



Katedry genetiky a biochémie PriF UK  
a občianske združenie *NATURA*



Vás pozývajú na 94. prednášku v rámci Kuželových seminárov:

**Dr. Richard Štefl**

CEITEC-Central European Institute of Technology,  
Masaryk University, Brno

## **Recruitment of transcription and processing factors by RNA Polymerase II**

ktorá sa uskutoční **15. novembra 2013** (piatok) o **14:00**

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

**Dr. Richard Štefl**

### Education

1999, M.Sc., Chemistry, Masaryk University, Czech Republic

2001, Ph.D., Physical Chemistry, Masaryk University, Czech Republic (Profs. J. Koca and V. Sklenar)

### Research Experience

2002-2006, Postdoctoral Fellow, ETH Zurich, Switzerland (Prof. F. Allain)

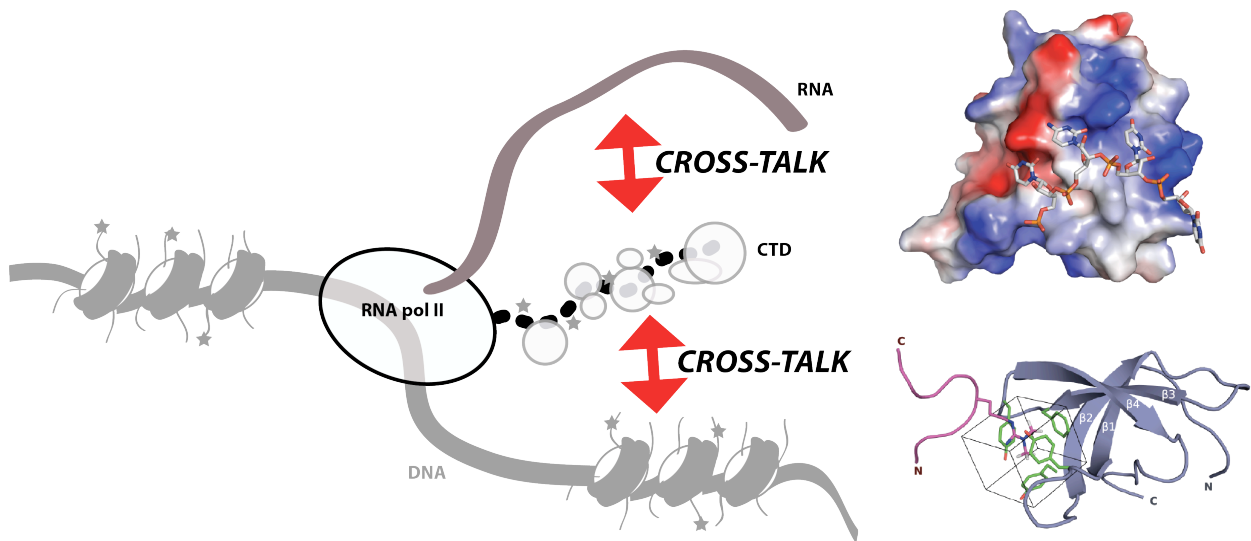
2007-now, Group Leader, CEITEC-Central European Institute of Technology, Masaryk University, Brno

2013 Habilitation (Biomolecular Chemistry, Faculty of Science, Masaryk University, Brno)

### General Research Interest

Structural biology of gene regulation.

We use integrated structural biology reveal a complete and coherent picture of how RNA polymerase II cross-talks to chromatin and RNA processing machineries at the atomic level.



### Selected Publications

Kubicek K, Cerna H, Holub P, Pasulka J, Hrossova D, Loehr F, Hofr C, Vanacova S, **Stefl R.** (2012) Serine phosphorylation and proline isomerization in RNAP II CTD control recruitment of Nrd1. **Genes Dev.**, 26, 1891-1896.

Porrúa O, Hobor F, Boulay J, Kubicek K, D'Aubenton-Carafa Y, Gudipati RK, **Stefl R**, Libri D. (2012) In vivo SELEX reveals novel sequence and structural determinants of Nrd1-Nab3-Sen1-dependent transcription termination. **EMBO J.**, 31, 3935-3948.

Sikorsky T, Hobor F, Krizanova E, Pasulka J, Kubicek K, **Stefl R.** (2012) Recognition of asymmetrically dimethylated arginine by TDRD3. **Nucleic Acids Res.**, 40, 11748-11755.

**Stefl R**, Oberstrass FC, Hood JL, Jourdan M, Zimmermann M, Skrisovska L, Maris C, Peng L, Hofr C, Emeson RB, Allain FH. (2010) The solution structure of the ADAR2 dsRBM-RNA complex reveals a sequence-specific read out of the minor groove. **Cell**, 143, 225-237.