

StemBANCC presentations at the ISSCR 2017:

[Human Stem Cells Models for Drug Discovery](#) - Martin Graf, Veronica Costa, Christoph Patsch, Sannah Zoffmann, Mark Burcin (Hoffmann-La Roche)

[Modeling FTDP-17 linked tauopathies and Alzheimer's Disease with genetically modified human iPSC](#) - An Verheyen (Janssen R&D)

[Reproducibility of a Cellular Disease Phenotype And a Long-term Differentiation Protocol for Human iPSC-Derived Neurons](#) - Viktor Lakics (AbbVie)

[The role of A \$\beta\$ in inducing an Alzheimer's Disease specific transcriptional profile in iPSC-derived neurons](#) - Carlo Cusulin on behalf of the team Disease Relevant Cellular Assays group (Hoffmann-La Roche)

Publications:

Koch L. et al. (2018). [Laser bioprinting of human induced pluripotent stem cells - the effect of printing and biomaterials on cell survival, pluripotency, and differentiation](#). Biofabrication. 2018 Apr 25;10(3):035005. doi: 10.1088/1758-5090/aab981.

Iorga B. et al. (2018). [Differences in Contractile Function of Myofibrils within Human Embryonic Stem Cell-Derived Cardiomyocytes vs. Adult Ventricular Myofibrils Are Related to Distinct Sarcomeric Protein Isoforms](#). Front Physiol. 2018 Jan 19;8:1111. doi: 10.3389/fphys.2017.01111. eCollection 2017.

Sandor C. (2017). [Whole-exome sequencing of 228 patients with sporadic Parkinson's disease](#). Sci Rep. 2017; 7: 41188. Published online 2017 Jan 24. doi: 10.1038/srep41188.

Lai M.C. et al. (2017). [Haplotype-specific MAPT exon 3 expression regulated by common intronic polymorphisms associated with Parkinsonian disorders](#). Mol Neurodegener. 2017 Oct

30;12(1):79. doi: 10.1186/s13024-017-0224-6.

Cherubini M., Wade-Martins R. (2017). [Convergent pathways in Parkinson's disease](#). Cell Tissue Res. 2017 Oct 23. doi: 10.1007/s00441-017-2700-2.

Booth H. D. E. et al. (2017). [The Role of Astrocyte Dysfunction in Parkinson's Disease Pathogenesis](#). Trends Neurosci. 2017 Jun;40(6):358-370. doi: 10.1016/j.tins.2017.04.001. Epub 2017 May 17.

Kempf H. et al. (2017). [Scalable Cardiac Differentiation of Pluripotent Stem Cells Using Specific Growth Factors and Small Molecules](#). Adv Biochem Eng Biotechnol. 2018;163:39-69. doi: 10.1007/10_2017_30.

Sgodda M. et al. (2017). [A Scalable Approach for the Generation of Human Pluripotent Stem Cell-Derived Hepatic Organoids with Sensitive Hepatotoxicity Features](#). Stem Cells Dev. 2017 Oct 15;26(20):1490-1504. doi: 10.1089/scd.2017.0023. Epub 2017 Aug 24.

Ramond C. et al. (2017). [Reconstructing human pancreatic differentiation by mapping specific cell populations during development](#). Elife. 2017 Jul 21;6. pii: e27564. doi: 10.7554/eLife.27564.

Freyer N. et al. (2017). [Effects of co-culture media on hepatic differentiation of hiPSC with or without HUVEC co-culture](#). Int J Mol Sci. 2017 Aug; 18(8): 1724. Published online 2017 Aug 7. doi: 10.3390/ijms18081724.

Datta S. et al. (2017). [Graph_sampler: a simple tool for fully Bayesian analyses of DAG-models](#). Computational Statistics. June 2017, Volume 32, Issue 2, pp 691–716. <https://doi.org/10.1007/s00180-017-0719-1>

Honore C. et al. (2017). [Revisiting the immunocytochemical detection of Neurogenin 3 expression in mouse and man](#). Diabetes Obes Metab. 2016 Sep;18 Suppl 1:10-22. doi: 10.1111/dom.12718.

Wassmer T. et al. (2017). [Extracellular monomeric and aggregated tau efficiently enter human neurons through overlapping but distinct pathways](https://doi.org/10.1101/168294). biorxiv. doi: <https://doi.org/10.1101/168294>

Christoffersson J. et al. (2017). [Developing organ-on-a-chip concepts using bio-mechatronic design methodology](https://doi.org/10.1088/1758-5090/aa71ca). Biofabrication. 2017 May 26;9(2):025023. doi: [10.1088/1758-5090/aa71ca](https://doi.org/10.1088/1758-5090/aa71ca).

