CHF)</th>
<th>Total Phase 1 2010 - 2013</th>
<th>Total Phase 2 2014 - 2017</th>
<th>2014</th>
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<th>2016</th>
<th>2017</th>
<th>Phase 2 %</th>
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</thead>
<tbody>
<tr>
<td>SNSF-funding¹</td>
<td>16'530'000</td>
<td>16'568'958</td>
<td>4'518'915</td>
<td>4'402'000</td>
<td>4'424'043</td>
<td>3'224'000</td>
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<td>2'168'316</td>
<td>4'937'784</td>
<td>1'133'042</td>
<td>1'017'346</td>
<td>1'702'396</td>
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<tr>
<td>Self-funding from project participants</td>
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<td>748'689</td>
<td>620'943</td>
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<td>6'168'035</td>
<td>6'747'382</td>
<td>4'309'000</td>
<td>100</td>
</tr>
</tbody>
</table>

¹ incl. compensation for PhD salaries increase in 2014 and 120%-grant in 2016
² Personnel costs, equipment and consumables, not included infrastructure and basic equipment

### Key collaborations with third parties

**Academia**
- Department of Physiology and Pharmacology, University of Salamanca, ES
- Dept. of Physiology, University College London, GB
- Division of Osteoporosis, University of Berne, CH
- Human Genetics Unit, Medical Research Council, Edinburgh, GB
- Institute of molecular bioscience, University of Tokyo, JP
- Institute of Physiology, Universitäät Tuebingen, DE
- 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
- NHLBI, Framingham Hear Study, US
- Oncology - Medical Imaging, University Hospital Zurich, CH

**Private and public sector**
- Insphero AG, Zurich, CH
- Novartis, Basel, CH
- Calciscon AG, Bern, CH
## Persons involved

<table>
<thead>
<tr>
<th>Personnel</th>
<th>Total of persons</th>
<th>Female %</th>
<th>CH</th>
<th>Top 5 – Most represented nations</th>
<th>Other nations</th>
</tr>
</thead>
<tbody>
<tr>
<td>Research associates&lt;sup&gt;4&lt;/sup&gt;</td>
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<td>3</td>
<td>1</td>
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<tr>
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<td>9</td>
<td>44</td>
<td>2</td>
<td>2</td>
<td>0</td>
</tr>
<tr>
<td>Postdoctoral students</td>
<td>11</td>
<td>36</td>
<td>1</td>
<td>1</td>
<td>2</td>
</tr>
<tr>
<td>Senior researchers&lt;sup&gt;5&lt;/sup&gt;</td>
<td>36</td>
<td>39</td>
<td>16</td>
<td>4</td>
<td>5</td>
</tr>
<tr>
<td>Management&lt;sup&gt;6&lt;/sup&gt;</td>
<td>4.37</td>
<td>56</td>
<td>5</td>
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<td>75.37</td>
<td>48</td>
<td>34</td>
<td>11</td>
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</tbody>
</table>

<sup>3</sup>Persons involved in the NCCR in the last reporting period (12 months)

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

<sup>5</sup>Including leaders of the individual projects and other organisational units of the NCCR.

<sup>6</sup>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

<table>
<thead>
<tr>
<th>Personnel</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Research associates</td>
<td>40 (60)</td>
</tr>
<tr>
<td>Doctoral students</td>
<td>44 (56)</td>
</tr>
<tr>
<td>Postdoctoral students</td>
<td>36 (64)</td>
</tr>
<tr>
<td>Senior researchers</td>
<td>39 (61)</td>
</tr>
<tr>
<td>Management</td>
<td>56 (44)</td>
</tr>
<tr>
<td>Other staff</td>
<td>90 (10)</td>
</tr>
</tbody>
</table>

### Training state of doctoral students

- In progress: 8
- Completed: 2
- Continuation outside NCCR: 16
- Dropout: 5
- Total: 31

### Next employer of doctoral and postdoctoral students

- Academic sector: 41
- Private sector: 10
- Public sector: 4
- Other: 3
- None/not known: 4
- Total: 62
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-François Bickel, Haute école de travail social de Fribourg, Haute école spécialisée de Suisse occidentale
Prof. Giuliano Bonoli, Institut de hautes études en administration publique, Université de Lausanne
Prof. Jean-Michel Bonvin, Institut de socio-économie, Université de Genève
Prof. Felix Bühlmann, Centre de recherche sur les parcours de vie et les inégalités, Université de Lausanne
Prof. Eric Davoine, Chaire Ressources Humaines et Organisation, Université de Fribourg
Prof. Jörg Dittmann, Hochschule für Soziale Arbeit, Fachhochschule Nordwestschweiz
Prof. Alexandra Freund, Psychologisches Institut, Universität Zürich
Prof. Paolo Ghisletta, Faculté de psychologie et des sciences de l’Education, Université de Genève
Prof. Daniela Jopp, Institut de psychologie, Université de Lausanne
Prof. Dominique Joye, Centre de recherche sur les parcours de vie et les inégalités, Université de Lausanne
Prof. Matthias Kliegel, Laboratoire du Vieillissement Cognitif, Université de Genève
Prof. Rafael Lalive, Département d’économétrie et d’économie politique, Université de Lausanne
Prof. Nicky Le Feuvre, Laboratoire de sociologie, Université de Lausanne
Prof. Daniel Oesch, Centre de recherche sur les parcours de vie et les inégalités, Université de Lausanne
Prof. Michel Oris, Centre inter-facultaire de gérontologie et d’études des vulnérabilités, Université de Genève
Prof. Michele Pellizzari, Département des Sciences Économiques, Université de Genève
Prof. José Ramirez, Haute école de gestion de Genève, Haute école spécialisée de Suisse occidentale
Prof. Gilbert Ritschard, Institut d’études démographiques et du parcours de vie, Université de Genève
Prof. Jérôme Rossier, Laboratoire de psychologie du développement, conseil et Intervention, Université de Lausanne
Prof. Willibald Ruch, Psychologisches Institut, Universität Zürich

Participating Institutions
Universität Bern (1 group)/Université de Fribourg (1 group)/Université de Genève (6 groups)/Université de Lausanne (11 groups)/Universität Zürich (2 groups)/Fachhochschule Nordwestschweiz (1 group)/Haute école spécialisée de Suisse occidentale (1 group)/

Members of the Review Panel
Prof. Alain Chenu, 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, INED – Institut national d’études démographiques, 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. Alexander Grob (Chair), SNF, Bern, CH
Prof. Uschi Backes-Gellner, SNF, Bern, CH
Prof. Jörg Rössel, SNF, Bern, CH

Management/Coordination
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Scientific Officer
NCCR LIVES
Université de Lausanne
Bâtiment Géopolis
CH-1015 Lausanne
+41 21 692 38 52
www.lives-nccr.ch
Heads of Research Groups (continued)
Prof. Dario Spini, Centre de recherche sur les parcours de vie et les inégalités, Université de Lausanne
Prof. Christian Staerklé, Laboratoire de psychologie sociale, Université de Lausanne
Prof. Jean-Pierre Tabin, Haute école de travail social et de la santé de Lausanne, Haute école spécialisée de Suisse occidentale
Prof. Boris Wernli, Fondation Suisse pour la recherche en Sciences Sociales, Université de Lausanne
Prof. Eric Widmer, Institut d’études démographiques et du parcours de vie, Université de Genève
Prof. Hansjörg Znoj, Institut für Psychologie, Universität Bern

Overview of all Research Projects

Output Data
Data: since start

802 scientific publications
415 peer-reviewed journal articles
59 books
19 peer-reviewed proceedings
90 other type of literatures
219 book chapters

1082 academic events
Individual talks
Conference talks
Invited talks or keynote lectures

1359 transfer activities
160 cooperations
  6 with economy / industry
  95 with research institutions
  59 others
723 public communications*
476 stakeholder exchanges*

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 Ford Center for Healthy Children and Families, Corvallis, US
Population Europe – Network of Europe’s leading demographic research centres, Berlin, DE
Umeå University, Ageing and Living Conditions Programme, SE
University College London, International Centre for Lifecourse Studies in Society and Health, UK
University of Bremen, Institut für Soziologie, Bremen, DE
University of Oslo, Centre of Gender Research, Oslo, NO
University of Western Ontario, Department of Sociology, London, CA
Vrije Universiteit Amsterdam, Amsterdam, NL

Private and public sector
Centre de compétence suisse en sciences sociales (FORS), Lausanne, CH
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
German Institute for Economic Research, Department of German Socio-Economic Panel Study, Berlin, DE
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

<table>
<thead>
<tr>
<th>Funding Source (CHF)</th>
<th>Total Phase 1 2011 - 2014</th>
<th>Total Phase 2 2015 - 2018</th>
<th>2015</th>
<th>2016</th>
<th>2017</th>
<th>2018</th>
<th>Phase 2 %</th>
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</thead>
<tbody>
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<td>SNSF-funding(^1)</td>
<td>14'551'895</td>
<td>14'745'512</td>
<td>4'536'156</td>
<td>4'327'952</td>
<td>3'553'404</td>
<td>2'328'000</td>
<td>35</td>
</tr>
<tr>
<td>Self-funding from Home Institutions(^2)</td>
<td>5'636'219</td>
<td>13'898'717</td>
<td>3'279'265</td>
<td>3'103'830</td>
<td>3'541'010</td>
<td>3'974'612</td>
<td>33</td>
</tr>
<tr>
<td>Self-funding from project participants</td>
<td>13'721'239</td>
<td>12'747'620</td>
<td>3'230'016</td>
<td>3'146'074</td>
<td>3'110'006</td>
<td>3'261'524</td>
<td>30</td>
</tr>
<tr>
<td>3rd party-funding</td>
<td>5'440'407</td>
<td>935'538</td>
<td>168'901</td>
<td>248'081</td>
<td>278'706</td>
<td>239'850</td>
<td>2</td>
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<tr>
<td>Total</td>
<td>39'349'760</td>
<td>42'327'387</td>
<td>11'214'338</td>
<td>10'825'937</td>
<td>10'483'126</td>
<td>9'803'986</td>
<td>100</td>
</tr>
</tbody>
</table>

1 incl. Mobility-grant in 2014 and 2015, compensation for PHD salaries increase in 2015 and 120% support-grant in 2015, 2016 and 2017
2 Personnel costs, equipment and consumables, not included infrastructure and basic equipment
### Persons involved

<table>
<thead>
<tr>
<th>Personnel(^a)</th>
<th>Total of persons</th>
<th>Female %</th>
<th>CH</th>
<th>Top 5 – Most represented nations</th>
<th>Other nations</th>
</tr>
</thead>
<tbody>
<tr>
<td>Research associates(^d)</td>
<td>25</td>
<td>42</td>
<td>14</td>
<td>4</td>
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<tr>
<td>Doctoral students</td>
<td>49</td>
<td>44</td>
<td>22</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>Postdoctoral students</td>
<td>19</td>
<td>37</td>
<td>9</td>
<td>6</td>
<td>0</td>
</tr>
<tr>
<td>Senior researchers(^5)</td>
<td>77</td>
<td>26</td>
<td>46</td>
<td>9</td>
<td>7</td>
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<tr>
<td>Management(^6)</td>
<td>8.93</td>
<td>37</td>
<td>17</td>
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<td>0</td>
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<tr>
<td>Other staff</td>
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<td>41</td>
<td>10</td>
<td>5</td>
<td>1</td>
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<tr>
<td>Total</td>
<td>194.93</td>
<td>36</td>
<td>118</td>
<td>28</td>
<td>12</td>
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</tbody>
</table>

