

# Claire M Brown

## List of Publications by Year in descending order

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Version: 2024-02-01

63  
papers

4,439  
citations

159585

30  
h-index

114465

63  
g-index

71  
all docs

71  
docs citations

71  
times ranked

6330  
citing authors

| #  | ARTICLE  | IF   | CITATIONS |
|----|--|------|-----------|
| 1  | Measuring Fast Dynamics in Solutions and Cells with a Laser Scanning Microscope. <i>Biophysical Journal</i> , 2005, 89, 1317-1327.   | 0.5  | 428       |
| 2  | Live-cell microscopy “tips and tools. <i>Journal of Cell Science</i> , 2009, 122, 753-767.   | 2.0  | 265       |
| 3  | Paxillin phosphorylation at Ser273 localizes a GIT1“PIX“PAK complex and regulates adhesion and protrusion dynamics. <i>Journal of Cell Biology</i> , 2006, 173, 587-589.                                   | 5.2  | 258       |
| 4  | Dorsal Horn Parvalbumin Neurons Are Gate-Keepers of Touch-Evoked Pain after Nerve Injury. <i>Cell Reports</i> , 2015, 13, 1246-1257.   | 6.4  | 248       |
| 5  | Direct interorganellar transfer of iron from endosome to mitochondrion. <i>Blood</i> , 2007, 110, 125-132.   | 1.4  | 231       |
| 6  | Measuring and interpreting point spread functions to determine confocal microscope resolution and ensure quality control. <i>Nature Protocols</i> , 2011, 6, 1929-1941.                                    | 12.0 | 227       |
| 7  | Spatial mapping of integrin interactions and dynamics during cell migration by Image Correlation Microscopy. <i>Journal of Cell Science</i> , 2004, 117, 5521-5534.  | 2.0  | 211       |
| 8  | Tutorial: guidance for quantitative confocal microscopy. <i>Nature Protocols</i> , 2020, 15, 1585-1611.  | 12.0 | 201       |
| 9  | Fluctuation Correlation Spectroscopy with a Laser-Scanning Microscope: Exploiting the Hidden Time Structure. <i>Biophysical Journal</i> , 2005, 88, L33-L36.   | 0.5  | 195       |
| 10 | Probing the integrin-actin linkage using high-resolution protein velocity mapping. <i>Journal of Cell Science</i> , 2006, 119, 5204-5214.  | 2.0  | 165       |
| 11 | Raster image correlation spectroscopy (RICS) for measuring fast protein dynamics and concentrations with a commercial laser scanning confocal microscope. <i>Journal of Microscopy</i> , 2008, 229, 78-91. | 1.8  | 162       |
| 12 | Any Way You Slice It“ A Comparison of Confocal Microscopy Techniques. <i>Journal of Biomolecular Techniques</i> , 2015, 26, 54-65.   | 1.5  | 141       |
| 13 | Paxillin Dynamics Measured during Adhesion Assembly and Disassembly by Correlation Spectroscopy. <i>Biophysical Journal</i> , 2008, 94, 2819-2831.   | 0.5  | 135       |
| 14 | Localization of AMP kinase is regulated by stress, cell density, and signaling through the MEK“ERK1/2 pathway. <i>American Journal of Physiology - Cell Physiology</i> , 2007, 293, C1427-C1436.           | 4.6  | 126       |
| 15 | Fluorescence resonance energy transfer microscopy as demonstrated by measuring the activation of the serine/threonine kinase Akt. <i>Nature Protocols</i> , 2013, 8, 265-281.                              | 12.0 | 122       |
| 16 | Illuminating adhesion complexes in migrating cells: moving toward a bright future. <i>Current Opinion in Cell Biology</i> , 2003, 15, 614-620.   | 5.4  | 90        |
| 17 | Fluorescence microscopy - avoiding the pitfalls. <i>Journal of Cell Science</i> , 2007, 120, 1703-1705.  | 2.0  | 77        |
| 18 | Epi-Fluorescence Microscopy. <i>Methods in Molecular Biology</i> , 2012, 931, 29-59.   | 0.9  | 63        |