Meier F. et al. (2017). [Hepatic differentiation of human iPSCs in different 3D models: A comparative study](https://doi.org/10.3892/ijmm.2017.3190). International Journal of Molecular Medicine; Volume 40 Issue 6; <https://doi.org/10.3892/ijmm.2017.3190>.

Thurner M. et al. (2017). [Genes associated with pancreas development and function maintain open chromatin structure in iPSCs generated from human pancreatic beta cells](http://dx.doi.org/10.1016/j.stemcr.2017.09.020). Stem Cell Reports. DOI: <http://dx.doi.org/10.1016/j.stemcr.2017.09.020>.

Massai D. et al. (2017). [Sensitivity of human pluripotent stem cells to insulin precipitation induced by peristaltic pump-based medium circulation: considerations on process development](https://doi.org/10.1038/s41598-017-04158-x). Scientific Reports 7, Article number: 3950 (2017). doi:[10.1038/s41598-017-04158-x](https://doi.org/10.1038/s41598-017-04158-x)

Weber N. et al. (2017). [Stiff matrix induces switch to pure b-cardiac myosin heavy chain expression in human ESC-derived cardiomyocytes](https://doi.org/10.1007/s12275-016-0068-8). Basic Res Cardiol. 2016 Nov;111(6):68. Epub 2016 Oct 14.

Kempf H. et al. (2017). [Bulk cell density and Wnt/TGFbeta signalling regulate mesendodermal patterning of human pluripotent stem cells](https://doi.org/10.1038/ncomms13602). Nature Communications 7, Article number: 13602 (2016). doi:[10.1038/ncomms13602](https://doi.org/10.1038/ncomms13602)

Jara-Avaca M. et al. (2017). [EBIO Does Not Induce Cardiomyogenesis in Human Pluripotent Stem Cells but Modulates Cardiac Subtype Enrichment by Lineage-Selective Survival](https://doi.org/10.1016/j.stemcr.2016.12.012). Stem Cell Reports. Volume 8, Issue 2, p305–317, 14 February 2017. DOI: [http://dx.doi.org/10.1016/j.stemcr.2016.12.012](https://doi.org/10.1016/j.stemcr.2016.12.012)

Bownjohn P. W. (2017). [Phenotypic Screening Identifies Modulators of Amyloid Precursor Protein Processing in Human Stem Cell Models of Alzheimer's Disease](#). Stem Cell Reports. Volume 8, Issue 4, p870–882, 11 April 2017. DOI: <http://dx.doi.org/10.1016/j.stemcr.2017.02.006>

Wilmes A. et al. (2017). [Towards optimisation of induced pluripotent cell culture: Extracellular acidification results in growth arrest of iPSC prior to nutrient exhaustion](#). Toxicol In Vitro. 2017 Aug 15. pii: S0887-2333(17)30209-6. doi: 10.1016/j.tiv.2017.07.023. [Epub ahead of print]

Meier F. et al (2017). [Hepatic Differentiation of Human iPSCs 2 in Different 3D Models](#). Int J Mol Med. 2017 Oct 16. doi: 10.3892/ijmm.2017.3190. [Epub ahead of print]

Zanon A. et al (2017). [SLP-2 interacts with Parkin in mitochondria and prevents mitochondrial dysfunction in Parkin-deficient human iPSC-derived neurons and Drosophila](#). Hum Mol Genet. 2017 Jul 1;26(13):2412-2425. doi: 10.1093/hmg/ddx132.

Freyer N. et al. (2017). [Hepatic differentiation of human induced pluripotent stem cells in a perfused three-dimensional multicompartiment bioreactor](#). Biores Open Access. 2016 Aug 1;5(1):235-48. doi: 10.1089/biores.2016.0027. eCollection 2016.

Meier F. et al (2017). [Hepatic differentiation of human iPSC in different 3D models: A comparative study](#). International Journal of Molecular Medicine. DOI: 10.3892/ijmm.2017.3190

Palakkan A.A. et al. (2017). [Pluripotent stem cells to hepatocytes, the journey so far](#). Biomed Rep. 2017 Apr;6(4):367-373. doi: 10.3892/br.2017.867. Epub 2017 Mar 1.

