Dynamic molecular confinement in the plasma membra cytoskeleton meshwork

EMBO Journal 25, 3245-3256 DOI: 10.1038/sj.emboj.7601214

Citation Report

#	Article	IF	CITATIONS
1	Dynamics in the plasma membrane: how to combine fluidity and order. EMBO Journal, 2006, 25, 3446-3457.	3.5	259
2	Dynamic clustered distribution of hemagglutinin resolved at 40 nm in living cell membranes discriminates between raft theories. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 17370-17375.	3.3	353
3	Polysialylation Increases Lateral Diffusion of Neural Cell Adhesion Molecule in the Cell Membrane. Journal of Biological Chemistry, 2007, 282, 26266-26274.	1.6	23
4	Clustering of Membrane Raft Proteins by the Actin Cytoskeleton. Journal of Biological Chemistry, 2007, 282, 36682-36691.	1.6	115
5	Caspase-1-dependent processing of pro-interleukin-1β is cytosolic and precedes cell death. Journal of Cell Science, 2007, 120, 772-781.	1.2	210
6	Monomer–dimer dynamics and distribution of CPI-anchored uPAR are determined by cell surface protein assemblies. Journal of Cell Biology, 2007, 179, 1067-1082.	2.3	81
8	Optical techniques for imaging membrane lipid microdomains in living cells. Seminars in Cell and Developmental Biology, 2007, 18, 591-598.	2.3	42
9	Pharmacology under the microscope: the use of fluorescence correlation spectroscopy to determine the properties of ligand–receptor complexes. Trends in Pharmacological Sciences, 2007, 28, 637-645.	4.0	107
10	Cholesterol depletion induces dynamic confinement of the G-protein coupled serotonin1A receptor in the plasma membrane of living cells. Biochimica Et Biophysica Acta - Biomembranes, 2007, 1768, 655-668.	1.4	97
11	Single-molecule microscopy reveals heterogeneous dynamics of lipid raft components upon TCR engagement. International Immunology, 2007, 19, 675-684.	1.8	46
12	Remodeling of Ordered Membrane Domains by GPI-Anchored Intestinal Alkaline Phosphatase. Langmuir, 2007, 23, 9358-9364.	1.6	31
13	(Un)Confined Diffusion of CD59 in the Plasma Membrane Determined by High-Resolution Single Molecule Microscopy. Biophysical Journal, 2007, 92, 3719-3728.	0.2	132
14	Diffusion Analysis within Single Nanometric Apertures Reveals the Ultrafine Cell Membrane Organization. Biophysical Journal, 2007, 92, 913-919.	0.2	154
15	The European Lipidomics Initiative: Enabling Technologies. Methods in Enzymology, 2007, 432, 213-232.	0.4	25
16	Fluorescence Correlation Spectroscopy: Novel Variations of an Established Technique. Annual Review of Biophysics and Biomolecular Structure, 2007, 36, 151-169.	18.3	481
17	Plasma membrane segregation during T cell activation: probing the order of domains. Current Opinion in Immunology, 2007, 19, 470-475.	2.4	67
18	Palmitoylation is required for efficient Fas cell death signaling. EMBO Journal, 2007, 26, 209-220.	3.5	167
19	Lipid raft microdomains and neurotransmitter signalling. Nature Reviews Neuroscience, 2007, 8, 128-140	4.9	753

#	Article	IF	CITATIONS
20	Allosteric Changes in the TCR/CD3 Structure Upon Interaction With Extra- or Intra-cellular Ligands. Scandinavian Journal of Immunology, 2007, 66, 228-237.	1.3	7
21	Lipids and lipid modifications in the regulation of membrane traffic. Current Opinion in Cell Biology, 2007, 19, 426-435.	2.6	96
22	Critical role for lipid raft-associated Src kinases in activation of PI3K-Akt signalling. Cellular Signalling, 2007, 19, 1081-1092.	1.7	124
23	Modulation of Lateral Diffusion in the Plasma Membrane by Protein Density. Current Biology, 2007, 17, 462-467.	1.8	116
24	Single molecule techniques for the study of membrane proteins. Applied Microbiology and Biotechnology, 2007, 76, 257-266.	1.7	46
25	Functional imaging of microdomains in cell membranes. European Biophysics Journal, 2008, 37, 1279-1289.	1.2	33
26	Fluorescence fluctuations analysis in nanoapertures: physical concepts and biological applications. Histochemistry and Cell Biology, 2008, 130, 795-805.	0.8	17
27	Differential intracellular transport and binding of verotoxin 1 and verotoxin 2 to globotriaosylceramideâ€containing lipid assemblies. Journal of Cellular Physiology, 2008, 216, 750-763.	2.0	54
28	Paradigm Shift of the Molecular Dynamics Concept in the Cell Membrane: High-Speed Single-Molecule Tracking Revealed the Partitioning of the Cell Membrane. , 0, , 545-574.		7
29	Temperature-dependent imaging of living cells by AFM. Ultramicroscopy, 2008, 108, 1174-1180.	0.8	19
30	Tâ€cell antigen receptor triggering and lipid rafts: a matter of space and time scales. EMBO Reports, 2008, 9, 525-530.	2.0	49
31	Have we become overly reliant on lipid rafts? Talking Point on the involvement of lipid rafts in T-cell activation. EMBO Reports, 2008, 9, 531-535.	2.0	82
32	The extracellular glycosphingolipid-binding motif of Fas defines its internalization route, mode and outcome of signals upon activation by ligand. Cell Death and Differentiation, 2008, 15, 1824-1837.	5.0	57
33	Raft nanodomains contribute to Akt/PKB plasma membrane recruitment and activation. Nature Chemical Biology, 2008, 4, 538-547.	3.9	270
34	Dynamic multiple-target tracing to probe spatiotemporal cartography of cell membranes. Nature Methods, 2008, 5, 687-694.	9.0	576
35	Lipid rafts and T″ymphocyte function: Implications for autoimmunity. FEBS Letters, 2008, 582, 3711-3718.	1.3	75
36	Early adhesion induces interaction of FAK and Fyn in lipid domains and activates raft-dependent Akt signaling in SW480 colon cancer cells. Biochimica Et Biophysica Acta - Molecular Cell Research, 2008, 1783, 2323-2331.	1.9	49
37	Heterogeneity and lateral compartmentalization of plant plasma membranes. Current Opinion in Plant Biology, 2008, 11, 632-640.	3.5	44

#	Article	IF	CITATIONS
38	Microscopic Simulation of Membrane Molecule Diffusion on Corralled Membrane Surfaces. Biophysical Journal, 2008, 94, 1551-1564.	0.2	26
39	Both MHC Class II and its GPI-Anchored Form Undergo Hop Diffusion as Observed by Single-Molecule Tracking. Biophysical Journal, 2008, 95, 435-450.	0.2	109
40	Versatile Analysis of Single-Molecule Tracking Data by Comprehensive Testing against Monte Carlo Simulations. Biophysical Journal, 2008, 95, 5988-6001.	0.2	44
41	Probing the Dynamics of Protein–Protein Interactions at Neuronal Contacts by Optical Imaging. Chemical Reviews, 2008, 108, 1565-1587.	23.0	56
42	Fluorescence correlation spectroscopy for the study of membrane dynamics and protein/lipid interactions. Methods, 2008, 46, 116-122.	1.9	86
43	The F-techniques: advances in receptor protein studies. Trends in Endocrinology and Metabolism, 2008, 19, 181-190.	3.1	31
44	Differential solubilization of inner plasma membrane leaflet components by Lubrol WX and Triton X-100. Biochimica Et Biophysica Acta - Biomembranes, 2008, 1778, 105-112.	1.4	32
45	Membrane partitioning of various l´-opioid receptor forms before and after agonist activations: The effect of cholesterol. Biochimica Et Biophysica Acta - Biomembranes, 2008, 1778, 1483-1492.	1.4	16
46	New concepts for fluorescence correlation spectroscopy on membranes. Physical Chemistry Chemical Physics, 2008, 10, 3487.	1.3	117
	,,,,,,,		
47	Biology and Mechanics of Blood Flows. , 2008, , .		12
47 48		0.5	12 42
	Biology and Mechanics of Blood Flows. , 2008, , . Chapter 1 In Vivo Applications of Fluorescence Correlation Spectroscopy. Methods in Cell Biology,	0.5	
48	Biology and Mechanics of Blood Flows. , 2008, , . Chapter 1 In Vivo Applications of Fluorescence Correlation Spectroscopy. Methods in Cell Biology, 2008, 89, 3-35. Agonistâ€occupied A ₃ adenosine receptors exist within heterogeneous complexes in		42
48 49	 Biology and Mechanics of Blood Flows. , 2008, , . Chapter 1 In Vivo Applications of Fluorescence Correlation Spectroscopy. Methods in Cell Biology, 2008, 89, 3-35. Agonistâ€occupied A₃adenosine receptors exist within heterogeneous complexes in membrane microdomains of individual living cells. FASEB Journal, 2008, 22, 850-860. Single-molecule analysis of CD9 dynamics and partitioning reveals multiple modes of interaction in 	0.2	42 183
48 49 50	Biology and Mechanics of Blood Flows. , 2008, , . Chapter 1 In Vivo Applications of Fluorescence Correlation Spectroscopy. Methods in Cell Biology, 2008, 89, 3-35. Agonistâ€occupied A ₃ adenosine receptors exist within heterogeneous complexes in membrane microdomains of individual living cells. FASEB Journal, 2008, 22, 850-860. Single-molecule analysis of CD9 dynamics and partitioning reveals multiple modes of interaction in the tetraspanin web. Journal of Cell Biology, 2008, 182, 765-776. Regulated motion of glycoproteins revealed by direct visualization of a single cargo in the	0.2 2.3	42 183 134
48 49 50 51	 Biology and Mechanics of Blood Flows., 2008, , . Chapter 1 In Vivo Applications of Fluorescence Correlation Spectroscopy. Methods in Cell Biology, 2008, 89, 3-35. Agonistâ€occupied A₃adenosine receptors exist within heterogeneous complexes in membrane microdomains of individual living cells. FASEB Journal, 2008, 22, 850-860. Single-molecule analysis of CD9 dynamics and partitioning reveals multiple modes of interaction in the tetraspanin web. Journal of Cell Biology, 2008, 182, 765-776. Regulated motion of glycoproteins revealed by direct visualization of a single cargo in the endoplasmic reticulum. Journal of Cell Biology, 2008, 180, 129-143. Plasma membranes are poised for activation of raft phase coalescence at physiological temperature. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 	0.2 2.3 2.3	42 183 134 26
48 49 50 51 52	 Biology and Mechanics of Blood Flows. , 2008, , . Chapter 1 In Vivo Applications of Fluorescence Correlation Spectroscopy. Methods in Cell Biology, 2008, 89, 3-35. Agonistâ€occupied A₃adenosine receptors exist within heterogeneous complexes in membrane microdomains of individual living cells. FASEB Journal, 2008, 22, 850-860. Single-molecule analysis of CD9 dynamics and partitioning reveals multiple modes of interaction in the tetraspanin web. Journal of Cell Biology, 2008, 182, 765-776. Regulated motion of glycoproteins revealed by direct visualization of a single cargo in the endoplasmic reticulum. Journal of Cell Biology, 2008, 180, 129-143. Plasma membranes are poised for activation of raft phase coalescence at physiological temperature. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 10005-10010. Selective Roles for Cholesterol and Actin in Compartmentalization of Different Proteins in the Colgi 	0.2 2.3 2.3 3.3	42 183 134 26 338

