

# Francesco Pampaloni

## List of Publications by Year in descending order

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Version: 2024-02-01

51  
papers

6,214  
citations

201385

27  
h-index

189595

50  
g-index

56  
all docs

56  
docs citations

56  
times ranked

11861  
citing authors

#	ARTICLE	IF	CITATIONS
1	The third dimension bridges the gap between cell culture and live tissue. <i>Nature Reviews Molecular Cell Biology</i> , 2007, 8, 839-845.	16.1	2,276
2	Recent advances in 2D and 3D in vitro systems using primary hepatocytes, alternative hepatocyte sources and non-parenchymal liver cells and their use in investigating mechanisms of hepatotoxicity, cell signaling and ADME. <i>Archives of Toxicology</i> , 2013, 87, 1315-1530.	1.9	1,089
3	High-resolution three-dimensional imaging of large specimens with light sheet-based microscopy. <i>Nature Methods</i> , 2007, 4, 311-313.	9.0	322
4	Thermal fluctuations of grafted microtubules provide evidence of a length-dependent persistence length. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 10248-10253.	3.3	316
5	3D high-content screening for the identification of compounds that target cells in dormant tumor spheroid regions. <i>Experimental Cell Research</i> , 2014, 323, 131-143.	1.2	219
6	The signal flow and motor response controlling chemotaxis of sea urchin sperm. <i>Nature Cell Biology</i> , 2003, 5, 109-117.	4.6	186
7	Linear ubiquitination of cytosolic Salmonella Typhimurium activates NF- $\kappa$ B and restricts bacterial proliferation. <i>Nature Microbiology</i> , 2017, 2, 17066.	5.9	145
8	High-resolution deep imaging of live cellular spheroids with light-sheet-based fluorescence microscopy. <i>Cell and Tissue Research</i> , 2013, 352, 161-177.	1.5	144
9	Fluorescence-Based Sensors to Monitor Localization and Functions of Linear and K63-Linked Ubiquitin Chains in Cells. <i>Molecular Cell</i> , 2012, 47, 797-809.	4.5	137
10	Microtubule architecture: inspiration for novel carbon nanotube-based biomimetic materials. <i>Trends in Biotechnology</i> , 2008, 26, 302-310.	4.9	113
11	Life sciences require the third dimension. <i>Current Opinion in Cell Biology</i> , 2006, 18, 117-124.	2.6	99
12	Three-Dimensional Tissue Models for Drug Discovery and Toxicology. <i>Recent Patents on Biotechnology</i> , 2009, 3, 103-117.	0.4	85
13	Time-resolved confocal scanning device for ultrasensitive fluorescence detection. <i>Review of Scientific Instruments</i> , 2001, 72, 4145-4152.	0.6	84
14	Unified operator approach for deriving Hermite-Gaussian and Laguerre-Gaussian laser modes. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2004, 21, 1553.	0.8	81
15	Microtubule Dynamics Depart from the Wormlike Chain Model. <i>Physical Review Letters</i> , 2008, 100, 028102.	2.9	69
16	Three-Dimensional Cell Cultures in Toxicology. <i>Biotechnology and Genetic Engineering Reviews</i> , 2009, 26, 117-138.	2.4	68
17	Light-sheet-based fluorescence microscopy (LSFM) for the quantitative imaging of cells and tissues. <i>Cell and Tissue Research</i> , 2015, 360, 129-141.	1.5	66
18	Multiscale image analysis reveals structural heterogeneity of the cell microenvironment in homotypic spheroids. <i>Scientific Reports</i> , 2017, 7, 43693.	1.6	59