Goldring C. (2017). [Stem cell-derived models to improve mechanistic understanding and prediction of human drug induced liver injury](#). Hepatology. 2017 Feb;65(2):710-721. doi: 10.1002/hep.28886. Epub 2016 Nov 30.

Baud a. et al. (2017). [Multiplex High-Throughput Targeted Proteomic Assay To Identify Induced Pluripotent Stem Cells](#). Anal Chem. 2017 Feb 21;89(4):2440-2448. doi: 10.1021/acs.analchem.6b04368. Epub 2017 Feb 6.

Robbins JP, Price J (2017). [Human induced pluripotent stem cells as a research tool in Alzheimer's disease](#). Psychol Med. 2017 Nov;47(15):2587-2592. doi: 10.1017/S0033291717002124. Epub 2017 Aug 14.

Kathuria A. et al (2017). [Stem cell-derived neurons from autistic individuals with SHANK3 mutation show morphogenetic abnormalities during early development](#). Mol Psychiatry. 2017 Sep 26. doi: 10.1038/mp.2017.185. [Epub ahead of print]

Powell T.R. et al. (2017). [Transcriptomic profiling of human hippocampal progenitor cells treated with antidepressants and its application in drug repositioning](#). J Psychopharmacol. 2017 Mar;31(3):338-345. doi: 10.1177/0269881117691467. Epub 2017 Feb 16.

Morrison M. (2017). [Infrastructural expectations: Exploring the promise of international large-scale pluripotent stem cell banks](#). New Genetics and Society. Pages 66-83. Received 02 Nov 2016, Accepted 26 Jan 2017, Published online: 15 Feb 2017

Morrison M. (2017). [A good collaboration is based on unique contributions from each side: assessing the dynamics of collaboration in stem cell science](#). Life Sci Soc Policy. 2017 Dec;13(1):7. doi: 10.1186/s40504-017-0053-y. Epub 2017 May 4.

Morrison M. et al. (2017). [The European General Data Protection Regulation: Challenges and Considerations for iPSC Researchers and Biobanks](#). Regen Med. 2017 Sep;12(6):693-703. doi: 10.2217/rme-2017-0068. Epub 2017 Oct 4.

Sipp D. et al. (2017). [Marketing of unproven stem cell-based interventions: A call to action](#). Sci Transl Med. 2017 Jul 5;9(397). pii: eaag0426. doi: 10.1126/scitranslmed.aag0426.

Beevers J. E. et al. (2017). [MAPT genetic variation and neuronal maturity alter isoform expression affecting axonal transport in iPSC-derived dopamine neurons](#). Stem Cell Reports. Volume 9, Issue 2, p587–599, 8 August 2017. DOI: <http://dx.doi.org/10.1016/j.stemcr.2017.06.005>

Sandor C. et al. (2017). [Transcriptomic profiling of purified patient-derived dopamine neurons identifies convergent perturbations and therapeutics for parkinson's disease](#). Hum Mol Genet. 2017 Feb 1;26(3):552-566. doi: 10.1093/hmg/ddw412.

Baud A. et al. (2017). [Multiplex High-Throughput targeted proteomic assay to identify induced pluripotent stem cells](#). Anal Chem. 2017 Feb 21;89(4):2440-2448. doi: 10.1021/acs.analchem.6b04368. Epub 2017 Feb 6.

Lee H. et al. (2017). [LRRK2 in peripheral and central nervous system innate immunity: its link to parkinson's disease](#). Biochem Soc Trans. 2017 Feb 8;45(1):131-139. doi: 10.1042/BST20160262.

Haenseler W. et al. (2017). [A highly efficient human pluripotent stem cell microglia model displays a Neuronal-Co-culture-Specific expression profile and inflammatory response](#). Stem Cell Reports. 2017 Jun 6;8(6):1727-1742. doi: 10.1016/j.stemcr.2017.05.017.

Haenseler W. et al. (2017). [Excess \$\alpha\$ -synuclein compromises phagocytosis in iPSC-derived macrophages](#). Scientific Reports 7, Article number: 9003 (2017). doi:10.1038/s41598-017-09362-3

Clark A.J. et al. (2017). Co-cultures with stem cell-derived human sensory neurons reveal regulators of peripheral myelination. Brain, Volume 140, Issue 4, 1 April 2017, Pages 898–913, <https://doi.org/10.1093/brain/awx012>

Honoré C. et al. (2016). [Revisiting the immunocytochemical detection of Neurogenin 3 expression in mouse and man](#). Diabetes Obes Metab. 2016 Sep;18 Suppl 1:10-22. doi: 10.1111/dom.12718.

