

Janna C. Nawroth, Ph.D.

Peer-Reviewed Journal Articles:

Citations: 1798
h-index: 18 (Source: Google Scholar Oct 4, 2021)

* corresponding author

1. **Nawroth JC***, Petropolis DB, Manatakis DV, Maulana TI, Burchett G, Schlünder K, Witt A, Shukla A, Kodella K, Ronxhi J, Kulkarni G, Hamilton G, Seki E, Lu S, Karalis KC. "Modeling alcohol-associated liver disease in a human Liver-Chip". *Cell Rep.* 2021 Jul, 20;36(3):109393
2. Parekh KR, **Nawroth JC**, Pai A, Busch SM, Senger CN, Ryan AL. "Stem cells and lung regeneration". *Am J Physiol Cell Physiol.* 2020 Oct 1;319(4):C675-C693. doi: 10.1152/ajpcell.00036.2020. Epub 2020 Aug 12. PMID: 32783658; PMCID: PMC7654650
3. **Nawroth JC***, Lucchesi C, Cheng D, Shukla A, Ngyuen J, Shroff T, Varone A, Karalis K, Lee HH, Alves S, Hamilton GA, Salmon M, Villenave R. "A Microengineered Airway Lung Chip Models Key Features of Viral-induced Exacerbation of Asthma". *Am J Respir Cell Mol Biol.* 2020 Nov;63(5):591-600. doi: 10.1165/rcmb.2020-0010MA. PMID: 32706623.
4. **Nawroth JC***, van der Does AM, Firth AL, Kanso E. "Multiscale mechanics of mucociliary clearance in the lung". *Royal Society Philosophical Transactions B* 2020 Feb 17;375(1792):20190160.
5. Novak R, [50 co-authors in alphabetic order, including **Nawroth JC**], Parker KK, Ingber D, "Robotic fluidic coupling and interrogation of multiple vascularized organ chips", *Nature Biomedical Engineering*, 2020 Jan 27; 4, 4:407–420,
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9. Maoz B, Herland A, FitzGerald E, Grevesse T, Vidoudez C, Pacheco A, Sheehy S, Park T, Dauth S, Mannix R, Budnik N, Shores K, Cho A, **Nawroth JC**, Segre D, Budnik B, Ingber D, Parker KK, "A linked organ-on-chip model of the human neurovascular unit reveals the metabolic coupling of endothelial and neuronal cells" *Nature Biotechnology*, August 2018, 36: 865–874.
10. **Nawroth JC**, Scudder L, Halvorson R, Tresback J, Ferrier J, Sheehy S, Cho A, Kannan S, Goss J, Sunyovszki I, Campbell P, Parker KK, "Automated fabrication of photopatterned gelatin hydrogels for organ-on-chips applications". *Biofabrication*, January 2018; 10:025004.
11. **Nawroth JC**, Rogal J, Weiss M, Brucker SY, Loskill P, "Organ-on-a-Chip Systems for Women's Health Applications". *Adv Healthc Mater.* October 6, 2017; 7(2).
12. **Nawroth JC**, Guo H, Dabiri JO, Ruby E, Kanso E, McFall-Ngai M, "Motile cilia create fluid-mechanical microhabitats for the active recruitment of the host microbiome". *Proc Natl Acad Sci USA*, August 2017;

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19. **Nawroth JC** and Parker KK. “Design standards for engineered tissues”. Biotechnol Adv. 2013 Sep-Oct;31(5):632-7.
20. **Nawroth JC**, Lee H, Feinberg AW, Ripplinger CM, McCain ML, Grosberg A, Dabiri DO, Parker KK. “A tissue-engineered jellyfish with biomimetic propulsion”. Nature Biotechnology 2012 July 22, 30:792–797 (Cover article).
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Patents:

1. 09/2019 International Application No.: PCT/US2019/016680; **Nawroth JC**, Barrile R, Conegliano D, Villenave R, Lucchesi C, Nguyen J, Varone A, Karalis C, Hamilton G. “Stem cell-based lung-on-chip models”.
2. 11/2019 International Application No.: WO-2019217732-A1; Kerns SJ, Karalis C, **Nawroth JC**, Villenave R, Obrigewitch J, Roth D, Salmon M, Apostolou A, Conegliano D. “Host-biome interactions”.
3. 08/2018 U.S. Patent No.: US20180221874A1; Parker KK, **Nawroth JC**, Kujala V, Shiraz A. “Fluidic devices incorporating functional muscle tissue and methods of use”.
4. 02/2018 International Application No.: WO2018027105A1; Parker KK, **Nawroth JC**, Scudder L. “Methods for optical micropatterning of hydrogels and uses thereof”.

5. 03/2017 U.S. Application No.: US2017226478; Kerns J, Wen N, Hamilton G, Hinojosa C, Fraser J, Karalis C, **Nawroth JC**, Sareen, D, Kaus A, Mandefro B, Park, HS, Kujala V. "Neuromuscular Junction: NMJ-ON-CHIP".
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