

## **2015**

### Mgr. thesis

Mgr. Pavel Svehla

Characterization of the effect of pregnanolone sulfate and its derivatives on NMDA receptors

Supervisor doc. MUDr. Ladislav Vyklicky ml., DSc.

Mgr. Stepan Chvojka

Molecular mechanisms of activation and modulation of TRPV3 receptor

Supervisor RNDr. Viktorie Vlachova, DSc.

Mgr. Jana Vaskova

Functional role of cytoplasmic domains in the gating of TRPA1 channel

Supervisor RNDr. Viktorie Vlachova, DSc.

## **2014**

### Bc. Thesis

Bc. Jiri Navratil

Glutamate ion channels – their function, structure and mechanism of action

Supervisor RNDr. Ales Balik, Ph.D.

### Dissertation

Mgr. Stepana Boukalova, Ph.D.

Mechanisms of activation and modulation of vanilloid TRP channels

Supervisor RNDr. Viktorie Vlachova, DSc.

## **2010**

### Dissertation

RNDr. Jiri Lindovsky, Ph.D.

Interactions of binding sites of wildtype and mutated nicotinic receptors with ligands

Supervisor RNDr. Jan Krusek, Ph.D.

Mgr. Abdul Samad, Ph.D.

Structural and Functional Study on Transient Receptor Potential Vanilloid 1 (TRPV1) and Ankyrin Receptor (TRPA1) Channels

Supervisor RNDr. Viktorie Vlachova, DSc.

## **2009**

### Dissertation

Ing. Ondrej Cais, Ph.D.

A study of the modulation of recombinant and native NMDA receptors by physical and chemical factors

Supervisor doc. MUDr. Ladislav Vyklicky ml., DSc.

Ing. Jan Benedikt, Ph.D.

Study of Structure-Function Relationship of Temperature-Gated TRP Channels  
Supervisor RNDr. Viktorie Vlachova, DSc.

RNDr. Lucie Svobodova, Ph.D.

Study of Activation and Modulation of Muscle Nicotinic Acetylcholine Receptors  
Using Point Mutations

Supervisor RNDr. Jan Krusek, Ph.D.

Karolina Novakova-Tousova, Ph.D.

The vanilloid receptor TRPV1 in the mechanisms of nociception

Supervisor RNDr. Viktorie Vlachova, DSc.

## **2008**

### Mgr. thesis

Mgr. Eva Adamusova

Identification of binding sites and molecular mechanism of neurosteroids  
functioning at NMDA receptors

Supervisor doc. MUDr. Ladislav Vyklicky ml., DSc.

### Dissertation

Mgr. Miloslav Sedlacek, Ph.D.

Neuronal excitability, properties of native NMDA receptors, their modulation by  
physical and chemical factors

Supervisor doc. MUDr. Ladislav Vyklicky ml., DSc.

## **2006**

### Dissertation

Mgr. Klara Ivankova-Susankova, Ph.D.

Structure and function of the vanilloid receptor TRPV1

Supervisor RNDr. Viktorie Vlachova, DSc.

## **2005**

### Dissertation

RNDr. Kamil Vlcek, Ph.D.

Poruchy prostorové orientace u pacientu s Alzheimerovou demencí a pacientu s  
lézí temporálního laloku

Supervisor doc. MUDr. Ladislav Vyklicky ml., DSc.

RNDr. Vera Bubenikova-Valesova, Ph.D.

Role of glutamatergic system in the pathophysiology of schizophrenia

Supervisor doc. MUDr. Frantisek Stastny, CSc.

MUDr. Miloš Petrović, PhD.

Effects of neurosteroids on native and recombinant NMDA receptors

Supervisor doc. MUDr. Ladislav Vyklicky ml., DSc.

**2003**

Dissertation

Mgr. Alla Lyfenko, Ph.D.

The role of vanilloid receptor (VR1) in cellular mechanisms of nociception

Supervisor MUDr. Ladislav Vyklicky st., DSc.

**2001**

Dissertation

Mgr. Lioudmila Pliss, Ph.D.

N-Acetyl-aspartyl-glutamate interaction with glutamate receptors

Supervisor doc. MUDr. Frantisek Stastny, CSc.

**1999**

Dissertation

MUDr. Galya Abdrakhmanova, Ph.D.

Properties of glutamate receptors in rat spinal cord motoneurons

Supervisor doc. MUDr. Ladislav Vyklicky ml., DSc.

**1997**

Dissertation

RNDr. Rostislav Turecek, Ph.D.

Biofyzikální vlastnosti NMDA receptorů na kultivovaných hipokampálních neuronech

Supervisor doc. MUDr. Ladislav Vyklicky ml., DSc.

**1994**

Dissertation

PhDr. Helena Knotkova – Urbancova, Ph.D.

Muscle atrophy induced by nociceptive stimulation

Supervisor MUDr. Pavel Hnik, DSc.

RNDr. Jiří Borecký

Draslíkové kanály v membránách synaptosomů z kůry předního mozku potkana

Supervisor Prof. RNDr. Frantisek Vyskocil, DSc.

(finished under RNDr. P. Jezek, CSc.)

**1990**

Dissertation

MUDr. Jiri Palecek, Ph.D.

The functional changes in neuromuscular system

Supervisor MUDr. Pavel Hnik, DSc.

## **Alumni before 1990**

### Dissertation

Doc. RNDr. Jan Moravec, Ph.D.  
Supervisor Prof. RNDr. Frantisek Vyskocil, DSc.

MUDr. Jan Holas, Ph.D.  
Supervisor MUDr. Pavel Hnik, DSc.

RNDr. Norbert Kriz, Ph.D.  
Supervisor Prof. RNDr. Frantisek Vyskocil, DSc.

RNDr. Eva Mackova, Ph.D.  
Supervisor MUDr. Pavel Hnik, DSc.

Prof. MUDr. Eva Syková, DSc.  
Supervisor MUDr. Ladislav Vyklicky st., DSc.

Doc. MUDr. Otakar Keller, Ph.D.  
Supervisor MUDr. Ladislav Vyklicky st., DSc.

RNDr. Alena Habartova, Ph.D.  
Supervisor RNDr. Hana Zemkova, CSc.

MUDr. Robert Hajek, Ph.D.  
Supervisor MUDr. Ladislav Vyklicky st., DSc.

PhDr. Petr Knotek, Ph.D.  
Supervisor MUDr. Pavel Hnik, DSc.

RNDr. Hana Zemkova, Ph.D.  
Supervisor Prof. RNDr. Frantisek Vyskocil, DSc.

RNDr. Richard Vejsada, Ph.D.  
Supervisor MUDr. Pavel Hnik, DSc.

RNDr. Iva Opletalova, Ph.D.  
Supervisor RNDr. Hana Zemkova, CSc.

MUDr. Viktorie Bolotina, Ph.D.  
Supervisor Prof. RNDr. Frantisek Vyskocil, DSc.