

Anant K Menon

List of Publications by Year in descending order

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115
papers

5,969
citations

66234

42
h-index

82410

72
g-index

132
all docs

132
docs citations

132
times ranked

5486
citing authors

#	ARTICLE	IF	CITATIONS
1	Lipid landscapes and pipelines in membrane homeostasis. <i>Nature</i> , 2014, 510, 48-57.	13.7	697
2	Thematic review series: Lipid Posttranslational Modifications. GPI anchoring of protein in yeast and mammalian cells, or: how we learned to stop worrying and love glycosphospholipids. <i>Journal of Lipid Research</i> , 2007, 48, 993-1011.	2.0	347
3	A new family of StART domain proteins at membrane contact sites has a role in ER-PM sterol transport. <i>ELife</i> , 2015, 4, .	2.8	227
4	Cytoplasmic and Nuclear Delivery of a TAT-derived Peptide and a \hat{I}^2 -Peptide after Endocytic Uptake into HeLa Cells. <i>Journal of Biological Chemistry</i> , 2003, 278, 50188-50194.	1.6	206
5	Ca ²⁺ -dependent phospholipid scrambling by a reconstituted TMEM16 ion channel. <i>Nature Communications</i> , 2013, 4, 2367.	5.8	202
6	Transport of Newly Synthesized Sterol to the Sterol-Enriched Plasma Membrane Occurs via Nonvesicular Equilibration. <i>Biochemistry</i> , 2005, 44, 5816-5826.	1.2	199
7	Opsin Is a Phospholipid Flippase. <i>Current Biology</i> , 2011, 21, 149-153.	1.8	154
8	Lipid somersaults: Uncovering the mechanisms of protein-mediated lipid flipping. <i>Progress in Lipid Research</i> , 2016, 64, 69-84.	5.3	140
9	Recent developments in the cell biology and biochemistry of glycosylphosphatidylinositol lipids (Review). <i>Molecular Membrane Biology</i> , 2000, 17, 1-16.	2.0	136
10	Endoplasmic reticulum-plasma membrane contact sites integrate sterol and phospholipid regulation. <i>PLoS Biology</i> , 2018, 16, e2003864.	2.6	132
11	Flipping Lipids: Why an TM What TM s the Reason for?. <i>ACS Chemical Biology</i> , 2009, 4, 895-909.	1.6	127
12	Intracellular sterol transport and distribution. <i>Current Opinion in Cell Biology</i> , 2006, 18, 379-385.	2.6	120
13	Osh Proteins Regulate Membrane Sterol Organization but Are Not Required for Sterol Movement Between the ER and PM. <i>Traffic</i> , 2011, 12, 1341-1355.	1.3	113
14	Constitutive phospholipid scramblase activity of a G protein-coupled receptor. <i>Nature Communications</i> , 2014, 5, 5115.	5.8	112
15	Transbilayer lipid asymmetry. <i>Current Biology</i> , 2018, 28, R386-R391.	1.8	110
16	Effects of Conformational Stability and Geometry of Guanidinium Display on Cell Entry by \hat{I}^2 -Peptides. <i>Journal of the American Chemical Society</i> , 2005, 127, 3686-3687.	6.6	101
17	Specific proteins are required to translocate phosphatidylcholine bidirectionally across the endoplasmic reticulum. <i>Current Biology</i> , 2000, 10, 241-252.	1.8	100
18	Distinct Flippases Translocate Glycerophospholipids and Oligosaccharide Diphosphate Dolichols across the Endoplasmic Reticulum. <i>Biochemistry</i> , 2008, 47, 7937-7946.	1.2	80

