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## Lipid rafts as a membrane-organizing principle

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1861	Cholesterol increases kinetic, energetic, and mechanical stability of the human $\beta_2$ -adrenergic receptor. <b>2012</b> , 109, E3463-72	121
1860	The N-terminal region of acyl-CoA synthetase 3 is essential for both the localization on lipid droplets and the function in fatty acid uptake. <b>2012</b> , 53, 888-900	82
1859	Store-operated Ca <sup>2+</sup> entry (SOCE) pathways. <b>2012</b> ,	1
1858	High density lipoprotein biogenesis, cholesterol efflux, and immune cell function. <b>2012</b> , 32, 2561-5	74
1857	Uncommon membrane distribution of Shiga toxin glycosphingolipid receptors in toxin-sensitive human glomerular microvascular endothelial cells. <b>2012</b> , 393, 133-47	18
1856	The mammalian START domain protein family in lipid transport in health and disease. <b>2012</b> , 212, 257-75	109
1855	Liver X receptor activation reduces angiogenesis by impairing lipid raft localization and signaling of vascular endothelial growth factor receptor-2. <b>2012</b> , 32, 2280-8	51
1854	How worms survive desiccation: Trehalose pro water. <b>2012</b> , 1, 61-5	13
1853	Lck, Membrane Microdomains, and TCR Triggering Machinery: Defining the New Rules of Engagement. <b>2012</b> , 3, 155	33
1852	Molecular Organization of the Lipid Matrix in Stratum Corneum and Its Relevance for the Protective Functions of Human Skin. <b>2012</b> , 125-147	1
1851	Nonsteroidal anti-inflammatory drugs alter the spatiotemporal organization of Ras proteins on the plasma membrane. <b>2012</b> , 287, 16586-95	46
1850	Super-resolution imaging reveals the internal architecture of nano-sized syntaxin clusters. <b>2012</b> , 287, 27158-67	102
1849	A detour for yeast oxysterol binding proteins. <b>2012</b> , 287, 11481-8	57
1848	Synthetic motility and cell shape defects associated with deletions of flotillin/reggie paralogs in <i>Bacillus subtilis</i> and interplay of these proteins with NfeD proteins. <b>2012</b> , 194, 4652-61	36
1847	Fatty acids - induced lipotoxicity and inflammation. <b>2012</b> , 13, 1358-70	71
1846	Microvesicles/exosomes as potential novel biomarkers of metabolic diseases. <b>2012</b> , 5, 247-82	116
1845	A novel pathway for human endothelial cell activation by antiphospholipid/anti- $\beta_2$ glycoprotein I antibodies. <b>2012</b> , 119, 884-93	102

1844	Signalling Complexes: Protein-Protein Interactions and Lipid Rafts. <b>2012</b> , 339-365	
1843	9.4 Coarse Grained Methods: Applications to Membranes. <b>2012</b> , 53-75	
1842	Platyhelminth Venom Allergen-Like (VAL) proteins: revealing structural diversity, class-specific features and biological associations across the phylum. <b>2012</b> , 139, 1231-45	36
1841	Curvature, lipid packing, and electrostatics of membrane organelles: defining cellular territories in determining specificity. <b>2012</b> , 23, 886-95	332
1840	Remote control of lipophilic nucleic acids domain partitioning by DNA hybridization and enzymatic cleavage. <b>2012</b> , 134, 20490-7	28
1839	Accumulation of staphylococcal Panton-Valentine leukocidin in the detergent-resistant membrane microdomains on the target cells is essential for its cytotoxicity. <b>2012</b> , 66, 343-52	3
1838	Recent progress in cell surface nanoscopy: Light and force in the near-field. <b>2012</b> , 7, 390-403	19
1837	Composition and structure of mixed phospholipid supported bilayers formed by POPC and DPPC. <b>2012</b> , 8, 5658	66
1836	Sphingomyelin organization is required for vesicle biogenesis at the Golgi complex. <b>2012</b> , 31, 4535-46	56
1835	Nascent high density lipoproteins formed by ABCA1 resemble lipid rafts and are structurally organized by three apoA-I monomers. <b>2012</b> , 53, 1890-909	94
1834	Role of membrane cholesterol in leishmanial infection. <b>2012</b> , 749, 201-13	17
1833	Soluble FLT1 binds lipid microdomains in podocytes to control cell morphology and glomerular barrier function. <b>2012</b> , 151, 384-99	115
1832	Glycosphingolipid composition of epithelial cells isolated along the villus axis of small intestine of a single human individual. <b>2012</b> , 22, 1721-30	46
1831	Binding of islet amyloid polypeptide to supported lipid bilayers and amyloid aggregation at the membranes. <b>2012</b> , 51, 6908-19	26
1830	Atomic force microscopy: a versatile tool to probe the physical and chemical properties of supported membranes at the nanoscale. <b>2012</b> , 165, 845-60	70
1829	Dynamic organizing principles of the plasma membrane that regulate signal transduction: commemorating the fortieth anniversary of Singer and Nicolson's fluid-mosaic model. <b>2012</b> , 28, 215-50	279
1828	Optimisation of BACE1 inhibition of tripartite structures by modification of membrane anchors, spacers and pharmacophores - development of potential agents for the treatment of Alzheimer's disease. <b>2012</b> , 10, 8216-35	10
1827	Polarized sorting and trafficking in epithelial cells. <b>2012</b> , 22, 793-805	98