Kuijlaars J. et al. (2016). [Sustained synchronized neuronal network activity in a human astrocyte co-culture system](#). Scientific Reports 6, Article number: 36529 (2016). doi:10.1038/srep36529

Kraushaar U. et al. (2016). [Addressing functional neurotoxicity using the microelectrode array \(MEA\)](#). Springer. Stem Cell-Derived Models in Toxicology. pp 293-309.

Zhu L. et al (2016). [The mitochondrial protein CHCHD2 primes the differentiation potential of human induced pluripotent stem cells to neuroectodermal lineages](#). J Cell Biol. 2016 Oct 24;215(2):187-202. Epub 2016 Oct 17. DOI: 10.1083/jcb.201601061

R. Livesey et al. (2016). [2D and 3D Stem Cell Models of Primate Cortical Development Identify Species - Specific Differences in progenitor behaviour contributing to brain size](#). Cell Stem Cell. 2016 Apr 7; 18(4):467-80. doi: 10.1016/j.stem.2016.03.003. Epub 2016 Mar 31.

C. Kropp et al (2016). [Impact of Feeding Strategies on the Scalable Expansion of Human Pluripotent Stem Cells in Single-Use Stirred Tank Bioreactors](#). Stem Cells Transl Med. 2016 Jul 1. doi: 10.5966/sctm.2015-0253.

B. Andree et al. (2016). [Directing Cardiomyogenic Differentiation and Transdifferentiation By Ectopic Gene Expression - Direct Transition Or Reprogramming Detour?](#) Curr Gene Ther. 2016;16(1):14-20. doi: 10.2174/1566523216666160104141522.

I. Neganova et al (2016). [JNK/SAPK signalling is essential for efficient reprogramming of human fibroblasts to induced pluripotent stem cells](#). Stem Cells. 2016 May; 34(5):1198-212. doi: 10.1002/stem.2327. Epub 2016 Mar 4.

O. Ciampi, R. Iacone, L. Longaretti et al. (2016). [Generation of functional podocytes from human induced pluripotent stem cells](#). Stem Cell Res. 2016 Jul; 17(1):130-9. doi: 10.1016/j.scr.2016.06.001. Epub 2016 Jun 3.

Kraushaar et al. (2016). [Influence of field potential duration on spontaneous beating rate of human induced pluripotent stem cell-derived cardiomyocytes: Implications for data analysis and test system selection](#). J Pharmacol Toxicol Methods. 2016 Aug 9; 82:74-82. doi: 10.1016/j.vascn.2016.08.002. [Epub ahead of print].

S. Efrat (2016). [Mechanisms of adult human \$\beta\$ -cell in-vitro dedifferentiation and redifferentiation](#). Diabetes Obes Metab. 2016 Sep; 18 Suppl 1:97-101. doi: 10.1111/dom.12724.

O. Friedman-Mazursky et al. (2016). [Redifferentiation of human islet \$\beta\$ cells expanded in vitro by inhibition of ARX](#). Scientific Reports 2016 Feb 9;6:20698. doi: 10.1038/srep20698.

I. Kopljar, D.J. Gallacher et al. (2016). [Functional and Transcriptional Characterization of Histone Deacetylase Inhibitor-Mediated Cardiac Adverse Effects in Human Induced Pluripotent Stem Cell-Derived Cardiomyocytes](#). Stem Cells Transl Med. 2016 May;5(5):602-12. doi: 10.5966/sctm.2015-0279. Epub 2016 Mar 31.

F. Knöspel, F. Jacobs, N. Freyer et al. (2016). [In Vitro Model for Hepatotoxicity Studies Based on Primary Human Hepatocyte Cultivation in a Perfused 3D Bioreactor System](#). Int. J. Mol. Sci. 2016, 17, 584. doi:10.3390/ijms17040584.

Freyer N, Knöspel F, Strahl N, et al. (2016). [Hepatic Differentiation of Human Induced Pluripotent Stem Cells in a Perfused Three-Dimensional Multicompartment Bioreactor](#). BioResearch Open Access. 2016;5(1):235-248. doi:10.1089/biores.2016.0027.

J. Christoffersson et al. (2016). [A microfluidic bioreactor for toxicity testing of stem cell derived 3D cardiac bodies](#). Methods Mol Biol. 2016;1502:159-68. doi: 10.1007/7651_2016_340.