#	Article	IF	CITATIONS
56	Are lipid rafts involved in ABC transporter-mediated drug resistance of tumor cells?. Trends in Glycoscience and Glycotechnology, 2008, 20, 373-397.	0.0	3
57	A versatile dual spot laser scanning confocal microscopy system for advanced fluorescence correlation spectroscopy analysis in living cell. Review of Scientific Instruments, 2009, 80, 083702.	0.6	16
58	Inferring Maps of Forces inside Cell Membrane Microdomains. Physical Review Letters, 2009, 102, 048103.	2.9	58
59	Control of the Postsynaptic Membrane Viscosity. Journal of Neuroscience, 2009, 29, 2926-2937.	1.7	135
60	High heterogeneity of plasma membrane microfluidity in multidrug-resistant cancer cells. Journal of Biomedical Optics, 2009, 14, 034030.	1.4	21
61	Rafting trips into the cell. Communicative and Integrative Biology, 2009, 2, 420-421.	0.6	4
62	Detergent-resistant globotriaosyl ceramide may define verotoxin/glomeruli-restricted hemolytic uremic syndrome pathology. Kidney International, 2009, 75, 1209-1216.	2.6	67
63	Insights into the residence in lipid rafts of adenylyl cyclase AC8 and its regulation by capacitative calcium entry. American Journal of Physiology - Cell Physiology, 2009, 296, C607-C619.	2.1	41
64	Tetraspanin-enriched microdomains: a functional unit in cell plasma membranes. Trends in Cell Biology, 2009, 19, 434-446.	3.6	517
65	Domains in biological membranes. Experimental Cell Research, 2009, 315, 2871-2878.	1.2	92
66	Probing cell-surface dynamics and mechanics at different scales. Histochemistry and Cell Biology, 2009, 132, 247-252.	0.8	2
67	The differential protein and lipid compositions of noncaveolar lipid microdomains and caveolae. Cell Research, 2009, 19, 497-506.	5.7	57
68	The fine structure of the influenza virus envelope and the concept of transmembrane asymmetry of lateral domains in biomembranes. Molecular Biology, 2009, 43, 533-542.	0.4	2
69	Dynamic Partitioning of a Glycosylâ€Phosphatidylinositolâ€Anchored Protein in Glycosphingolipidâ€Rich Microdomains Imaged by Singleâ€Quantum Dot Tracking. Traffic, 2009, 10, 691-712.	1.3	153
70	Quantitative Microscopy: Protein Dynamics and Membrane Organisation. Traffic, 2009, 10, 962-971.	1.3	132
71	On the use of Z-scan fluorescence correlation experiments on giant unilamellar vesicles. Chemical Physics Letters, 2009, 469, 110-114.	1.2	12
72	Lipid rafts as functional heterogeneity in cell membranes. Biochemical Society Transactions, 2009, 37, 955-960.	1.6	191
73	Measuring Diffusion of Lipid-like Probes in Artificial and Natural Membranes by Raster Image Correlation Spectroscopy (RICS): Use of a Commercial Laser-Scanning Microscope with Analog Detection Langmuir 2009 25, 5209-5218	1.6	58

	CITATION R	EPORT	
#	Article	IF	CITATIONS
74	Physics puzzles on membrane domains posed by cell biology. Soft Matter, 2009, 5, 2841.	1.2	45
75	Single-Molecule Analysis of Biomembranes. , 2009, , 19-42.		3
76	Fluorescence correlation spectroscopy in membrane structure elucidation. Biochimica Et Biophysica Acta - Biomembranes, 2009, 1788, 225-233.	1.4	137
77	Tracking microdomain dynamics in cell membranes. Biochimica Et Biophysica Acta - Biomembranes, 2009, 1788, 245-253.	1.4	103
78	Synaptic receptor trafficking: The lateral point of view. Neuroscience, 2009, 158, 19-24.	1.1	39
79	Isolation at physiological temperature of detergent-resistant membranes with properties expected of lipid rafts: the influence of buffer composition. Biochemical Journal, 2009, 417, 525-533.	1.7	46
80	Accurate Determination of Membrane Dynamics with Line-Scan FCS. Biophysical Journal, 2009, 96, 1999-2008.	0.2	166
81	Handbook of Single-Molecule Biophysics. , 2009, , .		70
82	Chapter 14 Mechanisms of Polarized Sorting of GPI-anchored Proteins in Epithelial Cells. The Enzymes, 2009, , 289-319.	0.7	1
83	Order of lipid phases in model and plasma membranes. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 16645-16650.	3.3	395
84	Lipid order and molecular assemblies in the plasma membrane of eukaryotic cells. Biochemical Society Transactions, 2009, 37, 1056-1060.	1.6	11
85	Biophotonics applications of nanometric apertures. International Journal of Materials and Product Technology, 2009, 34, 488.	0.1	5
86	In Silico Models for Metabolic Systems Engineering. , 2009, , .		1
87	Chapter 9 Endothelial Adhesive Platforms Organize Receptors to Promote Leukocyte Extravasation. Current Topics in Membranes, 2009, , 277-296.	0.5	0
88	Understanding lipid rafts and other related membrane domains. F1000 Biology Reports, 2010, 2, 31.	4.0	23
89	Lipid Rafts As a Membrane-Organizing Principle. Science, 2010, 327, 46-50.	6.0	3,720
90	Switchable Nile Red-Based Probe for Cholesterol and Lipid Order at the Outer Leaflet of Biomembranes. Journal of the American Chemical Society, 2010, 132, 4907-4916.	6.6	347
91	Cholesterol modulation of nicotinic acetylcholine receptor surface mobility. European Biophysics Journal, 2010, 39, 213-227.	1.2	39