\(^a\) Persons involved in the NCCR in the last reporting period (12 months)

\(^d\) 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

<table>
<thead>
<tr>
<th>Personnel</th>
<th>Total</th>
<th>Female %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Research associates</td>
<td>42</td>
<td>58</td>
</tr>
<tr>
<td>Doctoral students</td>
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<td>56</td>
</tr>
<tr>
<td>Postdoctoral students</td>
<td>37</td>
<td>53</td>
</tr>
<tr>
<td>Senior researchers</td>
<td>26</td>
<td>74</td>
</tr>
<tr>
<td>Management</td>
<td>37</td>
<td>63</td>
</tr>
<tr>
<td>Other staff</td>
<td>41</td>
<td>59</td>
</tr>
</tbody>
</table>

### Training state of doctoral students

Data: since start

- In progress: 28
- Completed: 42
- Continuation outside NCCR: 25
- Dropout: 10

Total: 105

### Next employer of doctoral and postdoctoral students

Data: since start

- Academic sector: 57
- Private sector: 9
- Public sector: 30
- Other: 1
- None/not known: 6

Total: 103
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. Raffaela Buonsanti, Institut des sciences et ingénierie chimiques, EPFL
Prof. Michele Ceriotti, Institut des matériaux, EPFL
Dr. Claudia Cancelleri, Fügetechnologie und Korrosion, Empa Dübendorf
Prof. Clémence Corminboeuf, Institut des sciences et ingénierie chimiques, EPFL
Prof. Volkan Cevher, Institut de génie électrique et électronique, EPFL
Dr. Alessandro Curioni, IBM Research GmbH, Rueschlikon
Prof. William Curtin, Institut de génie mécanique, EPFL
Prof. Antoine Georges, Department of Quantum Matter Physics, Université de Genève
Prof. Stefan Goedecker, Departement Physik, Universität Basel
Dr. Pierangelo Gröning, Moderne Materialien und Oberflächen, Empa Dübendorf
Prof. Michele Parrinello, Facoltà di scienze informatiche, Università della Svizzera Italiana, Lugano and Departement Chemie und Angewandte Biowissenschaften, ETH Zürich

Participating Institutions
Universität Basel (2 groups)/Universität Bern (1 group)/Université de Fribourg (1 group)/Université de Genève (3 groups)/Università della Svizzera Italiana (1 group)/Universität Zürich (1 group)/EPFL (13 groups)/ETH Zürich (4 groups)/Centro Svizzero di Calcolo Scientifico (2 groups)/Empa (4 groups)/IBM Research GmbH (1 group)/Paul Scherrer Institut (12 groups)

Management / Coordination
Dr. Lidia Favre-Quattropani
Dr. Nathalie Jongen
NCCR MARVEL
EPFL STI PRN-MARVEL
Station 9
CH-1015 Lausanne
+41 21 693 48 80
+41 21 693 46 96
www.nccr-marvel.ch
Heads of Research Groups (continued)

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
Dr. Grigory Smolentsev, Bioenergy and Catalysis Laboratory, PSI Villigen
Prof. Nicola Spaldin, Departement Materialwissenschaft, ETH Zürich
Dr. Urs Staub, Laboratory for Condensed Matter Physics, PSI Villigen
Prof. Matthias Troyer, Institut für Theoretische Physik, ETH Zürich
Prof. Dirk van der Marel, Department of Quantum Matter Physics, Université de Genève
Dr. Joost VandeVondele, Centro Svizzero di Calcolo Scientifico (CSCS), Lugano
Prof. Anatoile von Lilienfeld, Departement Chemie, Universität Basel
Prof. Philipp Werner, Département de Physique, Université de Fribourg
Prof. Oleg Yazyev, Institut de physique, EPFL

Overview of all Research Projects

Key collaborations with third parties

Academia
Centre Européen de Calcul Atomique et Moléculaire (CECAM), EPFL
SCCER Heat & Electricity Storage, PSI, Villigen
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)
Consortio Interuniversitario CINECA, Bologna
Psik
Thomas Young Centre, London
Max-Planck-EPFL 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

Private and public sector
ChemAlive, Lausanne
Varinor-Richemont, Delémont
Material Phases Data System (MPDS), Vitznau
Robert Bosch Research and Technology Center, Cambridge MA
Microsoft Corporation, Santa Barbara CA
## Funding

<table>
<thead>
<tr>
<th>Funding Source (CHF)</th>
<th>Total Phase 1 2014 - 2017</th>
<th>2014</th>
<th>2015</th>
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<th>2017</th>
<th>Phase 1 %</th>
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</thead>
<tbody>
<tr>
<td>SNSF-funding</td>
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<td>5'250'000</td>
<td>4'390'000</td>
<td>4'200'000</td>
<td>4'160'000</td>
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<tr>
<td>Self-funding from Home Institution¹</td>
<td>6'286'016</td>
<td>1'135'195</td>
<td>1'614'724</td>
<td>1'501'097</td>
<td>2'035'000</td>
<td>15</td>
</tr>
<tr>
<td>Self-funding from project participants</td>
<td>18'633'909</td>
<td>4'008'660</td>
<td>5'309'829</td>
<td>6'748'653</td>
<td>2'566'767</td>
<td>42</td>
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<tr>
<td>3rd party-funding</td>
<td>334'187</td>
<td>100'069</td>
<td>143'478</td>
<td>90'640</td>
<td>0</td>
<td>1</td>
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<tr>
<td>Total</td>
<td>43'254'112</td>
<td>10'493'924</td>
<td>11'458'031</td>
<td>12'540'390</td>
<td>8'761'767</td>
<td>100</td>
</tr>
</tbody>
</table>

¹ Personnel costs, equipment and consumables, not included infrastructure and basic equipment
### Persons involved

<table>
<thead>
<tr>
<th>Personnel</th>
<th>Total of persons</th>
<th>Female %</th>
<th>CH</th>
<th>Top 5 – Most represented nations</th>
<th>Other nations</th>
</tr>
</thead>
<tbody>
<tr>
<td>Doctoral students</td>
<td>47</td>
<td>19</td>
<td>10</td>
<td>IT</td>
<td>17</td>
</tr>
<tr>
<td>Postdoctoral students</td>
<td>82</td>
<td>16</td>
<td>1</td>
<td>DE</td>
<td>34</td>
</tr>
<tr>
<td>Senior researchers(^3)</td>
<td>62</td>
<td>16</td>
<td>17</td>
<td>CN</td>
<td>23</td>
</tr>
<tr>
<td>Management(^4)</td>
<td>4.26</td>
<td>75</td>
<td>8</td>
<td>RU</td>
<td>5</td>
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<tr>
<td>Other staff</td>
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<td>1</td>
<td>FR</td>
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<td><strong>Total</strong></td>
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<td><strong>21</strong></td>
<td><strong>37</strong></td>
<td><strong>52</strong></td>
<td><strong>23</strong></td>
</tr>
</tbody>
</table>

\(^2\) Persons involved in the NCCR in the last reporting period (12 months)

\(^3\) Including leaders of the individual projects and other organisational units of the NCCR

\(^4\) 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**

<table>
<thead>
<tr>
<th>Personnel</th>
<th>%</th>
<th></th>
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</thead>
<tbody>
<tr>
<td>Doctoral students</td>
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<td>81</td>
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<tr>
<td>Postdoctoral students</td>
<td>16</td>
<td>84</td>
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<tr>
<td>Senior researchers</td>
<td>16</td>
<td>84</td>
</tr>
<tr>
<td>Management</td>
<td>75</td>
<td>25</td>
</tr>
<tr>
<td>Other staff</td>
<td>67</td>
<td>33</td>
</tr>
</tbody>
</table>

### Training state of doctoral students

**Data: since start**

- 69% in progress
- 17% completed
- 12% academic sector
- 2% private sector
- 2% public sector
- 1% dropout
- 13% other

### Next employer of doctoral and postdoctoral students

**Data: since start**

- 73% academic sector
- 14% private sector
- 10% public sector
- 1% dropout
- 13% other
- 5% none/not known
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 Biosystems Science and Engineering, ETH Zürich
Prof. Nikola Biller-Andorno, Institut für Biomedizinische Ethik und Medizingeschichte, Universität Zürich
Dr. Michel Calame, Materials Meet Life, Empa, Dübendorf
Prof. Petra Dittrich, Departement Biosystems Science and Engineering, ETH Zürich
Prof. Dimitrios Fotiadis, Institut für Biochemie und Molekulare Medizin, Universität Bern
Prof. Martin Fussenegger, Departement Biosystems Science and Engineering, ETH Zürich
Prof. Karl Gademann, Departement Chemie, Universität Zürich
Prof. Catherine Housecroft, Institut für Biomedizinische Ethik und Medizingeschichte, Universität Zürich
Dr. Michel Calame, Materials Meet Life, Empa, Dübendorf
Prof. Roderick Lim, Biozentrum, Universität Basel
Prof. Sven Panke, Departement Biosystems Science and Engineering, ETH Zürich
Dr. Emanuel Lörtscher, IBM Research GmbH, Zürich
Prof. Ivan Martin, Departement Biomedizin, Universitätsspital Basel
Prof. Marcel Mayor, Departement Chemie, Universität Basel
Prof. Wolfgang Meier, Departement Chemie, Universität Basel
Prof. Daniel Müller, Departement Biosystems Science and Engineering, ETH Zürich
Prof. Michael Nash, Departement Chemie, Universität Basel
Prof. Cornelia Palivan, Departement Chemie, Universität Basel
Prof. Sven Panke, Departement Biosystems Science and Engineering, ETH Zürich
Prof. Randall Platt, Departement Biosystems Science and Engineering, ETH Zürich
Prof. Sai Reddy, Departement Biosystems Science and Engineering, ETH Zürich
Prof. Botond Roska, Neurobiologie, Friedrich Miescher Institut, Basel
Prof. Gebhard Schertler, Paul Scherrer Institut PSI, Villigen
Prof. Hendrik Scholl, Augenklinik, Universitätsspital Basel
Prof. Christof Sparr, Departement Chemie, Universität Basel
Prof. Francesco Stellacci, Institut Bioengineering, EPFL
Prof. Jörg Stelling, Departement Biosystems Science and Engineering, ETH Zürich
Prof. Konrad Tiefenbacher, Departement Chemie, Universität Basel
Prof. Viola Vogel, Departement Gesundheitswissenschaften und Technologie, ETH Zürich
Prof. Janos Vörös, Institut für Biomedizinische Technik, ETH Zürich
Prof. Thomas W. Ward, Departement Chemie, Universität Basel
Prof. Oliver Wenger, Departement Chemie, Universität Basel
Dr. Heiko Wolf, IBM Research GmbH, Zürich

