

## B150

### Research Articles

#### 2019

**M Caudron-Herger, E Wassmer, I Nasa, AS Schultz, J Seiler, AN Kettenbach, S Diederichs:** "Identification, quantification and bioinformatic analysis of RNA-dependent proteins by RNase treatment and density gradient ultracentrifugation using R-DeeP" *Nature Protocols* (2019) in press

**Y Sharma\*, M Miladi\*, S Dukare\*, K Boulay\*, M Caudron-Herger, M Groß, R Backofen, S Diederichs:** "A pan-cancer analysis of synonymous mutations" *Nature Communications* (2019) 10: 2569

**M Caudron-Herger, SF Rusin, ME Adamo, J Seiler, V Schmid, E Barreau, AN Kettenbach, S Diederichs:** "R-DeeP: Proteome-wide and Quantitative Identification of RNA-dependent Proteins by Density Gradient Ultracentrifugation" *Molecular Cell* (2019) 75: 184-199

**S Dhamija, AC Becker, Y Sharma, K Myacheva, J Seiler, S Diederichs:** "LINC00261 and the adjacent gene FOXA2 are epithelial markers and are suppressed during lung cancer tumorigenesis and progression" *Non-coding RNA* (2019) 5: E2

#### 2018

**A Roth, K Boulay, M Groß, M Polycarpou-Schwarz, FA Mallette, M Regnier, O Bida, D Ginsberg, A Warth, PA Schnabel, T Muley, M Meister, H Zabeck, H Hoffmann, S Diederichs:** "Targeting LINC00673 expression triggers cellular senescence in lung cancer" *RNA Biology* (2018) 15: 1499-1511

**M Klingenberg, M Groß, A Goyal, M Polycarpou-Schwarz, T Miersch, AS Ernst, J Leupold, N Patil, U Warnken, H Allgayer, T Longerich, P Schirmacher, M Boutros, S Diederichs:** "The lncRNA CASC9 and RNA binding protein HNRNPL form a complex and co-regulate genes linked to AKT signaling" *Hepatology* (2018) 68: 1817-1832

**M Polycarpou-Schwarz, M Groß, P Mestdagh, J Schott, SE Grund, C Hildenbrand, J Rom, S Aulmann, HP Sinn, J Vandesompele, S Diederichs:** "The cancer-associated microprotein CASIMO1 controls cell proliferation and interacts with squalene epoxidase modulating lipid droplet formation" *Oncogene* (2018) 37: 4750-4768

**M Caudron-Herger, S Diederichs:** "Mitochondrial mutations in human cancer: Curation of translation" *RNA Biology* (2018) 15: 62-69

## 2017

**A Goyal, E Fiskin, T Gutschner, M Polycarpou-Schwarz, M Groß, J Neugebauer, M Gandhi, M Caudron-Herger, V Benes, S Diederichs:** "A cautionary tale of sense-antisense gene pairs: Independent regulation despite inverse correlation of expression" [Nucleic Acids Research](#) (2017) 45: 12496-12508

**L Nötzold, L Frank, M Gandhi, M Polycarpou-Schwarz, M Groß, M Gunkel, N Beil, H Erfle, N Harder, K Rohr, J Trendel, J Krijgsveld, T Longerich, P Schirmacher, M Boutros, S Erhardt, S Diederichs:** "The long non-coding RNA LINC00152 is essential for cell cycle progression through mitosis in HeLa cells" [Scientific Reports](#) (2017) 7: 2265

**J Seiler, M Breinig, M Caudron-Herger, M Polycarpou-Schwarz, M Boutros, S Diederichs:** "The lncRNA VELUCT strongly regulates viability of lung cancer cells despite its extremely low abundance" [Nucleic Acids Research](#) (2017) 45: 5458-5469

**A Goyal, K Myacheva, M Groß, M Klingenberg, B Duran-Arque, S Diederichs:** "Challenges of CRISPR / Cas9 applications for long non-coding RNA genes" [Nucleic Acids Research](#) (2017) 45: e12

## 2016

**S Link\*, S Grund\*, S Diederichs:** "Alternative splicing affects the subcellular localization of Drosha" [Nucleic Acids Research](#) (2016) 44: 5330-5343

