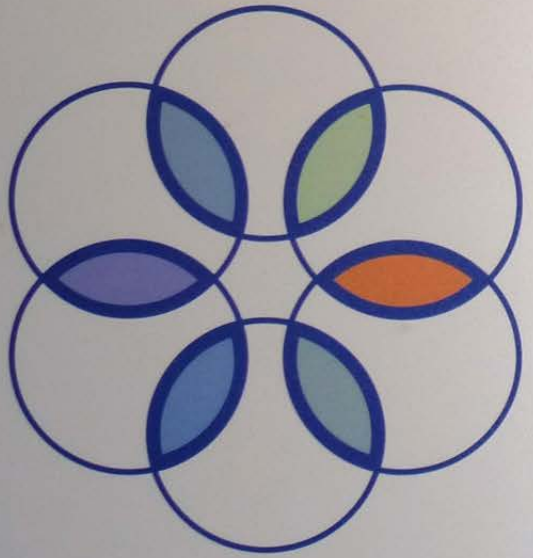
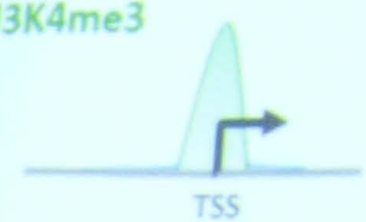


NORWEGIAN CENTER FOR
STEM CELL RESEARCH

Promoter

H3K4me3



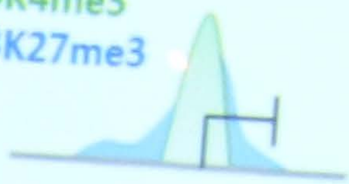
Gene active

H3K27me3

Gene repressed

H3K9me3

H3K4me3
H3K27me3



(Developmental genes)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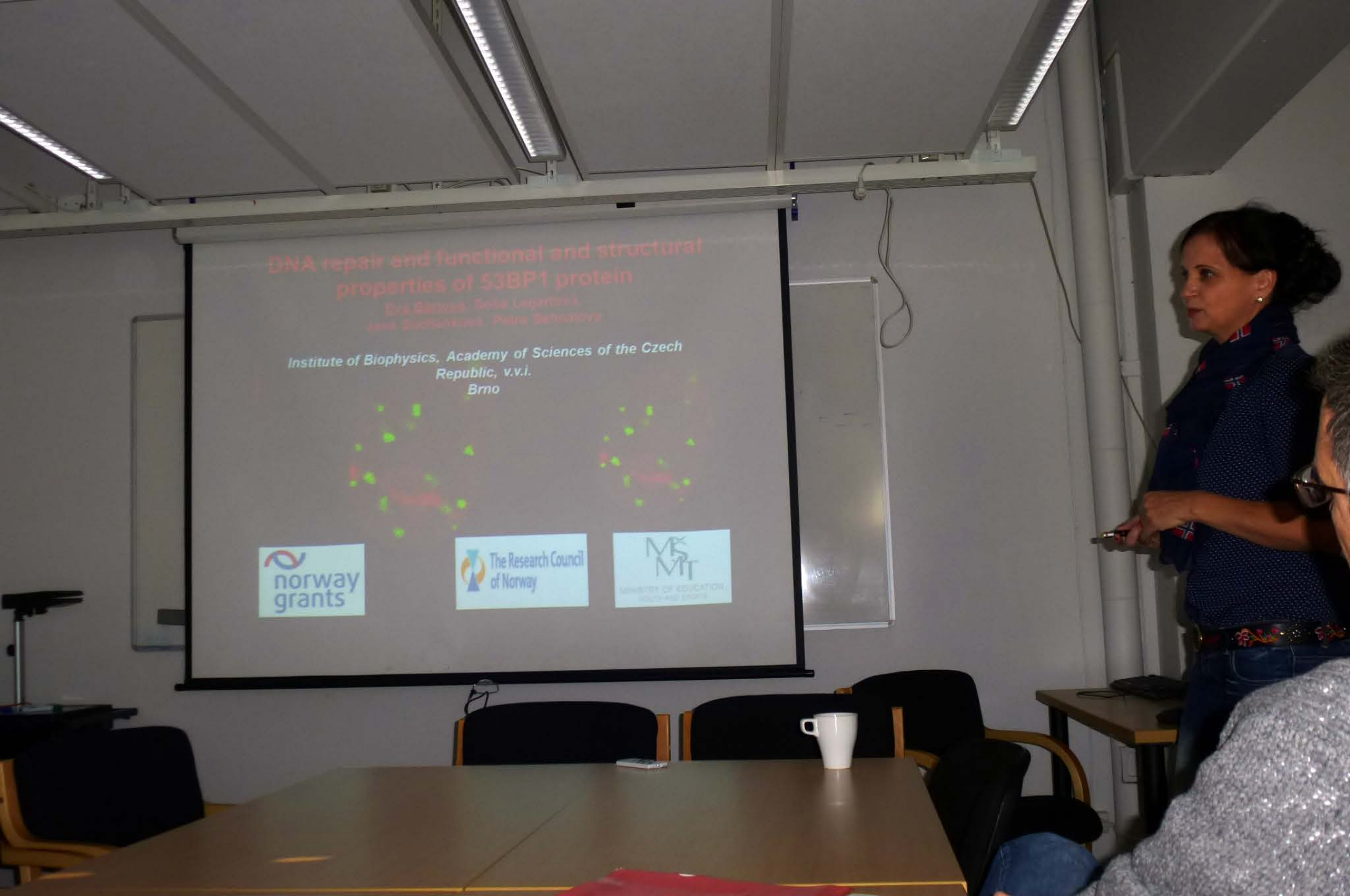
Project No.: 7F14369
Norway
norway grants
Czech Republic


DNA repair and functional and structural properties of 53BP1 protein
Institute of Biophysics, Academy of Sciences of the Czech Republic, v.v.i.
Brno
norway grants
The Research Council of Norway


Influences/ Regulates
senescence
cell migration
tumor suppresion
neoangiogenesis
viral response


DNA damage and repair
Endogenous and exogenous factors cause DNA lessions:
Double strand breaks
Single strand breaks
Oxidative lesions
Pyrimidine dimers
...
Type of damage and cell cycle phase can influence DNA repair

Research Paper

Autophagic degradation of nuclear

Demonstrate the presence of perinuclear autophagosomes/ autolysosomes containing nuclear components in nuclear envelopathies caused by mutations in the genes encoding A-type lamins (LMNA) and emerin (EMD).

Inhibition of autophagy led to the accumulation of nuclear abnormalities and reduced cell viability