

**Marie Curie project  
PIRSES GA-2010-269156**



*Study of protein dynamics in living cells after DNA damage  
March 15th 2011-March 15th 2014*

# Co-operation



Institute of Chemical Kinetics and Combustion,  
Institutskaya 3, Novosibirsk, 630090, Russia

## *List of publications*

1. Darya Yu. Orlova, Eva Bártová, Valeri P. Maltsev, Stanislav Kozubek (2011) A non-fitting method employing a spatial sine window transform for inhomogeneous effective diffusion measurements by FRAP. *Biophysical Journal*, 100(2):507-16.
2. Bártová E, Šustáčková G, Stixová L, Kozubek S, Legartová S, Foltánková V. (2011) Recruitment of Oct4 protein to UV-damaged chromatin in embryonic stem cells. *PLoS One*. 2011;6(12):e27281.
3. Šustáčková G, Legartová S, Kozubek S, Stixová L, Pacherník J, Bártová E. (2011) Differentiation-Independent Fluctuation of Pluripotency-Related Transcription Factors and Other Epigenetic Markers in Embryonic Stem Cell Colonies. *Stem Cells Dev*. 21(5):710-20, 2012.
4. Šustáčková G, Kozubek S, Stixová L, Legartová S, Matula P, Orlova D, Bártová E. (2012) Acetylation-dependent nuclear arrangement and recruitment of BMI1 protein to UV-damaged chromatin. *J Cell Physiol*. 227(5):1838-50.
5. Foltankova V, Legartova S, Kozubek S, Bartova E. (2012) Tumor-specific histone signature and DNA methylation in multiple myeloma and leukemia cells. *Neoplasma* 59(4):450-62.
6. Orlova DY, Stixová L, Kozubek S, Gierman HJ, Šustáčková G, Chernyshev AV, Medvedev RN, Legartová S, Versteeg R, Matula P, Stoklasa R, Bártová E. (2012) Arrangement of nuclear structure is not transmitted through mitosis but is identical in sister cells. *J Cell Biochem*. 113(11):3313-29.
7. Legartová S, Jugová A, Stixová L, Kozubek S, Fojtová M, Zdráhal Z, Lochmanová G, Bártová E. (2013) Epigenetics aspects of HP1 exchange kinetics in apoptotic chromatin. *Biochimie* 95(2):167-79.
8. Foltankova V., Legartova S., Kozubek S., Hofer M., Bartova E. (2013) DNA-damage response in chromatin of ribosomal genes and the surrounding genome. *Gene* 522(2):156-167.

## ***List of publications***

9. Prikrylova T., Pacherník J., Kozubek S., Bartova E. (2013) Epigenetics and chromatin plasticity in embryonic stem cells. *World Journal of Stem Cells* 26; 5(3): 73-85.

10. Legartova S., Stixova L., Strnad H., Kozubek S., Martinet N., Dekker F.J., Franek M., Bartova E. (2013) Basics nuclear processes affected by histone acetyltransferases and histone deacetylase inhibitors. *Epigenomics* 5(4) 1-18.

# Forthcoming meeting: Moscow – March 2014



## Meeting on Chromatin Structure and Function

Joint event organized by Moscow State University, Russian Federation and Institute of Biophysics Academy of Sciences of the Czech Republic in Brno and Jagellonia University in Krakow, Poland

### 1st day

- 13:00- 14:00 Invited keynote lecture: Tom Misteli (NCI-NIH, USA):  
Talk ..... Preliminary - Confirmed
- 14:05- 14:35 Eugene V. Sheval (MSU, RU): Talk: .....  
Confirmed
- 14:35-15:05 Jurek Dobrucki (Jagellonia University, PL): Talk: .....  
To be confirmed
- 15:05-15:35 Invited speaker Dundr Mirek (Rosalind Franklin University, Chicago, USA): Talk: ..... Confirmed
- 15:35-16:05 Invited speaker Ivan Raška (Charles University, Prague, CZ): Talk: .....hesitating

### 2nd day

- 9:00- 9:30 Dušan Cmarko (Charles University, Prague, CZ):  
Talk: .....to be confirmed
- 9:30-10:00 Eva Bártová (IBP ASCR, Brno, CZ) Talk: Chromatin structure and DNA repair
- 10:00- 10:30 Research scientist or student from MSU (Moscow, RU) Talk: ..... to be confirmed
- 10:30 -11:00 Research scientist or student from Jagellonia University, (Krakow, PL): Talk .....will be confirmed
- 11:00-11:30 Research scientist or student (Jana Suchánková) from IBP ASCR (Brno, CZ): Talk: PRMT1 arginine methyltransferase accumulates in cytoplasmic bodies that respond to selective inhibition and DNA damage
- 11:30-12:00 Research scientist or student from MSU (Moscow, RU) Talk: ..... will be confirmed
- 12:00-12<sup>h</sup>20 Dmitry Sorokin (Faculty of Informatics, MU Brno) Single particle tracking analysis. Confirmed