Overview of all Research Projects

Participating Institutions
Universität Basel (10 groups)/Universität Bern (1 group)/Université de Genève (1 group)/Universität Zürich (2 groups)/EPFL (1 group)/ETH Zürich (10 groups)/Empa (1 group)/Friedrich Miescher Institut (1 group)
IBM Research GmbH (2 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. Jean M. J. Frechet, Department of Chemistry, University of California, US
Prof. Wolfgang Knoll, AIT Austrian Institute of Technology, AT
Prof. Timothy K. Lu, Department of Electrical Engineering and Computer Science, MIT Synthetic Biology Center, MIT, US
Prof. Joachim P. Spatz, Max-Planck-Institut für intelligente Systeme, DE
Prof. Gregory Stephanopoulos, MIT, US
Prof. Gerhard Wegner, Max-Planck-Institut für Polymerforschung, DE
Prof. Tanja Weil, Institut für Organische Chemie III, Universität Ulm, DE
Prof. Philipp Rudolf von Rohr (Chair), SNF, Bern, CH
Prof. Kai Johnsson, SNF, Bern, CH
Prof. Isabelle Mansuy, SNF, Bern, CH

Management/Coordination
Audrey Fischer
Head Finance & HR
NCCR Molecular Systems Engineering
University of Basel
Department of Chemistry
Klingelbergstrasse 80
4056 Basel
+41 61 267 19 90
www.nccr-mse.ch
Output Data
Data: since start

<table>
<thead>
<tr>
<th>Funding Source (CHF)</th>
<th>Total Phase 1</th>
<th>2014</th>
<th>2015</th>
<th>2016</th>
<th>2017</th>
<th>Phase 1 %</th>
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<tbody>
<tr>
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<td>4'225'000</td>
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<td>8'839'408</td>
<td>6'365'435</td>
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</tr>
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</table>

¹ incl. 120%-grant in year 2016
² Personnel costs, equipment and consumables, not included infrastructure and basic equipment

Key collaborations with third parties

Academia
- Laboratory of Molecular Biology, MRC, Cambridge, UK
- Cavendish Laboratory, University of Cambridge, UK
- Technical University Delft, NL
- Department of Physics, Georgia Tech, Atlanta, US
- Institute of Bioprocess Engineering, University of Stuttgart, DE
- Department of Bioengineering, MIT, US
- Department of Mathematics, Rutgers University, Piscataway, US
- Molecular and Cellular Physiology and Medicine, Stanford University, US
- Max Planck Institute for Biophysics, Frankfurt, DE
- Systems Neurobiology Laboratories, Salk Institute, La Jolla, US
- Department of Chemistry, Colorado State University, US
- School of Chemistry, University of Manchester, UK
- Institut de Science et d’Ingénierie Supramoléculaires, Université de Strasbourg, FR
- Abteilung Physikalische Chemie Mikroskopischer Systeme, Karlsruher Institut für Technologie, DE
- Instituto de Ciencia Molecular, University of Valencia, SP
- Department of Chemistry and Biotechnology, University of Tokyo, JP
- Theoretische und computergestützte Biophysik, Max Planck Institut für Biophysikalische Chemie Göttingen, DE
- Max-Planck-Institut für Kolloid und Grenzflächenforschung, Potsdam, DE
- Molecular Environmental Microbiology Laboratory, Centro Nacional de Biotecnología, SP
- Institut für Chemie, Technische Universität Berlin, DE
- BIOSS Centre for Biological Signalling Studies, Albert-Ludwigs-Universität Freiburg, DE
- FP 7 CELLO, FP 7 HYSENS, FP 7 HETEROMOLMAT, FP 7 METACODE

Private and public sector
- Avails Medical Inc., Menlo Park, US
- DSM Nutritional Products AG, Kaiseraugst, CH
- Gensight Biologics, Paris, FR
- Lonza LTD, Basel, CH
- Nanosurf AG, Liestal, CH
- Roche (Genia Technologies), Mountain View, US
- SwissLitho AG, Zurich, CH
## Persons involved

<table>
<thead>
<tr>
<th>Personnel</th>
<th>Total of persons</th>
<th>Female %</th>
<th>CH</th>
<th>DE</th>
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<th>FR</th>
<th>CN</th>
<th>US</th>
<th>Other nations</th>
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<tr>
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<td>5</td>
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<td>41</td>
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</table>

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

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

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**

<table>
<thead>
<tr>
<th>Personnel</th>
<th>Male</th>
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<td>Research associates</td>
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<tr>
<td>Doctoral students</td>
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<td>58</td>
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<tr>
<td>Other staff</td>
<td>50</td>
<td>50</td>
</tr>
</tbody>
</table>

### Training state of doctoral students

**Data: since start**

- in progress: 37
- completed: 8
- continuation outside NCCR: 23
- dropout: 4
- Total: 72

### Next employer of doctoral and postdoctoral students

**Data: since start**

- Academic sector: 40
- Private sector: 6
- Public sector: 0
- Other: 0
- None/not known: 8
- Total: 54
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, Institut für Angewandte Physik, Universität Bern
Dr. Paul Beaud, Laboratory for Synchrotron Radiation – Condensed Matter, PSI Villigen
Prof. Andrea Cannizzo, Institut für Angewandte Physik, Universität Bern
Prof. Fabrizio Carbone, Institut de Physique de la Matière Condensée, EPFL
Prof. Majed Chergui, Institut des Sciences et Ingénierie Chimiques, EPFL
Prof. Thomas Feurer, Institut für Angewandte Physik, Universität Bern
Prof. Peter Hamm, Physikalisch-Chemisches Institut, Universität Zürich
Dr. Matthias Hengsberger, Physik-Institut, Universität Zürich
Prof. Steve Johnson, Institut für Quantenelektronik, ETH Zürich
Prof. Ursula Keller, Institut für Quantenelektronik, ETH Zürich
Prof. Markus Meuwly, Departement Chemie, Universität Basel
Dr. Chris Milne, SwissFEL, Paul Scherrer Institut 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
Dr. Hans Sigg, Laboratory for Micro and Nanotechnology, PSI Villigen
Dr. Urs Staub, Laboratory for Synchrotron Radiation – Condensed Matter, PSI Villigen
Prof. Thomas Südmeyer, Laboratoire Temps-Fréquence, Universität de Neuchâtel
Prof. Jeroen van Bokhoven, Institut für Chemie- u. Bioingenieurwissenschaften, ETH Zürich
Prof. Jiri Vanicek, Institut des Sciences et Ingénierie Chimiques, EPFL
Prof. Jean-Pierre Wolf, Groupe de Physique Appliquée, Université de Genève
Prof. Hans Jakob Wörner, Laboratorium für Physikalische Chemie, ETH Zürich

Participating Institutions
Universität Basel (1 group)/Universität Bern (3 groups)/Université de Fribourg (1 group)/Université de Genève (1 group)/Université de Neuchâtel (1 group)/Universität Zürich (2 groups)/EPFL (5 groups)
ETH Zürich (5 groups)/ Paul Scherrer Institut PSI (3 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. Dirk van der Marel (Chair), SNF, Bern, CH
Prof. Samuel Leutwyler, SNF, Bern, CH
Prof. Frank Scheffold, SNF, Bern, CH

Overview of all Research Projects

Management/Coordination
Dr. Jan van Beilen and Dr. Anna Garry
Institut für Quantenelektronik (IQE)
ETH Zürich
Wolfgang-Pauli-Strasse 16
CH-8093 Zürich
+41 44 633 29 90
www.nccr-must.ch
### Output Data

- **680 scientific publications**
  - 6 book chapters
    - 4 peer-reviewed
  - 9 books
    - 3 peer-reviewed
    - 6 non-peer-reviewed
  - 11 proceedings
    - 5 peer-reviewed
  - 7 anthologies
    - not peer-reviewed
  - 647 journal articles
    - 636 peer-reviewed
    - 10 journal articles
      - by more than one group

- **1058 academic events**
  - Individual talks
  - Conference talks
  - Invited talks or keynote lectures

- **142 transfer activities**
  - 114 cooperations:
    - 16 with economy / industry
    - 91 with research institutions
    - 7 others
  - 22 technology transfer activities
    - 9 IP-rights
    - 1 prototype/demonstrator
    - 5 start-ups/spin-offs
    - 5 CTI projects, thereof 1 joint by more than one group
    - 2 other kind of technology transfers
  - 6 public communications
    - *new category since 2012*

### Key collaborations with third parties

**Academia**
- Institute of Physical Chemistry, Polish Academy of Sciences, Warsaw, PL
- Physikalisches Institut, Alberts-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, USA
- 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
- IONIGHT, Bern, CH
- Plair, Genève, CH
- AME GmbH, Bern, CH
- SThAR, Lausanne, CH
- Supercomputing Systems AG, Zürich CH
- Aekip SA, Saint Sulpice, CH

### Funding

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<tr>
<th>Funding Source (CHF)</th>
<th>Total Phase 1 2010 - 2013</th>
<th>Total Phase 2 2014 - 2017</th>
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<th>2017</th>
<th>Phase 2 %</th>
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<td>17’371’642</td>
<td>4’971’842</td>
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<td>4’471’800</td>
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<td>1’808’335</td>
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<td>10’644’045</td>
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</table>

¹ incl. funding of transfer projects (strong Swiss franc package) in 2012, 120% support-grant in 2013, 2014, 2015 and 2016 and compensation for PhD salaries increase in 2014
² Personnel costs, equipment and consumables, not included infrastructure and basic equipment

*Acknowledgment to all involved for their cooperation and effort.*

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*References and further information available in the full document.*
### Persons involved

<table>
<thead>
<tr>
<th>Personnel</th>
<th>Total of persons</th>
<th>Female %</th>
<th>CH</th>
<th><strong>Top 5 – Most represented nations</strong></th>
<th>Other nations</th>
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<tr>
<td></td>
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<td>DE</td>
<td>IT</td>
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<td>Doctoral students</td>
<td>61</td>
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<tr>
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<td>7</td>
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<tr>
<td>Senior researchers</td>
<td>51</td>
<td>22</td>
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<td>6</td>
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<tr>
<td>Management</td>
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<td>34</td>
<td>18</td>
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</table>

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**

- Doctoral students: 26 (74% female)
- Postdoctoral students: 24 (76% female)
- Senior researchers: 22 (78% female)
- Management: 50 (50% female)
- Other staff: 100 (100% female)

### Training state of doctoral students

**Data: since start**

- In progress: 53
- Completed: 55
- Continuation outside NCCR: 17
- Dropout: 4
- Total: 129

### Next employer of doctoral and postdoctoral students

**Data: since start**

- Academic sector: 137
- Private sector: 39
- Public sector: 6
- Other: 0
- None/not known: 7
- Total: 189
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)

Heads of Research Groups
Prof. Alberto Achermann, Institut für öffentliches Recht, Universität Bern
Prof. Christin Achermann, Centre de droit des migrations, Université de Neuchâtel
Prof. Giuliano Bonoli, Institut des hautes études en administration publique (IDHEAP), Universität de Lausanne
Prof. Martina Caroni, Rechtswissenschaftliche Fakultät, Universität Luzern
Prof. Janine Dahinden, Maison d’analyse des processus sociaux (MAPS), Universität de Neuchâtel
Prof. Gianni D’Amato, Forum suisse pour l’étude des migrations et de la population, (SFM), Universität de Neuchâtel
Dr. Rosita Fibbi, Forum suisse pour l’étude des migrations et de la population, (SFM), Universität de Neuchâtel
Prof. Matteo Gianni, Institut d’études de la citoyenneté, Universität de Genève
Dr. Eva Green, Institut de psychologie, Universität de Lausanne
Prof. Dominik Hangartner, London School of Economics, UK/ETH Zürich
Prof. Jörg Künzli, Institut für öffentliches Recht, Universität Bern
Prof. Walter Leimgruber, Seminar für Kulturwissenschaft und Europäische Ethnologie, Universität Basel
Prof. Anita Manatschal, Forum suisse pour l’étude des migrations et de la population (SFM), Universität de Neuchâtel
Prof. Tobias Müller, Institut d’économie et d’économétrie, Universität de Genève
Prof. Etienne Piguet, Institut de géographie, Universität de Neuchâtel
Prof. Sarah Progin-Theuerkauf, Rechtswissenschaftliche Fakultät, Universität Freiburg
Prof. Alois Stutzer, Wirtschaftswissenschaftliche Fakultät, Universität Basel
Prof. Philippe Wanner, Institut de démographie et socioéconomie, Universität de Genève
Prof. Tania Zittoun, Institut de psychologie et éducation, Universität de Neuchâtel