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|----|---|------|-----------|
| 19 | A Two-Photon FRAP Analysis of the Cytoskeleton Dynamics in the Microvilli of Intestinal Cells. <i>Biophysical Journal</i> , 2005, 88, 1467-1478.  | 0.5  | 53        |
| 20 | Excitation Light Dose Engineering to Reduce Photo-bleaching and Photo-toxicity. <i>Scientific Reports</i> , 2016, 6, 30892.   | 3.3  | 52        |
| 21 | Oxidative stress mislocalizes and retains transport factor importin- $\beta$ and nucleoporins Nup153 and Nup88 in nuclei where they generate high molecular mass complexes. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2008, 1783, 405-418. | 4.1  | 51        |
| 22 | Optimizing live-cell fluorescence imaging conditions to minimize phototoxicity. <i>Journal of Cell Science</i> , 2020, 133, .   | 2.0  | 51        |
| 23 | CaMK $\alpha$ promotes focal adhesion turnover and cell motility by inducing tyrosine dephosphorylation of FAK and paxillin. <i>Cytoskeleton</i> , 2008, 65, 662-674.   | 4.4  | 50        |
| 24 | An Adaptor Role for Cytoplasmic Sam68 in Modulating Src Activity during Cell Polarization. <i>Molecular and Cellular Biology</i> , 2009, 29, 1933-1943.   | 2.3  | 45        |
| 25 | A high-sensitivity phospho-switch triggered by Cdk1 governs chromosome morphogenesis during cell division. <i>Genes and Development</i> , 2015, 29, 426-439.  | 5.9  | 44        |
| 26 | QUAREP-LiMi: a community endeavor to advance quality assessment and reproducibility in light microscopy. <i>Nature Methods</i> , 2021, 18, 1423-1426.   | 19.0 | 44        |
| 27 | Phenylpyrrolocytosine as an Unobtrusive Base Modification for Monitoring Activity and Cellular Trafficking of siRNA. <i>ACS Chemical Biology</i> , 2011, 6, 912-919.  | 3.4  | 40        |
| 28 | Quantitative confocal microscopy. <i>Methods in Cell Biology</i> , 2014, 123, 113-134.  | 1.1  | 40        |
| 29 | A complex containing LPP and $\beta$ -Actinin mediates TGF $\beta$ <sup>2</sup> -induced migration and invasion of ErbB2-expressing breast cancer cells. <i>Journal of Cell Science</i> , 2013, 126, 1981-91.   | 2.0  | 37        |
| 30 | A global view of standards for open image data formats and repositories. <i>Nature Methods</i> , 2021, 18, 1440-1446.   | 19.0 | 36        |
| 31 | QUAREP-LiMi: A community-driven initiative to establish guidelines for quality assessment and reproducibility for instruments and images in light microscopy. <i>Journal of Microscopy</i> , 2021, 284, 56-73.  | 1.8  | 33        |
| 32 | Partitioning of Proteins into Plasma Membrane Microdomains. <i>Journal of Biological Chemistry</i> , 1997, 272, 29538-29545.  | 3.4  | 32        |
| 33 | An Internalization-Competent Influenza Hemagglutinin Mutant Causes the Redistribution of AP-2 to Existing Coated Pits and Is Colocalized with AP-2 in Clathrin Free Clusters. <i>Biochemistry</i> , 1999, 38, 15166-15173.  | 2.5  | 31        |
| 34 | The endosomal adaptor protein APPL1 impairs the turnover of leading edge adhesions to regulate cell migration. <i>Molecular Biology of the Cell</i> , 2012, 23, 1486-1499.  | 2.1  | 30        |
| 35 | Reproducibility in light microscopy: Maintenance, standards and SOPs. <i>International Journal of Biochemistry and Cell Biology</i> , 2017, 89, 120-124.  | 2.8  | 30        |
| 36 | Analysis of Signaling Events by Combining High-Throughput Screening Technology with Computer-Based Image Analysis. <i>Science Signaling</i> , 2008, 1, pl2.   | 3.6  | 28        |