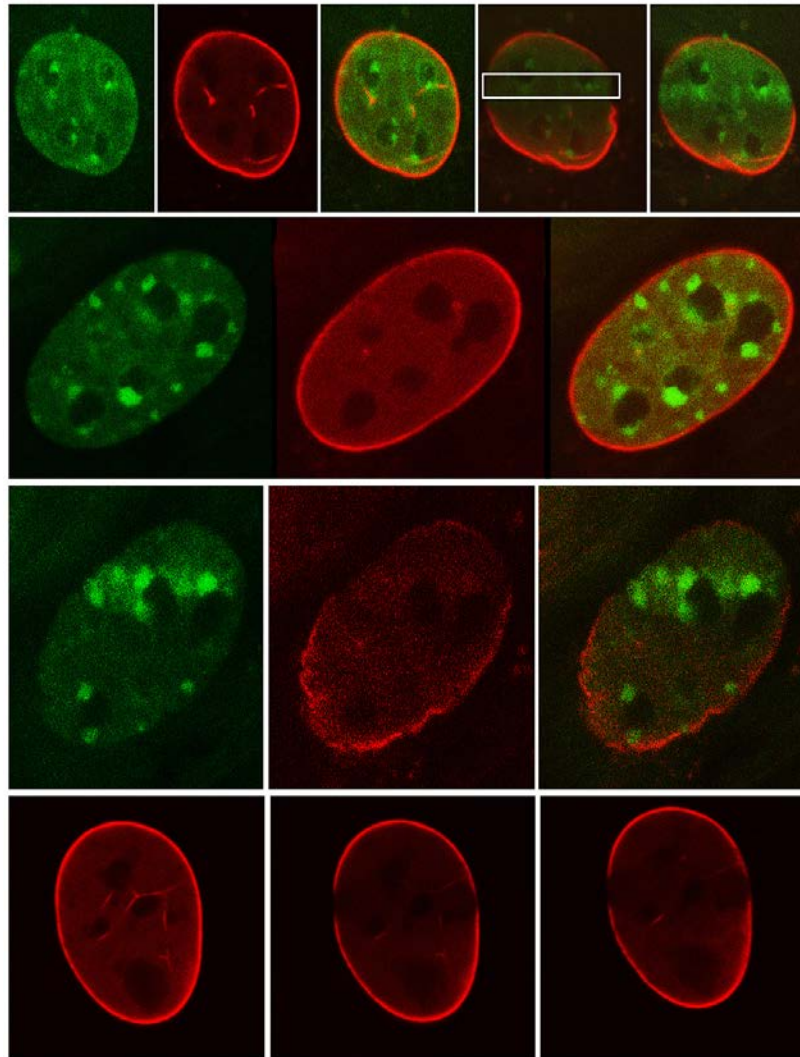
Meeting is supported by European Union project Marie Curie PIRSES GA-2010-269156 and Institute of Biophysics Academy of Sciences of the Czech Republic



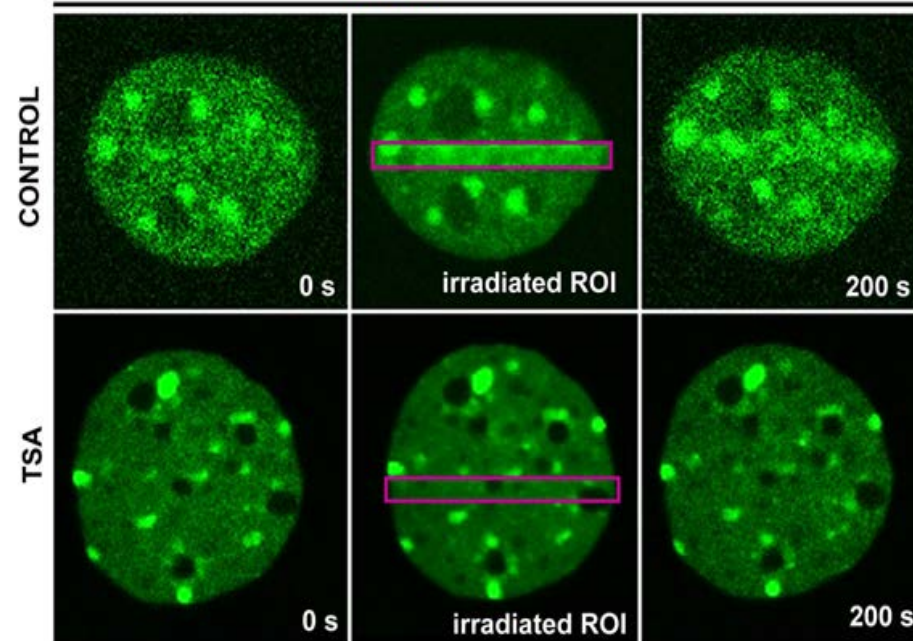
# Co-operation on HP1

Marie Curie project  
PIRSES GA-2010-269156

mCherry-Lamin A / GFP-HP1 $\beta$



HP1 $\beta$  / 3T3 cells



*Meeting St. Petersburg, July 6th (2013)*  
*Grand Hotel Nevsky St. Petersburg*

1. E. Bártová: Project report
2. J. Dobrucki, HP1 protein in DNA repair and replication
3. M. Zarebski, Inducing local DNA damage by visible light
4. M. Kordon, Imaging endogenous single strand DNA breaks
5. J. Suchánková: PRMT1 arginine methyltransferase accumulates in cytoplasmic bodies that respond to selective inhibition and DNA damage
6. M. Franek: Embryonic stem cells and DNA repair