Overview of all Research Projects

Participating Institutions
Universität Basel (2 groups)/Universität Bern (2 groups)/Université de Fribourg (1 group)/Université de Genève (4 groups)/Université de Lausanne (2 groups)/Université Luzern (1 group)/Université de Neuchâtel (6 groups)/ETH Zürich (1 group)

Members of the Review Panel
Prof. Ayse Caglar, Institut für Kultur- und Sozialanthropologie, Universität Wien, AT
Prof. Helga de Valk, Faculteit Economische en Sociale Wetenschappen, Vrije Universiteit Brussel, BE
Prof. Gil S. Epstein, Department of Economics, School of Graduate Studies, Bar-Ilan University, IL
Prof. Susan Martin, Georgetown University, Washington, US
Prof. Maarten Vink, Faculty of Arts and Social Sciences, Maastricht University, NL
Prof. Katharina Michaelowa (Chair), SNF, Bern, CH
Prof. Max Bergman, SNF, Bern, CH
Prof. Franz Caspar, 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**

<table>
<thead>
<tr>
<th>Funding Source (CHF)</th>
<th>Total Phase 1 2014–2017</th>
<th>2014</th>
<th>2015</th>
<th>2016</th>
<th>2017</th>
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</thead>
<tbody>
<tr>
<td>SNSF-funding¹</td>
<td>17'361'261</td>
<td>4'308'125</td>
<td>4'339'444</td>
<td>4'375'342</td>
<td>4'338'350</td>
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<td>Self-funding from Home Institution²</td>
<td>3'094'288</td>
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<td>757'450</td>
<td>791'361</td>
<td>952'000</td>
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<td><strong>Total</strong></td>
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<td>6'216'703</td>
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</tbody>
</table>

¹ incl. Mobility-grant in 2014, 2016 and 2017 and 120% Support in 2015, 2016 and 2017
² Personnel costs, equipment and consumables, not included infrastructure and basic equipment

### Key collaborations with third parties

**Academia**
- Center for the Study of Poverty and Social Justice, School for Policy Studies, University of Bristol, UK
- Center of Migration Research, University of Warsaw, PL
- Centre d’Etudes de l’Ethnicité et des Migrations (CEDEM), Université de Liège, BE
- Department of Politics, University of Sheffield, UK
- IMISCOE, Network of Scholars International Migration, Integration and Social Cohesion, Erasmus University Rotterdam, NL
- Institute for Advanced Studies in the Humanities, University of Edinburgh, UK
- Institute for Demographic Studies INED, Paris, FR
- Institute for the Study of Labor, Bonn, DE
- International and European Forum on Migration Research, Torino, IT
- Justus Liebig University Giessen, DE
- Maastricht Centre for Citizenship, Migration and Development, Maastricht University, NL
- Malmö Institute for Studies of Migration, Diversity and Welfare, SE
- Odysseus Network, Academic Network for Legal Studies on Asylum and Immigration in Europe, Malmö University, SE
- Radboud University Nijmegen, NL
- Southern Methodist University, Dallas, US

**Private and public sector**
- Centre de compétence suisse en sciences sociales – FORS, Université de Lausanne, CH
- Centre suisse de compétence pour les droits humains CSDH, CH
- The Centre for European Policy Studies, Bruxelles, BE
- Commission fédérale pour les questions de migration (CFM), Wabern, CH
- Stiftung Mercator Schweiz, Zürich, CH
- Stiftung Stapferhaus Lenzburg, Lenzburg, CH
- International Labour Organization, Labour Migration Branch
- Office fédéral de la statistique, Neuchâtel, CH
- Secrétariat d’Etat aux migrations, Wabern, CH
## Persons involved

<table>
<thead>
<tr>
<th>Personnel</th>
<th>Total of persons</th>
<th>Female %</th>
<th>CH</th>
<th>Top 5 – Most represented nations</th>
<th>Other nations</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
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<td>DE</td>
<td>IT</td>
</tr>
<tr>
<td>Research associates</td>
<td>8</td>
<td>63</td>
<td>5</td>
<td>3</td>
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<tr>
<td>Doctoral students</td>
<td>31</td>
<td>58</td>
<td>17</td>
<td>5</td>
<td>1</td>
</tr>
<tr>
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<td>21</td>
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<td>4</td>
</tr>
<tr>
<td>Senior researchers</td>
<td>23</td>
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<td>19</td>
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<td>1</td>
</tr>
<tr>
<td>Total</td>
<td>89.77</td>
<td>59</td>
<td>65</td>
<td>18</td>
<td>9</td>
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</table>

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

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

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

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**

<table>
<thead>
<tr>
<th>Personnel</th>
<th>Female (%)</th>
<th>Male (%)</th>
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</thead>
<tbody>
<tr>
<td>Research associates</td>
<td>63%</td>
<td>37%</td>
</tr>
<tr>
<td>Doctoral students</td>
<td>58%</td>
<td>42%</td>
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<td>Postdoctoral students</td>
<td>67%</td>
<td>33%</td>
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<tr>
<td>Senior researchers</td>
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<td>52%</td>
</tr>
<tr>
<td>Management</td>
<td>64%</td>
<td>36%</td>
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</table>

### Training state of doctoral students

**Data: since start**

- In progress: 25
- Completed: 4
- Continuation outside NCCR: 6
- Dropout: 1
- Total: 36

### Next employer of doctoral and postdoctoral students

**Data: since start**

- Academic sector: 8
- Private sector: 2
- Public sector: 4
- Other: 0
- None/not known: 1
- Total: 15
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
Prof. Willy Benz, Physikalisches Institut, Universität Bern
Prof. Klaus Mezger, Institut für Geologie, Universität Bern
Prof. Ben Moore, Institut für Computergestützte Wissenschaften, Universität Zürich
Prof. Francesco Pepe, Observatoire, Université de Genève
Prof. Hans-Martin Schmid, Institut für Teilchen und Astrophysik, ETH Zürich
Prof. Maria Schönbächler, Institut für Geochemie und Petrologie, ETH Zürich
Prof. Nicolas Thomas, Physikalisches Institut, Universität Bern
Prof. Stéphane Udry, Observatoire, Université de Genève

Overview of all Research Projects

Participating Institutions
Universität Bern (2 groups)/Université de Genève (2 groups)/Universität Zürich (1 group)/ETH Zürich (2 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. Frank Scheffold (Chair), SNF, Bern, CH
Prof. Anna Fontcuberta i Morral, SNF, Bern, CH
Prof. Christoph Heinrich, SNF, Bern, CH

Management/Coordination
NCCR PlanetS
Physikalisches Institut
Universität Bern
Janine Jungo
Gesellschaftsstrasse 6
CH-3012 Bern
+41 31 631 32 39
www.nccr-planets.ch
Funding

<table>
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<tr>
<th>Funding Source (CHF)</th>
<th>Total Phase 1</th>
<th>2014</th>
<th>2015</th>
<th>2016</th>
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<td>8'227'097</td>
<td>8'706'656</td>
<td>9'273'357</td>
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1 incl. 120% support grant in Year 2017
2 Personnel costs, equipment and consumables, not included infrastructure and basic equipment

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

Output Data
Data: since start

258 scientific publications
- 14 not peer-reviewed anthologies
  - thereof 5 joint by more than one group
- 1 not peer-reviewed book

287 academic events
- 243 journal articles
  - thereof 191 peer-reviewed and
  - 58 joint by more than one group
- individual talks
- conference talks
- invited talks or keynote lectures

135 transfer activities
- 42 cooperations
  - 7 with economy / industry
  - 35 with research institutions
- 5 scientific services*
- 5 technology transfer activities
  - 1 IP-right
  - 2 prototypes/demonstrators
  - 2 CTI projects
- 68 public communications*
- 15 stakeholder exchanges*

* new category since 2017
Persons involved

<table>
<thead>
<tr>
<th>Personnel¹</th>
<th>Total of persons</th>
<th>Female %</th>
<th>CH</th>
<th>Top 5 – Most represented nations</th>
<th>Other nations</th>
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<tr>
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<tr>
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<td>33</td>
<td>24</td>
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<tr>
<td>Senior researchers⁵</td>
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<tr>
<td>Management⁶</td>
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<td>52</td>
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<td>117.76</td>
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<td>46</td>
<td>CH</td>
<td>25</td>
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</tbody>
</table>

¹ Persons involved in the NCCR in the last reporting period (12 months)
² Includes graduate scientists (level master) but not registered as PhD students or undergraduate students participating in research projects.
³ Including leaders of the individual projects and other organisational units of the NCCR
⁴ 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

- Research associates: 33% female, 67% male
- Doctoral students: 75% female, 25% male
- Postdoctoral students: 76% female, 24% male
- Senior researchers: 91% female, 9% male
- Management: 48% female, 52% male
- Other staff: 86% female, 14% male

Training state of doctoral students
Data: since start

- In progress: 10%
- Completed: 91%
- Continuation outside NCCR: 1%
- Dropout: 8%

Total: 32

Next employer of doctoral and postdoctoral students
Data: since start

- Academic sector: 14%
- Private sector: 14%
- Public sector: 14%
- Other: 58%

Total: 14
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. Christian Degen, 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, EPF
Dr. Andreas Fuhrer, IBM Research - Zürich
Prof. Nicolas Gisin, GAP-Optique, Université de Genève
Prof. Jonathan Home, 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. Fréderic Merkt, Laboratorium für Physikalische Chemie, ETH Zürich
Prof. Alberto Morpurgo, Département de physique de la matièvre quantique, Université de Genève
Prof. Lukas Novotny, Department Informationstechnologie und Elektrotechnik, ETH Zürich
Prof. Martino Poggio, Departement Physik, Universität Basel
Prof. Renato Renner, Institut für Theoretische Physik, ETH Zürich
Dr. Gian Sales, IBM Research - Zürich
Prof. Christian Schönenberger, Departement Physik, Universität Basel
Prof. Philipp Treutlein, Departement Physik, Universität Basel
Prof. Matthias Troyer, Institut für Theoretische Physik, ETH Zürich
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 (15 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 und UPSud, Marcoussis, FR
Prof. Juan Ignacio Cirac, Max-Planck Institut für Quantenoptik, Garching, DE
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. Charles M. Marcus, Niels Bohr Institutet, Kobenhavns Universitet DK,
Prof. Elke Scheer, Fachbereich Physik, Universität Konstanz, DE
Prof. Gerd Schön, Institut für Theoretische Festkörperphysik, Karlsruher Institut für Technologie, DE

Prof. Dirk van der Marel (Chair), SNF, Bern, CH

Management/Coordination
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ETH Zürich
NCCR QSIT
Laboratorium für Festkörperphysik
Otto-Stern-Weg 1
CH-8093 Zürich
+41 44 633 63 06
www.nccr-qsit.ethz.ch
**Output Data**

- **1118 scientific publications**
  - 6 not peer-reviewed anthologies
  - thereof 1 joint by more than one group
  - 1056 journal articles
    - thereof 1029 peer-reviewed and
    - 214 joint by more than one group
  - 30 peer-reviewed proceedings
    - thereof 1 joint by more than one group
  - 2 peer-reviewed articles

- **2689 academic events**
  - individual talks
  - conference talks
  - invited talks or keynote lectures

- **239 transfer activities**
  - 131 cooperations
    - 10 with economy / industry
    - 120 with research institutions
    - 1 other
  - 41 public communications*
  - 12 stakeholder exchanges*
  - 5 scientific services and tools*
    - 2 services
    - 3 tools
  - 50 technology transfer activities
    - 17 IP-rights
    - 3 licenses
    - 3 prototypes/demonstrators
    - 6 start-ups/spin-offs
    - 7 CTI projects
    - 14 other kinds of technology transfer

---

**Funding**

<table>
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<tr>
<th>Funding Source (CHF)</th>
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<td>4'240'303</td>
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<tr>
<td>Self-funding from project participants</td>
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</table>

1 incl. funding of transfer projects (strong Swiss franc package) in 2012, compensation for PhD salaries increase in 2015 and 120% support-grant in 2014, 2015, 2016 and 2017.
2 Personnel costs, equipment and consumables, not included infrastructure and basic equipment.

