BioN report: the course "Neurophysiological mechanisms of perception" May 10-12, 2011, SFU, Rostov-on-Don, Russia

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During the course "Neurophysiological mechanisms of perception" we attended the lectures dedicated to different problems in modern computational neurosciences and physiology of perception. The course was supplemented with appropriate practice.

There were following themes of lectures: "Neurophysiological mechanisms of sensory-motor integration", "Modern problems of columnar organization of the cortical neurons", "What can we know about cognitive processes by the human eye movements?" and "Biologically plausible models as tools to study visual perception mechanisms". Themes of practice were concerning modeling of functional states; discrimination of neurons based on forms of their spikes; development of optimal algorithm of image analysis, based on eye-movements data and how to obtain this data. Tutors were very qualified in their fields and explained us basic principles of processing of experimental data.

This course was really useful and helpful for us and we would like to express our gratitude to organizers, lecturers and tutors: Marina Pavlovskaya, Viktoria Moiseeva: Evgeny Aydarkin, Lubov Podladchikova and Dmitry Shaposhnikov.

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