

DAFTAR PUSTAKA

- Abou-Saleh, H. *et al.* (2018) 'The march of pluripotent stem cells in cardiovascular regenerative medicine', *Stem Cell Research and Therapy*. Stem Cell Research & Therapy, 9(1), pp. 1–31. doi: 10.1186/s13287-018-0947-5.
- Antarianto, R. D. *et al.* (2017) 'Perbandingan Ko-kultur 2D dan 3D dengan Metode Hanging Drop untuk Menghasilkan Micro-environment yang Lebih Relevan Secara Klinis', *eJournal Kedokteran Indonesia*, 5(2). doi: 10.23886/ejki.5.7701.
- Attwood, S. and Edell, M. (2019) 'iPS-Cell Technology and the Problem of Genetic Instability—Can It Ever Be Safe for Clinical Use?', *Journal of Clinical Medicine*, 8(3), p. 288. doi: 10.3390/jcm8030288.
- Baranek, M. *et al.* (2017) 'Effect of small molecules on cell reprogramming', pp. 277–313. doi: 10.1039/C6MB00595K.
- Brouwer, M., Zhou, H. and Nadif Kasri, N. (2016) 'Choices for Induction of Pluripotency: Recent Developments in Human Induced Pluripotent Stem Cell Reprogramming Strategies', *Stem Cell Reviews and Reports*, 12(1), pp. 54–72. doi: 10.1007/s12015-015-9622-8.
- Conner, D. A. (2000) 'Mouse Embryo Fibroblast (MEF) Feeder', *Current Protocols in Molecular Biology* 23.2.1-23.2.7, 23.2, pp. 1–23.
- Fanaroff, A. C. *et al.* (2018) 'A Path Forward for Regenerative Medicine', *Circulation Research*, 123(4), pp. 495–505. doi: 10.1161/circresaha.118.313261.
- Foty, R. (2011) 'A simple hanging drop cell culture protocol for generation of 3D spheroids', *Journal of Visualized Experiments*, (51), pp. 2–6. doi: 10.3791/2720.
- Gomes, K. M. S. *et al.* (2017) 'Induced pluripotent stem cells reprogramming: Epigenetics and applications in the regenerative medicine', *Revista da Associação Médica Brasileira*, 63(2), pp. 180–189. doi: 10.1590/1806-9282.63.02.180.
- Gu, H. *et al.* (2018) 'Optimizing the method for generation of integration-free induced pluripotent stem cells from human peripheral blood', *Stem Cell Research and Therapy*. Stem Cell Research & Therapy, 9(1), pp. 1–10. doi: 10.1186/s13287-018-0908-z.
- Hokayem, J. El, Cukier, H. N. and Dykxhoorn, D. M. (2016) 'Blood Derived Induced Pluripotent Stem Cells (iPSCs): Benefits, Challenges and the Road Ahead', *Journal of Alzheimer's Disease & Parkinsonism*, 6(5). doi: 10.4172/2161-0460.1000275.
- Hou, P. *et al.* (2013) 'Pluripotent stem cells induced from mouse somatic cells by small-molecule compounds', *Science*, 341(6146), pp. 651–654. doi: 10.1126/science.1239278.
- Jayaraj, J. C. *et al.* (2016) 'Epidemiology of Myocardial Infarction', *Intech, i(tourism)*, p. 13. doi: <http://dx.doi.org/10.5772/57353>.

Jitcy, S. J., Malindisa, S. T. and Ntwasa, M. (2016) '2D and 3D cell culture in drug discovery', *Intech, i(tourism)*, p. 13. doi: <http://dx.doi.org/10.5772/57353>.

Kim, Y. *et al.* (2016) 'The Generation of Human Induced Pluripotent Stem Cells from Blood Cells: An Efficient Protocol Using Serial Plating of Reprogrammed Cells by Centrifugation', *Stem Cells International*, 2016. doi: 10.1155/2016/1329459.

Kurosawa, H. (2007) 'Methods for inducing embryoid body formation: in vitro differentiation system of embryonic stem cells', *Journal of Bioscience and Bioengineering*, 103(5), pp. 389–398. doi: 10.1263/jbb.103.389.

Li, P. *et al.* (2017) 'Efficient feeder cells preparation system for large-scale preparation and application of induced pluripotent stem cells', *Scientific Reports*. Springer US, 7(1), pp. 1–15. doi: 10.1038/s41598-017-10428-5.

Li, X., Xu, J. and Deng, H. (2018) 'Small molecule-induced cellular fate reprogramming: promising road leading to Rome', *Current Opinion in Genetics and Development*. Elsevier Ltd, 52, pp. 29–35. doi: 10.1016/j.gde.2018.05.004.

Lin, T. and Wu, S. (2015) 'Reprogramming with small molecules instead of exogenous transcription factors', *Stem Cells International*, 2015. doi: 10.1155/2015/794632.

Loh, Y. H. *et al.* (2010) 'Reprogramming of T cells from human peripheral blood', *Cell Stem Cell*, 7(1), pp. 15–19. doi: 10.1016/j.stem.2010.06.004.

Ma, X., Kong, L. and Zhu, S. (2017) 'Reprogramming cell fates by small molecules', *Protein and Cell*. Higher Education Press, 8(5), pp. 328–348. doi: 10.1007/s13238-016-0362-6.

Maherali, N. and Hochedlinger, K. (2008) 'Guidelines and Techniques for the Generation of Induced Pluripotent Stem Cells', *Cell Stem Cell*. Elsevier Inc., 3(6), pp. 595–605. doi: 10.1016/j.stem.2008.11.008.

