

CURRICULUM VITAE

PERSONAL DATA

Name: Jiri Lukas

CURRENT POSITION (since 2012)

- Managing Director
Novo Nordisk Foundation Center for Protein Research
Faculty of Health and Medical Sciences
University of Copenhagen

UNIVERSITY STUDIES

- (1981-86) Veterinary University, Brno, Czech Republic

Ph. D. STUDIES

- (1987-90) Institute of Systematic and Ecological Biology, Brno, Czech Republic

POST-DOCORAL STUDIES

- (1990, 1991) Department of Biochemistry (Paul Nurse), Oxford, UK
- (1992-93) Cell Cycle Group (Giulio Draetta), EMBL, Heidelberg, Germany

PREVIOUS ACADEMIC APPOINTMENTS

- Director and Head of Research
Centre for Genotoxic Stress Research
Danish Cancer Society, Copenhagen, Denmark

RESEARCH INTERESTS

- Chromosomal dynamics and its aberrations in disease
- Molecular pathology of the DNA damage response
- High-content microscopy, real-time protein imaging

HONORS

- Fellowships:
 - EMBO, UICC, ICRF
- Research Grants:
 - Human Frontier Scientific Programme
 - European Union (FP6)
 - European Science Foundation (EuroDYNA)
 - Danish Cancer Society
 - Danish National Research Foundation
 - Novo Nordisk Foundation
- Prizes, Awards:
 - Young Danish Cancer Researcher Prize (1995)
 - Elected EMBO Member (2002)
 - Alfred Benzons Foundation Prize (2002)
 - Novo Nordisk Foundation Prize (2003)
 - G. J. Mendel Honorary Medal (2003)
 - Danish Cancer Society Senior Research Prize (2008)
 - Danish Society for Cancer Research Award (2010)
 - Honorary member of the Learned Society of the Czech Republic (2005)
 - Elected member of the Royal Danish Academy of Sciences and Letters (2012)
- Board memberships:
 - Editorial Board Member, *The Journal of Cell Biology* (since 2009)
 - Editorial Board Member, *The EMBO Reports* (since 2012)
 - Member of the Danish Cancer Society Scientific Board (since 2010)

PUBLICATIONS

- **134** research papers in peer reviewed journals; **38** review articles; **4** book chapters

Selected 10 primary research publications

- Gudjonsson, T., Altmeyer, M., Savic, V., Toledo, L., Dinant, C., Grøfte, M., Bartkova, J., Poulsen, M., Oka, Y., Bekker-Jensen, S., Mailand, N., Neumann, B., Heriche, J.-K., Shearer, R., Saunders, D., Bartek, J., Lukas, J., Lukas, C. TRIP12 and UBR5 suppress spreading of chromatin ubiquitylation at damaged chromosomes. *Cell*, 150, 607-709 (2012).
- Lukas, C., Savic, V., Bekker-Jensen, S., Doil, C., Neumann, B., Pedersen, R. S., Grofte, M., Chan, K. L., Hickson, I. D., Bartek, J., and Lukas, J. 53BP1 nuclear bodies shield DNA lesions generated by mitotic transmission of underreplicated chromosomes. *Nature Cell Biology*, 13, 243-253 (2011).
- Doil, C., Mailand, N., Bekker-Jensen, S., Menard, P., Larsen, D. H., Pepperkok, R., Ellenberg, J., Panier, S., Durocher, D., Bartek, J., Lukas, J., and Lukas, C. RNF168 binds and amplifies ubiquitin conjugates on damaged chromosomes to promote accumulation of repair proteins. *Cell* 136, 435-446 (2009).
- Mailand, N., Bekker-Jensen, S., Faustrup, H., Melander, F., Bartek, J., Lukas, C., and Lukas, J. The RNF8 ubiquitin ligase promotes assembly of repair proteins at the DNA damage-modified chromatin. *Cell* 131, 887-900 (2007).
- Bartkova, J., Horejsi, Z., Koed, K., Guldberg, P., Krämer, A., Sehested, M., Nesland, J., Lukas, C., Ørntoft, T., Lukas, J., and Bartek, J. DNA damage response as a candidate anti-cancer barrier in early human tumorigenesis. *Nature* 434, 864-870 (2005).
- Groth, A., Corpet, A., Cook, A., Roche, D., Bartek, J., Lukas, J., and Almouzni, G. Regulation of replication fork progression through histone supply/demand. *Science*, 318, 1928-1931 (2007).
- Sartori, A. A., Lukas, C., Coates, J., Fu, S., Bartek, J., Baer, R., Lukas, J., and Jackson, S. P. CtIP cooperates with the MRE11 complex to promote DNA resection. *Nature*, 450, 509-514 (2007).
- Lukas, C., Falck, J., Bartkova, J., Bartek, J., and Lukas, J. Distinct spatio-temporal dynamics of mammalian checkpoint regulators induced by DNA damage. *Nature Cell Biology* 5, 255-260 (2003).
- Falck, J., Mailand, N., Syljuåsen, R. G., Bartek, J. & Lukas, J. The Chk2-Cdc25A checkpoint pathway guards against radioresistant DNA synthesis. *Nature* 410, 842-847 (2001).
- Mailand, N., Falck, J., Lukas, C., Syljuåsen R., Welcker, M., Bartek, J., and Lukas, J. Rapid destruction of human Cdc25A in response to DNA damage. *Science* 288, 1425-1429 (2000).

Selected 5 reviews and opinion articles

- Altmeyer M., and Lukas J. To spread or not to spread – chromatin modifications in response to DNA damage. *Current Opinion in Genetics and Development* [Epub ahead of print] (January 2013).
- Lukas, J., Lukas, C., and Bartek, J. More than just a focus: Chromatin response to DNA damage and its role in genome integrity maintenance. *Nature Cell Biology* 13, 1161-1169 (2011).
- Bartek, J. and Lukas, J. The DNA damage response in tumorigenesis and cancer treatment. *Nature Reviews Cancer* [nrc/posters/dnadamage/dna_poster.pdf] (2010).
- Bartek J., and Lukas, J. DNA damage checkpoints: From initiation to recovery or adaptation. *Current Opinion in Cell Biology* 19, 238-245 (2007).
- Bartek, J., Lukas, C., and Lukas, J. Checking on DNA damage in S phase. *Nature Reviews Molecular and Cell Biology* 5, 792-805 (2004).