Richard Novak

List of Publications by Citations

19 papers	1,422 citations	11 h-index	27 g-index
27 ext. papers	2,103 ext. citations	13.6 avg, IF	4.3 L-index

#	Paper	IF	Citations
19	A complex human gut microbiome cultured in an anaerobic intestine-on-a-chip. *Nature Biomedical Engineering*, **2019**, 3, 520-531	19	283
18	Mature induced-pluripotent-stem-cell-derived human podocytes reconstitute kidney glomerular-capillary-wall function on a chip. *Nature Biomedical Engineering*, **2017**, 1,	19	253
17	Quantitative prediction of human pharmacokinetic responses to drugs via fluidically coupled vascularized organ chips. *Nature Biomedical Engineering*, **2020**, 4, 421-436	19	154
16	Matched-Comparative Modeling of Normal and Diseased Human Airway Responses Using a Microengineered Breathing Lung Chip. *Cell Systems*, **2016**, 3, 456-466.e4	10.6	152
15	Robotic fluidic coupling and interrogation of multiple vascularized organ chips. *Nature Biomedical Engineering*, **2020**, 4, 407-420	19	150
14	COVID-19 tissue atlases reveal SARS-CoV-2 pathology and cellular targets. *Nature*, **2021**, 595, 107-113	50.4	124
13	Physiologically Based Pharmacokinetic and Pharmacodynamic Analysis Enabled by Microfluidically Linked Organs-on-Chips. *Annual Review of Pharmacology and Toxicology*, **2018**, 58, 37-64	17.9	103
12	On-chip recapitulation of clinical bone marrow toxicities and patient-specific pathophysiology. *Nature Biomedical Engineering*, **2020**, 4, 394-406	19	97
11	Human Lung Small Airway-on-a-Chip Protocol. *Methods in Molecular Biology*, **2017**, 1612, 345-365	1.4	40
10	Scalable Fabrication of Stretchable, Dual Channel, Microfluidic Organ Chips. *Journal of Visualized Experiments*, **2018**,	1.6	18
9	Biomimetic smoking robot for in vitro inhalation exposure compatible with microfluidic organ chips. *Nature Protocols*, **2020**, 15, 183-206	18.8	17
8	Monitoring transient cell-to-cell interactions in a multi-layered and multi-functional allergy-on-a-chip system. *Lab on A Chip*, **2019**, 19, 1916-1921	7.2	9
7	An in vivo brain-bacteria interface: the developing brain as a key regulator of innate immunity. *Npj Regenerative Medicine*, **2020**, 5, 2	15.8	5
6	Toward Decoding Bioelectric Events in Xenopus Embryogenesis: New Methodology for Tracking Interplay Between Calcium and Resting Potentials In Vivo. *Journal of Molecular Biology*, **2020**, 432, 605-620	6.5	5
5	Accessioning and automation compatible anterior nares swab design. *Journal of Virological Methods* , **2021**, 294, 114153	2.6	3
4	Establishment of a Modular Anaerobic Human Intestine Chip. *Methods in Molecular Biology*, **2022**, 2373, 69-85	1.4	3
3	A robotic platform for fluidically-linked human body-on-chips experimentation		1

2	Mechanosensation Mediates Long-Range Spatial Decision-Making in an Aneural Organism. *Advanced Materials*, **2021**, 33, e2008161	24	0
1	Increased phosphorylation of ACTN4 leads to podocyte vulnerability and proteinuric kidney disease and is stimulated by high glucose and TGF-b. *FASEB Journal*, **2020**, 34, 1-1	0.9	