

## **Publications, Dirk H. Ostareck**

- 1. Original articles**
- 2. Reviews**
- 3. Book**
- 4. Book chapter**
- 5. Patents granted**

### **1. Original articles**

Liepelt, A., Naarmann-de Vries, I.S., Simons, N., Eichelbaum, K., Föhr, S., Archer, S.K., Castello, A., Usadel, B., Krijgsveld, J., Preiss, T., Marx, G., Hentze, M.W., **Ostareck, D.H.** and Ostareck-Lederer, A.: Identification of RNA-binding proteins in macrophages by interactome capture.

(2016) ***Mol Cell Proteomics*** 15, 2699-2714.

Naarmann-de Vries, I.S., Brendle, A., Baehr-Ivacevic, T., Benes, V., **Ostareck, D.H.**, Ostareck-Lederer, A.: HnRNP K-mediated translational control links NMHC IIA to erythroid enucleation.

(2016) ***J Cell Sci*** 129, 1141-1154.

De Santis, R., Liepelt, A., Mossanen, J.C., Dueck, A., Simons, N., Mohs, A., Trautwein, C., Meister, G., Marx, G., Ostareck-Lederer, A. and **Ostareck, D.H.**: miR-155 targets Caspase-3 mRNA in activated macrophages.

(2016) ***RNA Biology*** 13, 43-58.

Staudacher, J.J., Naarmann-de Vries, I.S., Ujvari, S.J., Klinger, B., Kazim, M., Benko, E., Ostareck-Lederer, A., **Ostareck, D.H.**, Persson, A.B., Lorenzen, S., Meier, J.C., Blüthgen, N., Persson, P.B., Henrion-Claude, A., Mrowka, R. and Fähring, M.: Hypoxia-induced gene expression results from selective mRNA partitioning to the endoplasmic reticulum.

(2015) ***Nucleic Acids Res*** 43, 3219-3236.

Moritz, B., Lilie H., Naarmann-de Vries I.S., Urlaub, H., Wahle, E., Ostareck-Lederer, A. and **Ostareck, D.H.**: Biophysical and biochemical analysis of hnRNP K: arginine methylation, reversible aggregation and combinatorial binding to nucleic acids.

(2014) ***Biol. Chem.*** 395, 837-853.

Liepelt, A., Mossanen, J.C., Denecke, B., Heymann, F., De Santis, R., Tacke, F., Marx, G., **Ostareck, D.H.** and Ostareck-Lederer, A.: Translation control of TAK1 mRNA by hnRNP K modulates LPS-induced macrophage activation.

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Naarmann-de Vries, I.N., Urlaub, H., **Ostareck, D.H.** and Ostareck-Lederer, A.: Caspase-3 cleaves hnRNP K in erythroid differentiation.

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de Vries, S., Naarmann-de Vries, I.N., Urlaub, H., Lue, H., Bernhagen, J., **Ostareck, D.H.** and Ostareck-Lederer, A.: Identification of DDX6 as a cellular modulator of VEGF expression under hypoxia.

(2013) ***J. Biol. Chem.***, 288, 5815-5827.

Gross, H., Hennard, C., Masouris, I., Cassel, C., Barth, S., Stober-Grässer, U., Mamiani, A., Moritz, B., **Ostareck, D.**, Ostareck-Lederer, A., Neuenkirchen, N., Fischer, U., Deng, W., Leonhardt, H., Noessner, E., Kremmer, E. and Grässer, F.A.: Binding of heterogeneous ribonucleoprotein K (hnRNP K) to the Epstein-Barr virus nuclear antigen 2 (EBNA2) enhances viral LMP2A expression.  
(2012) ***PLoS One*** 7, e42106.

Naarmann, I.S., Harnisch, C., Müller-Newen, G., Urlaub, H., Ostareck-Lederer, A. and **Ostareck, D.H.**: DDX6 recruits translational silenced human reticulocyte 15-lipoxygenase mRNA to RNP granules.  
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Davison, E.J., Pennington, K., Hung, C.-C., Peng, J., Rafiq, Ostareck-Lederer, A., **Ostareck, D.H.**, Ardley, H.C., Banks, R.E., and Robinson, P.A.: Proteomic analysis of increased Parkin expression and its interactants provides evidence for a role in modulation of mitochondria function.  
(2009) ***Proteomics*** 9, 4284-4297.

Weinlich, S., Hüttelmaier, S., Schierhorn, A., Behrens, S.E., Ostareck-Lederer, A. and **Ostareck, D.H.**: IGF2BP1 enhances HCV IRES-mediated translation initiation *via* the 3'UTR.  
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(2008) ***J. Biol. Chem.*** 283, 18461-18472.

Isken, O., Baroth, M., Grassmann, C., Weinlich, S., **Ostareck, D.H.**, Ostareck-Lederer, A. and Behrens, S.E.: Nuclear factors are involved in Hepatitis C Virus RNA replication.  
(2007) ***RNA*** 13, 1675-1692.

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- Ostareck, D.H.**, Ostareck-Lederer, A., Shatsky, I.N. and Hentze, M.W.: Lipoxigenase mRNA silencing in erythroid differentiation: The 3'UTR regulatory complex controls 60S ribosomal subunit joining. (2001) **Cell** 104, 281-290.
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## **2. Reviews**

**Ostareck, D.H.**, Naarmann-de Vries, I.S. and Ostareck-Lederer, A.: DDX6 and its orthologs as modulators of cellular and viral RNA expression. (invited advanced review).  
(2014) *WIREs RNA* 5, 659-678.

Ostareck-Lederer, A. and **Ostareck, D.H.**: Precision mechanics with multifunctional tools: How hnRNP K and hnRNPs E1/E2 contribute to post-transcriptional control of gene expression in hematopoiesis.  
(2012) *Curr. Protein Pept. Sci.* 13, 391-400.

Ostareck-Lederer, A. and **Ostareck, D.H.**: Control of mRNA translation and stability in haematopoietic cells: Functions of hnRNPs K and E1/2.  
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Gebauer, F., **Ostareck, D.H.**, Ostareck-Lederer, A., Grskovic, M. and Hentze, M.W.: Translational control of 15-Lipoxygenase and msl-2 mRNAs: single regulators or co-repressor assemblies.  
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Ostareck-Lederer, A., **Ostareck, D.H.** and Hentze, M.W.: Cytoplasmic regulatory functions of the KH-domain proteins hnRNPs K and E1/E2.  
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## **3. Book**

Bengert, P., Dandekar, T., , Ostareck-Lederer, A., **Ostareck, D.H.**: RNA motifs and regulatory elements.  
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## **4. Book chapter**

Kaminski, A., **Ostareck, D.H.**, Standart, N.M. and Jackson, R.J.: Affinity methods for isolating RNA-binding proteins.  
(1998) In: *RNA Protein Interactions*, Ch. Smith (ed.), Oxford IRL Press, 137-160.

## **5. Patents granted**

Ostareck-Lederer, A., **Ostareck, D.H.**, Marx, G., Liepelt, A. and Mossanen, J.  
Modulation of TLR4-signaling pathway  
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