#	Article	IF	CITATIONS
92	Rafts and the battleships of defense: The multifaceted microdomains for positive and negative signals in immune cells. Immunology Letters, 2010, 130, 2-12.	1.1	13
93	The Membrane Skeleton Controls Diffusion Dynamics and Signaling through the B Cell Receptor. Immunity, 2010, 32, 187-199.	6.6	314
94	Organisation and dynamics of antigen receptors: implications for lymphocyte signalling. Current Opinion in Immunology, 2010, 22, 299-307.	2.4	31
95	Myelin, DIGs, and membrane rafts in the central nervous system. Prostaglandins and Other Lipid Mediators, 2010, 91, 118-129.	1.0	24
96	Formation and regulation of lipid microdomains in cell membranes: Theory, modeling, and speculation. FEBS Letters, 2010, 584, 1678-1684.	1.3	96
97	Globotriaosyl ceramide receptor function – Where membrane structure and pathology intersect. FEBS Letters, 2010, 584, 1879-1886.	1.3	118
98	Membrane rafting: From apical sorting to phase segregation. FEBS Letters, 2010, 584, 1685-1693.	1.3	67
99	Hierarchical organization of the plasma membrane: Investigations by singleâ€molecule tracking vs. fluorescence correlation spectroscopy. FEBS Letters, 2010, 584, 1814-1823.	1.3	157
100	Identification of a lysine-rich region of Fas as a raft nanodomain targeting signal necessary for Fas-mediated cell death. Experimental Cell Research, 2010, 316, 1513-1522.	1.2	21
101	Serum starvation improves transient transfection efficiency in differentiating embryonic stem cells. Biotechnology Progress, 2010, 26, 1714-1723.	1.3	14
102	New aspects of the regulation of glycosphingolipid receptor function. Chemistry and Physics of Lipids, 2010, 163, 27-35.	1.5	56
103	Multicomponent membranes on solid substrates: Interfaces for protein binding. Current Opinion in Colloid and Interface Science, 2010, 15, 479-488.	3.4	15
104	Visualizing a role for the actin cytoskeleton in the regulation of B ell activation. Immunological Reviews, 2010, 237, 191-204.	2.8	62
105	Dynamic organization of lymphocyte plasma membrane: lessons from advanced imaging methods. Immunology, 2010, 131, 1-8.	2.0	20
106	Spatial organization of transmembrane receptor signalling. EMBO Journal, 2010, 29, 2677-2688.	3.5	115
107	HDL and immunomodulation: an emerging role of HDL against atherosclerosis. Immunology and Cell Biology, 2010, 88, 285-290.	1.0	50
108	Revitalizing membrane rafts: new tools and insights. Nature Reviews Molecular Cell Biology, 2010, 11, 688-699.	16.1	1,110
109	T Cell Signal Regulation by the Actin Cytoskeleton. Journal of Biological Chemistry, 2010, 285, 14737-14746.	1.6	30

#	Article	IF	CITATIONS
110	Interleukin-7 Compartmentalizes Its Receptor Signaling Complex to Initiate CD4 T Lymphocyte Response. Journal of Biological Chemistry, 2010, 285, 14898-14908.	1.6	35
111	In Vivo Composition of NMDA Receptor Signaling Complexes Differs between Membrane Subdomains and Is Modulated by PSD-95 And PSD-93. Journal of Neuroscience, 2010, 30, 8162-8170.	1.7	70
112	Influence of nonequilibrium lipid transport, membrane compartmentalization, and membrane proteins on the lateral organization of the plasma membrane. Physical Review E, 2010, 81, 011908.	0.8	48
113	Gangliosides Are Important for the Preservation of the Structure and Organization of RBL-2H3 Mast Cells. Journal of Histochemistry and Cytochemistry, 2010, 58, 83-93.	1.3	8
114	Fluorescence Correlation Spectroscopy for the Study of Membrane Dynamics and Organization in Giant Unilamellar Vesicles. Methods in Molecular Biology, 2010, 606, 493-508.	0.4	40
115	Imaging of Mobile Long-lived Nanoplatforms in the Live Cell Plasma Membrane. Journal of Biological Chemistry, 2010, 285, 41765-41771.	1.6	102
116	A Major Fraction of Glycosphingolipids in Model and Cellular Cholesterol-containing Membranes Is Undetectable by Their Binding Proteins. Journal of Biological Chemistry, 2010, 285, 36049-36059.	1.6	72
117	Phosphorylation of paxillin at threonine 538 by PKCĨ′ regulates LFA1-mediated adhesion of lymphoid cells. Journal of Cell Science, 2010, 123, 1567-1577.	1.2	27
118	Direct Observation and Quantitative Analysis of Lck Exchange between Plasma Membrane and Cytosol in Living T Cells. Journal of Biological Chemistry, 2010, 285, 6063-6070.	1.6	34
119	Palmitoylation of human FasL modulates its cell death-inducing function. Cell Death and Disease, 2010, 1, e88-e88.	2.7	42
120	Two-color single molecule tracking combined with photobleaching for the detection of rare molecular interactions in fluid biomembranes. Soft Matter, 2010, 6, 568-581.	1.2	41
121	High plasma membrane lipid order imaged at the immunological synapse periphery in live T cells. Molecular Membrane Biology, 2010, 27, 178-189.	2.0	73
122	Characterization of Horizontal Lipid Bilayers as a Model System to Study Lipid Phase Separation. Biophysical Journal, 2010, 98, 2886-2894.	0.2	57
123	Cholesterol Depletion Mimics the Effect of Cytoskeletal Destabilization onÂMembrane Dynamics of the Serotonin1A Receptor: A zFCS Study. Biophysical Journal, 2010, 99, 1397-1407.	0.2	84
124	High-density lipoprotein affects antigen presentation by interfering with lipid raft: a promising anti-atherogenic strategy. Clinical and Experimental Immunology, 2010, 160, 137-142.	1.1	21
125	IL-2 Induces Conformational Changes in Its Preassembled Receptor Core, Which Then Migrates in Lipid Raft and Binds to the Cytoskeleton Meshwork. Journal of Molecular Biology, 2010, 403, 671-692.	2.0	36
126	Limited cholesterol depletion causes aggregation of plasma membrane lipid rafts inducing T cell activation. Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids, 2010, 1801, 625-634.	1.2	56
127	A nanometer scale optical view on the compartmentalization of cell membranes. Biochimica Et Biophysica Acta - Biomembranes, 2010, 1798, 777-787.	1.4	48

#	Article	IF	CITATIONS
128	Surface analysis of membrane dynamics. Biochimica Et Biophysica Acta - Biomembranes, 2010, 1798, 766-776.	1.4	40
129	Liquid ordered phase in cell membranes evidenced by a hydration-sensitive probe: Effects of cholesterol depletion and apoptosis. Biochimica Et Biophysica Acta - Biomembranes, 2010, 1798, 1436-1443.	1.4	75
130	Three unrelated sphingomyelin analogs spontaneously cluster into plasma membrane micrometric domains. Biochimica Et Biophysica Acta - Biomembranes, 2010, 1798, 909-927.	1.4	53
131	Fluorescence correlation spectroscopy reveals topological segregation of the two tumor necrosis factor membrane receptors. Biochimica Et Biophysica Acta - Biomembranes, 2010, 1798, 1081-1089.	1.4	11
133	Development of anomalous diffusion among crowding proteins. Soft Matter, 2010, 6, 2648.	1.2	86
134	Comparing Lipid Photo-Cross-linking Efficacy of Penetratin Analogues Bearing Three Different Photoprobes: Dithienyl Ketone, Benzophenone, and Trifluoromethylaryldiazirine. Bioconjugate Chemistry, 2010, 21, 352-359.	1.8	13
135	The effect of membrane domains on the G protein–phospholipase Cβ signaling pathway. Critical Reviews in Biochemistry and Molecular Biology, 2010, 45, 97-105.	2.3	18
136	FCS Diffusion Laws in Two-Phase Lipid Membranes: Determination ofÂDomain Mean Size by Experiments and Monte Carlo Simulations. Biophysical Journal, 2011, 100, 1242-1251.	0.2	40
137	An Array of Planar Apertures for Near-Field Fluorescence Correlation Spectroscopy. Biophysical Journal, 2011, 100, L34-L36.	0.2	18
138	Spot Variation Fluorescence Correlation Spectroscopy Allows for Superresolution Chronoscopy of Confinement Times in Membranes. Biophysical Journal, 2011, 100, 2839-2845.	0.2	56
139	STED Nanoscopy Reveals Molecular Details of Cholesterol- and Cytoskeleton-Modulated Lipid Interactions in Living Cells. Biophysical Journal, 2011, 101, 1651-1660.	0.2	232
140	Detecting Nanodomains in Living Cell Membrane by Fluorescence Correlation Spectroscopy. Annual Review of Physical Chemistry, 2011, 62, 417-436.	4.8	131
141	Microdomain-forming proteins and the role of the reggies/flotillins during axon regeneration in zebrafish. Biochimica Et Biophysica Acta - Molecular Basis of Disease, 2011, 1812, 415-422.	1.8	27
142	Shaping the synaptic signal: molecular mobility inside and outside the cleft. Trends in Neurosciences, 2011, 34, 359-369.	4.2	71
143	Polarized growth in fungi: Symmetry breaking and hyphal formation. Seminars in Cell and Developmental Biology, 2011, 22, 806-815.	2.3	23
144	Lipid Raft Redox Signaling: Molecular Mechanisms in Health and Disease. Antioxidants and Redox Signaling, 2011, 15, 1043-1083.	2.5	102
146	Direct Observation of Single Amyloid-β(1-40) Oligomers on Live Cells: Binding and Growth at Physiological Concentrations. PLoS ONE, 2011, 6, e23970.	1.1	41
147	Plasma membrane microorganization of LR73 multidrug-resistant cells revealed by FCS. , 2011, , .		1

