



Curriculum



Ivan Pavlov & Vasily Klucharev

Summer/Winter Schools (3)

- ▶ The 1st one is starting tomorrow
- ▶ The 2nd one will be in Nizhniy Novgorod (2011) (V. Kazantsev)
- ▶ The 3rd one on the boat St-Pb – Moscow (2012) (V. Moiseeva)



Seminar series “Neurotechnology”


g to create Russian Graduate School of Neuroscience

Project Study process Consortium Contacts

Study

Kaluga 23.09.2010
ologies 2010”, Moscow

- Seminar “Neurotechnologies”
- BioN schools
- Lectures



The head of the p
Postgraduate Tra
Biotechnology of
launched in 2010
by the EU that res

Seminar “Neurotechnology/Нейротехнологии”

Monthly seminar held at BioN partner universities. Lectures on the latest neuroscience trends is read by outstanding researchers worldwide.

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

bsite:

- Organise video recording and put on the website
- Turn into on-line webinar

Open courses (student mobility sponsored by the programme)

Sat, 2011-01-22	Нейроэкономика: нейробиология принятия решений = Neuroeconomics	Ключарев В.А., Шестакова А.Н., Чернецов Н.С.	СПбГУ & МГУ	3
Sun, 2011-01-23	Синаптическая и нейронная пластичность = Synaptic and neuronal plasticity	Павлов И. Чижов А. Зыкин, П.	СПбГУ	3
Thu, 2011-02-24	Нейроимиджинг = Neuroimaging (MEG, TMS, OI, FMRI, PET)	Шестакова А.Н, Оссадчий А.	СПбГУ	3
Fri, 2011-02-25	Этология, поведение и нейрогенетика = Neurogenetics & Практикум: Современные методы регистрации поведения животных = Modern methods of behavior registration	Poletaeva I. I. Perepelkina O.V. & M. Pleskatcheva, P. Kuptsov	МГУ	3
Sat, 2011-02-26	Оптические методы регистрации нейронной активности = Optical methods of registration of neuronal activity	Bondar' I.V. Balaban P.M.	МГУ	3
Sat, 2011-02-26	Нейротехнологии = Brain-computer interface & EEG and eye tracking	A. Kaplan	МГУ	3
Mon, 2011-02-28	Введение в Нейромоделирование = Introduction into neuromodeling (NEURON GENESIS XPP PyNN + NeuroCAD)	R.A. Tikidji-Hamburyan, A. Chizhov	ЮФУ, при участии ФТИ	3
Tue, 2011-03-01	Нейрофизиологические механизмы восприятия = Neurophysiological mechanisms of perception	Ter-Oganessian N. Shaposhnikov D.G. Podladchikova L.N. Aydar kin E.K. Pavlovskaya M. A, Aydarkina E., Sherbina D., Starostin A.	ЮФУ	3
Fri, 2011-04-01	Имиджинг в клеточной нейробиологии = Cellular imaging	A. Semyanov	ННУ	3
Fri, 2011-04-01	Нейромоделирование (предварительное название) = Neuromodeling	V. Kazantsev, I. Mukhina	ННУ	3



Open courses (student mobility sponsored by the programme)

- ▶ Finalise the list
- ▶ Provide dates (starting spring 2011)
- ▶ Olga – how many students can travel?
- ▶ Web interface for student applications



Additional courses

			Institution
Fri, 2011-01-21	Statistics for behavioural studies	N. Dich	SPU
Fri, 2011-01-21	Physiological basis of speech perception	D. Kisliuk & N. Slusar	SPU
Fri, 2011-01-21	семинары "психофизиология творчества".	N. Shemyakina	SPU
Sat, 2011-01-22	Dynamical system theory / statistical physics	A. Chizhov	Ioffe Institute
Sun, 2011-01-23	Krushinski-Molodkina rats as a model of pathological states	Fedotova Irina Borisovna	MGU
Sun, 2011-01-23	Electrophysiological correlates of attention in humans	Latanov Alexander Vasilievich	MGU
Sun, 2011-01-23	Cognitive processes and programming of saccades	Viktoria Moiseeva	MGU
Sun, 2011-01-23	"Modern methods of behavior registration (videotracking with use of Ethovision XT7 soft (Noldus)	M. Pleskatcheva & P. Kuptsov	MGU
Sun, 2011-01-23	Different models of epileptiform activity in rats	Gulyaeva N.V	MGU & VND
Sun, 2011-01-23	Plasticity mechanisms in hippocampal neuronal networks	Korshunov V.A.	MGU & VND
Sun, 2011-01-23	Studies of animal behaviour in neurophysiological research	Merzhanova G.C	MGU & VND
Mon, 2011-01-24	Review of proteomics & proteome analysis techniques	Kolosov V.	
Mon, 2011-01-24	Neural network and machine learning methods for EEG-based Brain-Computer Interfaces	Shepelev I	SFU
Mon, 2011-01-24	Biologically plausible models as tools to study visual perception mechanisms	Shaposhnikov D.G.	SFU
Mon, 2011-01-24	Carry out the computational experiments with model of viewing trajectory formation	Anischenko S.I.	SFU
Mon, 2011-01-24	Physiology of neurons and glia	Uzdensky A.B.	SFU
Mon, 2011-01-24	What can we learn about cognitive processes from human eye movements?	Podladchikova L.N. T. Koltunva	SFU
Mon, 2011-01-24	Modern problems of columnar organization of the cortical neurons.	Podladchikova L.N.	SFU
Mon, 2011-01-24	Introduce to Plexon MAP system	Belova E.	SFU
Mon, 2011-01-24	Neurophysiological mechanisms of interaction between visual and auditory systems	Aydarkin E.K.	SFU
Mon, 2011-01-24	Neurophysiological mechanisms of sensory noise-sustainability during sensory-motor integration	Pavlovskaya M.A.	SFU

Practical placements

- ▶ Up to 3 months
- ▶ Should be justified by scientific collaboration
- ▶ To apply contact Olga first!
- ▶ Reports
- ▶ Web pages of the labs



Miscellaneous

- ▶ We will create a booklet with curriculum and will need a brief description of each course (use Vasily's as a template)
- ▶ Annual science fairs (students evaluation and feedback)
- ▶ ECTS
- ▶ List of students for e-mail circulation



Ambitious, but will pay off

- ▶ Create positions in Russian partner Universities for foreign researchers