---

**Key collaborations with third parties**

**Academia**
- L.D. Landau Institute of Theoretical Physics, RUS
- Keio University Yokohama, ITOH group, JP
- Instituto 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
- METAS Swiss Federal Office for Metrology, CH
- Département de Physique, Université de Sherbrooke, CAN
- Lehrstuhl für Angewandte Festkörperphysik, Ruhr-Universität Bochum, DE
- Kavli Institute of NanoScience, Technische Universität Delft, NL
- Fachhochschule Nordwestschweiz, Muttenz, CH
- Ludwig-Maximilians Universität München, DE
- Stanford University, Stanford, US
- University of Texas, Austin, US
- California Institute of Technology, CALTECH, Pasadena, United States of America, Computing and Mathematical Sciences, US
- National Institute for Material Science, Tsukuba, JP
- NIST National Institute of Standards and Technology, Gaithersburg, MD, United States of America, Material Measurement, US

**Private and public sector**
- Google, US
- Microsoft Corporation, US
- Corning, New York, US
- ID Quantique, CH
Persons involved

<table>
<thead>
<tr>
<th>Personnel</th>
<th>Total of persons</th>
<th>Female %</th>
<th>CH</th>
<th>DE</th>
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<tr>
<td>Postdoctoral students</td>
<td>39</td>
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<td>Senior researchers</td>
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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

<table>
<thead>
<tr>
<th>Personnel</th>
<th>%</th>
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<tr>
<td>Research associates</td>
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<td>Management</td>
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<tr>
<td>Other staff</td>
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</tbody>
</table>

Training state of doctoral students
Data: since start

- In progress: 77
- Completed: 47
- Continuation outside NCCR: 65
- Dropout: 2
- Total: 191

Next employer of doctoral and postdoctoral students
Data: since start

- Academic sector: 150
- Private sector: 29
- Public sector: 4
- Other: 0
- None/not known: 9
- Total: 192
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
Prof. Constance Claudio, Departement Biologie, ETH Zürich
Dr. Jeffrey Chao, Friedrich Miescher Institute for Biomedical Research, Basel
Prof. David Gatfield, Faculty of Biology and Medicine, University of Lausanne
Dr. Helge Grosshans, Friedrich Miescher Institute for Biomedical Research, Basel
Prof. Jonathan Hall, Departement Chemie und Angewandte Biowissenschaften, ETH Zürich
Prof. Michael 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. Joachim Lingner, Institut Suisse de Recherche Expérimentale sur le Cancer, EPFL
Prof. Oliver Mühlemann, Departement für Chemie und Biochemie, Universität Bern
Prof. Ana-Claudia Marques, Département de Physiologie, Université de Lausanne
Prof. Mariusz Nowacki, Institut für Zellbiologie, Universität Bern
Prof. Ramesh Pillai, Département de biologie moléculaire, Université de Genève
Prof. Norbert Polacek, Département de Chimie et Biochimie, Université Bern
Prof. Magdalini Polymenidou, Institut für Molekularbiologie, Universität Zürich
Dr. Marc-David Ruepp, Departement für Chemie und Biochemie, Universität Bern
Prof. Andrés 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 (7 groups)/Friedrich Miescher Institut FMI (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. Elisa Izaurralde, Max-Planck-Institut für Entwicklungsbiologie, DE
Prof. Bertrand Séraphin, IGBMC, CNRS, Illkirch, FR
Prof. Maurice S. Swanson, Department of Molecular Genetics a. Microbiology, University of Florida, US

Prof. Andreas Mayer (Chair), SNF, Bern, CH
Prof. Michael O. Hottiger, SNF, Bern, CH
Prof. Didier Trono, SNF, Bern, CH

Management/Coordination
Dr. Larissa Grolimund
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
**Output Data**

- **Data:** since start

**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 Dufloteau, Zürich, CH
- Hofmann-La Roche, Reinach, CH
- Holcim Stiftung zur Förderung der wissenschaftlichen Forschung, Holderbank, CH
- NOMIS Foundation, Samedan, CH
- Novartis, Basel, CH
- Promedica Stiftung, Chur, CH
- Schweizerische Stiftung für die Erforschung der Muskelkrankheiten, SSEM, Cortaillod, CH
- T3 Pharmaceuticals AG, Basel, CH

**Funding**

<table>
<thead>
<tr>
<th>Funding Source (CHF)</th>
<th>Total Phase 1 2014 - 2017</th>
<th>2014</th>
<th>2015</th>
<th>2016</th>
<th>2017</th>
<th>Phase 1 %</th>
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<td>4'055'735</td>
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<td>41</td>
</tr>
<tr>
<td>Self-funding from Home Institutions(^2)</td>
<td>12'419'136</td>
<td>1'817'886</td>
<td>2'939'658</td>
<td>3'441'701</td>
<td>4'219'891</td>
<td>30</td>
</tr>
<tr>
<td>Self-funding from project participants</td>
<td>9'818'108</td>
<td>2'594'173</td>
<td>2'588'078</td>
<td>2'705'857</td>
<td>1'930'000</td>
<td>24</td>
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<tr>
<td>3rd party-funding</td>
<td>1'812'272</td>
<td>266'769</td>
<td>515'843</td>
<td>729'660</td>
<td>300'000</td>
<td>5</td>
</tr>
<tr>
<td>Total</td>
<td>40'801'182</td>
<td>8'384'735</td>
<td>10'099'314</td>
<td>11'345'922</td>
<td>10'971'211</td>
<td>100</td>
</tr>
</tbody>
</table>

\(^1\) incl. 120% support-grant in 2014, 2015, 2016 and 2017 and mobility-grant in 2015, 2016 and 2017

\(^2\) Personnel costs, equipment and consumables, not included infrastructure and basic equipment
## Persons involved

<table>
<thead>
<tr>
<th>Personnel</th>
<th>Total of persons</th>
<th>Female %</th>
<th>CH</th>
<th>Top 5 – Most represented nations</th>
<th>Other nations</th>
</tr>
</thead>
<tbody>
<tr>
<td>Doctoral students</td>
<td>41</td>
<td>59</td>
<td>11</td>
<td>DE 8, FR 3, IN 3, IT 5, GB 0</td>
<td>13</td>
</tr>
<tr>
<td>Postdoctoral students</td>
<td>40</td>
<td>40</td>
<td>1</td>
<td>DE 4, FR 5, IN 7, IT 2, GB 4</td>
<td>17</td>
</tr>
<tr>
<td>Senior researchers ²</td>
<td>47</td>
<td>23</td>
<td>11</td>
<td>DE 8, FR 7, IN 2, IT 2, GB 2</td>
<td>16</td>
</tr>
<tr>
<td>Management ³</td>
<td>3.56</td>
<td>50</td>
<td>5</td>
<td>DE 0, FR 1, IN 0, IT 0, GB 1</td>
<td>3</td>
</tr>
<tr>
<td>Other staff</td>
<td>31</td>
<td>71</td>
<td>11</td>
<td>DE 6, FR 3, IN 1, IT 0, GB 0</td>
<td>11</td>
</tr>
<tr>
<td>Total</td>
<td>162.56</td>
<td>46</td>
<td>39</td>
<td>DE 26, FR 19, IN 13, IT 9, GB 7</td>
<td>60</td>
</tr>
</tbody>
</table>

² Persons involved in the NCCR in the last reporting period (12 months)
³ Including leaders of the individual projects and other organisational units of the NCCR
⁴ 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**

<table>
<thead>
<tr>
<th>Personnel</th>
<th>% Male</th>
<th>% Female</th>
</tr>
</thead>
<tbody>
<tr>
<td>Doctoral students</td>
<td>41</td>
<td>59</td>
</tr>
<tr>
<td>Postdoctoral students</td>
<td>60</td>
<td>40</td>
</tr>
<tr>
<td>Senior researchers</td>
<td>77</td>
<td>23</td>
</tr>
<tr>
<td>Management</td>
<td>50</td>
<td>50</td>
</tr>
<tr>
<td>Other staff</td>
<td>29</td>
<td>71</td>
</tr>
</tbody>
</table>

### Training state of doctoral students

**Data: since start**

- 73% in progress
- 17% completed
- 10% continuation outside NCCR
- 0% dropout

Total 63

### Next employer of doctoral and postdoctoral students

**Data: since start**

- Academic sector 22
- Private sector 4
- Public sector 6
- Other 5
- None/not known 21

Total 58
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 01.12.2014)
Start date: 1st of December 2010 (3rd NCCR series)

Heads of Research Groups
Prof. David Atienza, Embedded Systems Laboratory (ESL), EPFL
Prof. Aude Billard, Laboratory of Learning Algorithms and Systems (LASA), EPFL
Prof. Olaf Blanke, Cognitive Neuroscience Brain-Mind Institute (INCO), EPFL
Prof. Grégoire Courtine, Chair in Spinal Cord Repair (IRP), EPFL
Prof. Tobias Delbruck, Institut für Neuroinformatik, Universität Zürich, ETH 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, Swiss AI Lab IDSIA (Istituto Dalle Molle di Studi sull'Intelligenza Artificiale), Manno
Prof. Roger Gassert, RELab, ETH Zürich
Prof. Marco Hutter, Robotics Systems Lab (RLS), ETH Zürich
Prof. Auke Ijspeert, BIORob, EPFL
Prof. Stéphanie Lacour, Laboratory for Soft Bioelectronic Interfaces (LSBI), EPFL
Prof. Silvestro Micera, Translational Neural Engineering Lab (TNE), EPFL
Prof. José Millán, DEFITECH Chair in Brain-Machine Interface CNBI, EPFL
Prof. Francesco Mondada, Laboratory of Robotics Systems (LSRO), 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, Universität Zürich
Prof. Roland Siegwart, Autonomous Systems Lab (ASL), ETH Zürich