#	Article	IF	CITATIONS
148	Hierarchical mesoscale domain organization of the plasma membrane. Trends in Biochemical Sciences, 2011, 36, 604-615.	3.7	299
149	How to quantify protein diffusion in the bacterial membrane. Biopolymers, 2011, 95, 312-321.	1.2	35
150	Central role of paxillin phosphorylation in regulation of LFA-1 integrins activity and lymphocyte migration. Cell Adhesion and Migration, 2011, 5, 457-462.	1.1	24
151	Mobility in geometrically confined membranes. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 12605-12610.	3.3	95
152	Lipid Rafts in Mast Cell Biology. Journal of Lipids, 2011, 2011, 1-11.	1.9	23
153	The dynamic architecture of photoreceptor ribbon synapses: Cytoskeletal, extracellular matrix, and intramembrane proteins. Visual Neuroscience, 2011, 28, 453-471.	0.5	67
154	Fluorescence Techniques to Study Lipid Dynamics. Cold Spring Harbor Perspectives in Biology, 2011, 3, a009803-a009803.	2.3	87
155	Confinement of Activating Receptors at the Plasma Membrane Controls Natural Killer Cell Tolerance. Science Signaling, 2011, 4, ra21.	1.6	122
156	Plasticity of plasma membrane compartmentalization during plant immune responses. Frontiers in Plant Science, 2012, 3, 181.	1.7	11
157	Lipid raft involvement in yeast cell growth and death. Frontiers in Oncology, 2012, 2, 140.	1.3	52
158	How membrane structures control T cell signaling. Frontiers in Immunology, 2012, 3, 291.	2.2	48
159	Fluorescence Correlation Methods for Imaging Cellular Behavior of Sphingolipid-Interacting Probes. Methods in Cell Biology, 2012, 108, 395-427.	0.5	8
160	Membrane heterogeneity: Manifestation of a curvature-induced microemulsion. Physical Review E, 2012, 85, 031902.	0.8	82
161	Laurdan generalized polarization fluctuations measures membrane packing micro-heterogeneity in vivo. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 7314-7319.	3.3	164
162	Recent progress in cell surface nanoscopy: Light and force in the near-field. Nano Today, 2012, 7, 390-403.	6.2	20
163	Dynamic Organizing Principles of the Plasma Membrane that Regulate Signal Transduction: Commemorating the Fortieth Anniversary of Singer and Nicolson's Fluid-Mosaic Model. Annual Review of Cell and Developmental Biology, 2012, 28, 215-250.	4.0	394
164	Polarized sorting and trafficking in epithelial cells. Cell Research, 2012, 22, 793-805.	5.7	121
165	Sub-resolution lipid domains exist in the plasma membrane and regulate protein diffusion and distribution. Nature Communications, 2012, 3, 1256.	5.8	223

#	Article	IF	CITATIONS
166	Analysis of Protein and Lipid Dynamics Using Confocal Fluorescence Recovery After Photobleaching (FRAP). Current Protocols in Cytometry, 2012, 62, Unit2.19.	3.7	63
167	Quantifying Lipid Diffusion by Fluorescence Correlation Spectroscopy: A Critical Treatise. Langmuir, 2012, 28, 13395-13404.	1.6	43
168	Membrane mechanisms for signal transduction: The coupling of the meso-scale raft domains to membrane-skeleton-induced compartments and dynamic protein complexes. Seminars in Cell and Developmental Biology, 2012, 23, 126-144.	2.3	127
169	Integration of non-vesicular and vesicular transport processes at the Golgi complex by the PKD–CERT network. Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids, 2012, 1821, 1096-1103.	1.2	12
170	Single Particle Tracking reveals two distinct environments for CD4 receptors at the surface of living T lymphocytes. Biochemical and Biophysical Research Communications, 2012, 417, 409-413.	1.0	12
171	Transient GPI-anchored protein homodimers are units for raft organization and function. Nature Chemical Biology, 2012, 8, 774-783.	3.9	234
172	5.17 Single Molecule Measurements in Membranes. , 2012, , 337-365.		0
173	Supramolecular Organization in Prokaryotic Respiratory Systems. Advances in Microbial Physiology, 2012, 61, 217-266.	1.0	23
174	Cholesterol and regulated exocytosis: A requirement for unitary exocytotic events. Cell Calcium, 2012, 52, 250-258.	1.1	37
175	2.11 Fluorescence Correlation Spectroscopy. , 2012, , 210-245.		10
175 176	 2.11 Fluorescence Correlation Spectroscopy. , 2012, , 210-245. Lipid Microdomainsâ€"Structure, Function, and Controversies. Behavior Research Methods, 2012, 16, 165-197. 	2.3	10
	Lipid Microdomains—Structure, Function, and Controversies. Behavior Research Methods, 2012, 16,	2.3 0.8	
176	Lipid Microdomainsâ€"Structure, Function, and Controversies. Behavior Research Methods, 2012, 16, 165-197. Fluorescence Correlation Spectroscopy to Study Membrane Organization and Interactions. Springer		1
176 177	 Lipid Microdomainsâ€"Structure, Function, and Controversies. Behavior Research Methods, 2012, 16, 165-197. Fluorescence Correlation Spectroscopy to Study Membrane Organization and Interactions. Springer Series on Fluorescence, 2012, , 241-269. Microfluidity mapping using fluorescence correlation spectroscopy: A new way to investigate plasma membrane microorganization of living cells. Biochimica Et Biophysica Acta - Biomembranes, 2012, 1818, 	0.8	1
176 177 178	Lipid Microdomains—Structure, Function, and Controversies. Behavior Research Methods, 2012, 16, 165-197. Fluorescence Correlation Spectroscopy to Study Membrane Organization and Interactions. Springer Series on Fluorescence, 2012, , 241-269. Microfluidity mapping using fluorescence correlation spectroscopy: A new way to investigate plasma membrane microorganization of living cells. Biochimica Et Biophysica Acta - Biomembranes, 2012, 1818, 2477-2485. Deciphering Cell Membrane Organization Based on Lateral Diffusion Measurements by Fluorescence	0.8	1 0 9
176 177 178 179	 Lipid Microdomainsâ€"Structure, Function, and Controversies. Behavior Research Methods, 2012, 16, 165-197. Fluorescence Correlation Spectroscopy to Study Membrane Organization and Interactions. Springer Series on Fluorescence, 2012, , 241-269. Microfluidity mapping using fluorescence correlation spectroscopy: A new way to investigate plasma membrane microorganization of living cells. Biochimica Et Biophysica Acta - Biomembranes, 2012, 1818, 2477-2485. Deciphering Cell Membrane Organization Based on Lateral Diffusion Measurements by Fluorescence Correlation Spectroscopy at Different Length Scales. Springer Series on Fluorescence, 2012, , 271-289. 	0.8 1.4 0.8	1 0 9 0
176 177 178 179 180	 Lipid Microdomainsâ€"Structure, Function, and Controversies. Behavior Research Methods, 2012, 16, 165-197. Fluorescence Correlation Spectroscopy to Study Membrane Organization and Interactions. Springer Series on Fluorescence, 2012, , 241-269. Microfluidity mapping using fluorescence correlation spectroscopy: A new way to investigate plasma membrane microorganization of living cells. Biochimica Et Biophysica Acta - Biomembranes, 2012, 1818, 2477-2485. Deciphering Cell Membrane Organization Based on Lateral Diffusion Measurements by Fluorescence Correlation Spectroscopy at Different Length Scales. Springer Series on Fluorescence, 2012, , 271-289. STED-FCS Nanoscopy of Membrane Dynamics. Springer Series on Fluorescence, 2012, , 291-309. Application of Quantitative Fluorescence Microscopic Approaches to Monitor Organization and 	0.8 1.4 0.8 0.8	1 0 9 0 10

#	Article	IF	CITATIONS
184	Cell wall constrains lateral diffusion of plant plasma-membrane proteins. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 12805-12810.	3.3	224
185	The lipid raft hypothesis revisited – New insights on raft composition and function from superâ€resolution fluorescence microscopy. BioEssays, 2012, 34, 739-747.	1.2	150
186	Phosphorylationâ€dependent Trafficking of Plasma Membrane Proteins in Animal and Plant Cells. Journal of Integrative Plant Biology, 2013, 55, 789-808.	4.1	42
187	Biochemical and Imaging Methods to Study Receptor Membrane Organization and Association with Lipid Rafts. Methods in Cell Biology, 2013, 117, 105-122.	0.5	11
188	Mapping the Local Organization of Cell Membranes Using Excitation-Polarization-Resolved Confocal Fluorescence Microscopy. Biophysical Journal, 2013, 105, 127-136.	0.2	72
189	Changes of Detergent-Resistant Plasma Membrane Proteins in Oat and Rye during Cold Acclimation: Association with Differential Freezing Tolerance. Journal of Proteome Research, 2013, 12, 4998-5011.	1.8	43
190	Fast spatiotemporal correlation spectroscopy to determine protein lateral diffusion laws in live cell membranes. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 12307-12312.	3.3	160
191	A critical survey of methods to detect plasma membrane rafts. Philosophical Transactions of the Royal Society B: Biological Sciences, 2013, 368, 20120033.	1.8	83
192	FCS in STED Microscopy. Methods in Enzymology, 2013, 519, 1-38.	0.4	50
193	Cortactin mediates elevated shear stress-induced mucin hypersecretion via actin polymerization in human airway epithelial cells. International Journal of Biochemistry and Cell Biology, 2013, 45, 2756-2763.	1.2	6
194	Lateral Membrane Diffusion Modulated by a Minimal Actin Cortex. Biophysical Journal, 2013, 104, 1465-1475.	0.2	75
195	Anomalous transport in the crowded world of biological cells. Reports on Progress in Physics, 2013, 76, 046602.	8.1	976
196	Probing the Plasma Membrane Organization in Living Cells by Spot Variation Fluorescence Correlation Spectroscopy. Methods in Enzymology, 2013, 519, 277-302.	0.4	28
197	Sphingolipids and Membrane Domains: Recent Advances. Handbook of Experimental Pharmacology, 2013, , 33-55.	0.9	29
198	Unveiling LOX-1 receptor interplay with nanotopography: mechanotransduction and atherosclerosis onset. Scientific Reports, 2013, 3, 1141.	1.6	20
199	Visualization of Plasma Membrane Compartmentalization by High-Speed Quantum Dot Tracking. Nano Letters, 2013, 13, 2332-2337.	4.5	65
200	Interplay of cytoskeletal activity and lipid phase stability in dynamic protein recruitment and clustering. Scientific Reports, 2013, 3, 2608.	1.6	33
201	Two photon fluorescence imaging of lipid membrane domains and potentials using advanced fluorescent probes. , 2013, , .		1

