

## Publications in which OIC equipment was used 2017

1. Baar, M., R. Brandt, D. Putavet, J. D. D. Klein, K. Derks, B. R. M. Bourgeois, S. Stryeck, Y. Rijksen, H. van Willigenburg, D. A. Feijtel, I. van der Pluijm, J. Essers, G. van Cappellen, W. van IJcken, A. Houtsmuller, J. Pothof, R. de Bruin, T. Madl, J. H. J. Hoeijmakers, J. Campisi and P. de Keizer (2017). "Targeted Apoptosis of Senescent Cells Restores Tissue Homeostasis in Response to Chemotoxicity and Aging." *Cell* 169(1): 132-147.e116.
2. Bijnsdorp, I. V., M. E. van Royen, G. W. Verhaegh and E. S. Martens-Uzunova (2017). "The Non-Coding Transcriptome of Prostate Cancer: Implications for Clinical Practice." *Mol Diagn Ther* 21(4): 385-400.
3. Cao, W., K. Chen, M. Bolkestein, Y. Yin, M. Verstegen, M. Bijvelds, W. Wang, N. Tüysüz, D. ten Berge, D. Sprengers, H. Metselaar, L. van der Laan, J. Kwekkeboom, R. Smits, M. Peppelenbosch and Q. Pan (2017). "Dynamics of Proliferative and Quiescent Stem Cells in Liver Homeostasis and Injury." *Gastroenterology* 153(4): 1133-1147.
4. de Hoogt, R., M. F. Estrada, S. Vidic, E. J. Davies, A. Osswald, M. Barbier, V. E. Santo, K. Gjerde, H. J. A. A. Van Zoggel, S. Blom, M. Dong, K. Närhi, E. Boghaert, C. Brito, Y. Chong, W. Sommergruber, H. Van Der Kuip, W. van Weerden, E. W. Verschuren, J. A. Hickman and R. Graeser (2017). "Data descriptor: Protocols and characterization data for 2d, 3d, and slice-based tumor models from the predect project." *Scientific Data* 4.
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6. Gonçalves, F. D. C., F. Luk, S. Korevaar, R. Bouzid, A. H. Paz, C. López-Iglesias, C. Baan, A. Merino and M. Hoogduijn (2017). "Membrane particles generated from mesenchymal stromal cells modulate immune responses by selective targeting of pro-inflammatory monocytes." *Scientific Reports* 7(1).
7. Gunhanlar, N., G. Shpak, M. Van Der Kroeg, L. A. Gouty-Colomer, S. T. Munshi, B. Lendemeijer, M. Ghazvini, C. Dupont, W. Hoogendijk, J. Gribnau, F. Vrij and S. Kushner (2017). "A simplified protocol for differentiation of electrophysiologically mature neuronal networks from human induced pluripotent stem cells." *Molecular Psychiatry*.
8. Herzog, E. M., A. J. Eggink, A. Reijnierse, M. A. Kerkhof, R. R. de Krijger, A. J. Roks, I. K. Reiss, A. L. Nigg, P. H. Eilers, E. A. Steegers and R. P. Steegers-Theunissen (2017). "Impact of early- and late-onset preeclampsia on features of placental and newborn vascular health." *Placenta* 49: 72-79.
9. Higuera, G. A., G. Iaffaldano, M. Bedar, G. Shpak, R. Broersen, S. T. Munshi, C. Dupont, J. Gribnau, F. Vrij, S. Kushner and C. de Zeeuw (2017). "An expandable embryonic stem cell-derived Purkinje neuron progenitor population that exhibits in vivo maturation in the adult mouse cerebellum." *Scientific Reports* 7(1).
10. Hoppenbrouwers, T., A. Autar, A. Sultan, T. E. Abraham, G. van Cappellen, A. Houtsmuller, W. van Wamel, H. van Beusekom, H. van Neck and M. de Maat (2017). "In vitro induction of NETosis: Comprehensive live imaging comparison and systematic review." *PLoS ONE* 12(5).
11. Küry, S., G. van Woerden, T. Besnard, M. Proietti Onori, X. Latypova, M. C. Towne, M. T. Cho, T. Prescott, M. A. Ploeg, S. Sanders, H. A. F. Stessman, A. Pujol, B. Distel, L. A. Robak, J. A. Bernstein, A.-S. Denommé-Pichon, G. Lesca, E. A. Sellars, J. Berg, W. Carré, Ø. Busk, B. van