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19	Molecular species analysis of phospholipids from <i>Trypanosoma brucei</i> bloodstream and procyclic forms. <i>Molecular and Biochemical Parasitology</i> , 1993, 58, 97-105.	0.5	76
20	The nhTMEM16 Scramblase Is Also a Nonselective Ion Channel. <i>Biophysical Journal</i> , 2016, 111, 1919-1924.	0.2	70
21	Gating mechanism of the extracellular entry to the lipid pathway in a TMEM16 scramblase. <i>Nature Communications</i> , 2018, 9, 3251.	5.8	70
22	Does Rft1 flip an N-glycan lipid precursor?. <i>Nature</i> , 2008, 454, E3-E4.	13.7	69
23	Chemical Modification Identifies Two Populations of Glycerophospholipid Flippase in Rat Liver ER. <i>Biochemistry</i> , 2004, 43, 10710-10718.	1.2	67
24	A Detour for Yeast Oxysterol Binding Proteins. <i>Journal of Biological Chemistry</i> , 2012, 287, 11481-11488.	1.6	64
25	Transbilayer Movement of Fluorescent Phospholipids in <i>Bacillus megaterium</i> Membrane Vesicles. <i>Biochemistry</i> , 1997, 36, 4969-4978.	1.2	62
26	A Cell-free Assay for Glycosylphosphatidylinositol Anchoring in African Trypanosomes. <i>Journal of Biological Chemistry</i> , 1999, 274, 16479-16486.	1.6	62
27	Ergosterol is mainly located in the cytoplasmic leaflet of the yeast plasma membrane. <i>Traffic</i> , 2018, 19, 198-214.	1.3	62
28	Segregation of Glycosylphosphatidylinositol Biosynthetic Reactions in a Subcompartment of the Endoplasmic Reticulum. <i>Journal of Biological Chemistry</i> , 1999, 274, 15203-15212.	1.6	61
29	New fluorescent probes reveal that flippase-mediated flip-flop of phosphatidylinositol across the endoplasmic reticulum membrane does not depend on the stereochemistry of the lipid. <i>Organic and Biomolecular Chemistry</i> , 2005, 3, 1275.	1.5	58
30	Phosphatidylserine translocation at the yeast trans-Golgi network regulates protein sorting into exocytic vesicles. <i>Molecular Biology of the Cell</i> , 2015, 26, 4674-4685.	0.9	56
31	Speed Limits for Nonvesicular Intracellular Sterol Transport. <i>Trends in Biochemical Sciences</i> , 2017, 42, 90-97.	3.7	55
32	Dimerization deficiency of enigmatic retinitis pigmentosa-linked rhodopsin mutants. <i>Nature Communications</i> , 2016, 7, 12832.	5.8	54
33	Mechanisms of Lipid Scrambling by the G Protein-Coupled Receptor Opsin. <i>Structure</i> , 2018, 26, 356-367.e3.	1.6	54
34	Flip-flop of glycosylphosphatidylinositols (GPI's) across the ER. <i>Chemical Communications</i> , 2005, , 453.	2.2	53
35	Specific transbilayer translocation of dolichol-linked oligosaccharides by an endoplasmic reticulum flippase. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 767-772.	3.3	53
36	Transbilayer Movement of Fluorescent Phospholipid Analogues in the Cytoplasmic Membrane of <i>Escherichia coli</i> . <i>Biochemistry</i> , 2002, 41, 5605-5612.	1.2	52

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37	HeLa Cell Entry by Guanidinium-Rich β -Peptides: Importance of Specific Cation-Cell Surface Interactions. <i>ChemBioChem</i> , 2007, 8, 917-926.	1.3	51
38	Reconstitution and Partial Characterization of Phospholipid Flippase Activity from Detergent Extracts of the <i>Bacillus subtilis</i> Cell Membrane. <i>Journal of Bacteriology</i> , 2000, 182, 4198-4206.	1.0	49
39	Out-of-the-groove transport of lipids by TMEM16 and GPCR scramblases. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, E7033-E7042.	3.3	49
40	Transbilayer Movement of Dipalmitoylphosphatidylcholine in Proteoliposomes Reconstituted from Detergent Extracts of Endoplasmic Reticulum. <i>Journal of Biological Chemistry</i> , 2002, 277, 25337-25343.	1.6	47
41	Identification and Purification of the Rat Liver Golgi Membrane UDP-N-acetylgalactosamine Transporter. <i>Journal of Biological Chemistry</i> , 1999, 274, 4474-4479.	1.6	46
42	Cell Surface Display and Intracellular Trafficking of Free Glycosylphosphatidylinositols in Mammalian Cells. <i>Journal of Biological Chemistry</i> , 2000, 275, 7378-7389.	1.6	46
43	Stereoselective transbilayer translocation of mannosyl phosphoryl dolichol by an endoplasmic reticulum flippase. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 11289-11294.	3.3	45
44	Regulation of surface coat exchange by differentiating African trypanosomes. <i>Molecular and Biochemical Parasitology</i> , 2006, 147, 211-223.	0.5	44
45	Nonpolarized Distribution of Glycosylphosphatidylinositols in the Plasma Membrane of Polarized Madin-Darby Canine Kidney Cells. <i>Journal of Biological Chemistry</i> , 1995, 270, 24150-24155.	1.6	43
46	Structural Requirements for the Recruitment of Gaa1 into a Functional Glycosylphosphatidylinositol Transamidase Complex. <i>Journal of Biological Chemistry</i> , 2002, 277, 30535-30542.	1.6	43
47	De Novo Sphingolipid Synthesis Is Essential for Viability, but Not for Transport of Glycosylphosphatidylinositol-Anchored Proteins, in African Trypanosomes. <i>Eukaryotic Cell</i> , 2007, 6, 454-464.	3.4	42
48	Flip-Flop of Fluorescently Labeled Phospholipids in Proteoliposomes Reconstituted with <i>Saccharomyces cerevisiae</i> Microsomal Proteins. <i>Eukaryotic Cell</i> , 2007, 6, 1625-1634.	3.4	42
49	Structural basis of sterol binding and transport by a yeast StARkin domain. <i>Journal of Biological Chemistry</i> , 2018, 293, 5522-5531.	1.6	42
50	Phosphatidylinositol Hydrolysis by Glycosylphosphatidylinositol Phospholipase C. <i>Journal of Biological Chemistry</i> , 1996, 271, 15533-15541.	1.6	41
51	Photoaffinity labelling with P3-(4-azidoanilido)uridine 5 α -triphosphate identifies Gpi3p as the UDP-GlcNAc-binding subunit of the enzyme that catalyses formation of GlcNAc-phosphatidylinositol, the first glycolipid intermediate in glycosylphosphatidylinositol synthesis. <i>Biochemical Journal</i> , 2000, 350, 815-822.	1.7	39
52	Phospholipid scrambling by rhodopsin. <i>Photochemical and Photobiological Sciences</i> , 2015, 14, 1922-1931.	1.6	39
53	Sterol gradients in cells. <i>Current Opinion in Cell Biology</i> , 2018, 53, 37-43.	2.6	36
54	Reconstitution of Glucosylceramide Flip-Flop across Endoplasmic Reticulum. <i>Journal of Biological Chemistry</i> , 2012, 287, 15523-15532.	1.6	35