Mari, O. and Kazutoshi, T. (2015) 'Present and future challenges of induced pluripotent stem cells', *Philosophical Transactions of the Royal Society B: Biological Sciences*, 370(1680), p. 20140367. doi: 10.1098/rstb.2014.0367.

Miyazaki, S. *et al.* (2012) 'Emerging methods for preparing iPS cells', *Japanese Journal of Clinical Oncology*, 42(9), pp. 773–779. doi: 10.1093/jjco/hys108.

Omole, A. E. and Fakoya, A. O. J. (2018) 'Ten years of progress and promise of induced pluripotent stem cells: historical origins, characteristics, mechanisms, limitations, and potential applications', *PeerJ*, 6, p. e4370. doi: 10.7717/peerj.4370.

Paes, B. C. M. F. *et al.* (2017) 'Ten years of iPSC: clinical potential and advances in vitro hematopoietic differentiation', *Cell Biology and Toxicology*. Cell Biology and Toxicology, 33(3), pp. 233–250. doi: 10.1007/s10565-016-9377-2.

Park, S. and Mostoslavsky, G. (2018) 'Generation of Human Induced Pluripotent Stem Cells Using a Defined, Feeder-Free Reprogramming System', *Current Protocols in Stem Cell Biology*, 45(1), pp. 1–15. doi: 10.1002/cpsc.48.

- Qin, H., Zhao, A. and Fu, X. (2017) 'Small molecules for reprogramming and transdifferentiation', *Cellular and Molecular Life Sciences*. Springer International Publishing, 74(19), pp. 3553–3575. doi: 10.1007/s00018-017-2586-x.
- Raab, S. *et al.* (2014) 'A Comparative View on Human Somatic Cell Sources for iPSC Generation', *Stem Cells International*, 2014. doi: 10.1155/2014/768391.
- Rungarunlert, S. (2009) 'Embryoid body formation from embryonic and induced pluripotent stem cells: Benefits of bioreactors', *World Journal of Stem Cells*, 1(1), p. 11. doi: 10.4252/wjsc.v1.i1.11.
- Savarese, G. and Lund, L. H. (2016) 'Comorbidities Expert Opinion Depression in Patients with Heart Failure: Is Enough Being Done?', pp. 110–112. doi: 10.15420/cfr.2016.
- Singh, V. K. *et al.* (2015) 'Induced pluripotent stem cells: Applications in regenerative medicine, disease modeling, and drug discovery', *Frontiers in Cell and Developmental Biology*, 3(FEB), pp. 1–18. doi: 10.3389/fcell.2015.00002.
- Su, R. J., Neises, A. and Zhang, X. (2014) 'Generation of iPS Cells from Human Peripheral Blood Mononuclear Cells Using Episomal Vectors', pp. 1–3. doi: 10.1007/7651.
- Takahashi, K. *et al.* (2007) 'Induction of Pluripotent Stem Cells from Adult Human Fibroblasts by Defined Factors', *Cell*, 131(5), pp. 861–872. doi: 10.1016/j.cell.2007.11.019.
- Takahashi, K. and Yamanaka, S. (2006) 'Induction of Pluripotent Stem Cells from Mouse Embryonic and Adult Fibroblast Cultures by Defined Factors', *Cell*, 126(4), pp. 663–676. doi: 10.1016/j.cell.2006.07.024.
- Takahashi, K. and Yamanaka, S. (2013) 'Induced pluripotent stem cells in medicine and biology', *Development*, 140(12), pp. 2457–2461. doi: 10.1242/dev.092551.
- Takeda, Y. *et al.* (2018) 'Chemical compound-based direct reprogramming for future clinical applications', *Bioscience Reports*, 38(3), p. BSR20171650. doi: 10.1042/bsr20171650.
- Wen, W. *et al.* (2017) 'Generation of integration-free induced pluripotent stem cells from human peripheral blood mononuclear cells using episomal vectors', *Journal of Visualized Experiments*, 2017(119), pp. 1–7. doi: 10.3791/55091.
- WHO (2015) 'Who Top 10 causes of death', *Who*. Available at: <http://www.who.int/mediacentre/factsheets/fs310/en/>.
- Ye, H. and Wang, Q. (2018) 'Efficient Generation of Non-Integration and Feeder-Free Induced Pluripotent Stem Cells from Human Peripheral Blood Cells by Sendai Virus', *Cellular Physiology and Biochemistry*, 50(4), pp. 1318–1331. doi: 10.1159/000494589.
- Yu, C. *et al.* (2014) 'Chemical approaches to cell reprogramming', *Current Opinion in Genetics and Development*. Elsevier Ltd, 28, pp. 50–56. doi: 10.1016/j.gde.2014.09.006.

Yu, G. *et al.* (2015) 'Feeder Cell Sources and Feeder-Free Methods for Human iPS Cell Culture', pp. 1–351. doi: 10.1007/978-4-431-55192-8.

Zhao, J. *et al.* (2013) 'Induced pluripotent stem cells: origins, applications, and future perspectives', *Journal of Zhejiang University SCIENCE B*, 14(12), pp. 1059–1069. doi: 10.1631/jzus.b1300215.

Zhou, J. and Sun, J. (2019) 'A Revolution in Reprogramming: Small Molecules', *Current Molecular Medicine*, 19(2), pp. 77–90. doi: 10.2174/1566524019666190325113945.