



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

Vás pozývajú na 61. prednášku v rámci Kuželových seminárov:

Dr. Lumír Krejčí

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Masaryk University, Brno, Czech Republic**

Ups and downs of homologous recombination

ktorá sa uskutoční 16. marca 2007 (PIATOK) o 14:00

**V PREZENTAČNOM CENTRE J.A. KOMENSKÉHO (u Amosa)
PRÍRODOVEDECKEJ FAKULTY UK (B1 – 313)**

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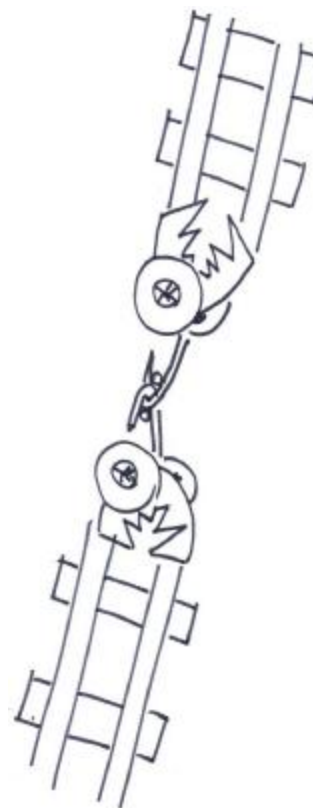
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Recent publications:

Krejci, L., Damborsky, J., Thomsen, C., Duno, M., and Bendixen, C. (2001) Molecular dissection of interactions between Rad51 and members of the recombination-repair group. *Mol. Cell. Biol.* 21:966-976.

Krejci, L., Song, B., Bussen, W., Rothstein, R., Mortensen, U., and Sung, P. (2002) Interaction with Rad51 is indispensable for recombination mediator function of Rad52. *J. Biol. Chem.* 277:40132-41.

Krejci, L., Van Komen, S., Li, Y., Villemain, J., Reddy, M. S., Klein, H., Ellenberger, T., Sung, P. (2003) DNA helicase Srs2 disrupts the Rad51 presynaptic filament. *Nature* 423:305-9.

Krejci, L., Chen, L., Van Komen, S., Sung, P., and Tomkinson, A., (2003) Mending the break: the two repair machines in eukaryotes. *Prog. Nucl. Acid Res. & Mol. Biol.* 74:159-201.

Krejci, L., Macris, M., Li, Y., Van Komen, S., Villemain, J., Ellenberger, T., Klein, H., Sung, P. (2004) Role of ATP hydrolysis in the antirecombinase function of *Saccharomyces cerevisiae* Srs2 protein. *J Biol Chem.*, 279(22):23193-9.

Prakash, R., Krejci, L., Van Komen, S., Anke Schurer, K., Kramer, W., Sung, P. (2005) *Saccharomyces cerevisiae* MPH1 gene, required for homologous recombination-mediated mutation avoidance, encodes a 3' to 5' DNA helicase. *J Biol Chem.* 280(9):7854-60.

Macris, M.A., Krejci, L., Bussen, W., Shimamoto, A., Sung, P. (2005) Biochemical characterization of the RECQ4 protein, mutated in Rothmund-Thomson syndrome. *DNA Repair (Amst).* 5(2):172-180.