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55	Endoplasmic reticulum proteins involved in glycosylphosphatidylinositol-anchor attachment. FEBS Journal, 2001, 268, 2290-2300.	0.2	33
56	A Conserved Proline in the Last Transmembrane Segment of Gaa1 Is Required for Glycosylphosphatidylinositol (GPI) Recognition by GPI Transamidase. Journal of Biological Chemistry, 2004, 279, 6540-6545.	1.6	33
57	A Fluorescence-based Assay of Phospholipid Scramblase Activity. Journal of Visualized Experiments, 2016, , .	0.2	33
58	Soluble GPI8 restores glycosylphosphatidylinositol anchoring in a trypanosome cell-free system depleted of luminal endoplasmic reticulum proteins. Biochemical Journal, 2000, 351, 717-722.	1.7	31
59	Tritium Suicide Selection Identifies Proteins Involved in the Uptake and Intracellular Transport of Sterols in <i>Saccharomyces cerevisiae</i> . Eukaryotic Cell, 2009, 8, 161-169.	3.4	28
60	Glycoprotein Biosynthesis in a Eukaryote Lacking the Membrane Protein Rft1. Journal of Biological Chemistry, 2013, 288, 20616-20623.	1.6	28
61	TOR complex 2-regulated protein kinase Ypk1 controls sterol distribution by inhibiting StArkin domain-containing proteins located at plasma membrane-endoplasmic reticulum contact sites. Molecular Biology of the Cell, 2018, 29, 2128-2136.	0.9	28
62	Dysregulated calcium homeostasis prevents plasma membrane repair in Anoctamin 5/TMEM16E-deficient patient muscle cells. Cell Death Discovery, 2019, 5, 118.	2.0	28
63	Candida Drug Resistance Protein 1, a Major Multidrug ATP Binding Cassette Transporter of Candida albicans, Translocates Fluorescent Phospholipids in a Reconstituted System. Biochemistry, 2007, 46, 12081-12090.	1.2	27
64	Arv1 Regulates PM and ER Membrane Structure and Homeostasis But is Dispensable for Intracellular Sterol Transport. Traffic, 2013, 14, 912-921.	1.3	26
65	Lipid topogenesis – 35 years on. Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids, 2016, 1861, 757-766.	1.2	26
66	Subcellular Localization and Targeting of N-Acetylglucosaminyl Phosphatidylinositol De-N-acetylase, the Second Enzyme in the Glycosylphosphatidylinositol Biosynthetic Pathway. Journal of Biological Chemistry, 2004, 279, 15743-15751.	1.6	24
67	Yeast oxysterol-binding proteins: sterol transporters or regulators of cell polarization?. Molecular and Cellular Biochemistry, 2009, 326, 9-13.	1.4	24
68	Light-independent phospholipid scramblase activity of bacteriorhodopsin from Halobacterium salinarum. Scientific Reports, 2017, 7, 9522.	1.6	24
69	Phospholipid Scrambling by G Protein-Coupled Receptors. Annual Review of Biophysics, 2022, 51, 39-61.	4.5	24
70	Biosynthesis of the glycolipid membrane anchor of <i>Trypanosoma brucei</i> variant surface glycoproteins: involvement of Dol-P-Man. Biochemical Society Transactions, 1989, 17, 746-748.	1.6	22
71	[38] Biosynthesis of glycosylphosphatidylinositol anchors. Methods in Enzymology, 1995, 250, 513-535.	0.4	21
72	Scrambling of natural and fluorescently tagged phosphatidylinositol by reconstituted G protein-coupled receptor and TMEM16 scramblases. Journal of Biological Chemistry, 2018, 293, 18318-18327.	1.6	20

