

# Development of an artificial neuronal network with post-synaptic cells by polyethylenimine

Biosensors and Bioelectronics

23, 1221-1228

DOI: [10.1016/j.bios.2007.11.007](https://doi.org/10.1016/j.bios.2007.11.007)

Citation Report

#	ARTICLE	IF	CITATIONS
1	Modelling small-patterned neuronal networks coupled to microelectrode arrays. <i>Journal of Neural Engineering</i> , 2008, 5, 350-359.	1.8	10
2	Biofouling of dextran-derivative layers investigated by quartz crystal microbalance. <i>Colloids and Surfaces B: Biointerfaces</i> , 2009, 71, 293-299.	2.5	29
3	Generation of Patterned Neuronal Networks on Cell-Repellant Poly(oligo(ethylene glycol)) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 662 T	1.7	13
4	Surface strategies for control of neuronal cell adhesion: A review. <i>Surface Science Reports</i> , 2010, 65, 145-173.	3.8	152
6	AFM measurement of the stiffness of layers of agarose gel patterned with polylysine. <i>Microscopy Research and Technique</i> , 2010, 73, 982-990.	1.2	24
7	A neurospheroid network-stamping method for neural transplantation to the brain. <i>Biomaterials</i> , 2010, 31, 8939-8945.	5.7	78
8	Electrically controlling cell adhesion, growth and migration. <i>Colloids and Surfaces B: Biointerfaces</i> , 2010, 79, 365-371.	2.5	17
9	Facile photopatterning of polyfluorene for patterned neuronal networks. <i>Soft Matter</i> , 2011, 7, 10025.	1.2	10
10	Photopatterning of Cell-Adhesive-Modified Poly(ethyleneimine) for Guided Neuronal Growth. <i>Langmuir</i> , 2011, 27, 2717-2722.	1.6	18
11	Atomic force microscopy and its contribution to understanding the development of the nervous system. <i>Current Opinion in Genetics and Development</i> , 2011, 21, 530-537.	1.5	52
12	Implantable microdevice for peripheral nerve regeneration: materials and fabrications. <i>Journal of Materials Science</i> , 2011, 46, 4723-4740.	1.7	21
13	Neural cell-cell and cell-substrate adhesion through N-cadherin, N-CAM and L1. <i>Journal of Neural Engineering</i> , 2011, 8, 046004.	1.8	8
14	Fine neurite patterns from photocrosslinking of cell-repellent benzophenone copolymer. <i>Journal of Neuroscience Methods</i> , 2012, 210, 161-168.	1.3	9
15	Highly Ordered Large-Scale Neuronal Networks of Individual Cells - Toward Single Cell to 3D Nanowire Intracellular Interfaces. <i>ACS Applied Materials &amp; Interfaces</i> , 2012, 4, 3542-3549.	4.0	51
16	Self-assembled chitin nanofiber templates for artificial neural networks. <i>Journal of Materials Chemistry</i> , 2012, 22, 3105.	6.7	47
17	A new quantitative experimental approach to investigate single cell adhesion on multifunctional substrates. <i>Biosensors and Bioelectronics</i> , 2013, 48, 172-179.	5.3	27
18	Neuroglial differentiation of adult enteric neuronal progenitor cells as a function of extracellular matrix composition. <i>Biomaterials</i> , 2013, 34, 6649-6658.	5.7	47
19	Tuning neuron adhesion and neurite guiding using functionalized AuNPs and backfill chemistry. <i>RSC Advances</i> , 2015, 5, 39252-39262.	1.7	18

#	ARTICLE	IF	CITATIONS
21	Facile real-time evaluation of the stability of surface charge under regular shear stress by pulsed streaming potential measurement. <i>RSC Advances</i> , 2015, 5, 78519-78525.	1.7	5
22	Cell-Type Dependent Effect of Surface-Patterned Microdot Arrays on Neuronal Growth. <i>Frontiers in Neuroscience</i> , 2016, 10, 217.	1.4	4
23	Self-Aligned Functionalization Approach to Order Neuronal Networks at the Single-Cell Level. <i>Langmuir</i> , 2018, 34, 6612-6620.	1.6	11
24	Selective Regulation of Neurons, Glial Cells, and Neural Stem/Precursor Cells by Poly(allylguanidine)-Coated Surfaces. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 48381-48392.	4.0	8
25	Microfluidic array chip based on excimer laser processing technology for the construction of in vitro graphical neuronal network. <i>Journal of Bioactive and Compatible Polymers</i> , 2020, 35, 228-239.	0.8	2
26	Growth characteristics of human bone marrow mesenchymal stromal cells at cultivation on synthetic polyelectrolyte nanofilms in vitro. <i>Heliyon</i> , 2021, 7, e06517.	1.4	1
27	Ultrathin polyethyleneimine (PEI) films for culturing of the human mesenchymal stromal cells (hMSCs). <i>Journal of Cardiovascular Medicine and Cardiology</i> , 2020, , 255-261.	0.1	1
28	A Morphologic Study on Creation of Neural Network of Cultured Striatal Neurons in vitro Using Soft Lithography Techniques*. <i>Progress in Biochemistry and Biophysics</i> , 2009, 2009, 787-792.	0.3	0
29	Application of Soft Lithography and Micro-Fabrication on Neurobiology. , 0, , .		0
30	2,3-Diphosphoglycerate and the Protective Effect of Pyruvate Kinase Deficiency against Malaria Infectionâ€”Exploring the Role of the Red Blood Cell Membrane. <i>International Journal of Molecular Sciences</i> , 2023, 24, 1336.	1.8	2
31	Real-Time Cell Temperature Fluctuation Monitoring System Using Precision Pt Sensors Coated with Low Thermal Capacity, Low Thermal Resistance, and Self-Assembled Multilayer Films. <i>ACS Sensors</i> , 2023, 8, 141-149.	4.0	5