Heads of Associated Research Groups
Prof. Hannes Bleuler, Robotic Systems Lab (LSRO), EPFL
Prof. Margarita Chli, Vision for Robotics Lab (V4RL), ETH Zürich
Prof. Walter Karlen, Mobile Health Systems Laboratory (MHSL), ETH Zürich
Prof. Laura Marchal-Crespo, ARTORG Center for Biomedical Engineering Research, Universität Bern

Overview of all Research Projects

Participating Institutions
Universität Bern (1 group)/Universität Zürich (2 group)
EPFL (13 groups)/ETH Zurich (5 groups)/IDSIA (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
Dr. Martin Hägele, Fraunhofer-Institut für Produktionstechnik und Automatisierung IPA, DE
Prof. William Harwin, School of Systems Engineering, 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. Alan Winfield, Faculty of Environment and Technology, UWE Bristol, UK
Prof. Katharina Fromm (Chair), SNF, Bern, CH
Prof. Lothar Thiele, SNF, Bern, CH
Prof. Dirk van der Marel, 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**

### Scientific Publications
- **635 scientific publications**
  - 3 peer-reviewed book chapters
  - 296 journal articles (256 peer-reviewed and 24 joint by more than one group)
  - 275 proceedings (25 joint by more than one group)
  - 18 peer-reviewed articles (2 joint by more than one group)
  - 39 books (38 peer-reviewed and 1 joint by more than one group)

### Academic Events
- **815 academic events**
  - Individual talks
  - Conference talks
  - Invited talks or keynote lectures

### Transfer Activities
- **353 transfer activities**
  - 166 cooperations
    - 41 with economy / industry
    - 109 with research institutions
    - 16 others
  - 128 technology transfer activities
    - 37 IP-rights, thereof 7 joint by more than one group
    - 60 prototypes/demonstrators, thereof 5 joint by more than one group
    - 17 start-ups/spin-offs, thereof 2 joint by more than one group
    - 9 CFI projects
  - 5 scientific services*
  - 35 public communications*
  - 19 stakeholder exchanges*

### Funding

<table>
<thead>
<tr>
<th>Funding source (CHF)</th>
<th>Total Phase 1 2010 – 2013</th>
<th>Total Phase 2 2014 – 2017</th>
<th>2014</th>
<th>2015</th>
<th>2016</th>
<th>2017</th>
<th>Phase 2 %</th>
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</thead>
<tbody>
<tr>
<td>SNSF-funding¹</td>
<td>13'300'000</td>
<td>15'322'317</td>
<td>4'260'000</td>
<td>4'260'000</td>
<td>4'142'317</td>
<td>2'660'000</td>
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<tr>
<td>Self-funding from Home Institutions²</td>
<td>6'126'703</td>
<td>9'294'862</td>
<td>1'595'124</td>
<td>3'084'655</td>
<td>2'137'782</td>
<td>2'477'301</td>
<td>31</td>
</tr>
<tr>
<td>Self-funding from project participants</td>
<td>10'387'838</td>
<td>5'327'964</td>
<td>1'329'456</td>
<td>1'660'090</td>
<td>760'418</td>
<td>1'578'000</td>
<td>18</td>
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<tr>
<td>3rd party-funding</td>
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<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
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<tr>
<td>Total</td>
<td>29'929'901</td>
<td>29'945'143</td>
<td>7'184'580</td>
<td>9'004'745</td>
<td>7'040'517</td>
<td>6'715'301</td>
<td>100</td>
</tr>
</tbody>
</table>

¹ incl. compensation for PhD salaries increase in 2014, 120% support-grant and mobility grant in 2017

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

### Key collaborations with third parties

**Academia**
- Biominimetric Millisystems Lab, UC Berkeley, USA
- Biorobotics Institute, SSSA, IT
- Delft Biorobotics Lab, TU Delft, NL
- DLR, Deutsches Zentrum für Luft- und Raumfahrt, DLR, DE
- Dynamic legged systems Lab, Advanced Italian Institute of Technology, Genova, IT
- IST, Lisbon TG
- NEUWalk (EU-FP7)
- Service de Gériatire, Centre Hospitalier Universitaire Vaudois CHUV, Lausanne, CH
- Spinal Cord Injury Center, University Hospital Balgrist, Zürich, CH

**Private and public sector**
- Clinique romande de réadaptation CRR, Schweizerische Unfallversicherungsanstalt SUVA, Sion, CH
- Hocoma AG, Volketswil, CH
- Inlabs GmbH, Zürich, CH
- Zürcher Höhenklinik Wald, Wald, CH

---

NCCR Robotics | 46
### Persons involved

<table>
<thead>
<tr>
<th>Personnel</th>
<th>Total of persons</th>
<th>Female %</th>
<th>CH</th>
</tr>
</thead>
<tbody>
<tr>
<td>Doctoral students</td>
<td>36</td>
<td>11</td>
<td>7</td>
</tr>
<tr>
<td>Postdoctoral students</td>
<td>10</td>
<td>30</td>
<td>2</td>
</tr>
<tr>
<td>Senior researchers³</td>
<td>29</td>
<td>14</td>
<td>11</td>
</tr>
<tr>
<td>Management⁴</td>
<td>4.40</td>
<td>50</td>
<td>6</td>
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<tr>
<td>Other staff</td>
<td>30</td>
<td>57</td>
<td>19</td>
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<tr>
<td>Total</td>
<td>109.4</td>
<td>29</td>
<td>45</td>
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<table>
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<tr>
<th>Top 5 – Most represented nations</th>
<th>IT</th>
<th>FR</th>
<th>DE</th>
<th>ES</th>
<th>GB</th>
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<tr>
<td>CH</td>
<td>4</td>
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<tr>
<td>IT</td>
<td>11</td>
<td>7</td>
<td>2</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>FR</td>
<td>36</td>
<td>10</td>
<td>6</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>DE</td>
<td>7</td>
<td>2</td>
<td>2</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>ES</td>
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<td>5</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>

| Other nations | 26 |

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**

<table>
<thead>
<tr>
<th>Personnel</th>
<th>Female %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Doctoral students</td>
<td>11%</td>
</tr>
<tr>
<td>Postdoctoral students</td>
<td>30%</td>
</tr>
<tr>
<td>Senior researchers</td>
<td>14%</td>
</tr>
<tr>
<td>Management</td>
<td>5%</td>
</tr>
<tr>
<td>Other staff</td>
<td>43%</td>
</tr>
</tbody>
</table>

#### Training state of doctoral students

**Data: since start**

- In progress: 37
- Completed: 9
- Continuation outside NCCR: 81
- Dropout: 2
- Total: 129

#### Next employer of doctoral and postdoctoral students

**Data: since start**

- Academic sector: 121
- Private sector: 5
- Public sector: 7
- Other: 1
- None/not known: 7
- Total: 141
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. Niklas Beisert, Institut für Theoretische Physik, ETH Zurich
Prof. Anna Beliakova, Institut für Mathematik, Universität Zürich
Prof. Matthias Blau, Institut für Theoretische Physik, Universität Bern
Prof. Erwin Bolthausen, Institut für Mathematik, Universität Zürich
Prof. Alberto Cattaneo, Institut für Mathematik, Universität Zürich
Prof. Hugo Duminil-Copin, Section de Mathématiques, Université de Genève
Prof. Ruth Durrer, Département de Physique Théorique, Université de Genève
Prof. Jean-Pierre Eckmann, Département de Physique Théorique, Université de Genève
Prof. Giovanni Felder, Departement Mathematik, ETH Zurich
Prof. Jürg Fröhlich, Institut für Theoretische Physik, ETH Zurich
Prof. Matthias Gaberdiel, Institut für Theoretische Physik, ETH Zurich
Prof. Gian Michele Graf, Institut für Theoretische Physik, ETH Zurich
Prof. Clément Hongler, Section de Mathématiques, EPFL
Prof. Rinat Kashaev, Section de Mathématiques, Université de Genève
Prof. Christoph Keller, Departement Mathematik, ETH Zurich
Prof. Horst Knoerrer, Departement Mathematik, ETH Zurich
Prof. Antti Knowles, Section de Mathématiques, Université de Genève
Prof. Wolfgang Lerche, Theory Division, CERN
Prof. Michele Maggiore, Département de Physique Théorique, Université de Genève
Prof. Ioan Manolescu, Département de Mathématiques, Université de Fribourg
Prof. Marcos Mariño-Beiras, Section de Mathématiques et Département de Physique Théorique, Université de Genève
Prof. Grigory Mikhalkin, Section de Mathématiques, Université de Genève
Prof. Pierre Nolin, Departement Mathematik, ETH Zurich
Prof. Rahul Pandharipande, Departement Mathematik, ETH Zurich
Prof. João Penedones, Section de Physique, EPFL
Prof. Tudor Ratiu, Section de Mathématiques, EPFL
Prof. Riccardo Rattazzi, Section de Physique, EPFL
Prof. Susanne Reffert, Institut für Theoretische Physik, Universität Bern
Prof. Vyacheslav Rychkov, Theory Division, CERN
Prof. Benjamin Schlein, Institut für Mathematik, Universität Zürich
Prof. Amit Sever, Theory Division, CERN
Prof. Stanislav Smirnov, Section de Mathématiques, Université de Genève
Prof. Julian Sonner, Département de Physique Théorique, Université de Genève

Participating Institutions
Universität Bern (2 groups)/Université de Fribourg (1 group)/Université de Genève (15 groups)
Universität Zürich (4 groups)/EPFL (6 groups)
ETH Zurich (13 groups)/ CERN (3 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. Eva Bayer-Flückiger, SNF, Bern, CH
Prof. Frank Scheffold, SNF, Bern, CH

Management / Coordination
Dr. Maria Podkopaeva
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
Heads of Research Groups (continued)
Prof. Eugene Sukhorukov, Département de Physique Théorique, Université de Genève
Prof. Andras Szenes, Section de Mathématiques, Université de Genève
Prof. Alain-Sol Sznitman, Departement Mathematik, ETH Zurich
Prof. Vincent Tassion, Departement Mathematik, ETH Zurich
Prof. Yvan Velenik, Section de Mathématiques, Université de Genève
Prof. Maryna Viazovska, Section de Mathématiques, EPFL
Prof. Alessandro Vichi, Section de Physique, EPFL
Prof. Werner Werner, Departement Mathematik, ETH Zurich
Prof. Thomas Willwacher, Departement Mathematik, ETH Zurich
Prof. Peter Wittwer, Section de Mathématiques, Université de Genève

Overview of all Research Projects

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

<table>
<thead>
<tr>
<th>Funding Source (CHF)</th>
<th>Total Phase 1</th>
<th>2014</th>
<th>2015</th>
<th>2016</th>
<th>2017</th>
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<tbody>
<tr>
<td></td>
<td>2014 - 2017</td>
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<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SNSF-funding(^1)</td>
<td>11'209'000</td>
<td>2'300'000</td>
<td>2'900'000</td>
<td>3'000'000</td>
<td>3'009'000</td>
<td>39</td>
</tr>
<tr>
<td>Self-funding from Home Institutions(^2)</td>
<td>7'516'697</td>
<td>1'137'996</td>
<td>1'634'979</td>
<td>1'983'722</td>
<td>2'760'000</td>
<td>26</td>
</tr>
<tr>
<td>Self-funding from project participants</td>
<td>10'140'159</td>
<td>2'274'399</td>
<td>2'597'439</td>
<td>2'784'321</td>
<td>2'484'000</td>
<td>35</td>
</tr>
<tr>
<td>3rd party-funding</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
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<tr>
<td><strong>Total</strong></td>
<td><strong>28'865'856</strong></td>
<td>5'712'395</td>
<td>7'132'418</td>
<td>7'768'043</td>
<td>8'253'000</td>
<td>100</td>
</tr>
</tbody>
</table>