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73	Rethinking Opsins. <i>Molecular Biology and Evolution</i> , 2022, 39, .	3.5	20
74	Comparative importance in vivo of conserved glutamate residues in the EX7E motif retaining glycosyltransferase Gpi3p, the UDP-GlcNAc-binding subunit of the first enzyme in glycosylphosphatidylinositol assembly. <i>FEBS Journal</i> , 2003, 270, 4507-4514.	0.2	19
75	Exchange of water for sterol underlies sterol egress from a StArkin domain. <i>ELife</i> , 2019, 8, .	2.8	18
76	Ethanolamine Phosphate Linked to the First Mannose Residue of Glycosylphosphatidylinositol (GPI) Lipids Is a Major Feature of the GPI Structure That Is Recognized by Human GPI Transamidase. <i>Journal of Biological Chemistry</i> , 2006, 281, 38358-38364.	1.6	17
77	RFT1 Protein Affects Glycosylphosphatidylinositol (GPI) Anchor Glycosylation. <i>Journal of Biological Chemistry</i> , 2017, 292, 1103-1111.	1.6	14
78	An engineered opsin monomer scrambles phospholipids. <i>Scientific Reports</i> , 2017, 7, 16741.	1.6	14
79	Complexity of the eukaryotic dolichol-linked oligosaccharide scramblase suggested by activity correlation profiling mass spectrometry. <i>Scientific Reports</i> , 2021, 11, 1411.	1.6	13
80	Glycolipid precursor of <i>Trypanosoma brucei</i> variant surface glycoproteins: incorporation of radiolabelled mannose and myristic acid in a cell-free system. <i>Biochemical Society Transactions</i> , 1988, 16, 996-997.	1.6	12
81	Photoaffinity labelling with P3-(4-azidoanilido)uridine 5â€²-triphosphate identifies Gpi3p as the UDP-GlcNAc-binding subunit of the enzyme that catalyses formation of GlcNAc-phosphatidylinositol, the first glycolipid intermediate in glycosylphosphatidylinositol synthesis. <i>Biochemical Journal</i> , 2000, 350, 815.	1.7	12
82	Structural mapping of fluorescently-tagged, functional nhTMEM16 scramblase in a lipid bilayer. <i>Journal of Biological Chemistry</i> , 2018, 293, 12248-12258.	1.6	11
83	Reconstitution of Phospholipid Flippase Activity from <i>E. coli</i> Inner Membrane: A Test of the Protein Translocon as a Candidate Flippase. <i>Biological Chemistry</i> , 2002, 383, 1435-1440.	1.2	10
84	Disulfide Bond Formation and N-Glycosylation Modulate Protein-Protein Interactions in GPI-Transamidase (GPIT). <i>Scientific Reports</i> , 2017, 7, 45912.	1.6	10
85	Genome-wide CRISPR screen reveals CLPTM1L as a lipid scramblase required for efficient glycosylphosphatidylinositol biosynthesis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, e2115083119.	3.3	10
86	Endoplasmic Reticulum Localization of Gaa1 and PIG-T, Subunits of the Glycosylphosphatidylinositol Transamidase Complex. <i>Journal of Biological Chemistry</i> , 2005, 280, 16402-16409.	1.6	9
87	Reconstitution and Assay of Biogenic Membrane-Derived Phospholipid Flippase Activity in Proteoliposomes. , 2003, 228, 271-280.		8
88	Introduction: lipid transportâ€™an overview. <i>Seminars in Cell and Developmental Biology</i> , 2002, 13, 159-162.	2.3	7
89	Countercurrents in lipid flow. <i>Nature</i> , 2015, 525, 191-192.	13.7	7
90	Measurement of Intracellular Sterol Transport in Yeast. <i>Methods in Molecular Biology</i> , 2019, 1949, 115-136.	0.4	7