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19	Long-term live imaging and multiscale analysis identify heterogeneity and core principles of epithelial organoid morphogenesis. <i>BMC Biology</i> , 2021, 19, 37.	1.7	54
20	Identification of autophagy as a longevity-assurance mechanism in the aging model <i>Podospora anserina</i> . <i>Autophagy</i> , 2014, 10, 822-834.	4.3	53
21	Robust and automated three-dimensional segmentation of densely packed cell nuclei in different biological specimens with Lines-of-Sight decomposition. <i>BMC Bioinformatics</i> , 2015, 16, 187.	1.2	43
22	Human extrahepatic and intrahepatic cholangiocyte organoids show region-specific differentiation potential and model cystic fibrosis-related bile duct disease. <i>Scientific Reports</i> , 2020, 10, 21900.	1.6	43
23	Three-dimensional preparation and imaging reveal intrinsic microtubule properties. <i>Nature Methods</i> , 2007, 4, 843-846.	9.0	39
24	Tissue-culture light sheet fluorescence microscopy (TC-LSFM) allows long-term imaging of three-dimensional cell cultures under controlled conditions. <i>Integrative Biology (United Kingdom)</i> , 2014, 6, 988-998.	0.6	39
25	AMP-Activated Protein Kinase $\hat{1}\pm 2$ in Neutrophils Regulates Vascular Repair via Hypoxia-Inducible Factor- $1\hat{1}\pm$ and a Network of Proteins Affecting Metabolism and Apoptosis. <i>Circulation Research</i> , 2017, 120, 99-109.	2.0	38
26	MISpheroid: a knowledgebase and transparency tool for minimum information in spheroid identity. <i>Nature Methods</i> , 2021, 18, 1294-1303.	9.0	38
27	Standardized GMP-compliant scalable production of human pancreas organoids. <i>Stem Cell Research and Therapy</i> , 2020, 11, 94.	2.4	34
28	Quantitative 3D Cell-Based Assay Performed with Cellular Spheroids and Fluorescence Microscopy. <i>Methods in Cell Biology</i> , 2013, 113, 295-309.	0.5	28
29	p63 uses a switch-like mechanism to set the threshold for induction of apoptosis. <i>Nature Chemical Biology</i> , 2020, 16, 1078-1086.	3.9	28
30	Three-Dimensional Microtubule Behavior in <i>Xenopus</i> Egg Extracts Reveals Four Dynamic States and State-Dependent Elastic Properties. <i>Biophysical Journal</i> , 2008, 95, 1474-1486.	0.2	26
31	Light-Sheet-Based Fluorescence Microscopy for Three-Dimensional Imaging of Biological Samples. <i>Cold Spring Harbor Protocols</i> , 2014, 2014, pdb.top080168.	0.2	23
32	Ultra-thin fluorocarbon foils optimise multiscale imaging of three-dimensional native and optically cleared specimens. <i>Scientific Reports</i> , 2019, 9, 17292.	1.6	20
33	Live Spheroid Formation Recorded with Light Sheet-Based Fluorescence Microscopy. <i>Methods in Molecular Biology</i> , 2015, 1251, 43-57.	0.4	18
34	3D-Cell-Annotator: an open-source active surface tool for single-cell segmentation in 3D microscopy images. <i>Bioinformatics</i> , 2020, 36, 2948-2949.	1.8	18
35	Madinâ€“Darby canine kidney cells are increased in aerobic glycolysis when cultured on flat and stiff collagenâ€“coated surfaces rather than in physiological 3â€“D cultures. <i>Proteomics</i> , 2010, 10, 3394-3413.	1.3	15
36	A Novel Cellular Spheroid-Based Autophagy Screen Applying Live Fluorescence Microscopy Identifies Nonactin as a Strong Inducer of Autophagosomal Turnover. <i>SLAS Discovery</i> , 2017, 22, 558-570.	1.4	13

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37	Imaging Cellular Spheroids with a Single (Selective) Plane Illumination Microscope. Cold Spring Harbor Protocols, 2014, 2014, pdb.prot080176.	0.2	11
38	Imaging MDCK Cysts with a Single (Selective) Plane Illumination Microscope. Cold Spring Harbor Protocols, 2014, 2014, pdb.prot080184.	0.2	8
39	Non-invasive analysis of pancreas organoids in synthetic hydrogels defines material-cell interactions and luminal composition. Biomaterials Science, 2021, 9, 5415-5426.	2.6	8
40	Accelerating cryoprotectant diffusion kinetics improves cryopreservation of pancreatic islets. Scientific Reports, 2021, 11, 10418.	1.6	8
41	In Vitro Models of Bone Marrow Remodelling and Immune Dysfunction in Space: Present State and Future Directions. Biomedicine, 2022, 10, 766.	1.4	8
42	Quantifying the Autophagy-Triggering Effects of Drugs in Cell Spheroids with Live Fluorescence Microscopy. Methods in Molecular Biology, 2014, 1165, 19-29.	0.4	7
43	Upgrading a Consumer Stereolithographic 3D Printer to Produce a Physiologically Relevant Model with Human Liver Cancer Organoids. Advanced Materials Technologies, 2022, 7, .	3.0	7
44	hFRUIT: An optimized agent for optical clearing of Dil-stained adult human brain tissue. Scientific Reports, 2020, 10, 9950.	1.6	6
45	Three-Dimensional Live Imaging of Filamentous Fungi with Light Sheet-Based Fluorescence Microscopy (LSFM). Methods in Molecular Biology, 2017, 1563, 19-31.	0.4	5
46	Extracting the Mechanical Properties of Microtubules from Thermal Fluctuation Measurements on an Attached Tracer Particle. Methods in Cell Biology, 2010, 95, 601-615.	0.5	4
47	Polyethylenimine Bioconjugates for Imaging and DNA Delivery In Vivo. Methods in Molecular Biology, 2011, 751, 145-165.	0.4	4
48	Light sheet-based fluorescence microscopy (LSFM) reduces phototoxic effects and provides new means for the modern life sciences. Proceedings of SPIE, 2011, , .	0.8	3
49	Multi-Modal and Molecular Imaging of Cellular Microenvironment and Tissue Development. International Journal of Molecular Sciences, 2022, 23, 7113.	1.8	1
50	Literature Search and Review. Assay and Drug Development Technologies, 2014, 12, 197-206.	0.6	0
51	THREE-DIMENSIONAL CELL CULTURES IN TOXICOLOGY. , 0, , 117-138.		0