\(^1\) incl. mobility grant in year 2017

\(^2\) Personnel costs, equipment and consumables, not included infrastructure and basic equipment
### Persons involved

<table>
<thead>
<tr>
<th>Personnel</th>
<th>Total of persons</th>
<th>Female %</th>
<th>CH</th>
<th>Top 5 – Most represented nations</th>
<th>Other nations</th>
</tr>
</thead>
<tbody>
<tr>
<td>Research associates</td>
<td>16</td>
<td>38</td>
<td>12</td>
<td>IT 0</td>
<td>RU 1</td>
</tr>
<tr>
<td>Doctoral students</td>
<td>86</td>
<td>17</td>
<td>16</td>
<td>IT 14</td>
<td>RU 11</td>
</tr>
<tr>
<td>Postdoctoral students</td>
<td>46</td>
<td>13</td>
<td>2</td>
<td>IT 7</td>
<td>RU 3</td>
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<tr>
<td>Senior researchers</td>
<td>75</td>
<td>7</td>
<td>18</td>
<td>IT 13</td>
<td>RU 8</td>
</tr>
<tr>
<td>Management</td>
<td>5.81</td>
<td>53</td>
<td>8</td>
<td>IT 1</td>
<td>RU 4</td>
</tr>
<tr>
<td>Other Staff</td>
<td>1</td>
<td>100</td>
<td>1</td>
<td>IT 1</td>
<td>RU 0</td>
</tr>
<tr>
<td>Total</td>
<td>229.81</td>
<td>17</td>
<td>57</td>
<td>IT 36</td>
<td>RU 27</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Personnel</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Research associates</td>
<td>38 62</td>
</tr>
<tr>
<td>Doctoral students</td>
<td>37 83</td>
</tr>
<tr>
<td>Postdoctoral students</td>
<td>53 87</td>
</tr>
<tr>
<td>Senior researchers</td>
<td>7 93</td>
</tr>
<tr>
<td>Management</td>
<td>53 47</td>
</tr>
<tr>
<td>Other staff</td>
<td>100</td>
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</table>

#### Training state of doctoral students

- In progress: 77%
- Completed: 22%
- Continuation outside NCCR: 1%
- Dropout: 0%
- Total: 100%

#### Next employer of doctoral and postdoctoral students

- Academic sector: 68%
- Private sector: 6%
- Public sector: 0%
- Other: 1%
- None/not known: 1%
- Total: 76%
NCCR SYNAPSY
The synaptic bases of mental diseases

NCCR Director: Prof. Alexandre Dayer, NCCR Co-Director: Prof. Pierre Magistretti
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) CHUV-Université de Lausanne
Prof. Camilla Bellone, Département des neurosciences fondamentales (NEUFO) Université de Genève, Faculté de biologie et médecine
Prof. Bernhard Bettler, Departement Biomedizin, Universität Basel
Prof. Paola Bezzi, Département des neurosciences fondamentales (DNF), Université de Lausanne, Faculté de biologie et médecine
Prof. Olaf Blanke, Brain Mind Institute, EPFL
Prof. Alan Carleton, Département des neurosciences fondamentales (NEUFO), Université de Genève, Faculté de biologie et médecine
Prof. Pico Caroni, Friedrich Miescher Institute for Biomedical Research, Universität Basel
Prof. Stephanie Clarke, Neuropsychologie et neuro-réhabilitation, CHUV-Université de Lausanne
Prof. Philippe Conus, Service de Psychiatrie générale, Clinique psychiatrique universitaire, Cery-CHUV Lausanne
Prof. Alexandre Dayer, Département des neurosciences fondamentales (NEUFO), Université de Genève, Faculté de biologie et médecine
Prof. Kim Do, Centre de neurosciences psychiatriques, Unité de recherche sur la schizophrénie, Cery-CHUV Lausanne
Prof. Stephan Eliez, Office médico-pédagogique, 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, Faculté des sciences de base, EPFL, Brain Mind Institute, EPFL
Prof. Anthony Holtmaat, Département des neurosciences fondamentales (NEUFO), Université de Genève, Faculté de biologie et médecine
Prof. Christian Lüscher, Département des neurosciences fondamentales (NEUFO), Université de Genève, Faculté de biologie et médecine
Prof. Andreas Lüthi, Friedrich Miescher Institute for Biomedical Research, Universität Basel
Prof. Pierre Magistretti, Centre de Neuroscience psychiatrique, 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

Participating Institutions

Universität Basel/Friedrich-Miescher-Institut (4 groups)/Université de Genève/HUG Genève (10 groups)/Université de Lausanne/CHUV Lausanne (11 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. Robert C. Malenka, Stanford University School of Medicine, US

Prof. Michael Hottinger (Chair), SNF, Bern, CH
Prof. Isabelle Mansuy, SNF, Bern, CH
Prof. Hanns Ulrich Zellhofer, 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

NCCR SYNAPSY | 52
Heads of Research Groups (continued)
Prof. Christoph Michel, Département des neurosciences fondamentales (NEUFO), Université de Genève, Faculté de biologie et médecine
Prof. Micah Murray, Center for Biomedical Imaging, CHUV, Université de Lausanne
Prof. Martin Preisig, Clinique psychiatrique universitaire, Cery-CHUV Lausanne
Prof. Carmen Sandi, Brain Mind Institute, EPFL
Prof. Marie Schaer, Office médico-pédagogique, Université de Genève
Dr. Daniel Schechter, Psychiatrie de l’enfant et de l’adolescent, HUG-Hôpitaux Universitaires de Genève
Prof. Peter Scheiffele, Biozentrum, Universität Basel
Prof. Ralf Schneggenburger, Brain Mind Institute, EPFL
Prof. Andrea Volterra, Département des neurosciences fondamentales (DNF), CHUV-Université de Lausanne

Overview of all Research Projects

Output Data
Date since start

488 scientific publications
458 journal articles
thereof 445 peer-reviewed and
39 joint by more than one group
1 peer-reviewed other type of literature

6 articles
thereof 4 peer-reviewed
6 peer-reviewed books

784 academic events
individual talks
conference talks
invited talks or keynote lectures

126 transfer activities
89 cooperations
6 with economy / industry
74 with research institutions
9 others

8 stakeholder exchanges*
4 services
2 tools

3 technology transfer activities
2 IP-rights
1 start-up/spin-off

20 public communications*

Key collaborations with third parties
Academia
University of Munich, Institute of Psychiatric Phenomics and Genomics, DE
Mount Sinai, Department of Psychiatry, US
Free University Amsterdam, Department of Integrative Neurophysiology,
Center for Neurogenomics and Cognitive Research, NL
Karolinska Institute, Department of Neuroscience, SW
University of Milan, Neuroscience Institute , IT
Columbia University Medical Center, Department of Epidemiology and Psychiatry, US
King's College, Department of Psychosis Studies, UK
University of North Carolina School of Medicine, Depart. of Psychiatry, US
Mannheim University, Central Institute of Mental Health, DE
University of California, Los Angeles, Semel Institute for Neuroscience and Human Behaviour, US
Harvard Medical University, Department of Psychiatry, US
University of Pennsylvania, Department of Psychiatry, US
Centre for genomic regulation, CNAG, ES
King's College London, Inst. of Psychiatry, Psychology & Neuroscience, UK
INSERM, Translational Psychiatry, FR
NIMH, Genetic Epidemiology Research Branch (GEF-SDGE), US
Simon Fraser University, Faculty of Health Sciences, CA

Private and public sector
F. Hoffmann-La Roche Ltd, CH
Illumina, DE
Fondation Pôle Autisme, CH
## Funding

<table>
<thead>
<tr>
<th>Funding Source (CHF)</th>
<th>Total Phase 1 2010 - 2013</th>
<th>Total Phase 2 2014 - 2017</th>
<th>2014</th>
<th>2015</th>
<th>2016</th>
<th>2017</th>
<th>Phase 2</th>
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<td>Self-funding from Home Institutions²</td>
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<td>387'462</td>
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<td>10'736'492</td>
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</table>

¹ incl. compensation for PhD salaries increase in 2014 and 120% support grant in 2016 and 2017
² Personnel costs, equipment and consumables, not included infrastructure and basic equipment
### Persons involved

<table>
<thead>
<tr>
<th>Personnel③</th>
<th>Total of persons</th>
<th>Female %</th>
<th>CH</th>
<th>Top 5 – Most represented nations</th>
<th>Other nations</th>
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<td>Research associates④</td>
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<td>DE</td>
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<td>Senior researchers⑤</td>
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<td>Management⑥</td>
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<td>57</td>
<td>84</td>
<td>30</td>
<td>Total</td>
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</table>

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**

<table>
<thead>
<tr>
<th>Personnel</th>
<th>Female %</th>
<th>Male %</th>
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</thead>
<tbody>
<tr>
<td>Research associates</td>
<td>68</td>
<td>32</td>
</tr>
<tr>
<td>Doctoral students</td>
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<td>35</td>
</tr>
<tr>
<td>Postdoctoral students</td>
<td>65</td>
<td>35</td>
</tr>
<tr>
<td>Senior researchers</td>
<td>32</td>
<td>68</td>
</tr>
<tr>
<td>Management</td>
<td>59</td>
<td>50</td>
</tr>
<tr>
<td>Other staff</td>
<td>84</td>
<td>16</td>
</tr>
</tbody>
</table>

### Training state of doctoral students

**Data: since start**

- In progress: 28
- Completed: 22
- Continuation outside NCCR: 19
- Dropout: 6
- Total: 75

### Next employer of doctoral and postdoctoral students

**Data: since start**

- Academic sector: 63
- Private sector: 6
- Public sector: 9
- Other: 3
- None/not known: 15
- Total: 96
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
Dr. Paola Bezzi, Département des neurosciences fondamentales, Université de Lausanne
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. Daniel G. Fuster, Institut für Biochemie und Molekulare Medizin, Universität Bern
Prof. Jürg Gertsch, Institut für Biochemie und Molekulare Medizin, Universität Bern
Prof. Matthias A. Hediger, Institut für Biochemie und Molekulare Medizin, Universität Bern
Prof. Kasper Locher, Institut für Molekulare Biologie und Biophysik, ETH Zürich
Prof. Martin Lochner, Institut für Biochemie und Molekulare Medizin, Universität Bern
Prof. Christine Peineit, Institut für Biochemie und Molekulare Medizin, Universität Bern
Prof. Jean-Louis Reymond, Department of Chemistry and Chemical Engineering, California Institute of Technology, US
Prof. Jürg Gertsch, Institut für Biochemie und Molekulare Medizin, Universität Bern
Prof. Henning Stahlberg, Biozentrum, Department for Biosystems Science and Engineering, Universität Basel
Prof. Bruno Stieger, Abteilung für Klinische Pharmakologie und Toxikologie, Universitätsspital Zürich
Prof. Andrea Volterra, Département des neurosciences fondamentales, Université de Lausanne

