

THE FIELD BOARD 02 – BIOLOGY AND PATHOLOGY OF THE CELL

Courses

Doctoral board Biology a pathology of the cell requires the participation of two lecture courses (Advances in cell biology and advances in biology and genetics). In addition to these courses, the student may attend other lectures or practical courses organized other sectoral councils.

[PROGRESS IN CELL BIOLOGY](#) (lecture course):

The course is **mandatory**.

The course is held **every year in November** – [Detail of the courses 2017](#)

Course coordinator:

prof. RNDr. Ivan Raška, DrSc.,
Institute of Cellular Biology and Pathology 1. LF UK in Prague,
Albertov 4, 128 01 Prague 2,
Tel. 224 968 001,
Fax: 224 917 418,
E-mail: iraska@lf1.cuni.cz

Guarantors:

prof. RNDr. Ivan Raška, DrSc.

Contact Person:

Zdeňka Fischlová
Ústav biologie a lékařské genetiky
1. LF UK a VFN, Albertov 4, 128 01 Praha 2
Tel. 224968001
E-mail: zfisch@lf1.cuni.cz

Annotation:

The whole course consists of a series of lectures, a total length of 24 hours (4 lectures, once a week for 4 weeks, 9 to 16 am). The lecturers are recognized experts in the field of cell biology and pathology of Charles University, Academy of Sciences and other institutes. Lecture series will provide graduate students with the latest knowledge of selected topics in the field of cell biology and pathology. Lectures concern the use of modern techniques in contemporary biomedical research, and especially in the field of the cell nucleus organization, gene expression and regulation, cell cycle, cytoskeletal structures, stem cells, cell and viral oncogenes, genetic diseases and the immune system etc.

Recommended literature:

- Bruce Alberts et al.: Molecular Biology of the Cell (5th EDITION), 2008, Garland Science
- Thomas D. Pollard and William C. Earnshaw: Cell Biology (2nd EDITION), 2008, Elsevier

- Harvey Lodish et al.: Molecular Cell Biology (6th EDITION), 2007, W.H. Freeman and Co.
- Robert Weinberg: The Biology of Cancer, 2006, Cold Spring Harbor Laboratory Press

PROGRESS IN MOLECULAR BIOLOGY AND GENETICS (lecture courses)

The course is **mandatory**

The course is held **every year in November**.

Course coordinator:

prof. MUDr. Jiří Jonák, DrSc.,

Institute of Molecular Genetics AV CR, v. v. i., Vídeňská 1083, Prague 4-Krč,

Tel.: 241063273, Fax: 224310955,

E-mail: jjon@img.cas.cz

Guarantors:

prof. MUDr. Jiří Jonák, DrSc. a doc. Mgr. Petr Svoboda, Ph.D.

Annotation:

This 14-day lecture course is intended primarily for PhD students in the field of biomedicine, beginning researchers and recently also for master's students. The aim of the course is to provide information on scientific progress on an interdisciplinary field of molecular biology, genetics and biomedicine with some biotechnological views. The speakers are always prominent researchers from the entire country, specialists in the given field of lecture. Participants will receive two anthologies (or CD) with lectures.

Contact person:

Mgr. Šárka Šímová

Ústav molekulární genetiky AV ČR, v. v. i., Vídeňská 1083, 142 20 Praha 4

Tel. 241062461

E-mail: sarka.simova@img.cas.cz

Recommended literature:

Kolektiv autorů: Molekulární biologie a genetik X (2002), XI (2004), XII (2006). (J. Jonák jun. a J. Jonák, ed.) Ústav molekulární genetiky AV ČR, v.v.i., Praha (ISBN 80-902588-3-2, 80-902588-4-0, 80-902588-5-9) and references accompanying each chapter of these proceedings

More information at: <http://pokroky.img.cas.cz/>