Filippo Piccinini

List of Publications by Citations

48 papers	**1,281** citations	**16** h-index	**35** g-index
54 ext. papers	**1,756** ext. citations	**7.1** avg, IF	**4.86** L-index

#	Paper	IF	Citations
48	3D tumor spheroid models for in vitro therapeutic screening: a systematic approach to enhance the biological relevance of data obtained. *Scientific Reports*, **2016**, 6, 19103	4.9	540
47	CIDRE: an illumination-correction method for optical microscopy. *Nature Methods*, **2015**, 12, 404-6	21.6	89
46	CellTracker (not only) for dummies. *Bioinformatics*, **2016**, 32, 955-7	7.2	65
45	Phenotypic Image Analysis Software Tools for Exploring and Understanding Big Image Data from Cell-Based Assays. *Cell Systems*, **2018**, 6, 636-653	10.6	49
44	Concerns, challenges and promises of high-content analysis of 3D cellular models. *Nature Reviews Drug Discovery*, **2018**, 17, 606	64.1	46
43	Advanced Cell Classifier: User-Friendly Machine-Learning-Based Software for Discovering Phenotypes in High-Content Imaging Data. *Cell Systems*, **2017**, 4, 651-655.e5	10.6	42
42	Cell Counting and Viability Assessment of 2D and 3D Cell Cultures: Expected Reliability of the Trypan Blue Assay. *Biological Procedures Online*, **2017**, 19, 8	8.3	39
41	Cancer multicellular spheroids: volume assessment from a single 2D projection. *Computer Methods and Programs in Biomedicine*, **2015**, 118, 95-106	6.9	34
40	AnaSP: a software suite for automatic image analysis of multicellular spheroids. *Computer Methods and Programs in Biomedicine*, **2015**, 119, 43-52	6.9	32
39	Multi-image based method to correct vignetting effect in light microscopy images. *Journal of Microscopy*, **2012**, 248, 6-22	1.9	30
38	Small extracellular vesicles convey the stress-induced adaptive responses of melanoma cells. *Scientific Reports*, **2019**, 9, 15329	4.9	29
37	Colour deconvolution: stain unmixing in histological imaging. *Bioinformatics*, **2021**, 37, 1485-1487	7.2	24
36	Automated image mosaics by non-automated light microscopes: the MicroMos software tool. *Journal of Microscopy*, **2013**, 252, 226-50	1.9	23
35	Protein kinase B/AKT isoform 2 drives migration of human mesenchymal stem cells. *International Journal of Oncology*, **2013**, 42, 118-26	4.4	22
34	Long term morphological characterization of mesenchymal stromal cells 3D spheroids built with a rapid method based on entry-level equipment. *Cytotechnology*, **2016**, 68, 2479-2490	2.2	19
33	Extended depth of focus in optical microscopy: assessment of existing methods and a new proposal. *Microscopy Research and Technique*, **2012**, 75, 1582-92	2.8	17
32	Software tools for 3D nuclei segmentation and quantitative analysis in multicellular aggregates. *Computational and Structural Biotechnology Journal*, **2020**, 18, 1287-1300	6.8	13

