

Planaria Neoblast Proliferation in 3D Bioprints

References

- Augustine, R., Kalva, S. N., Ahmad, R., Zahid, A. A., Hasan, S., Nayeem, A., McClements, L., & Hasan, A. (2021). 3D Bioprinted cancer models: Revolutionizing personalized cancer therapy. *Translational Oncology*, 14(4), 101015. <https://doi.org/10.1016/j.tranon.2021.101015>
- Bartscherer, K. (2014). Flatworms, the Masters of Regeneration – but Nothing Can Happen without Stem Cells. [Www.mpg.de](http://www.mpg.de). <https://www.mpg.de/8244494/flatworms-regeneration>
- Bessler, N., Ogiermann, D., Buchholz, M.-B., Santel, A., Heidenreich, J., Ahmmed, R., Zaehres, H., & Brand-Saberi, B. (2019). Nydus One Syringe Extruder (NOSE): A Prusa i3 3D printer conversion for bioprinting applications utilizing the FRESH-method. *HardwareX*, 6, e00069. <https://doi.org/10.1016/j.ohx.2019.e00069>
- Bociaga, D., Bartniak, M., Grabarczyk, J., & Przybyszewska, K. (2019). Sodium Alginate/Gelatine Hydrogels for Direct Bioprinting—The Effect of Composition Selection and Applied Solvents on the Bioink Properties. *Materials*, 12(17), 2669. <https://doi.org/10.3390/ma12172669>
- Cellink. (2019, March 29). *Bioprinting explained (simply!)*. CELLINK. <https://www.cellink.com/blog/bioprinting-explained-simply/>
- Cellink. (n.d.). *FRESH Bioprinting enables more complex geometries*. CELLINK. <https://www.cellink.com/blog/fresh-3d-bioprinting/>
- Cellink. (2023, June 15). *Extrusion vs. DLP 3D Bioprinting - Explanatory comparison*. CELLINK. <https://www.cellink.com/blog/extrusion-vs-dlp-3d-bioprinting-explanatory-comparison/>
- Hebert, J. D., Neal, J. W., & Winslow, M. M. (2023). Dissecting metastasis using preclinical models and methods. *Nature Reviews. Cancer*, 23(6), 391–407. <https://doi.org/10.1038/s41568-023-00568-4>
- Fu, Z., Angeline, V., & Sun, W. (2021). Evaluation of Printing Parameters on 3D Extrusion Printing of Pluronic Hydrogels and Machine Learning Guided Parameter Recommendation. *International Journal of Bioprinting*, 7(4), 343. <https://doi.org/10.18063/ijb.v7i4.434>
- Hebert, J. D., Neal, J. W., & Winslow, M. M. (2023). Dissecting metastasis using preclinical models and methods. *Nature Reviews. Cancer*, 23(6), 391–407. <https://doi.org/10.1038/s41568-023-00568-4>

Planaria Neoblast Proliferation in 3D Bioprints

Inoue, T., Hoshino, H., Yamashita, T., Shimoyama, S., & Agata, K. (2015). Planarian shows decision-making behavior in response to multiple stimuli by integrative brain function. *Zoological Letters*, 1(1).

<https://doi.org/10.1186/s40851-014-0010-z>

Kim, Y. (2023, October 29). *Building a Bioprinter as a High School Kid*. Medium.

<https://medium.com/@julie0229yl/building-a-bioprinter-as-a-high-school-kid-81d576a1662f>

Neufeld, L., Yeini, E., Pozzi, S., & Satchi-Fainaro, R. (2022). 3D bioprinted cancer models: from basic biology to drug development. *Nature Reviews Cancer*. <https://doi.org/10.1038/s41568-022-00514-w>

Milagro, del, Parducci, N. S., Miranda, Oliveira, B., Sanches, L., & João Agostinho Machado-Neto. (2024). Two-Dimensional and Spheroid-Based Three-Dimensional Cell Culture Systems: Implications for Drug Discovery in Cancer. *Drugs and Drug Candidates*, 3(2), 391–409. <https://doi.org/10.3390/ddc3020024>

Pearson, B. J., & Alvarado, A. S. (2010). A planarian p53 homolog regulates proliferation and self-renewal in adult stem cell lineages. *Development*, 137(2), 213–221. <https://doi.org/10.1242/dev.044297>

Pijuan, J., Barceló, C., Moreno, D. F., Maiques, O., Sisó, P., Martí, R. M., Macià, A., & Panosa, A. (2019). In vitro Cell Migration, Invasion, and Adhesion Assays: From Cell Imaging to Data Analysis. *Frontiers in Cell and Developmental Biology*, 7(107). <https://doi.org/10.3389/fcell.2019.00107>

Puls, T. J., Tan, X., Husain, M., Whittington, C. F., Fishel, M. L., & Voytik-Harbin, S. L. (2018). Development of a Novel 3D Tumor-tissue Invasion Model for High-throughput, High-content Phenotypic Drug Screening. *Scientific Reports*, 8(1), 13039. <https://doi.org/10.1038/s41598-018-31138-6>

Shukla, P., Yeleswarapu, S., Heinrich, M., Prakash, J., & Pati, F. (2022). Mimicking Tumor Microenvironment by 3D Bioprinting: 3D Cancer Modeling. *Biofabrication*, 14(3). <https://doi.org/10.1088/1758-5090/ac6d11>

Tashman, J. W., Shiawski, D. J., & Feinberg, A. W. (2021). A high performance open-source syringe extruder optimized for extrusion and retraction during FRESH 3D bioprinting. *HardwareX*, 9(e00170), e00170.

<https://doi.org/10.1016/j.ohx.2020.e00170>

Tian, S., Zhao, H., & Lewinski, N. (2021). Key parameters and applications of extrusion-based bioprinting. *Bioprinting*, 23, e00156. <https://doi.org/10.1016/j.bprint.2021.e00156>

Wu, B.-X., Wu, Z., Hou, Y.-Y., Fang, Z.-X., Deng, Y., Wu, H.-T., & Liu, J. (2023). Application of three-dimensional (3D) bioprinting in anti-cancer therapy. *Heliyon*, 9(10), e20475. <https://doi.org/10.1016/j.heliyon.2023.e20475>

Planaria Neoblast Proliferation in 3D Bioprints

Zeng, A., Li, H., Guo, L., Gao, X., McKinney, S., Wang, Y., Yu, Z., Park, J., Semerad, C., Ross, E., Cheng, L.-C., Davies, E.,

Lei, K., Wang, W., Perera, A., Hall, K., Peak, A., Box, A., & Sánchez Alvarado, A. (2018). Prospectively

Isolated Tetraspanin+ Neoblasts Are Adult Pluripotent Stem Cells Underlying Planaria Regeneration. *Cell*,

173(7), 1593-1608.e20. <https://doi.org/10.1016/j.cell.2018.05.006>

Zhang, Y. S., Duchamp, M., Oklu, R., Ellisen, L. W., Langer, R., & Khademhosseini, A. (2016). Bioprinting the Cancer

Microenvironment. *ACS Biomaterials Science & Engineering*, 2(10), 1710–1721.

<https://doi.org/10.1021/acsbiomaterials.6b00246>

Zhang, Y. S., Haghiashtiani, G., Hübscher, T., Kelly, D. J., Lee, J. M., Lutolf, M., McAlpine, M. C., Yeong, W. Y., Zenobi-

Wong, M., & Malda, J. (2021). 3D extrusion bioprinting. *Nature Reviews Methods Primers*, 1(1).

<https://doi.org/10.1038/s43586-021-00073-8>