Unai Silvan

List of Publications by Year
in descending order

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Version: 2024-02-01

40 papers	1,153 citations	394286 19 h-index	395590 33 g-index
44 all docs	44 docs citations	44 times ranked	1826 citing authors

#	Article	IF	Citations
1	The testicular cancer stem cell niche. Advances in Stem Cells and Their Niches, 2021, , 205-236.	0.1	0
2	Focus on time: dynamic imaging reveals stretch-dependent cell relaxation and nuclear deformation. Biophysical Journal, 2021, 120, 764-772.	0.2	2
3	Shear-stress sensing by PIEZO1 regulates tendon stiffness in rodents and influences jumping performance in humans. Nature Biomedical Engineering, 2021, 5, 1457-1471.	11.6	54
4	3D printable self-healing hyaluronic acid/chitosan polycomplex hydrogels with drug release capability. International Journal of Biological Macromolecules, 2021, 188, 820-832.	3.6	38
5	Tendon response to matrix unloading is determined by the patho-physiological niche. Matrix Biology, 2020, 89, 11-26.	1.5	36
6	Facile generation of giant unilamellar vesicles using polyacrylamide gels. Scientific Reports, 2020, 10, 4824.	1.6	16
7	Macromechanics and polycaprolactone fiber organization drive macrophage polarization and regulate inflammatory activation of tendon in vitro and in vivo. Biomaterials, 2020, 249, 120034.	5.7	71
8	The Protein Mat(ters)â€"Revealing the Biologically Relevant Mechanical Contribution of Collagen- and Fibronectin-Coated Micropatterns. ACS Applied Materials & Interfaces, 2019, 11, 41791-41798.	4.0	4
9	Fascin-1 enhances experimental osteosarcoma tumor formation and metastasis and is related to poor patient outcome. BMC Cancer, 2019, 19, 83.	1.1	23
10	On the biomechanical properties of osteosarcoma cells and their environment. International Journal of Developmental Biology, 2019, 63, 1-8.	0.3	18
11	The relationship between metastatic potential and in vitro mechanical properties of osteosarcoma cells. Molecular Biology of the Cell, 2019, 30, 887-898.	0.9	39
12	Biomaterial surface energy-driven ligand assembly strongly regulates stem cell mechanosensitivity and fate on very soft substrates. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 4631-4636.	3.3	57
13	Substrate fiber alignment mediates tendon cell response to inflammatory signaling. Acta Biomaterialia, 2018, 71, 306-317.	4.1	70
14	Minimal mechanical load and tissue culture conditions preserve native cell phenotype and morphology in tendonâ€"a novel ex vivo mouse explant model. Journal of Orthopaedic Research, 2018, 36, 1383-1390.	1.2	28
15	Actin ADP-ribosylation at Threonine148 byPhotorhabdus luminescenstoxin TccC3 induces aggregation of intracellular F-actin. Cellular Microbiology, 2017, 19, e12636.	1.1	21
16	High-resolution traction force microscopy on small focal adhesions - improved accuracy through optimal marker distribution and optical flow tracking. Scientific Reports, 2017, 7, 41633.	1.6	38
17	Advanced glycation end-products: Mechanics of aged collagen from molecule to tissue. Matrix Biology, 2017, 59, 95-108.	1.5	186
18	Contributions of the lower dimer to supramolecular actin patterning revealed by TIRF microscopy. Journal of Structural Biology, 2016, 195, 159-166.	1.3	3

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19	Testis peritubular myoid cells increase their motility and express matrixâ€metalloproteinase 9 (<scp>MMP</scp>â€9) after interaction with embryonal carcinoma cells. Andrology, 2016, 4, 111-120.	1.9	2
20	Surfaceâ€Driven Collagen Selfâ€Assembly Affects Early Osteogenic Stem Cell Signaling. Advanced Healthcare Materials, 2016, 5, 1481-1492.	3.9	33
21	Easy and Accurate Mechano-profiling on Micropost Arrays. Journal of Visualized Experiments, 2015, , .	0.2	9
22	Distinct actin oligomers modulate differently the activity of actin nucleators. FEBS Journal, 2015, 282, 3824-3840.	2.2	10
23	Vasculogenesis and angiogenesis in nonseminomatous testicular germ cell tumors. Urologic Oncology: Seminars and Original Investigations, 2015, 33, 268.e17-268.e28.	0.8	9
24	The Male Germinal Stem Cell Niche in Mammals. Pancreatic Islet Biology, 2015, , 313-326.	0.1	0
25	Thymosin beta4 inhibits ADF/cofilin stimulated Fâ€actin cycling and hela cell migration: Reversal by active Arp2/3 complex. Cytoskeleton, 2014, 71, 95-107.	1.0	9
26	A tumorigenic actin mutant alters fibroblast morphology and multicellular assembly properties. Cytoskeleton, 2013, 70, 635-650.	1.0	7
27	Unconventional Actin Configurations Step into the Limelight. Advances in Protein Chemistry and Structural Biology, 2013, 90, 151-177.	1.0	1
28	FHOD1 is a combined actin filament capping and bundling factor that selectively associates with actin arcs and stress fibers. Journal of Cell Science, 2013, 126, 1891-901.	1.2	74
29	Evidence for a role of matrix metalloproteinases and their inhibitors in primordial germ cell migration. Andrology, 2013, 1, 779-786.	1.9	15
30	The spermatogonial stem cell niche in testicular germ cell tumors. International Journal of Developmental Biology, 2013, 57, 185-195.	0.3	17
31	Anatomical basis for cell transplantation into mouse seminiferous tubules. Reproduction, 2012, 144, 385-392.	1.1	8
32	An antiparallel actin dimer is associated with the endocytic pathway in mammalian cells. Journal of Structural Biology, 2012, 177, 70-80.	1.3	12
33	Embryonic Stem Cell Transplantation into Seminiferous Tubules: A Model for the Study of Invasive Germ Cell Tumors of the Testis. Cell Transplantation, 2011, 20, 637-642.	1.2	10
34	Peritubular myoid cellâ€derived factors and its potential role in the progression of testicular germ cell tumours. Journal of Developmental and Physical Disabilities, 2011, 34, e252-64; discussion e264-5.	3.6	15
35	Vascularization of testicular germ cell tumours: evidence from experimental teratocarcinomas. Journal of Developmental and Physical Disabilities, 2010, 33, 765-774.	3.6	17
36	The role of microenvironment in testicular germ cell tumors. Cancer Biology and Therapy, 2010, 10, 529-536.	1.5	25

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37	Angiogenesis and vascular network of teratocarcinoma from embryonic stem cell transplant into seminiferous tubules. British Journal of Cancer, 2009, 101, 64-70.	2.9	24
38	Hypoxia and pluripotency in embryonic and embryonal carcinoma stem cell biology. Differentiation, 2009, 78, 159-168.	1.0	77
39	Peptide Nanoparticles Serve as a Powerful Platform for the Immunogenic Display of Poorly Antigenic Actin Determinants. Journal of Molecular Biology, 2009, 386, 1368-1381.	2.0	47
40	Germinal tumor invasion and the role of the testicular stroma. International Journal of Developmental Biology, 2004, 48, 545-557.	0.3	26