#	Article	IF	CITATIONS
202	Distinguishing free and anomalous diffusion by rectangular fluorescence recovery after photobleaching: a Monte Carlo study. Journal of Biomedical Optics, 2013, 18, 076012.	1.4	3
203	Membrane Microdomains and Cytoskeleton Organization Shape and Regulate the IL-7 Receptor Signalosome in Human CD4 T-cells. Journal of Biological Chemistry, 2013, 288, 8691-8701.	1.6	30
204	Imaging lipid domains in cell membranes: the advent of super-resolution fluorescence microscopy. Frontiers in Plant Science, 2013, 4, 503.	1.7	61
205	Flow Shear Induced Changes in Membrane Fluidity: Dependence on Cell- Substrate Adhesion Strength. Current Analytical Chemistry, 2013, 9, 9-15.	0.6	1
206	Probing Membrane Protein Interactions with Their Lipid Raft Environment Using Single-Molecule Tracking and Bayesian Inference Analysis. PLoS ONE, 2013, 8, e53073.	1.1	24
207	Enzymatic Oxidation of Cholesterol: Properties and Functional Effects of Cholestenone in Cell Membranes. PLoS ONE, 2014, 9, e103743.	1.1	50
208	Organizing MHC Class II Presentation. Frontiers in Immunology, 2014, 5, 158.	2.2	28
209	Cell-surface translational dynamics of nicotinic acetylcholine receptors. Frontiers in Synaptic Neuroscience, 2014, 6, 25.	1.3	16
210	Membrane microdomains: from seeing to understanding. Frontiers in Plant Science, 2014, 5, 18.	1.7	31
211	Ultrafast Diffusion of a Fluorescent Cholesterol Analog in Compartmentalized Plasma Membranes. Traffic, 2014, 15, 583-612.	1.3	77
212	Probing short-range protein Brownian motion in the cytoplasm of living cells. Nature Communications, 2014, 5, 5891.	5.8	175
213	High Spatiotemporal Bioimaging Techniques to Study the Plasma Membrane Nanoscale Organization. , 2014, , 49-63.		5
214	From Fast Fluorescence Imaging to Molecular Diffusion Law on Live Cell Membranes in a Commercial Microscope. Journal of Visualized Experiments, 2014, , e51994.	0.2	11
215	Recent applications of fluorescence correlation spectroscopy in live systems. FEBS Letters, 2014, 588, 3571-3584.	1.3	111
216	Highâ€Resolution Tracking of Singleâ€Molecule Diffusion in Membranes by Confocalized and Spatially Differentiated Fluorescence Photon Stream Recording. ChemPhysChem, 2014, 15, 771-783.	1.0	16
217	Imaging Fluorescence Fluctuation Spectroscopy: New Tools for Quantitative Bioimaging. Annual Review of Physical Chemistry, 2014, 65, 225-248.	4.8	53
218	Temperature dependence of diffusion in model and live cell membranes characterized by imaging fluorescence correlation spectroscopy. Biochimica Et Biophysica Acta - Biomembranes, 2014, 1838, 802-813.	1.4	83
219	Oxygen Depletion Speeds and Simplifies Diffusion in HeLa Cells. Biophysical Journal, 2014, 107, 1873-1884.	0.2	16

#	Article	IF	CITATIONS
220	Near-Field Fluorescence Cross-Correlation Spectroscopy on Planar Membranes. ACS Nano, 2014, 8, 7392-7404.	7.3	23
221	Tempo-Spatially Resolved Scattering Correlation Spectroscopy under Dark-Field Illumination and Its Application to Investigate Dynamic Behaviors of Gold Nanoparticles in Live Cells. Journal of the American Chemical Society, 2014, 136, 2775-2785.	6.6	47
222	GPR37 Protein Trafficking to the Plasma Membrane Regulated by Prosaposin and GM1 Gangliosides Promotes Cell Viability. Journal of Biological Chemistry, 2014, 289, 4660-4673.	1.6	39
224	Highâ€Fidelity Protein Targeting into Membrane Lipid Microdomains in Living Cells. Angewandte Chemie - International Edition, 2014, 53, 1311-1315.	7.2	22
225	Interferon Î ³ -induced GTPase promotes invasion of Listeria monocytogenes into trophoblast giant cells. Scientific Reports, 2015, 5, 8195.	1.6	5
226	Pantethine Alters Lipid Composition and Cholesterol Content of Membrane Rafts, With Downâ€Regulation of CXCL12â€Induced T Cell Migration. Journal of Cellular Physiology, 2015, 230, 2415-2425.	2.0	14
227	Lipid rafts involvement in the pathogenesis of Parkinson s disease. Frontiers in Bioscience - Landmark, 2015, 20, 263-279.	3.0	25
228	Current approaches to studying membrane organization. F1000Research, 2015, 4, 1380.	0.8	21
229	Functions of cholera toxin B-subunit as a raft cross-linker. Essays in Biochemistry, 2015, 57, 135-145.	2.1	75
230	Live Cell Plasma Membranes Do Not Exhibit a Miscibility Phase Transition over a Wide Range of Temperatures. Journal of Physical Chemistry B, 2015, 119, 4450-4459.	1.2	53
231	Fluorescence Lifetime Imaging of Membrane Lipid Order with a Ratiometric Fluorescent Probe. Biophysical Journal, 2015, 108, 2521-2531.	0.2	50
232	Mechanisms Underlying Anomalous Diffusion in the Plasma Membrane. Current Topics in Membranes, 2015, 75, 167-207.	0.5	81
233	Dances with Membranes: Breakthroughs from Super-resolution Imaging. Current Topics in Membranes, 2015, 75, 59-123.	0.5	16
234	Plasma Membrane Organization of Epidermal Growth Factor Receptor in Resting and Ligand-Bound States. Biophysical Journal, 2015, 109, 1925-1936.	0.2	72
235	The nanoscale organization of the B lymphocyte membrane. Biochimica Et Biophysica Acta - Molecular Cell Research, 2015, 1853, 830-840.	1.9	34
236	Targeting Cell Membrane Lipid Rafts by Stoichiometric Functionalization of Gold Nanoparticles with a Sphingolipidâ€Binding Domain Peptide. Advanced Healthcare Materials, 2015, 4, 911-917.	3.9	11
237	Quantitative 3D molecular cutaneous absorption in human skin using label free nonlinear microscopy. Journal of Controlled Release, 2015, 200, 78-86.	4.8	31
238	Lipid rafts and raft-mediated supramolecular entities in the regulation of CD95 death receptor apoptotic signaling. Apoptosis: an International Journal on Programmed Cell Death, 2015, 20, 584-606.	2.2	48

#	Article	IF	CITATIONS
239	STED-FLCS: An Advanced Tool to Reveal Spatiotemporal Heterogeneity of Molecular Membrane Dynamics. Nano Letters, 2015, 15, 5912-5918.	4.5	71
240	Cholesterol Modulates CFTR Confinement in the Plasma Membrane of Primary Epithelial Cells. Biophysical Journal, 2015, 109, 85-94.	0.2	58
241	Trafficking and Membrane Organization of GPI-Anchored Proteins in Health and Diseases. Current Topics in Membranes, 2015, 75, 269-303.	0.5	35
242	CPI-anchored proteins do not reside in ordered domains in the live cell plasma membrane. Nature Communications, 2015, 6, 6969.	5.8	115
243	New Insights into the Organization of Plasma Membrane and Its Role in SignalÂTransduction. International Review of Cell and Molecular Biology, 2015, 317, 67-96.	1.6	14
244	Lipid Regulation of Receptor Function. , 2015, , 163-181.		10
245	Interfacing Living Cells and Spherically Supported Bilayer Lipid Membranes. Langmuir, 2015, 31, 4704-4712.	1.6	9
246	Modes of Diffusion of Cholera Toxin Bound to GM1 on Live Cell Membrane by Image Mean Square Displacement Analysis. Biophysical Journal, 2015, 108, 1448-1458.	0.2	23
247	Dissecting protein reaction dynamics in living cells by fluorescence recovery after photobleaching. Nature Protocols, 2015, 10, 660-680.	5.5	58
248	Diffusion of GPI-anchored proteins is influenced by the activity of dynamic cortical actin. Molecular Biology of the Cell, 2015, 26, 4033-4045.	0.9	76
249	NF2/Merlin mediates contact-dependent inhibition of EGFR mobility and internalization via cortical actomyosin. Journal of Cell Biology, 2015, 211, 391-405.	2.3	54
250	Imaging fluorescence (cross-) correlation spectroscopy in live cells and organisms. Nature Protocols, 2015, 10, 1948-1974.	5.5	164
251	A straightforward approach for gated STED-FCS to investigate lipid membrane dynamics. Methods, 2015, 88, 67-75.	1.9	50
252	Lipid rafts as major platforms for signaling regulation in cancer. Advances in Biological Regulation, 2015, 57, 130-146.	1.4	251
253	Lateral Diffusion of Gαs in the Plasma Membrane Is Decreased after Chronic but not Acute Antidepressant Treatment: Role of Lipid Raft and Non-Raft Membrane Microdomains. Neuropsychopharmacology, 2015, 40, 766-773.	2.8	35
255	Structure, Function, and Spatial Organization of the B Cell Receptor. , 2016, , 40-54.		5
256	FRAP to Characterize Molecular Diffusion and Interaction in Various Membrane Environments. PLoS ONE, 2016, 11, e0158457.	1.1	78
257	Quantification of Membrane Protein Dynamics and Interactions in Plant Cells by Fluorescence Correlation Spectroscopy. Molecular Plant, 2016, 9, 1229-1239.	3.9	26