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|----|--|------|-----------|
| 37 | Free clathrin triskelions are required for the stability of clathrin-associated adaptor protein (AP-2) coated pit nucleation sites. <i>Biochemistry and Cell Biology</i> , 1999, 77, 439-448.                    | 2.0  | 27        |
| 38 | International Test Results for Objective Lens Quality, Resolution, Spectral Accuracy and Spectral Separation for Confocal Laser Scanning Microscopes. <i>Microscopy and Microanalysis</i> , 2013, 19, 1653-1668. | 0.4  | 26        |
| 39 | Emerging roles for LPP in metastatic cancer progression. <i>Journal of Cell Communication and Signaling</i> , 2018, 12, 143-156.   | 3.4  | 25        |
| 40 | Towards community-driven metadata standards for light microscopy: tiered specifications extending the OME model. <i>Nature Methods</i> , 2021, 18, 1427-1440.  | 19.0 | 25        |
| 41 | Less is More: Longer Exposure Times with Low Light Intensity is Less Photo-Toxic. <i>Microscopy Today</i> , 2017, 25, 26-35.   | 0.3  | 23        |
| 42 | Paxillin phosphorylation at serine 273 and its effects on Rac, Rho and adhesion dynamics. <i>PLoS Computational Biology</i> , 2018, 14, e1006303.  | 3.2  | 23        |
| 43 | A Quantitative Measure of Field Illumination. <i>Journal of Biomolecular Techniques</i> , 2015, 26, 37-44.   | 1.5  | 20        |
| 44 | Calibration of Wide-Field Deconvolution Microscopy for Quantitative Fluorescence Imaging. <i>Journal of Biomolecular Techniques</i> , 2014, 25, 31-40.   | 1.5  | 18        |
| 45 | Paxillin S273 Phosphorylation Regulates Adhesion Dynamics and Cell Migration through a Common Protein Complex with PAK1 and I <sup>2</sup> PIX. <i>Scientific Reports</i> , 2019, 9, 11430.                      | 3.3  | 16        |
| 46 | Micro-Meta App: an interactive tool for collecting microscopy metadata based on community specifications. <i>Nature Methods</i> , 2021, 18, 1489-1495.   | 19.0 | 16        |
| 47 | Fluorescence Microscopy Light Sources. <i>Microscopy Today</i> , 2012, 20, 22-28.  | 0.3  | 15        |
| 48 | Fluorescence microscope light source stability. <i>Histochemistry and Cell Biology</i> , 2019, 151, 357-366.   | 1.7  | 14        |
| 49 | Rac activation is key to cell motility and directionality: An experimental and modelling investigation. <i>Computational and Structural Biotechnology Journal</i> , 2019, 17, 1436-1452.                         | 4.1  | 13        |
| 50 | CD13 orients the apical-basal polarity axis necessary for lumen formation. <i>Nature Communications</i> , 2021, 12, 4697.  | 12.8 | 11        |
| 51 | p66ShcA functions as a contextual promoter of breast cancer metastasis. <i>Breast Cancer Research</i> , 2020, 22, 7.   | 5.0  | 10        |
| 52 | The SHCA adapter protein cooperates with lipoma-preferred partner in the regulation of adhesion dynamics and invadopodia formation. <i>Journal of Biological Chemistry</i> , 2020, 295, 10535-10559.             | 3.4  | 10        |
| 53 | MethodsJ2: a software tool to capture metadata and generate comprehensive microscopy methods text. <i>Nature Methods</i> , 2021, 18, 1414-1416.  | 19.0 | 10        |
| 54 | Live-Cell Migration and Adhesion Turnover Assays. <i>Methods in Molecular Biology</i> , 2012, 931, 61-84.  | 0.9  | 7         |

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|----|---|-----|-----------|
| 55 | Parallelized cytoindentation using convex micropatterned surfaces. <i>BioTechniques</i> , 2016, 61, 73-82.  | 1.8 | 7         |
| 56 | Self-Association of Ca <sup>2+</sup> -Binding Peptides Induced by Lanthanide Ions: A Fluorescence Study. <i>Analytical Biochemistry</i> , 1993, 213, 296-302. | 2.4 | 5         |
| 57 | Mercury Free Microscopy: An Opportunity for Core Facility Directors. <i>Journal of Biomolecular Techniques</i> , 2014, 25, jbt.14-2502-001.                   | 1.5 | 5         |
| 58 | Fluorescence microscopy—avoiding the pitfalls. <i>Journal of Cell Science</i> , 2007, 120, 3488-3488.   | 2.0 | 4         |
| 59 | Careers in Core Facility Management. <i>Cold Spring Harbor Perspectives in Biology</i> , 2018, 10, a032805.   | 5.5 | 4         |
| 60 | Fluorescence Microscopy Light Source Review. <i>Current Protocols</i> , 2021, 1, e243.  | 2.9 | 4         |
| 61 | Microscope Hardware and Software Delays Cause Photo-Toxicity. <i>Microscopy Today</i> , 2020, 28, 30-36.  | 0.3 | 2         |
| 62 | Live-cell techniques—Advances and challenges. <i>Cell Adhesion and Migration</i> , 2014, 8, 429-429.  | 2.7 | 0         |
| 63 | Mapping Molecular Interactions and Transport in Cell Membranes by Image Correlation Spectroscopy. , 2005, , 284-301.  |     | 0         |