1826	Signaling endosomes and growth cone motility in axon regeneration. <b>2012</b> , 106, 35-73	8
1825	Cholesterol modulates cell signaling and protein networking by specifically interacting with PDZ domain-containing scaffold proteins. <b>2012</b> , 3, 1249	99
1824	Kinetics of the enzyme-vesicle interaction including the formation of rafts and membrane strain. <b>2012</b> , 170, 17-24	18
1823	Assembly of actin filaments induced by sequestration of membrane cholesterol in transformed cells. <b>2012</b> , 6, 341-347	4
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1820	Differential remodeling of the lipidome during cold acclimation in natural accessions of <i>Arabidopsis thaliana</i> . <b>2012</b> , 72, 972-82	125
1819	Sub-resolution lipid domains exist in the plasma membrane and regulate protein diffusion and distribution. <b>2012</b> , 3, 1256	178
1818	Loss of ERLIN2 function leads to juvenile primary lateral sclerosis. <b>2012</b> , 72, 510-6	41
1817	Proteomic analysis of ganglioside-associated membrane molecules: substantial basis for molecular clustering. <b>2012</b> , 12, 3154-63	38
1816	Lipid rafts: a signalling platform linking lipoprotein metabolism to atherogenesis. <b>2012</b> , 221, 303-10	44
1815	Yeast as a model system for studying lipid homeostasis and function. <b>2012</b> , 586, 2858-67	36
1814	Acetoacetyl-CoA synthetase, a ketone body-utilizing enzyme, is controlled by SREBP-2 and affects serum cholesterol levels. <b>2012</b> , 107, 553-60	28
1813	Co-existence of gel and fluid lipid domains in single-component phospholipid membranes. <b>2012</b> , 8, 4687	36
1812	The anti-diabetic bis(maltolato)oxovanadium(IV) decreases lipid order while increasing insulin receptor localization in membrane microdomains. <b>2012</b> , 41, 6419-30	43
1811	Formation of giant unilamellar vesicles from spin-coated lipid films by localized IR heating. <b>2012</b> , 8, 10823	20
1810	Electro-optical BLM chips enabling dynamic imaging of ordered lipid domains. <b>2012</b> , 12, 3142-9	4
1809	Atomistic simulations of a multicomponent asymmetric lipid bilayer. <b>2012</b> , 116, 13403-10	29