#	Article	IF	CITATIONS
258	Characterizing anomalous diffusion in crowded polymer solutions and gels over five decades in time with variable-lengthscale fluorescence correlation spectroscopy. Soft Matter, 2016, 12, 4190-4203.	1.2	53
259	Monte Carlo simulations of protein micropatterning in biomembranes: effects of immobile sticky obstacles. Journal Physics D: Applied Physics, 2016, 49, 364002.	1.3	4
260	Receptor dimer stabilization by hierarchical plasma membrane microcompartments regulates cytokine signaling. Science Advances, 2016, 2, e1600452.	4.7	31
261	Closing the gap: The approach of optical and computational microscopy to uncover biomembrane organization. Biochimica Et Biophysica Acta - Biomembranes, 2016, 1858, 2558-2568.	1.4	11
262	On the biophysical regulation of mineral growth: Standing out from the crowd. Journal of Structural Biology, 2016, 196, 232-243.	1.3	14
263	Raft-based interactions of gangliosides with a GPI-anchored receptor. Nature Chemical Biology, 2016, 12, 402-410.	3.9	165
264	With or without rafts? Alternative views on cell membranes. BioEssays, 2016, 38, 129-139.	1.2	86
265	Spatiotemporal Fluorescence Correlation Spectroscopy of Inert Tracers: A Journey Within Cells, One Molecule at a Time. Springer Series on Fluorescence, 2016, , 287-309.	0.8	4
266	Microdomains Associated to Lipid Rafts. Advances in Experimental Medicine and Biology, 2016, 898, 353-378.	0.8	7
267	The use of fluorescence correlation spectroscopy to characterize the molecular mobility of fluorescently labelled G protein-coupled receptors. Biochemical Society Transactions, 2016, 44, 624-629.	1.6	14
268	Compartmentalization of the Cell Membrane. Journal of Molecular Biology, 2016, 428, 4739-4748.	2.0	66
269	The Secreted Signaling Protein Wnt3 Is Associated with Membrane Domains InÂVivo: A SPIM-FCS Study. Biophysical Journal, 2016, 111, 418-429.	0.2	52
270	Glycosylation-Dependent IFN-Î ³ R Partitioning in Lipid and Actin Nanodomains Is Critical for JAK Activation. Cell, 2016, 166, 920-934.	13.5	110
271	Perspectives on Fluorescence. Springer Series on Fluorescence, 2016, , .	0.8	2
272	Spatiotemporal mapping of diffusion dynamics and organization in plasma membranes. Methods and Applications in Fluorescence, 2016, 4, 034003.	1.1	26
273	Changes in membrane sphingolipid composition modulate dynamics and adhesion of integrin nanoclusters. Scientific Reports, 2016, 6, 20693.	1.6	61
274	Super-Resolution in a Standard Microscope. Series in Cellular and Clinical Imaging, 2016, , 19-43.	0.2	2
275	Lipid Rafts/Membrane Rafts. , 2016, , 208-217.		0

~		_	
C_{17}	ГЛТ	REPORT	1
	IAL	REPORT	

#	Article	IF	CITATIONS
276	Nanoscale dynamics of phospholipids reveals an optimal assembly mechanism of pore-forming proteins in bilayer membranes. Physical Chemistry Chemical Physics, 2016, 18, 29935-29945.	1.3	20
277	ns-time resolution for multispecies STED-FLIM and artifact free STED-FCS. , 2016, , .		8
278	Dynamics of the actin cytoskeleton mediates receptor cross talk: An emerging concept in tuning receptor signaling. Journal of Cell Biology, 2016, 212, 267-280.	2.3	127
279	Actomyosin dynamics drive local membrane component organization in an in vitro active composite layer. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, E1645-54.	3.3	131
280	Confined diffusion of transmembrane proteins and lipids induced by the same actin meshwork lining the plasma membrane. Molecular Biology of the Cell, 2016, 27, 1101-1119.	0.9	165
281	MreB-Dependent Organization of the E.Âcoli Cytoplasmic Membrane Controls Membrane Protein Diffusion. Biophysical Journal, 2016, 110, 1139-1149.	0.2	72
282	Oxidized Phospholipids Inhibit the Formation of Cholesterol-Dependent Plasma Membrane Nanoplatforms. Biophysical Journal, 2016, 110, 205-213.	0.2	12
283	GPI-anchored protein organization and dynamics at the cell surface. Journal of Lipid Research, 2016, 57, 159-175.	2.0	96
284	Formation of supported lipid bilayers containing phase-segregated domains and their interaction with gold nanoparticles. Environmental Science: Nano, 2016, 3, 45-55.	2.2	68
285	Membrane microdomains and the cytoskeleton constrain At <scp>HIR</scp> 1 dynamics and facilitate the formation of an At <scp>HIR</scp> 1â€associated immune complex. Plant Journal, 2017, 90, 3-16.	2.8	66
286	Molecular movements in biomembranes. Journal Physics D: Applied Physics, 2017, 50, 060201.	1.3	1
287	Convergence of lateral dynamic measurements in the plasma membrane of live cells from single particle tracking and STED-FCS. Journal Physics D: Applied Physics, 2017, 50, 063001.	1.3	52
288	Influence of Membrane Receptor Lateral Diffusion on the Short-Term Depression of Acetylcholine-Induced Current in Helix Neurons. Cellular and Molecular Neurobiology, 2017, 37, 1443-1455.	1.7	0
289	Super-resolution optical microscopy for studying membrane structure and dynamics. Journal of Physics Condensed Matter, 2017, 29, 273001.	0.7	75
290	FCS experiments to quantify Ca2+diffusion and its interaction with buffers. Journal of Chemical Physics, 2017, 146, 104203.	1.2	3
291	Plasma Membrane is Compartmentalized by a Self-Similar Cortical Actin Meshwork. Physical Review X, 2017, 7, .	2.8	74
292	Dynamics of intracellular processes in liveâ€cell systems unveiled by fluorescence correlation microscopy. IUBMB Life, 2017, 69, 8-15.	1.5	6
293	Disruption of Ankyrin B and Caveolin-1 Interaction Sites Alters Na+,K+-ATPase Membrane Diffusion. Biophysical Journal, 2017, 113, 2249-2260.	0.2	1