N. Beer et al (2016). [Genome edited human stem cell-derived beta-cells: a powerful tool for drilling down on type 2 diabetes GWAS biology](#). F1000Res. 2016 Jul 15;5. pii: F1000 Faculty Rev-1711. doi: 10.12688/f1000research.8682.1. eCollection 2016.

N. Beer et al (2016). [Insights into islet development and biology through characterization of a human iPSC-derived endocrine pancreas model](#). *Islets*. 2016 Apr 18;8(3):83-95. doi: 10.1080/19382014.2016.1182276.

A. E. Handel et al. (2016). [Assessing similarity to primary tissue and cortical layer identity in induced pluripotent stem cell-derived cortical neurons through single-cell transcriptomics](#). *Hum Mol Genet*. 2016 Mar 1;25(5):989-1000. doi: 10.1093/hmg/ddv637. Epub 2016 Jan 5.

H. J. Fernandes et al. (2016). [ER stress and autophagic perturbations lead to elevated extracellular \$\alpha\$ -Synuclein in GBA-N370S parkinson's iPSC-derived dopamine neurons](#). *Stem Cell Reports*. 2016 Mar 8;6(3):342-56. doi: 10.1016/j.stemcr.2016.01.013. Epub 2016 Feb 18.

Morrison M, Briceño Moraia L, Steele J C (2016) [Traceability in stem cell research: from participant sample to induced pluripotent stem cell and back](#), *Regenerative Medicine*, DOI 10.2217/rme.15.66

M. Lako et al. (2015). [Inhibition of miR-145 Enhances Reprogramming of Human Dermal Fibroblasts to Induced Pluripotent Stem Cells](#). *Stem Cells*. 2016 Jan; 34(1):246-51. doi: 10.1002/stem.2220. Epub 2015 Oct 9.

H. Kempf et al. (2015). [Cardiac differentiation of human pluripotent stem cells in scalable suspension culture](#). *Nature Protocols* 2015 Sep; 10(9):1345-61. doi: 10.1038/nprot.2015.089. Epub 2015 Aug 13.

H. Kempg et al. (2015). [Large-scale production of human pluripotent stem cell derived cardiomyocytes](#). *Adv Drug Deliv Rev. Review*. 2016 Jan 15; 96:18-30. doi: 10.1016/j.addr.2015.11.016.

Verheyen A, Diels A, Dijkmans J, Oyelami T, Memeghello G, Mertens L, Versweyveld S, Borgers M, Buist A, Peeters P, Cik M (2015) [Using Human iPSC-Derived Neurons to Model TAU Aggregation](#) DOI: 10.1371/journal.pone.0146127

Datta, Sagnik; Gayraud, Ghislaine; Leclerc, Eric; Bois, Frederic Y. (2015) [Graph sampler: a C language software for fully Bayesian analyses of Bayesian networks.](#) eprint arXiv:1505.07228

Nathan G, Kredo-Russo S, Geiger T, Lenz A, Kaspi H, Hornstein E, Efrat S (2015) [MiR-375 promotes redifferentiation of adult human ? cells expanded in vitro.](#) PLoS One. 2015 Apr 13;10(4):e0122108. doi: 10.1371/journal.pone.0122108.

Bergström G, Christoffersson J, Schwanke K, Zweigerdt R, Mandenius CF (2015) [Stem cell derived in vivo-like human cardiac bodies in a microfluidic device for toxicity testing by beating frequency imaging.](#) Lab Chip. 2015 Jul 14;15(15):3242-9. doi: 10.1039/c5lc00449g.

Dodsworth BT, Flynn R, Cowley SA (2015) [The Current State of Naïve Human Pluripotency.](#) Stem Cells. 2015 Jun 29. doi: 10.1002/stem.2085.

Flynn R, Grundmann A, Renz P, Haenseler W, James WS, Cowley SA, Moore MD (2015) [CRISPR-mediated genotypic and phenotypic correction of a chronic granulomatous disease mutation in human iPS cells.](#) Exp Hematol. 2015 Jun 19. pii: S0301-472X(15)00207-6. doi: 10.1016/j.exphem.2015.06.002.

Patsch, C. et al. (2015) [Generation of vascular endothelial and smooth muscle cells from human pluripotent stem cells.](#) Nat Cell Biol. 2015 Aug;17(8):994-1003. doi: 10.1038/ncb3205. Epub 2015 Jul 27.