1808	From nano ribbon to fibre by concentration control. <b>2012</b> , 14, 8057	13
1807	Losartan's affinity to fluid bilayers modulates lipid-cholesterol interactions. <b>2012</b> , 14, 4780-8	35
1806	Cholesterol depletion modulates detergent resistant fraction of human serotonin(1A) receptors. <b>2012</b> , 29, 290-8	2
1805	Interactions between ether phospholipids and cholesterol as determined by scattering and molecular dynamics simulations. <b>2012</b> , 116, 14829-38	30
1804	Nonintercalating nanosubstrates create asymmetry between bilayer leaflets. <b>2012</b> , 28, 2842-8	10
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1800	Accelerated enzymatic galactosylation of N-acetylglucosaminolipids in lipid microdomains. <b>2012</b> , 134, 13010-7	38
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1798	Organization and dynamics of hippocampal membranes in a depth-dependent manner: an electron spin resonance study. <b>2012</b> , 116, 2999-3006	7
1797	Dynamics of the gel to fluid phase transformation in unilamellar DPPC vesicles. <b>2012</b> , 116, 13749-56	28
1796	Nanomechanical recognition of sphingomyelin-rich membrane domains by atomic force microscopy. <b>2012</b> , 51, 74-82	14
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1794	Chain length-specific properties of ceramides. <b>2012</b> , 51, 50-62	328
1793	Understanding of the roles of phospholipase D and phosphatidic acid through their binding partners. <b>2012</b> , 51, 71-81	113
1792	Caveolin-1 and prostate cancer progression. <b>2012</b> , 729, 95-110	31
1791	Preparation, characterization, and surface immobilization of native vesicles obtained by mechanical extrusion of mammalian cells. <b>2012</b> , 4, 685-92	14

1790	Cell biology. Beyond oil and water--phase transitions in cells. <i>Science</i> , <b>2012</b> , 337, 1047-9	33.3	180
1789	Beta-glucosidase 2 knockout mice with increased glucosylceramide show impaired liver regeneration. <b>2012</b> , 32, 1354-62		19
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1787	Functional convergence of hopanoids and sterols in membrane ordering. <b>2012</b> , 109, 14236-40		122
1786	Critical Casimir forces in cellular membranes. <b>2012</b> , 109, 138101		91
1785	Model membrane platforms to study protein-membrane interactions. <b>2012</b> , 29, 144-54		58
1784	Astrocytes, but not microglia, rapidly sense HDL via STAT6 phosphorylation, resulting in cyclooxygenase-2 expression and prostaglandin release. <b>2012</b> , 188, 5132-41		29
1783	Sorting of lipidated peptides in fluid bilayers: a molecular-level investigation. <b>2012</b> , 134, 17245-52		15
1782	n-3 Polyunsaturated fatty acids exert immunomodulatory effects on lymphocytes by targeting plasma membrane molecular organization. <b>2012</b> , 33, 46-54		52
1781	Vitamin E, signalosomes and gene expression in T cells. <b>2012</b> , 33, 55-62		25
1780	The AC8 IgG3 monoclonal anti-cholesterol antibody modulates uptake and presentation of antigens for T cell activation. <b>2012</b> , 143, 106-15		2
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1777	Cholesterol and the biosynthesis of glycosphingolipids are required for sperm activation in <i>Caenorhabditis elegans</i> . <b>2012</b> , 1821, 934-42		8
1776	A shift in sphingolipid composition from C24 to C16 increases susceptibility to apoptosis in HeLa cells. <b>2012</b> , 1821, 1031-7		64
1775	Lipid-protein interactions in biological membranes: a dynamic perspective. <b>2012</b> , 1818, 172-7		67
1774	Transmembrane helices can induce domain formation in crowded model membranes. <b>2012</b> , 1818, 984-94		102
1773	Fluorescent probe partitioning in GUVs of binary phospholipid mixtures: implications for interpreting phase behavior. <b>2012</b> , 1818, 19-26		24

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1770	The role of sulfatide lipid domains in the membrane pore-forming activity of cobra cardiotoxin. <b>2012</b> , 1818, 1378-85	14
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1768	Differential localization of sphingomyelin synthase isoforms in neurons regulates sphingomyelin cluster formation. <b>2012</b> , 417, 1014-7	15
1767	Lipids, curvature stress, and the action of lipid prodrugs: free fatty acids and lysolipid enhancement of drug transport across liposomal membranes. <b>2012</b> , 94, 2-10	33
1766	Glycohydrolases $\beta$ -hexosaminidase and $\beta$ -galactosidase are associated with lipid microdomains of Jurkat T-lymphocytes. <b>2012</b> , 94, 684-94	9
1765	DBD dyes as fluorescent probes for sensing lipophilic environments. <b>2012</b> , 22, 5367-71	16
1764	A new era for liquid crystal research: Applications of liquid crystals in soft matter nano-, bio- and microtechnology. <b>2012</b> , 12, 1387-1412	453
1763	Evidence for the presence of functional lipid rafts in immune cells of ectothermic organisms. <b>2012</b> , 37, 257-69	7
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1761	Active remodeling of cortical actin regulates spatiotemporal organization of cell surface molecules. <b>2012</b> , 149, 1353-67	270
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1755	The deletion of bacterial dynamin and flotillin genes results in pleiotropic effects on cell division, cell growth and in cell shape maintenance. <b>2012</b> , 12, 298	21