#	Article	IF	CITATIONS
295	Planar Optical Nanoantennas Resolve Cholesterol-Dependent Nanoscale Heterogeneities in the Plasma Membrane of Living Cells. Nano Letters, 2017, 17, 6295-6302.	4.5	43
296	Complex dynamics at the nanoscale in simple biomembranes. Scientific Reports, 2017, 7, 11173.	1.6	23
297	Dynamics of surface neurotransmitter receptors and transporters in glial cells: Single molecule insights. Cell Calcium, 2017, 67, 46-52.	1.1	11
298	Development of new ganglioside probes and unraveling of raft domain structure by single-molecule imaging. Biochimica Et Biophysica Acta - General Subjects, 2017, 1861, 2494-2506.	1.1	32
299	Ligand-induced type II interleukin-4 receptor dimers are sustained by rapid re-association within plasma membrane microcompartments. Nature Communications, 2017, 8, 15976.	5.8	34
300	Spatiotemporal Dynamics of Nicotinic Acetylcholine Receptors and Lipid Platforms. Springer Series in Biophysics, 2017, , 195-217.	0.4	2
301	Mild heat induces a distinct "eustress―response in Chinese Hamster Ovary cells but does not induce heat shock protein synthesis. Scientific Reports, 2017, 7, 15643.	1.6	9
302	Fluorescence correlation spectroscopy experiments to quantify free diffusion coefficients in reaction-diffusion systems: The case of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msup><mml:mrow><mml:mi>Ca</mml:mi><td>mrow> < m</td><td>ml:mrow> <m< td=""></m<></td></mml:mrow></mml:msup></mml:math>	mrow> < m	ml:mrow> <m< td=""></m<>
303	Physical mechanisms of micro- and nanodomain formation in multicomponent lipid membranes. Biochimica Et Biophysica Acta - Biomembranes, 2017, 1859, 509-528.	1.4	94
304	Membrane Organization and Dynamics. Springer Series in Biophysics, 2017, , .	0.4	5
305	Syntheses of Fluorescent Gangliosides for the Studies of Raft Domains. Methods in Enzymology, 2017, 597, 239-263.	0.4	17
306	The Actin Cytoskeleton Is Involved in Glial Cell Line-Derived Neurotrophic Factor (GDNF)-Induced Ret Translocation into Lipid Rafts in Dopaminergic Neuronal Cells. International Journal of Molecular Sciences, 2017, 18, 1922.	1.8	3
308	Measuring the diffusion coefficient of ganglioside on cell membrane by fluorescence correlation spectroscopy. Journal of Physics: Conference Series, 2017, 844, 012047.	0.3	1
309	Single Molecule Measurements in Membranes â [~] †. , 2017, , .		0
310	A user's guide for characterizing plasma membrane subdomains in living cells by spot variation fluorescence correlation spectroscopy. Methods in Cell Biology, 2017, 139, 1-22.	0.5	11
311	Out of the Randomness: Correlating Noise in Biological Systems. Biophysical Journal, 2018, 114, 2298-2307.	0.2	1
312	Membrane cholesterol depletion as a trigger of Nav1.9 channelâ€mediated inflammatory pain. EMBO Journal, 2018, 37, .	3.5	43
313	SPT and Imaging FCS Provide Complementary Information on the Dynamics of Plasma Membrane Molecules. Biophysical Journal, 2018, 114, 2432-2443.	0.2	29

#	Article	IF	CITATIONS
314	A straightforward STED-background corrected fitting model for unbiased STED-FCS analyses. Methods, 2018, 140-141, 212-222.	1.9	8
315	Phosphoinositides regulate the TCR/CD3 complex membrane dynamics and activation. Scientific Reports, 2018, 8, 4966.	1.6	27
316	Circle scanning STED fluorescence correlation spectroscopy to quantify membrane dynamics and compartmentalization. Methods, 2018, 140-141, 188-197.	1.9	11
317	Analysis and Applications of Single-Molecule Fluorescence in Live Cell Membranes. , 2018, , 147-173.		0
318	Regulation of Kv7.2/Kv7.3 channels by cholesterol: Relevance of an optimum plasma membrane cholesterol content. Biochimica Et Biophysica Acta - Biomembranes, 2018, 1860, 1242-1251.	1.4	13
319	Unraveling complex nanoscale lipid dynamics in simple model biomembranes: Insights from fluorescence correlation spectroscopy in super-resolution stimulated emission depletion mode. Methods, 2018, 140-141, 198-211.	1.9	24
320	Optical Antenna-Based Fluorescence Correlation Spectroscopy to Probe the Nanoscale Dynamics of Biological Membranes. Journal of Physical Chemistry Letters, 2018, 9, 110-119.	2.1	41
321	The imaging FCS diffusion law in the presence of multiple diffusive modes. Methods, 2018, 140-141, 140-150.	1.9	33
322	Membrane Biophysics. , 2018, , .		0
323	Spatiotemporal Fluctuation Analysis of Molecular Diffusion Laws in Live-Cell Membranes. Methods in Molecular Biology, 2018, 1702, 277-290.	0.4	1
324	Comprehensive correlation analysis for super-resolution dynamic fingerprinting of cellular compartments using the Zeiss Airyscan detector. Nature Communications, 2018, 9, 5120.	5.8	39
325	Pathways for creation and annihilation of nanoscale biomembrane domains reveal alpha and beta-toxin nanopore formation processes. Physical Chemistry Chemical Physics, 2018, 20, 29116-29130.	1.3	16
326	Lateral Diffusion in Heterogeneous Cell Membranes. , 2018, , 169-189.		1
327	Membrane Domains Under Cellular Recycling. , 2018, , 213-227.		0
328	Lipid Rafts: A Personal Account. , 2018, , 109-123.		1
329	Glycobiophysics. Advances in Experimental Medicine and Biology, 2018, , .	0.8	2
330	Unraveling of Lipid Raft Organization in Cell Plasma Membranes by Single-Molecule Imaging of Ganglioside Probes. Advances in Experimental Medicine and Biology, 2018, 1104, 41-58.	0.8	8
331	Numerical Simulation and FRAP Experiments Show That the Plasma Membrane Binding Protein PH-EFA6 Does Not Exhibit Anomalous Subdiffusion in Cells. Biomolecules, 2018, 8, 90.	1.8	3

#	Article	IF	CITATIONS
332	Dynamic pattern generation in cell membranes: Current insights into membrane organization. Biochimica Et Biophysica Acta - Biomembranes, 2018, 1860, 2018-2031.	1.4	39
333	Effect of the volatile anesthetic agent isoflurane on lateral diffusion of cell membrane proteins. FEBS Open Bio, 2018, 8, 1127-1134.	1.0	6
334	Role of Gln222 in Photoswitching of <i>Aequorea</i> Fluorescent Proteins: A Twisting and H-Bonding Affair?. ACS Chemical Biology, 2018, 13, 2082-2093.	1.6	14
335	Interactions between lipids and proteins are critical for organization of plasma membrane-ordered domains in tobacco BY-2 cells. Journal of Experimental Botany, 2018, 69, 3545-3557.	2.4	18
336	Nanoscale Spatiotemporal Diffusion Modes Measured by Simultaneous Confocal and Stimulated Emission Depletion Nanoscopy Imaging. Nano Letters, 2018, 18, 4233-4240.	4.5	28
337	How Can Artificial Lipid Models Mimic the Complexity of Molecule–Membrane Interactions?. Advances in Biomembranes and Lipid Self-Assembly, 2018, , 107-146.	0.3	12
338	Flow Arrest in the Plasma Membrane. Biophysical Journal, 2019, 117, 810-816.	0.2	19
339	Preferential binding and re-organization of nanoscale domains on model lipid membranes by pore-forming toxins: insight from STED-FCS. Journal Physics D: Applied Physics, 2019, 52, 504001.	1.3	5
340	Nanoscale analysis reveals no domain formation of glycosylphosphatidylinositol-anchored protein SAG1 in the plasma membrane of living Toxoplasma gondii. Histochemistry and Cell Biology, 2019, 152, 365-375.	0.8	4
341	Relevance of charges and polymer mechanical stiffness in the mechanism and kinetics of formation of liponanoparticles probed by the supported bilayer model approach. Physical Chemistry Chemical Physics, 2019, 21, 4306-4319.	1.3	3
342	Exploring membrane organization at varying spatiotemporal resolutions utilizing fluorescence-based approaches: implications in membrane biology. Physical Chemistry Chemical Physics, 2019, 21, 11554-11563.	1.3	13
343	Measuring nanoscale diffusion dynamics in cellular membranes with super-resolution STED–FCS. Nature Protocols, 2019, 14, 1054-1083.	5.5	76
344	Slow polymer diffusion on brush-patterned surfaces in aqueous solution. Nanoscale, 2019, 11, 6052-6061.	2.8	3
345	Anomalous Diffusion in Inverted Variable-Lengthscale Fluorescence Correlation Spectroscopy. Biophysical Journal, 2019, 116, 791-806.	0.2	14
347	The subcellular dynamics of GPCR signaling. Molecular and Cellular Endocrinology, 2019, 483, 24-30.	1.6	47
348	Effect of temperature on raft-dependent endocytic cluster formation during activation of Jurkat T cells by concanavalin A. Journal of Bioscience and Bioengineering, 2019, 127, 479-485.	1.1	6
349	Biophysics of Serotonin and the Serotonin1A Receptor. , 2019, , 3-22.		1
350	Disruption of palmitate-mediated localization; a shared pathway of force and anesthetic activation of TREK-1 channels. Biochimica Et Biophysica Acta - Biomembranes, 2020, 1862, 183091.	1.4	26

