Postgraduate Training Network in Biotechnology of Neurosciences (BioN)

Tempus IV 2nd Call for Proposals EAC/01/2009
Proposal 159313-TEMPUS-1-2009-1-FI-TEMPUS-JPTC

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Helsinki

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BioN secretary  
Moscow

22/11/2010
Postgraduate Training Network in Biotechnology of Neurosciences (BioN)

Grant holder/Coordinator
University of Helsinki
Faculty of Biosciences

Professor Kai Kaila
Coordinator Katri Wegelius
Finnish Graduate School of Neuroscience (FGSN)
### Previous experience and collaboration

| Finnish Graduate School of Neuroscience  
(Ministry of Education, Academy of Finland, 1995-2010) |
|---------------------------------------------------|
| Cortex Training Network (EU Marie Curie EST  
2006-2009)                                       |
| Joint Nordic-Russian Network of Neuroscience  
Graduate Schools (Nordic Council of Ministers)  
2008-2010                                           |
| PENS/Tempus School: Models in neuroscience:  
turning experiments into knowledge (FENS, 2008)      |

| Master’s Program in Neuroscience  

**Master's Programme in Neuroscience: 'From Neuron to Cognition'**

- Cellular neuroscience
- Cognitive neuroscience
- Computational neuroscience

Saint Petersburg State University
Postgraduate Training Network in Biotechnology of Neurosciences (BioN)

EU PARTNERS

1. University of Helsinki, Finland
2. Umeå University, Sweden
3. Medical Research Council, Cambridge, UK
4. Italian Institute of Technology, Genova, Italy
5. Ecole Normale Supérieure de Paris, France

+ 3 Individual Experts in EU Institutes

RUSSIAN PARTNERS

1. University of St. Petersburg
2. Nizhny Novgorod State University
3. Southern Federal University
4. Lomonosov Moscow State University
5. Ioffe Physico-Technical Institute, St. Petersburg
6. St. Petersburg Academic University – Nanotechnology Research and Education Centre RAS

5. BS Soft, St. Petersburg
6. Association of Classical Universities
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EU PARTNERS

1. University of Helsinki, Finland
   Finnish Graduate School of Neuroscience (FGSN)
2. Umeå University, Sweden
   Department of Integrative Medical Biology
3. Medical Research Council, Cambridge, UK
   Cognition and Brain Sciences Unit
4. Italian Institute of Technology, Genova, Italy
   Department of Neuroscience and Brain Technologies
5. Ecole Normale Supérieure de Paris, France
   Group for Neural Theory

+ 3 Individual Experts in EU Institutes:
  Vasily Klutcharev
  Ivan Pavlov
  Elena Kushnerenko

RUSSIAN PARTNERS

1. University of St. Petersburg
   Faculty of Biology and Soil Sciences
2. Nizhny Novgorod State University
   Dept. of Neurodynamics and Neurobiology
3. Southern Federal University
   Human and Animal Physiology
4. Lomonosov Moscow State University
   Higher Nervous Activity
5. Ioffe Physico-Technical Institute, St. Petersburg
   Computational Physics Laboratory
6. St. Petersburg Academic University – Nanotechnology
   Research and Education Centre RAS
   Laboratory of Bionanotechnologies
5. BS Soft, St. Petersburg
   Computational biotechnology
6. Association of Classical Universities
   Centre for Networking and Academic Mobility
Main goal is to establish the first Russian nation-wide graduate school network, with a focus on biotechnology and neurosciences.
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National priority (Russia): Biotechnology

Needs analysis:
• Necessity and innovation of creating a network of PhD programs in Russia, using Finnish Graduate School of Neuroscience as a model
• Developing biotechnology in Russia
• Strengthening the interdisciplinary neuroscience community among Russian and European members
• Model for other future (PhD) networks.

Strengths:
• Majority of participating staff Russian-speaking
• Administrative and technical expertise: previous Tempus activities and other EU funding programs/networks
• Expertise in the thematic field (neuroscience/biotechnology)
Modernization of postgraduate education in Russia (introduction of the 3\textsuperscript{rd} level of education)

- European Credit Transfer System (ECTS) into postgraduate education
- English courses for students & teachers
- Postgraduate courses in neuroscience (in English)
- Guidelines for postgraduate education / PhD thesis: Common standards and practices to improve the quality control of post-graduate training

Increasing national and international networking/collaboration in education and research:

- Facilitating national and international information exchange
- Promoting coordinated activities
- Website (courses, materials, library)
- Students’ meetings
- Students’ and teachers’ mobility/practical training
Management:
• Managing coordinator (Finland) + administrative coordinator (Russia)
• Executive board
• Student board
• Advisory board

Important: Balanced distribution of tasks/responsibilities between partners

Dissemination: website, promotion at national and international level

Sustainability: long-term impact and effect on Russian postgraduate education by program quality, networking, effective administration and accreditation by Russian Authorities
Running a Tempus project

Project cycle

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<th>Main Idea</th>
<th>Friends-Partners</th>
<th>Negotiating</th>
<th>Proposal</th>
<th>Implementation</th>
<th>Reporting</th>
</tr>
</thead>
</table>
Project idea

- What are the goals that you want to achieve?
- How to achieve the goals?
- What are the priority interests of the next proposal call?
Find friends to support your project

- Your partners — your friends
- Contact persons — your best friends
- Best case — partners are in the institution administration
- Minimum requirements - partners are in good relationship with institutional administration
- Partners with previous experience in related projects/networks
Negotiating the proposal

- Agree the partners’ roles in the project at the proposal stage
- Involve future partners in the writing process of the proposal
- Negotiate budget shares between partners
Proposal