1754	Membrane microdomains emergence through non-homogeneous diffusion. <b>2012</b> , 5, 6	9
1753	Lipids in Cells. <b>2012</b> , 21-34	0
1752	Proteome analysis of Cry4Ba toxin-interacting <i>Aedes aegypti</i> lipid rafts using geLC-MS/MS. <b>2012</b> , 11, 5843-55	16
1751	Molecular view of phase coexistence in lipid monolayers. <b>2012</b> , 134, 17543-53	83
1750	Non-catalytic tyrosine-phosphorylated receptors. <b>2012</b> , 250, 258-76	48
1749	Single-molecule force spectroscopy from nanodiscs: an assay to quantify folding, stability, and interactions of native membrane proteins. <b>2012</b> , 6, 961-71	44
1748	Visual Discrimination of Membrane Domains in Live Cells by Widefield Microscopy. <b>2012</b> , 163-184	2
1747	Clustering of sialylated glycosylphosphatidylinositol anchors mediates PrP-induced activation of cytoplasmic phospholipase A 2 and synapse damage. <b>2012</b> , 6, 350-3	6
1746	Decreases in plasma membrane Ca <sup>2+</sup> -ATPase in brain synaptic membrane rafts from aged rats. <b>2012</b> , 123, 689-99	26
1745	Cholesterol-enriched membrane rafts and insulin secretion. <b>2012</b> , 3, 339-46	15
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1743	5.3 Membrane Domains and Their Relevance to the Organization of Biological Membranes. <b>2012</b> , 16-36	5
1742	5.12 Membrane ProteinLipid Match and Mismatch. <b>2012</b> , 245-260	3
1741	5.17 Single Molecule Measurements in Membranes. <b>2012</b> , 337-365	
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1739	Cholesterol and regulated exocytosis: a requirement for unitary exocytotic events. <b>2012</b> , 52, 250-8	29
1738	2.11 Fluorescence Correlation Spectroscopy. <b>2012</b> , 210-245	9
1737	Lipid MicrodomainsStructure, Function, and Controversies. <b>2012</b> , 16, 165-197	1