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91	Unusual mode of dimerization of retinitis pigmentosa-associated F220C rhodopsin. <i>Scientific Reports</i> , 2021, 11, 10536.	1.6	7
92	Identification of endoplasmic reticulum proteins involved in glycan assembly: synthesis and characterization of P3-(4-azidoanilido)uridine 5'-triphosphate, a membrane-topological photoaffinity probe for uridine diphosphate-sugar binding proteins. <i>Biochemical Journal</i> , 1998, 333, 661-669.	1.7	6
93	Biosynthesis of Glycolipid Anchors in <i>Trypanosoma brucei</i> . <i>Trends in Glycoscience and Glycotechnology</i> , 1991, 3, 107-115.	0.0	6
94	Soluble GPI8 restores glycosylphosphatidylinositol anchoring in a trypanosome cell-free system depleted of luminal endoplasmic reticulum proteins. <i>Biochemical Journal</i> , 2000, 351, 717.	1.7	5
95	A Protein Pair with PIPs Inside. <i>Structure</i> , 2013, 21, 1070-1071.	1.6	5
96	Endoplasmic reticulum phospholipid scramblase activity revealed after protein reconstitution into giant unilamellar vesicles containing a photostable lipid reporter. <i>Scientific Reports</i> , 2021, 11, 14364.	1.6	5
97	Elimination of GPI2 suppresses glycosylphosphatidylinositol GlcNAc transferase activity and alters GPI glycan modification in <i>Trypanosoma brucei</i> . <i>Journal of Biological Chemistry</i> , 2021, 297, 100977.	1.6	5
98	Single Vesicle Fluorescence-Bleaching Assay for Multi-Parameter Analysis of Proteoliposomes by Total Internal Reflection Fluorescence Microscopy. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 29659-29667.	4.0	5
99	A Flip-Flop Switch in Polarity Signaling. <i>Developmental Cell</i> , 2007, 13, 607-608.	3.1	4
100	The cellular lipid landscape. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2016, 1861, 755-756.	1.2	4
101	A PhotoClick cholesterol-based quantitative proteomics screen for cytoplasmic sterol-binding proteins in <i>Saccharomyces cerevisiae</i> . <i>Yeast</i> , 2020, 37, 15-25.	0.8	4
102	Chapter 2 Lipid modifications of proteins. <i>New Comprehensive Biochemistry</i> , 2002, , 37-54.	0.1	3
103	Intramembrane and Intermembrane Lipid Transport. , 2016, , 415-436.		3
104	Identification of TbPBN1 in <i>Trypanosoma brucei</i> reveals a conserved heterodimeric architecture for glycosylphosphatidylinositol-mannosyltransferase. <i>Molecular Microbiology</i> , 2022, 117, 450-461.	1.2	3
105	Cholesterol occupies the lipid translocation pathway to block phospholipid scrambling by a G protein-coupled receptor. <i>Structure</i> , 2022, 30, 1208-1217.e2.	1.6	3
106	Lipid modifications of proteins. , 2008, , 39-58.		2
107	Lipid gymnastics. <i>Nature</i> , 2015, 524, 420-422.	13.7	2
108	BIOSYNTHESIS OF GLYCOSYL-PHOSPHATIDYLINOSITOL. , 1992, , 155-169.		2

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109	Glycosylphosphatidylinositol (GPI) Anchors. , 2004, , 308-311.		1
110	Chapter 8 Split Topology of GPI Biosynthesis. The Enzymes, 2009, , 151-158.	0.7	1
111	Chapter 7 Attachment of a GPI Anchor to Protein. The Enzymes, 2009, 26, 133-149.	0.7	1
112	Nonenzymatic synthesis of anomerically pure, mannosyl-based molecular probes for scramblase identification studies. Beilstein Journal of Organic Chemistry, 2020, 16, 1732-1739.	1.3	1
113	flippantâ€“An R package for the automated analysis of fluorescence-based scramblase assays. BMC Bioinformatics, 2017, 18, 146.	1.2	0
114	Biochemical reconstitution and resolution of lipid flippase activities required for protein glycosylation in the ER. FASEB Journal, 2012, 26, 349.2.	0.2	0
115	A novel assay to measure scrambling of natural phospholipids in reconstituted proteoliposomes. FASEB Journal, 2018, 32, 815.7.	0.2	0