Bois, Frederic Y., and Ghislaine Gayraud. (2015) [Probabilistic Generation of Random Networks Taking into Account Information on Motifs Occurrence.](#) Journal of Computational Biology 22 (2015): 25–36. doi:10.1089/cmb.2014.0175

Morrison M, Klein C, Clemann N, Collier DA, Hardy J, Heisserer B, Cader ZM, Graf M, Kaye J (2015) [StemBANCC: Governing Access to Material and Data in a Large Stem Cell Research Consortium.](#) Stem Cell Reviews and Reports

Davies, JA, Chang CH. (2014) [Engineering kidneys from simple cell suspensions: an exercise in self-organization](#). *Pediatr Nephrol*. 2014 Apr;29(4):519-24. doi: 10.1007/s00467-013-2579-4.

Davies JA (2014) [Engineered renal tissue as a potential platform for pharmacokinetic and nephrotoxicity testing](#). *Drug Discov Today*. 2014 Jun;19(6):725-9. doi: 10.1016/j.drudis.2013.10.023.

Davies JA, Chang C-H, Lawrence ML, Mills CG, Mullins JJ (2014) [Engineered kidneys: principles, progress and prospects](#). *Advances in Regenerative Biology* 2014, 1: 24990. doi:10.3402/arb.v1.24990.

Wilmes A, Aschauer L, Limonciel A, Pfaller W, Jennings P. (2014) [Evidence for a role of claudin 2 as a proximal tubular stress responsive paracellular water channel](#). *Toxicol Appl Pharmacol*. 2014 Sep 1;279(2):163-72. doi: 10.1016/j.taap.2014.05.013.

Soggia A, Ramond C, Akiyama H, Scharfmann R, Duvillie B. (2014) [Von Hippel-Lindau gene disruption in mouse pancreatic progenitors and its consequences on endocrine differentiation in vivo: importance of HIF1-alpha and VEGF-A up-regulation](#). *Diabetologia*. 2014 Nov;57(11):2348-56. doi: 10.1007/s00125-014-3365-y.

Rachdi L, Kariyawasam D, Aiello V, Herault Y, Janel N, Delabar JM, Polak M, Scharfmann R. (2014) [Dyrk1A induces pancreatic beta cell mass expansion and improves glucose tolerance](#). *Cell Cycle*. 2014 Jul 15;13(14):2221-9. doi: 10.4161/cc.29250.

Bois FY, Gayraud G. (2014) [Probabilistic generation of random networks taking into account information on motifs occurrence](#). *Journal of Computational Biology*. January 2015, 22(1): 25-36. doi:10.1089/cmb.2014.0175.

Rachdi L, Kariyawasam D, Aiello V, Herault Y, Janel N, Delabar JM, Polak M, Scharfmann R. (2014) [Dyrk1a haploinsufficiency induces diabetes through decreased pancreatic beta cell mass](#). *Diabetologia*. 2014 May;57(5):960-9. doi: 10.1007/s00125-014-3174-3.

Hoarau E, Chandra V, Rustin P, Scharfmann R, Duvillie B. (2014) [Pro-Oxidant/Anti-Oxidant balance controls pancreatic \$\beta\$ -cell differentiation through the ERK1/2 pathway](#). *Cell Death Dis* 2014 23;5:e1487

Kempf H, Olmer R, Kropp C, Rückert M, Jara-Avaca M, Robles-Diaz D, Franke A, Elliott DA, Wojciechowski D, Fischer M, Roa Lara A, Kensah G, Gruh I, Haverich A, Martin U, Zweigerdt R. (2014) [Controlling expansion and cardiomyogenic differentiation of human pluripotent stem cells in scalable suspension culture](#). *Stem Cell Reports*. 2014 Dec 9;3(6):1132-46.

[Zweigert, R. & Graf, M. \(2013\) "StemBANCC: iPSC-basierte Zell- und Tox-Modelle" in *Laborwelt*, 3/2013](#)

Honore C & Hansson M. (2013) "Disease modeling and drug discovery using human pluripotent stem cells." in *Stem Cell: Current Challenges and New Directions. Stem Cell Biology and Regenerative Medicine*. pp317-340.

Nissenbaum J, Bar-Nur O, Ben-David E, Benvenisty N (2013) [Global Indiscriminate Methylation in Cell-Specific Gene Promoters following Reprogramming into Human Induced Pluripotent Stem Cells](#). *StemCellReports*, Vol. 1, 509–517, Dec 17, 2013.