## 2014

**T Gutschner\*, M Hämmerle\*, N Pazaitis\*, N Bley, E Fiskin, H Uckelmann, A Heim, M Groß, N Hofmann, R Geffers, B Skawran, T Longerich, K Breuhahn, P Schirmacher, B Mühleck, S Hüttelmaier\*, S Diederichs\*:** "The Insulin-like Growth Factor 2 mRNA-Binding Protein 1 (IGF2BP1) is an important pro-tumorigenic factor in hepatocellular carcinoma" [Hepatology](#) (2014) 59: 1900-1911

**D Nachmani, T Gutschner, A Reches, S Diederichs\*, O Mandelboim\*:** "RNA binding proteins regulate the expression of the immune activating ligand MICB" [Nature Communications](#) (2014) 5: 4186

## 2013

**J Winter, S Diederichs:** "Argonaute-3 activates the let-7a passenger strand microRNA" [RNA Biology](#) (2013) 10: 1631-1643

## Review Articles & Book Chapters

**M Gandhi, M Caudron-Herger, S Diederichs:** "RNA motifs and combinatorial prediction of non-coding RNA interaction, stability and localization" [Nature Structural & Molecular Biology](#) (2018) 25: 1070-1076

**S Dhamija, S Diederichs:** "From junk to master regulators of invasion: lncRNA functions in migration, EMT and metastasis" [International Journal of Cancer](#) (2016) 139: 269-280

**A Roth, S Diederichs:** "RAP and ChIRP about X inactivation" [Nature](#) (2015) 521: 170-171

**A Roth, S Diederichs:** "Long non-coding RNAs in lung cancer" [Current Topics in Microbiology & Immunology](#) (2016) 394: 57-110

**S Diederichs:** "micro-Terminator: 'Hasta la vista, lncRNA !'" [Nature Structural & Molecular Biology](#) (2015) 22: 279-281

G Stoecklin, **S Diederichs:** "tRNAs: New tricks from old dogs" [EMBO Journal](#) (2014) 33: 1981-1983

**S Diederichs:** "The four dimensions of non-coding RNA conservation" [Trends in Genetics](#) (2014) 30: 121-123

H Sültmann, **S Diederichs:** "Long non-coding RNA: LNCs to cancer" [European Urology](#) (2014) 65: 1152-1153

**T Gutschner, M Hämmerle, S Diederichs:** "MALAT 1 - a paradigm for long noncoding RNA function in cancer" [Journal of Molecular Medicine](#) (2013) 91, (7): 791-801

**T Gutschner, S Diederichs:** "The Hallmarks of Cancer: A long non-coding RNA point of view" [RNA Biology](#) (2012) 9: 703-719

**S Diederichs:** "Non-coding RNA and disease" [RNA Biology](#) (2012) 9: 701-702

**SK Abd Ellatif, T Gutschner, S Diederichs:** "Long Noncoding RNA Function and Expression in Cancer" in [Regulatory RNAs](#), edited by Bibekanand Mallick & Zhumur Ghosh (2012) 197-226

**J Winter\*, A Roth\*, S Diederichs:** "RNA meets Disease in Paradise" [RNA Biology](#) (2011) 8: 984-987

**J Winter, S Diederichs:** "microRNA Northern Blotting, Precursor Cloning & Ago2-improved RNA interference" in [Methods in Molecular Biology: microRNA & Cancer](#), edited by Wei Wu (2011) 85-100

**J Winter, S Diederichs:** "microRNA Biogenesis and Cancer" in [Methods in Molecular Biology: microRNA & Cancer](#), edited by Wei Wu (2011) 3-22

**S Grund, S Diederichs:** "microRNA Biogenesis and its impact on RNA interference" in [RNA Technologies and Their Applications](#), edited by VA Erdmann & J Barciszewski (2010) 325-354

**S Diederichs:** "Non-coding RNA in malignant tumors : A new world of tumor biomarkers and target structures in cancer cells" [German] [Pathologe](#) (2010) S2: 258-262

**J Winter\*, S Jung\*, S Keller, RI Gregory, S Diederichs:** "Many roads to maturity: microRNA biogenesis pathways and their regulation" [Nature Cell Biology](#) (2009) 11: 228-234