Katedry genetiky a biochémie
Prírodovedeckej fakulty Univerzity Komenského,
a občianske združenie *NATURA*
v spolupráci so
Slovenskou spoločnosťou pre biochémiu a molekulárnu biológiu

Vás pozývajú na 68. prednášku v rámci Kuželových seminárov:

Dr. Jiří Neužil

Apoptosis Research Group, School of Medical Science, Griffith University, Southport, Qld, Australia &
Molecular Therapy Group, Institute of Biotechnology, AV ČR, Praha

Mitochondrial electron redox chain as a new target for anti-cancer drugs

ktorá sa uskutoční **17. apríla 2008** (štvrtok) o **16:00**

v miestnosti **CH1-222** Prírodovedeckej fakulty UK

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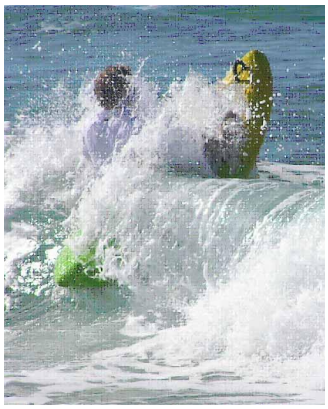
Dr. Jiří Neužil



Profesionálna kariéra:
1983: MSc in Biochemistry and Biochemical Engineering, Institute of Chemical Technology, Praha
1989: PhD in Microbiology, Institute of Microbiology, Czech Academy of Sciences, Praha

1991-1994: Post-doctoral scientist, Heart Research Institute, Sydney, NSW, Australia
1994-1998: Senior post-doctoral scientist, Heart Research Institute, Sydney, NSW, Australia
1998: Group Leader, German Institute for Human Nutrition, Potsdam, Germany
1998-2001: Scientist, Institute for Prevention of Cardiovascular Diseases, University of Munich, Germany
2001-2002: Senior Visiting Researcher, Department of Pathology II, University of Linkoping, Sweden
2002-2005: Senior Lecturer (Cell and Molecular Biology) and Group Leader, School of Medical Science, Griffith University, Southport, Qld, Australia
2006-till present: Associate Professor (Molecular Medicine) and Group Leader of Apoptosis Research Group, School of Medical Science, Griffith University, Southport, Qld, Australia
2005-2006: Senior Researcher, 50% position with the Laboratory of Cell Signalling and Apoptosis, Institute of Molecular Genetics, AS CR, Prague, commenced February 2005. The applicant will hold a conjoint position of Associate Professor at the Griffith University and of a Senior Researcher at the Institute of Molecular Genetics.
2007 till present: Head of Molecular Therapy Group of the Institute of Biotechnology, AS CR, Prague.

Vedecké zameranie: Signálne dráhy zúčastnené v apoptóze indukovanej farmakologickými (nové analogy vitamínu E) a imunulogickými induktormi a ich aplikácia v terapii onkologických ochorení.

Vybrané novšie publikácie:

1. Weber T, Lu M, Andera L, Lahm H, Gellert N, Fariss MW, Korinek V, Sattler W, Ucker DS, Terman A, Schröder A, Erl W, Brunk U, Coffey RJ, Weber C, **Neuzil J** (2002) Vitamin E succinate is a potent novel anti-neoplastic agent with high tumor selectivity and cooperativity with tumor necrosis factor-related apoptosis-inducing ligand (TRAIL, Apo2L) in vivo. Clin Cancer Res 8, 863-869.
2. Weber T, Dalen H, Andera L, Nègre-Salvayre A, Augé N, Sticha M, Loret A, Terman A, Witting PK, Higuchi M, Plasilova M, Zivny J, Gellert N, Weber C, **Neuzil J** (2003) Mitochondria play a central role in apoptosis induced by α-tocopheryl succinate, an agent with anticancer activity. Comparison with receptor-mediated pro-apoptotic signaling. Biochemistry 42, 4277-4291.
3. Jostarndt K, Rubic T, Kühn H, Anthonsen MW, Gellert N, Andera L, Trottmann M, Weber C, Johansen B, Hrboticky N, **Neuzil J** (2004) Enzymatically modified LDL upregulates CD36 expression in non-differentiated monocytic cells in a PPAR-γ-dependent mode. Biochem Pharmacol 67, 841-854.
4. Stapelberg M, Gellert N, Swettenham E, Tomasetti M, Witting PK, Procopio A, **Neuzil J** (2005) α-Tocopheryl succinate inhibits malignant mesothelioma by disrupting the FGF autocrine loop: The role of oxidative stress. J Biol Chem 280, 25369-25376.
5. Wang XF, Birringer M, Dong LF, Veprek P, Low P, Swettenham E, Stantic M, Yuan LH, Zobalova R, Wu K, Ralph SJ, Ledvina M, **Neuzil J** (2007) A peptide adduct of vitamin E succinate targets breast cancer cells with high erbB2 expression. Cancer Res 67, 3337-3344.
6. Dong LF, Swettenham E, Eliasson J, Wang XF, Gold M, Medunic Y, Stantic M, Low P, Prochazka L, Witting PK, Turanek J, Akporiaye ET, Ralph SJ, **Neuzil J** (2007) Vitamin E analogs inhibit angiogenesis by selective apoptosis induction in proliferating endothelial cells: The role of oxidative stress. Cancer Res 67, 11906-11913.
7. Dong LF, Low P, Dyason J, Wang XF, Prochazka L, Witting PK, Freeman R, Swettenham E, Valis K, Liu J, Zobalova R, Turanek J, Spitz DR, Domann FE, Scheffler IE, Ralph SJ, **Neuzil J** (2008) α-Tocopheryl succinate induces apoptosis by targeting ubiquinone-binding sites in mitochondrial respiratory complex II. Oncogene (in press).