#	Reference	IF	Cit.
31	A new holistic 3D non-invasive analysis of cellular distribution and motility on fibroin-alginate microcarriers using light sheet fluorescent microscopy. *PLoS ONE*, **2017**, 12, e0183336	3.7	13
30	Improving reliability of live/dead cell counting through automated image mosaicing. *Computer Methods and Programs in Biomedicine*, **2014**, 117, 448-63	6.9	13
29	Towards Consistent Data Representation in the IoT Healthcare Landscape **2018**,		12
28	ReViMS: Software tool for estimating the volumes of 3-D multicellular spheroids imaged using a light sheet fluorescence microscope. *BioTechniques*, **2017**, 63, 227-229	2.5	10
27	Dendritic Cell Vaccination in Metastatic Melanoma Turns "Non-T Cell Inflamed" Into "T-Cell Inflamed" Tumors. *Frontiers in Immunology*, **2019**, 10, 2353	8.4	9
26	Single-image based methods used for non-invasive volume estimation of cancer spheroids: a practical assessing approach based on entry-level equipment. *Computer Methods and Programs in Biomedicine*, **2016**, 135, 51-60	6.9	9
25	3D-Cell-Annotator: an open-source active surface tool for single-cell segmentation in 3D microscopy images. *Bioinformatics*, **2020**, 36, 2948-2949	7.2	8
24	An incremental method for mosaicing of optical microscope imagery **2011**,		8
23	Mosaicing of optical microscope imagery based on visual information. *Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference*, **2011**, 2011, 6162-5	0.9	8
22	Vignetting correction by exploiting an optical microscopy image sequence. *Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference*, **2011**, 2011, 6166-9	0.9	8
21	Reliability of Body Temperature Measurements Obtained with Contactless Infrared Point Thermometers Commonly Used during the COVID-19 Pandemic. *Sensors*, **2021**, 21,	3.8	8
20	Illumination field estimation through background detection in optical microscopy **2011**,		7
19	Silk Fibroin Nanoparticle Functionalization with Arg-Gly-Asp Cyclopentapeptide Promotes Active Targeting for Tumor Site-Specific Delivery. *Cancers*, **2021**, 13,	6.6	7
18	Semi-quantitative monitoring of confluence of adherent mesenchymal stromal cells on calcium-phosphate granules by using widefield microscopy images. *Journal of Materials Science: Materials in Medicine*, **2014**, 25, 2395-410	4.5	6
17	Vignetting and photo-bleaching correction in automated fluorescence microscopy from an array of overlapping images **2013**,		5
16	The potential role of MR based radiomic biomarkers in the characterization of focal testicular lesions. *Scientific Reports*, **2021**, 11, 3456	4.9	5
15	Characterization of Tumor Cells Using a Medical Wire for Capturing Circulating Tumor Cells: A 3D Approach Based on Immunofluorescence and DNA FISH. *Journal of Visualized Experiments*, **2017**,	1.6	4
14	MISpheroID: a knowledgebase and transparency tool for minimum information in spheroid identity. *Nature Methods*, **2021**, 18, 1294-1303	21.6	4

13	Advances in cancer modeling: fluidic systems for increasing representativeness of large 3D multicellular spheroids. *BioTechniques*, **2018**, 65, 312-314	2.5	4
12	Colour Vignetting Correction for Microscopy Image Mosaics Used for Quantitative Analyses. *BioMed Research International*, **2018**, 2018, 7082154	3	4
11	Effects of radiotherapy and short-term starvation combination on metastatic and non-tumor cell lines. *DNA Repair*, **2020**, 95, 102949	4.3	2
10	Texture analysis in 177Lu SPECT phantom images: Statistical assessment of uniformity requirements using texture features. *PLoS ONE*, **2019**, 14, e0218814	3.7	2
9	Nucleus segmentation: towards automated solutions.. *Trends in Cell Biology*, **2022**,	18.3	2
8	Accuracy of Mobile Applications versus Wearable Devices in Long-Term Step Measurements. *Sensors*, **2020**, 20,	3.8	2
7	Cell lines and clearing approaches: a single-cell level 3D light-sheet fluorescence microscopy dataset of multicellular spheroids. *Data in Brief*, **2021**, 36, 107090	1.2	2
6	A quantitative metric for the comparative evaluation of optical clearing protocols for 3D multicellular spheroids. *Computational and Structural Biotechnology Journal*, **2021**, 19, 1233-1243	6.8	2
5	Open-Source Tools for Volume Estimation of 3D Multicellular Aggregates. *Applied Sciences (Switzerland)*, **2019**, 9, 1616	2.6	1
4	Regression plane concept for analysing continuous cellular processes with machine learning. *Nature Communications*, **2021**, 12, 2532	17.4	1
3	Cauliflower Mosaic Virus TAV, a Plant Virus Protein That Functions like Ribonuclease H1 and is Cytotoxic to Glioma Cells. *BioMed Research International*, **2020**, 2020, 7465242	3	1
2	Heterogeneous self-tracked health and fitness data integration and sharing according to a linked open data approach. *Computing (Vienna/New York)*,1	2.2	1
1	An annotated T2-weighted magnetic resonance image collection of testicular germ and non-germ cell tumors. *Scientific Data*, **2021**, 8, 209	8.2	