Overview of all Research Projects

Participating Institutions
Universität Basel (1 group)/Universität Bern (11 groups)/Université de Lausanne (3 groups)/Universität Zürich (2 groups)/ETH Zürich (2 groups)

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

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

- **235 scientific publications**
  - 209 journal articles
  - 11 books thereof 5 peer-reviewed
  - 6 peer-reviewed articles
- **230 academic events**
  - Individual talks, conference talks, invited talks or keynote lectures
- **147 transfer activities**
  - 132 cooperations
  - 4 technology transfer activities
  - 1 scientific services
  - 1 stakeholder exchanges
  - 9 public communications

### Funding

<table>
<thead>
<tr>
<th>Funding Source (CHF)</th>
<th>Total Phase 1 2010 - 2013</th>
<th>Total Phase 2 2014 – 2017</th>
<th>2014</th>
<th>2015</th>
<th>2016</th>
<th>2017</th>
<th>Phase 2 %</th>
</tr>
</thead>
<tbody>
<tr>
<td>SNSF-funding¹</td>
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<tr>
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<tr>
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<td>34'404</td>
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<tr>
<td>Total</td>
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<td>7'298'989</td>
<td>7'587'769</td>
<td>6'322'690</td>
<td>100</td>
</tr>
</tbody>
</table>

¹ incl. compensation for PhD salaries increase in 2014 and 120% support-grant in 2016 and 2017

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

### Key collaborations with third parties

#### Academia
- Aarhus University Hospital, Dept. of Nuclear Medicine and PET Center, Aarhus, DK
- 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
- Department of Behavioral Sciences, University of Ariel, Ariel, IL
- Department of Biochemistry and Biophysics, Stockholm University, Stockholm, SWE
- Department of Neuroscience, Columbia University, New York, US
- Department of Pharmaceutical Chemistry, University of Vienna, Vienna, AT
- Department of Pharmacology, University of Warwick, Coventry, GB
- Department of Physiology, Johns Hopkins University, Baltimore, US
- Department of Surgery & Cancer, Imperial College, London, GB
- Heart Institute, University of Ottawa, Ottawa, CA
- Institut du Thorax, Université de Nantes, Nantes, FR
- Institute for Research in Biomedicine, University of Barcelona, Barcelona, ES
- Institute of Pharmacy, University of Regensburg, Regensburg, DE
- Membrane Research Group, Hungarian Academy of Sciences, Budapest, HU
- Division of Child Health, Obstetrics & Gynaecology, University of Nottingham, Nottingham, UK

#### Private and public sector
- Dr. August Wolff GmbH, Bielefeld, DE
- Krebsforschung Schweiz, Bern, CH
- Swiss Multiple Sclerosis Foundation, Zürich, CH
- Novartis, Basel, CH

**NCCR TransCure | 57**
### Persons involved

<table>
<thead>
<tr>
<th>Personnel</th>
<th>Total of persons</th>
<th>Female %</th>
<th>CH</th>
<th>IT</th>
<th>DE</th>
<th>FR</th>
<th>IN</th>
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<tbody>
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<tr>
<td>Postdoctoral students</td>
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<td>3</td>
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<td>4</td>
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<tr>
<td>Senior researchers</td>
<td>34</td>
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</table>

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**

<table>
<thead>
<tr>
<th>Personnel</th>
<th>% Male</th>
<th>% Female</th>
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<tbody>
<tr>
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<tr>
<td>Other staff</td>
<td>23</td>
<td>77</td>
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</table>

### Training state of doctoral students

**Data: since start**

- In progress: 22
- Completed: 23
- Continuation outside NCCR: 11
- Dropout: 2
- Total: 58

### Next employer of doctoral and postdoctoral students

**Data: since start**

- Academic sector: 93
- Private sector: 22
- Public sector: 5
- Other: 4
- None/not known: 10
- Total: 134

List of the six NCCRs (2nd series, restricted call for humanities and social sciences)

<table>
<thead>
<tr>
<th>Short Name</th>
<th>NCCR Director</th>
<th>Home Institution</th>
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<tbody>
<tr>
<td>Affective Sciences</td>
<td>Prof Klaus R. Scherer (2005–2013)</td>
<td>University of Geneva</td>
</tr>
<tr>
<td></td>
<td>Prof. David Sander (2013–2017)</td>
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<tr>
<td>Democracy</td>
<td>Prof. Hanspeter Kriesi (2005–2013)</td>
<td>University of Zurich</td>
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<td></td>
<td>Prof. Daniel Kübler (2013–2017)</td>
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<tr>
<td>Iconic Criticism</td>
<td>Prof. Gottfried Böhm (2005–2013)</td>
<td>University of Basel</td>
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<td></td>
<td>Prof. Ralph Ubl (2013–2017)</td>
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<tr>
<td>International Trade Regulation</td>
<td>Prof. Thomas Cottier (2005–2013)</td>
<td>University of Bern</td>
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<td></td>
<td>Prof. Manfred Elsig (2014–2017)</td>
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<tr>
<td>Mediality</td>
<td>Prof. Christian Kiening (2005–2017)</td>
<td>University of Zurich</td>
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2nd Call of NCCRs: Funding in phase 1, 2 and 3

<table>
<thead>
<tr>
<th>Funding source (CHF)</th>
<th>Phase 1</th>
<th>Phase 2</th>
<th>Phase 3</th>
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<td>30'023'578</td>
<td>125'588'598</td>
<td>44</td>
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<td>Self-funding from Home Institutions¹</td>
<td>21'665'810</td>
<td>21'232'514</td>
<td>20'700'572</td>
<td>63'598'996</td>
<td>22</td>
</tr>
<tr>
<td>Self-funding from project participants</td>
<td>25'566'273</td>
<td>30'308'106</td>
<td>25'840'149</td>
<td>81'714'528</td>
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<tr>
<td>Third-party funding</td>
<td>6'783'879</td>
<td>6'035'036</td>
<td>5'773'989</td>
<td>18'592'904</td>
<td>6</td>
</tr>
<tr>
<td>Total</td>
<td>104'515'962</td>
<td>102'640'676</td>
<td>82'338'288</td>
<td>289'494'926</td>
<td>100</td>
</tr>
</tbody>
</table>

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

Knowledge and technology transfer – Output Data*

<table>
<thead>
<tr>
<th>Type of output</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Publications</td>
<td>2256 Peer-reviewed; 1141 Not peer-reviewed; 2193 Anthology articles; 707 Books; 162 Reports</td>
</tr>
<tr>
<td>Presentations at congresses</td>
<td>6459</td>
</tr>
<tr>
<td>Cooperation</td>
<td>51 Economy/Industry sector; 976 Research institutions; 155 Other</td>
</tr>
<tr>
<td>Transfer activities</td>
<td>1 Start-up; 46 Prototypes/processes; 1 CTI project</td>
</tr>
</tbody>
</table>

*without NCCR SESAM
### Education and Training - Equal opportunities - Researchers involved in all 2nd series NCCRs (2005–2013)

<table>
<thead>
<tr>
<th>Personnel</th>
<th>Total of persons</th>
<th>Female %</th>
<th>CH</th>
<th>Other nations</th>
</tr>
</thead>
<tbody>
<tr>
<td>Doctoral students</td>
<td>432</td>
<td>58</td>
<td>199</td>
<td>75</td>
</tr>
<tr>
<td>Postdoctoral students</td>
<td>247</td>
<td>52</td>
<td>56</td>
<td>56</td>
</tr>
<tr>
<td>Senior researchers</td>
<td>358</td>
<td>32</td>
<td>53</td>
<td>54</td>
</tr>
</tbody>
</table>

### Phase 1

- **Doctoral students**
  - Total: 57
  - Female: 43
- **Postdoctoral students**
  - Total: 49
  - Female: 57
- **Senior researchers**
  - Total: 25
  - Female: 75

### Phase 2

- **Doctoral students**
  - Total: 59
  - Female: 41
- **Postdoctoral students**
  - Total: 52
  - Female: 48
- **Senior researchers**
  - Total: 33
  - Female: 67

### Phase 3

- **Doctoral students**
  - Total: 59
  - Female: 41
- **Postdoctoral students**
  - Total: 58
  - Female: 42
- **Senior researchers**
  - Total: 34
  - Female: 66
### First employer after training

<table>
<thead>
<tr>
<th>Category</th>
<th>Doctoral students %</th>
<th>Postdoctoral students %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Academic sector</td>
<td>48</td>
<td>63</td>
</tr>
<tr>
<td>Private sector</td>
<td>7</td>
<td>7</td>
</tr>
<tr>
<td>Public sector</td>
<td>8</td>
<td>4</td>
</tr>
<tr>
<td>Other</td>
<td>3</td>
<td>1</td>
</tr>
<tr>
<td>Unknown</td>
<td>18</td>
<td>11</td>
</tr>
<tr>
<td>Training ongoing*</td>
<td>16</td>
<td>14</td>
</tr>
<tr>
<td>Total</td>
<td>100</td>
<td>100</td>
</tr>
</tbody>
</table>

* Training not yet finished when the NCCR has ended.

### Structural measures - Impact on research structures

**Number of professorial positions**

| New assistant professorships | 15 |
| New full professorships     | 6  |
| Replacement of existing professorships | 15 |
| Total                       | 36 |

### Most important research centres

<table>
<thead>
<tr>
<th>NCCR</th>
<th>Centres</th>
<th>Research infrastructure</th>
<th>Education programmes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Affective Sciences</td>
<td>Swiss Centre for Affective Sciences (CISA), University of Geneva (Interfaculty Centre)</td>
<td>Brain and behaviour laboratory / Campus Biotech laboratories</td>
<td>Doctoral programme at University of Geneva (accessible Swiss-wide)</td>
</tr>
<tr>
<td>Home Institution:</td>
<td></td>
<td></td>
<td>International Summer School in Affective Sciences</td>
</tr>
<tr>
<td>Democracy</td>
<td>Center for Democracy Aarau (ZDA) (Multi-institutional Centre)</td>
<td>Democracy Barometer (Data infrastructure at ZDA)</td>
<td>Doctoral programme at University of Zurich and others (accessible Swiss-wide)</td>
</tr>
<tr>
<td>Iconic Criticism</td>
<td>eikones – Zentrum für Theorie und Geschichte des Bildes, Universität Basel (Interfaculty Centre)</td>
<td>-</td>
<td>Doctoral programme, accessible for doctoral students of University of Basel / ETH Zurich</td>
</tr>
<tr>
<td>(2005–2017)</td>
<td></td>
<td></td>
<td>NOMIS Fellowship Programme</td>
</tr>
<tr>
<td>Mediality</td>
<td>Zentrum für historische Mediologie UZH (Faculty Centre)</td>
<td>-</td>
<td>Doctoral programme University of Zurich (association possible for students of other Universities)</td>
</tr>
<tr>
<td>Trade Regulation</td>
<td>World Trade Institute, University of Bern (Interfaculty Centre)</td>
<td>Design of Trade Agreements Database (DESTA)</td>
<td>Graduate School at the World Trade Institute, University of Bern</td>
</tr>
</tbody>
</table>
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 2017. It is updated every year and can be downloaded as a pdf on our website: www.snsf.ch/Publications

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