#	Article	IF	CITATIONS
351	Imaging FCS delineates subtle heterogeneity in plasma membranes of resting mast cells. Molecular Biology of the Cell, 2020, 31, 709-723.	0.9	16
352	Do ABC transporters regulate plasma membrane organization?. Cellular and Molecular Biology Letters, 2020, 25, 37.	2.7	22
353	FluoSim: simulator of single molecule dynamics for fluorescence live-cell and super-resolution imaging of membrane proteins. Scientific Reports, 2020, 10, 19954.	1.6	25
354	Recent Experiments Support a Microemulsion Origin of Plasma Membrane Domains: Dependence of Domain Size on Physical Parameters. Membranes, 2020, 10, 167.	1.4	7
355	Revealing Plasma Membrane Nano-Domains with Diffusion Analysis Methods. Membranes, 2020, 10, 314.	1.4	13
356	To Hop or not to Hop: Exceptions in the FCS Diffusion Law. Biophysical Journal, 2020, 118, 2434-2447.	0.2	12
357	Fluorescence strategies for mapping cell membrane dynamics and structures. APL Bioengineering, 2020, 4, 020901.	3.3	24
358	Accumulation of Neurofascin at Nodes of Ranvier Is Regulated by a Paranodal Switch. Journal of Neuroscience, 2020, 40, 5709-5723.	1.7	10
359	Anomalous Subdiffusion in Living Cells: Bridging the Gap Between Experiments and Realistic Models Through Collaborative Challenges. Frontiers in Physics, 2020, 8, .	1.0	31
360	Organization of gangliosides into membrane nanodomains. FEBS Letters, 2020, 594, 3668-3697.	1.3	23
361	Back to the Future: Genetically Encoded Fluorescent Proteins as Inert Tracers of the Intracellular Environment. International Journal of Molecular Sciences, 2020, 21, 4164.	1.8	13
362	Molecular Mechanisms of Raft Organization in Biological Membranes. Russian Journal of Bioorganic Chemistry, 2020, 46, 269-279.	0.3	1
363	WASP family proteins regulate the mobility of the B cell receptor during signaling activation. Nature Communications, 2020, 11, 439.	5.8	27
364	Model Plasma Membrane Exhibits a Microemulsion in Both Leaves Providing a Foundation for "Rafts― Biophysical Journal, 2020, 118, 1019-1031.	0.2	19
365	Toward a new picture of the living plasma membrane. Protein Science, 2020, 29, 1355-1365.	3.1	48
366	G protein-coupled receptor-G protein interactions: a single-molecule perspective. Physiological Reviews, 2021, 101, 857-906.	13.1	46
367	Influence of nanobody binding on fluorescence emission, mobility, and organization of GFP-tagged proteins. IScience, 2021, 24, 101891.	1.9	7
368	Impact of Glycans on Lipid Membrane Dynamics at the Nanoscale Unveiled by Planar Plasmonic Nanogap Antennas and Atomic Force Spectroscopy. Journal of Physical Chemistry Letters, 2021, 12, 1175-1181.	2.1	5

ARTICLE IF CITATIONS # Innate immune receptor clustering and its role in immune regulation. Journal of Cell Science, 2021, 369 1.2 15 134, . TRIM67 regulates exocytic mode and neuronal morphogenesis via SNAP47. Cell Reports, 2021, 34, 108743. 370 A Practical Guide to Fluorescence Temporal and Spatial Correlation Spectroscopy. The Biophysicist, 371 0.1 1 2021, 2, 40-69. Single-particle tracking photoactivated localization microscopy of membrane proteins in living plant tissues. Nature Protocols, 2021, 16, 1600-1628. Wnt3 Is Lipidated at Conserved Cysteine and Serine Residues in Zebrafish Neural Tissue. Frontiers in 374 1.8 8 Cell and Developmental Biology, 2021, 9, 671218. Molecular Diffusion of ABCA1 at the Cell Surface of Living Cells Assessed by svFCS. Membranes, 2021, 1.4 11, 498. Pore Forming Protein Induced Biomembrane Reorganization and Dynamics: A Focused Review. Frontiers 376 1.6 9 in Molecular Biosciences, 2021, 8, 737561. Surfactin cyclic lipopeptides change the plasma membrane composition and lateral organization in 377 1.4 mammalian cells. Biochimica Et Biophysica Acta - Biomembranes, 2021, 1863, 183730. Actin Cytoskeleton and Action Potentials: Forgotten Connections. Plant Cell Monographs, 2019, 379 0.4 27 63-83. Temperature Matters: Cellular Targets of Hyperthermia in Cancer Biology and Immunology. Heat Shock 0.2 Proteins, 2009, , 267-306. Principles and Applications of Fluorescence Correlation Spectroscopy (FCS). NATO Science for Peace 381 10 0.2 and Security Series B: Physics and Biophysics, 2011, , 63-85. Preparation and Physical Properties of Asymmetric Model Membrane Vesicles. Springer Series in 0.4 Biophysics, 2017, , 1-27. Super-resolution optical microscopy of lipid plasma membrane dynamics. Essays in Biochemistry, 2015, 383 2.1 41 57, 69-80. Membrane Organization and Dynamics of the Serotonin 1A Receptor Monitored Using Fluorescence Microscopic Approaches. Frontiers in Neuroscience, 2007, , 41-60. Functional Consequences of the Lateral Organization of Biological Membranes., 2011, , 133-152. 387 1 Fluorescence Correlation Spectroscopy Measurements of the Membrane Protein TetA in Escherichia 1.1 coli Suggest Rapid Diffusion at Short Length Scales. PLoS ONE, 2012, 7, e48600. Depth-of-Focus Correction in Single-Molecule Data Allows Analysis of 3D Diffusion of the 389 1.1 3 Glucocorticoid Receptor in the Nucleus. PLoS ONE, 2015, 10, e0141080. Diffusion and Binding of Mismatch Repair Protein, MSH2, in Breast Cancer Cells at Different Stages of 390 1.1 Neoplastic Transformation. PLoS ONE, 2017, 12, e0170414.

		CITATION RE	PORT	
#	Article		IF	CITATIONS
391	Structure-function analysis of human stomatin: A mutation study. PLoS ONE, 2017, 12	2, e0178646.	1.1	34
392	Fluorescent probes for detecting cholesterol-rich ordered membrane microdomains: er relationships between structural analogies in the membrane and functional homologie AIMS Biophysics, 2017, 4, 121-151.		0.3	7
394	Optical Tools. , 2009, , 253-373.			0
395	Implementation of a Flow Cytometry Strategy to Isolate and Assess Heterogeneous M Domains. , 0, , .	embrane Raft		0
396	Molecular Plasma Membrane Dynamics Dissected by STED Nanoscopy and Fluorescen Spectroscopy (STED-FCS). , 2014, , 452-473.	ce Correlation		1
405	Lateral mobility of L-type calcium channels in synaptic terminals of retinal bipolar cells. Vision, 2013, 19, 16-24.	Molecular	1.1	10
407	Contribution of Membrane Lipids to Postsynaptic Protein Organization. Frontiers in Sy Neuroscience, 2021, 13, 790773.	naptic	1.3	7
408	Lipid–Protein Interactions in Plasma Membrane Organization and Function. Annual I Biophysics, 2022, 51, 135-156.	Review of	4.5	30
409	MPP1 Determines the Mobility of Flotillins and Controls the Confinement of Raft-Asso Molecules. Cells, 2022, 11, 311.	ciated	1.8	5
410	Diffusion and interaction dynamics of the cytosolic peroxisomal import receptor PEX5 Reports, 2022, 2, 100055.	. Biophysical	0.7	4
411	Measuring uPAR Dynamics in Live Cells. , 2008, , 475-493.			0
414	Electromechanical Photophysics of GFP Packed Inside Viral Protein Cages Probed by Forceâ€Fluorescence Hybrid Singleâ€Molecule Microscopy. Small, 2022, 18, .		5.2	7
415	TRPV6 Regulation by Cis-22a and Cholesterol. Biomolecules, 2022, 12, 804.		1.8	2
416	Entropic stochastic resonance and super-harmonic stochastic resonance in a dichoton fluctuating potential. Physica Scripta, 0, , .	nous	1.2	3
417	Heterogeneous nanoscopic lipid diffusion in the live cell membrane and its dependenc cholesterol. Biophysical Journal, 2022, 121, 3146-3161.	y on	0.2	4
418	NEU1 and NEU3 enzymes alter CD22 organization on B cells. Biophysical Reports, 202	2, 2, 100064.	0.7	2
420	Collective dynamic behaviors of a general adjacent coupled chain in both unconfined a spaces. Physica A: Statistical Mechanics and Its Applications, 2022, 605, 128006.	ind confined	1.2	1
421	Influence of the extracellular domain size on the dynamic behavior of membrane prote Journal, 2022, 121, 3826-3836.	ins. Biophysical	0.2	14

#	Article	IF	CITATIONS
422	The FDA-approved drug Auranofin has a dual inhibitory effect on SARS-CoV-2 entry and NF-κB signaling. IScience, 2022, 25, 105066.	1.9	8
423	Diffusion Measurements at the Nanoscale with STED-FCS. Springer Series on Fluorescence, 2022, , .	0.8	0
424	Statin-induced increase in actin polymerization modulates GPCR dynamics andÂcompartmentalization. Biophysical Journal, 2023, 122, 1938-1955.	0.2	4
426	Fluorescence Correlation Spectroscopy in Space and Time. Springer Series on Fluorescence, 2022, , 233-273.	0.8	0
427	Single-Molecule Imaging of Ganglioside Probes in Living Cell Plasma Membranes. Methods in Molecular Biology, 2023, , 215-227.	0.4	0
428	Quantifying membrane binding and diffusion with Fluorescence Correlation Spectroscopy diffusion laws. Biophysical Journal, 2023, , .	0.2	3
430	Hyperlens for capturing sub-diffraction nanoscale single molecule dynamics. Optics Express, 2023, 31, 12162.	1.7	2
431	APP and Bace1: Differential effect of cholesterol enrichment on processing and plasma membrane mobility. IScience, 2023, 26, 106611.	1.9	1
434	Recently developed glycosphingolipid probes and their dynamic behavior in cell plasma membranes as revealed by single-molecule imaging. Glycoconjugate Journal, 2023, 40, 305-314.	1.4	1