1736	Shapes of pored membranes. <b>2012</b> , 8, 11613	10
1735	Interaction of virions with membrane glycolipids. <b>2012</b> , 9, 026011	12
1734	Lipid ingredients in moisturizers can modulate skin responses to UV in barrier-disrupted human skin in vivo. <b>2012</b> , 65, 110-7	10
1733	Microfluidity mapping using fluorescence correlation spectroscopy: a new way to investigate plasma membrane microorganization of living cells. <b>2012</b> , 1818, 2477-85	9
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1731	Detection of apoptosis through the lipid order of the outer plasma membrane leaflet. <b>2012</b> , 1818, 3048-54	34
1730	Atomic force microscopy imaging of lipid rafts of human breast cancer cells. <b>2012</b> , 1818, 2943-9	29
1729	Membrane cholesterol stabilizes the human serotonin(1A) receptor. <b>2012</b> , 1818, 2936-42	55
1728	Ensemble and single particle fluorimetric techniques in concerted action to study the diffusion and aggregation of the glycine receptor $\beta$ isoforms in the cell plasma membrane. <b>2012</b> , 1818, 3131-40	25
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1725	A Bayesian inference scheme to extract diffusivity and potential fields from confined single-molecule trajectories. <b>2012</b> , 102, 2288-98	63
1724	Determining the Gaussian curvature modulus of lipid membranes in simulations. <b>2012</b> , 102, 1403-10	148
1723	Differential effect of cholesterol and its biosynthetic precursors on membrane dipole potential. <b>2012</b> , 102, 1561-9	62
1722	Lipid sorting by ceramide and the consequences for membrane proteins. <b>2012</b> , 102, 2031-8	21
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1720	Docosahexaenoic and eicosapentaenoic acids segregate differently between raft and nonraft domains. <b>2012</b> , 103, 228-37	132
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1717	Minimal systems to study membrane-cytoskeleton interactions. <b>2012</b> , 23, 758-65	36
1716	Regulation of cholesterol biosynthesis and cancer signaling. <b>2012</b> , 12, 710-6	63
1715	Lipid sorting by ceramide structure from plasma membrane to ER for the cholera toxin receptor ganglioside GM1. <b>2012</b> , 23, 573-86	90
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1713	Regulation from within: the cytoskeleton in transmembrane signaling. <b>2012</b> , 22, 515-26	73
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1711	Nanoscale mechanical properties of lipid bilayers and their relevance in biomembrane organization and function. <b>2012</b> , 43, 1212-23	30
1710	Update of the cholesterol force field parameters in CHARMM. <b>2012</b> , 116, 203-10	147
1709	Near-Field Optical Nanoscopy of Biological Membranes. <b>2012</b> , 339-363	
1708	Caveolin-1: role in cell signaling. <b>2012</b> , 729, 29-50	120
1707	Langmuir-Blodgett (LB) Film. <b>2012</b> , 43-105	2
1706	Deciphering Cell Membrane Organization Based on Lateral Diffusion Measurements by Fluorescence Correlation Spectroscopy at Different Length Scales. <b>2012</b> , 271-289	
1705	STED-FCS Nanoscopy of Membrane Dynamics. <b>2012</b> , 291-309	9
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1697	Computational modeling of cellular signaling processes embedded into dynamic spatial contexts. <b>2012</b> , 9, 283-9	76
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1694	Nanoscale membrane organization: where biochemistry meets advanced microscopy. <b>2012</b> , 7, 139-49	36
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1690	Use of X-ray scattering to aid the design and delivery of membrane-active drugs. <b>2012</b> , 41, 915-29	8
1689	Impact of circulating cholesterol levels on growth and intratumoral androgen concentration of prostate tumors. <b>2012</b> , 7, e30062	89
1688	Distribution of cortical endoplasmic reticulum determines positioning of endocytic events in yeast plasma membrane. <b>2012</b> , 7, e35132	32
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1680	Sphingolipids and plant defense/disease: the "death" connection and beyond. <b>2012</b> , 3, 68	115
1679	Ganglioside biochemistry. <b>2012</b> , 2012, 506160	95
1678	Molecular Modeling and Simulation of Membrane Lipid-Mediated Effects on GPCRs. <b>2012</b> , 20, 22-38	22
1677	Membrane dynamics shape TCR-generated signaling. <b>2012</b> , 3, 90	21
1676	The Impact of Macrophage Membrane Lipid Composition on Innate Immune Response Mechanisms. <b>2012</b> ,	1
1675	Cholesterol-Binding Peptides and Phagocytosis. <b>2012</b> ,	1
1674	Endocytosis in Notch Signaling Activation. <b>2012</b> ,	2
1673	Molecular mechanisms of natural killer cell regulation. <b>2012</b> , 17, 1418-32	14
1672	Fusion pore diameter regulation by cations modulating local membrane anisotropy. <b>2012</b> , 2012, 983138	7
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1670	Identification of a lipid-related peak set to enhance the interpretation of TOF-SIMS data from model and cellular membranes. <b>2012</b> , 44, 322-333	25
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1667	Resolving the kinetics of lipid, protein and peptide diffusion in membranes. <b>2012</b> , 29, 118-43	22
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1665	Fluorescent lipids: functional parts of fusogenic liposomes and tools for cell membrane labeling and visualization. <b>2012</b> , 17, 1055-73	57

1664	Oxysterol-binding proteins—emerging roles in cell regulation. <b>2012</b> , 114, 634-643	5
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1662	Introduction to the fractality principle of consciousness and the sentyon postulate. <b>2012</b> , 4, 13-28	5
1661	Elucidating membrane structure and protein behavior using giant plasma membrane vesicles. <b>2012</b> , 7, 1042-51	323
1660	Cholesterol mediates membrane curvature during fusion events. <b>2012</b> , 108, 238103	22
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1658	Protein directed assembly of lipids. <b>2012</b> , 48, 672-4	3
1657	Triple-Color Super-Resolution Imaging of Live Cells: Resolving Submicroscopic Receptor Organization in the Plasma Membrane. <b>2012</b> , 124, 4952-4955	13
1656	Triple-color super-resolution imaging of live cells: resolving submicroscopic receptor organization in the plasma membrane. <b>2012</b> , 51, 4868-71	77
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