- Bon, J. L. Waugh, M. Deardorff, G. E. Hoganson, K. B. Bosanko, D. S. Johnson, T. Dabir, Ø. Holla, A. Sarkar, K. Tveten, J. de Bellescize, G. J. Braathen, P. Terhal, D. K. Grange, A. van Haeringen, C. Lam, G. Mirzaa, J. Burton, E. J. Bhoj, J. Douglas, A. B. Santani, A. I. Nesbitt, K. L. Helbig, M. V. Andrews, A. Begtrup, S. Tang, K. L. I. van Gassen, J. Juusola, K. Foss, G. Enns, U. Moog, K. Hinderhofer, N. Paramasivam, S. Lincoln, B. H. Kusako, P. Lindenbaum, E. Charpentier, C. B. Nowak, E. Cherot, T. Simonet, C. Ruivenkamp, S. Hahn, C. A. Brownstein, F. Xia, S. Schmitt, W. Deb, D. Bonneau, M. Nizon, D. Quinquis, J. Chelly, G. Rudolf, D. Sanlaville, P. Parent, B. Gilbert-Dussardier, A. Toutain, V. R. Sutton, J. Thies, L. E. L. M. Peart-Vissers, P. Boisseau, M. Vincent, A. M. Grabrucker, C. Dubourg, W.-H. Tan, N. Verbeek, M. Granzow, G. Santen, J. Shendure, B. Isidor, L. Pasquier, R. Redon, Y. Yang, M. State, T. Kleefstra, B. Cogné, S. Petrovski, K. Retterer, E. Eichler, J. Rosenfeld, P. B. Agrawal, S. Bézieau, S. Odent, Y. Elgersma and S. Mercier (2017). "De Novo Mutations in Protein Kinase Genes CAMK2A and CAMK2B Cause Intellectual Disability." *American Journal of Human Genetics* 101(5): 768-788.
12. Lajoinie, G., T. van Rooij, I. Skachkov, E. Blazejewski, G. Veldhuis, N. de Jong, K. Kooiman and M. Versluis (2017). "Laser-Activated Polymeric Microcapsules for Ultrasound Imaging and Therapy: In Vitro Feasibility." *Biophysical Journal* 112(9): 1894-1907.
  13. Lokerse, W. J. M., M. Bolkestein, S. Dalm, A. Eggermont, M. De Jong, H. Grüll and G. Koning (2017). "Comparing the therapeutic potential of thermosensitive liposomes and hyperthermia in two distinct subtypes of breast cancer." *Journal of Controlled Release* 258: 34-42.
  14. Magaraki, A., G. van der Heijden, E. Sleddens-Linkels, L. Magarakis, G. van Cappellen, A. H. F. M. Peters, J. Gribnau, W. Baarends and M. Eijpe (2017). "Silencing markers are retained on pericentric heterochromatin during murine primordial germ cell development." *Epigenetics & Chromatin* 10(1).
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  16. Nadal, M., S. Prekovic, N. Gallastegui, C. Helsen, M. Abella, K. Zielinska, M. Gay, M. Vilaseca, M. Taulès, A. Houtsmuller, M. Royen, F. Claessens, P. Fuentes-Prior and E. Estébanez-Perpiñá (2017). "Structure of the homodimeric androgen receptor ligand-binding domain." *Nature Communications* 8.
  17. Nonnekens, J., K. Chatalic, J. D. M. Molkenboer-Kueneen, C. Beerens, F. Bruchertseifer, A. Morgenstern, J. Veldhoven-Zweistra, M. Schottelius, H.-J. Wester, D. van Gent, W. van Weerden, O. Boerman, M. De Jong and S. Heskamp (2017). "<sup>213</sup>Bi-Labeled Prostate-Specific Membrane Antigen-Targeting Agents Induce DNA Double-Strand Breaks in Prostate Cancer Xenografts." *Cancer Biotherapy and Radiopharmaceuticals* 32(2): 67-73.
  18. Oosterhof, N., I. Holtman, L. Kuil, H. van der Linde, E. Boddeke, B. Eggen and T. van Ham (2017). "Identification of a conserved and acute neurodegeneration-specific microglial transcriptome in the zebrafish." *Glia* 65(1): 138-149.
  19. Pandya, N. J., F. Koopmans, J. A. Slotman, I. Paliukhovich, A. B. Houtsmuller, A. B. Smit and K. W. Li (2017). "Correlation profiling of brain sub-cellular proteomes reveals co-assembly of synaptic proteins and subcellular distribution." *Sci Rep* 7(1): 12107.

20. Sanchez, H., M. Paul, M. Grosbart, S. van Rossum-Fikkert, J. Lebbink, R. Kanaar, A. Houtsmuller and C. Wyman (2017). "Architectural plasticity of human BRCA2-RAD51 complexes in DNA break repair." *Nucleic Acids Research* 45(8): 4507-4518.
21. Sanchez, H., M. W. Paul, M. Grosbart, S. E. van Rossum-Fikkert, J. H. G. Lebbink, R. Kanaar, A. B. Houtsmuller and C. Wyman (2017). "Architectural plasticity of human BRCA2-RAD51 complexes in DNA break repair." *Nucleic Acids Res* 45(8): 4507-4518.
22. Sandker, M., L. F. Duque, E. Redout, A. Chan, I. Que, C. Löwik, E. Klijnstra, N. Kops, R. Steendam, R. van Weeren, W. E. Hennink and H. Weinans (2017). "Degradation, intra-articular retention and biocompatibility of monospheres composed of [PDLLA-PEG-PDLLA]-b-PLLA multi-block copolymers." *Acta Biomaterialia* 48: 401-414.
23. Schreiber, J., L.-A. Grimbergen, I. Overwater, T. van der Vaart, J. Stedehouder, A. J. Schuhmacher, C. Guerra, S. Kushner, D. Jaarsma and Y. Elgersma (2017). "Mechanisms underlying cognitive deficits in a mouse model for Costello Syndrome are distinct from other RASopathy mouse models." *Scientific Reports* 7(1).
24. Seynhaeve, A. and T. ten Hagen (2017). "Using in Vitro live-cell imaging to explore chemotherapeutics delivered by lipid-based nanoparticles." *Journal of Visualized Experiments* 2017(129).
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27. Stedehouder, J., J. J. Couey, D. Brizee, B. Hosseini, J. A. Slotman, C. Dirven, G. Shpak, A. Houtsmuller and S. Kushner (2017). "Fast-spiking Parvalbumin Interneurons are Frequently Myelinated in the Cerebral Cortex of Mice and Humans." *Cerebral Cortex* 27(10): 5001-5013.
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Microbubbles." I E E Transactions on Ultrasonics, Ferroelectrics and Frequency Control 64(5): 785-797.

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36. Wienholz, F., W. Vermeulen and J. Marteijn (2017). "Amplification of unscheduled DNA synthesis signal enables fluorescence-based single cell quantification of transcription-coupled nucleotide excision repair." *Nucleic Acids Research* 45(9).
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