

Publications for Ulf Schmitz

2018

Vanichkina, D., Schmitz, U., Wong, J., Rasko, J. (2018). Challenges in defining the role of intron retention in normal biology and disease. *Seminars in Cell and Developmental Biology*, 75, 40-49. [More Information]

Rajasekhar, M., Schmitz, U., Flamant, S., Wong, J., Bailey, C., Ritchie, W., Holst, J., Rasko, J. (2018). Identifying microRNA determinants of human myelopoiesis. *Scientific Reports*, 8(1), 1-15. [More Information]

Lai, X., Gupta, S., Schmitz, U., Marquardt, S., Knoll, S., Spitschak, A., Wolkenhauer, O., Putzer, B., Vera, J. (2018). MiR-205-5p and miR-342-3p cooperate in the repression of the E2F1 transcription factor in the context of anticancer chemotherapy resistance. *Theranostics*, 8(4), 1106-1120. [More Information]

2017

Amirkhah, R., Meshkin, H., Farazmand, A., Rasko, J., Schmitz, U. (2017). Computational and experimental identification of tissue-specific MicroRNA targets. *Methods in Molecular Biology (Clifton N.J.)*, 1580, 127-147. [More Information]

Marshall, A., Bailey, C., Champ, K., Vellozzi, M., O'Young, P., Metierre, C., Feng, Y., Thoeng, A., Richards, A., Schmitz, U., Biro, M., Anderson, L., Rasko, J., et al (2017). CTCF genetic alterations in endometrial carcinoma are pro-tumorigenic. *Oncogene*, 36(29), 4100-4110. [More Information]

Schmitz, U., Pinello, N., Jia, F., Alasmari, S., Ritchie, W., Keightley, M., Shini, S., Lieschke, G., Wong, J., Rasko, J. (2017). Intron retention enhances gene regulatory complexity in vertebrates. *Genome Biology*, 18(1), 1-15. [More Information]

Khan, F., Marquardt, S., Gupta, S., Knoll, S., Schmitz, U., Spitschak, A., Engelmann, D., Vera, J., Wolkenhauer, O., Putzer, B. (2017). Unraveling a tumor type-specific regulatory core underlying E2F1-mediated epithelial-mesenchymal transition to predict receptor protein signatures. *Nature Communications*, 8(1), 1-15. [More Information]

2016

Edwards, C., Ritchie, W., Wong, J., Schmitz, U., Middleton, R., An, X., Mohandas, N., Rasko, J., Blobel, G. (2016). A dynamic intron retention program in the mammalian megakaryocyte and erythrocyte lineages. *Blood*, 127(17), e24-e34. [More Information]

Sadeghi, M., Ranjbar, B., Ganjalikhany, M., Khan, F., Schmitz, U., Wolkenhauer, O., Gupta, S. (2016). MicroRNA and transcription factor gene regulatory network analysis reveals

key regulatory elements associated with prostate cancer progression. *PLoS One*, 11(12), 1-19. [More Information]

Wong, J., Au, A., Gao, D., Pinello, N., Kwok, C., Thoeng, A., Lau, K., Gordon, J., Schmitz, U., Feng, Y., Nguyen, T., Middleton, R., Bailey, C., Holst, J., Rasko, J., Ritchie, W. (2016). RBM3 regulates temperature sensitive miR-142-5p and miR-143 (thermomirs), which target immune genes and control fever. *Nucleic Acids Research*, 44(6), 2888-2897. [More Information]

Schmitz, U., Naderi-Meshkin, H., Gupta, S., Wolkenhauer, O., Vera, J. (2016). The RNA world in the 21st century—a systems approach to finding non-coding keys to clinical questions. *Briefings in bioinformatics*, 17(3), 380-392. [More Information]

Wolfien, M., Rimbach, C., Schmitz, U., Jung, J., Krebs, S., Steinhoff, G., David, R., Wolkenhauer, O. (2016). TRAPLINE: a standardized and automated pipeline for RNA sequencing data analysis, evaluation and annotation. *BMC Bioinformatics*, 17(1), 1-11. [More Information]

2015

Amirkhah, R., Farazmand, A., Irfan-Maqsood, M., Wolkenhauer, O., Schmitz, U. (2015). The role of microRNAs in the resistance to colorectal cancer treatments. *Cellular and Molecular Biology*, 61(6), 17-23. [More Information]