- Follow your idea but in grant policy limits and top-priority interests
- Plan your budget according to Tempus rules
- Mark down staff costs (no more that 40%)
- Think about 10 % of co-financing — inform partners in advance
Feedback from experts after assessment on award criteria

**Most difficult criteria to assess**
- Relevance
- Budget and cost effectiveness

**Part of application best completed**
- Logical framework
- Work plan
- Needs analysis
- Description of partner institutions
- Project summary

**Part of application worst completed**
- Sustainability and dissemination
- Outcome & activity tables
- Quality control, monitoring and management
- Budget

Borrowed from a presentation at the Project coordinators’ meeting, Brussels, March 2010
Implementing the project

• Additional contracts between the grant holder and the partners
• Clear structure of administration, communication and reporting
• Coordinator for partner country beneficiaries
• Note the cultural and political differences
• Involve partners in reporting
Reporting

• Disaster if things have not been well planned in advance
• Important: ALL receipts, mobility reports, staff convention reports
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Activities in 2010
Бион: Нейротехнологии 2010

24-29 Сентября 2010
Московская обл., Бекасово

Школа посвящена новейшим достижениям когнитивных биотехнологий
(Мозг-Компьютер Интерфейсы, Нейромаркетинг и др.).

www.school.neurobiotech.ru
Seminar series “Neurotechnology“

<table>
<thead>
<tr>
<th>Date</th>
<th>Title</th>
<th>Speaker</th>
<th>Host Institution</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fri, 2010-10-22</td>
<td>to be announced</td>
<td>Raul Gainetdinov (Italian Institute of Technology)</td>
<td>Moscow University</td>
</tr>
<tr>
<td>Fri, 2010-11-19</td>
<td>будет анонсирован</td>
<td>Alexander Kaplan (Moscow University)</td>
<td>Nizhnij Novgorod University</td>
</tr>
<tr>
<td>Fri, 2010-12-17</td>
<td>будет анонсирован</td>
<td>Alexander Dityatev (Italian Institute of Technology)</td>
<td>S-Petersburg University</td>
</tr>
<tr>
<td>Fri, 2011-02-18</td>
<td>будет анонсирован</td>
<td>Etienne Koechlin (Ecole Normale Supérieure)</td>
<td>Moscow University</td>
</tr>
</tbody>
</table>

Video recording – online “webinar“
## Main courses

Basic intensive BioN courses, conducted in Russian universities, BioN partners (available Travel Grants to university students)

<table>
<thead>
<tr>
<th>Date</th>
<th>Title</th>
<th>Speaker</th>
<th>Host Institution</th>
<th>Duration(days)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sat, 2011-01-22</td>
<td>Нейроэкономика: нейробиология принятия решений = Neuroeconomics</td>
<td>Ключарев В.А., Шестакова А.Н., Черняцов Н.С.</td>
<td>СПбГУ &amp; МГУ</td>
<td>3</td>
</tr>
<tr>
<td>Sun, 2011-01-23</td>
<td>Синаптическая и нейронная пластичность = Synaptic and neuronal plasticity</td>
<td>Павлов И. Чинов А. Зыкин, П.</td>
<td>СПбГУ</td>
<td>3</td>
</tr>
<tr>
<td>Thu, 2011-02-24</td>
<td>НейроТомография = Neuroimaging (MEG, TMS, OI, FMRI, PET)</td>
<td>Шестакова А.Н., Оссадчий А.</td>
<td>СПбГУ</td>
<td>3</td>
</tr>
<tr>
<td>Fri, 2011-02-25</td>
<td>Эволюция, поведение и нейрогенетика = Neurogenetics &amp; Практикум: Современные методы регистрации поведения животных = Modern methods of behavior registration</td>
<td>Поляева А. И., Перепелкина О. и. &amp; М. Плескатьева, П. Купцов</td>
<td>МГУ</td>
<td>3</td>
</tr>
<tr>
<td>Sat, 2011-02-26</td>
<td>Оптические методы регистрации нейронной активности = Optical methods of registration of neuronal activity</td>
<td>Бондарь И. В., Балабан Р. М.</td>
<td>МГУ</td>
<td>3</td>
</tr>
<tr>
<td>Sat, 2011-02-26</td>
<td>Нейротехнологии = Brain-computer interface &amp; EEG and eye tracking</td>
<td>А. Каплан</td>
<td>МГУ</td>
<td>3</td>
</tr>
<tr>
<td>Mon, 2011-02-28</td>
<td>Введение в Нейромоделирование = Introduction into neuromodeling (NEURON GENESIS XPP PyNN + NeuroCAD)</td>
<td>Тикиди-Хамбруян, А. Чижов</td>
<td>ЮФУ, при участии ФТИ</td>
<td>3</td>
</tr>
<tr>
<td>Tue, 2011-03-01</td>
<td>Нейрофизиологические механизмы восприятия = Neurophysiological mechanisms of perception</td>
<td>Тер-Оганесян Н. Шапошников</td>
<td>ЮФУ</td>
<td>3</td>
</tr>
<tr>
<td>Fri, 2011-04-01</td>
<td>Имиджинг в клеточной нейробиологии = Cellular imaging</td>
<td>А. Семянов</td>
<td>ННУ</td>
<td>3</td>
</tr>
<tr>
<td>Fri, 2011-04-01</td>
<td>Нейромоделирование (предварительное название) = Neuromodeling</td>
<td>V. Казанцев, И. Мухина</td>
<td>ННУ</td>
<td>3</td>
</tr>
</tbody>
</table>
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www.neurobiotech.ru

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