

# Anant K Menon

## List of Publications by Citations

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114  
papers

4,752  
citations

40  
h-index

67  
g-index

132  
ext. papers

5,442  
ext. citations

7.3  
avg, IF

5.98  
L-index

#	Paper	IF	Citations
114	Lipid landscapes and pipelines in membrane homeostasis. <i>Nature</i> , <b>2014</b> , 510, 48-57	50.4	523
113	Thematic review series: lipid posttranslational modifications. GPI anchoring of protein in yeast and mammalian cells, or: how we learned to stop worrying and love glycopospholipids. <i>Journal of Lipid Research</i> , <b>2007</b> , 48, 993-1011	6.3	290
112	Cytoplasmic and nuclear delivery of a TAT-derived peptide and a beta-peptide after endocytic uptake into HeLa cells. <i>Journal of Biological Chemistry</i> , <b>2003</b> , 278, 50188-94	5.4	189
111	Transport of newly synthesized sterol to the sterol-enriched plasma membrane occurs via nonvesicular equilibration. <i>Biochemistry</i> , <b>2005</b> , 44, 5816-26	3.2	173
110	A new family of StART domain proteins at membrane contact sites has a role in ER-PM sterol transport. <i>ELife</i> , <b>2015</b> , 4,	8.9	171
109	Ca <sup>2+</sup> -dependent phospholipid scrambling by a reconstituted TMEM16 ion channel. <i>Nature Communications</i> , <b>2013</b> , 4, 2367	17.4	169
108	Recent developments in the cell biology and biochemistry of glycosylphosphatidylinositol lipids (review). <i>Molecular Membrane Biology</i> , <b>2000</b> , 17, 1-16	3.4	117
107	Opsin is a phospholipid flippase. <i>Current Biology</i> , <b>2011</b> , 21, 149-53	6.3	113
106	Lipid somersaults: Uncovering the mechanisms of protein-mediated lipid flipping. <i>Progress in Lipid Research</i> , <b>2016</b> , 64, 69-84	14.3	108
105	Flipping lipids: why anSwatS the reason for?. <i>ACS Chemical Biology</i> , <b>2009</b> , 4, 895-909	4.9	105
104	Intracellular sterol transport and distribution. <i>Current Opinion in Cell Biology</i> , <b>2006</b> , 18, 379-85	9	105
103	Osh proteins regulate membrane sterol organization but are not required for sterol movement between the ER and PM. <i>Traffic</i> , <b>2011</b> , 12, 1341-55	5.7	103
102	Effects of conformational stability and geometry of guanidinium display on cell entry by beta-peptides. <i>Journal of the American Chemical Society</i> , <b>2005</b> , 127, 3686-7	16.4	90
101	Specific proteins are required to translocate phosphatidylcholine bidirectionally across the endoplasmic reticulum. <i>Current Biology</i> , <b>2000</b> , 10, 241-52	6.3	90
100	Endoplasmic reticulum-plasma membrane contact sites integrate sterol and phospholipid regulation. <i>PLoS Biology</i> , <b>2018</b> , 16, e2003864	9.7	83
99	Constitutive phospholipid scramblase activity of a G protein-coupled receptor. <i>Nature Communications</i> , <b>2014</b> , 5, 5115	17.4	78
98	Distinct flippases translocate glycerophospholipids and oligosaccharide diphosphate dolichols across the endoplasmic reticulum. <i>Biochemistry</i> , <b>2008</b> , 47, 7937-46	3.2	70

97	Molecular species analysis of phospholipids from <i>Trypanosoma brucei</i> bloodstream and procyclic forms. <i>Molecular and Biochemical Parasitology</i> , <b>1993</b> , 58, 97-105	1.9	69
96	Transbilayer lipid asymmetry. <i>Current Biology</i> , <b>2018</b> , 28, R386-R391	6.3	59
95	Transbilayer movement of fluorescent phospholipids in <i>Bacillus megaterium</i> membrane vesicles. <i>Biochemistry</i> , <b>1997</b> , 36, 4969-78	3.2	58
94	A detour for yeast oxysterol binding proteins. <i>Journal of Biological Chemistry</i> , <b>2012</b> , 287, 11481-8	5.4	57
93	Does Rft1 flip an N-glycan lipid precursor?. <i>Nature</i> , <b>2008</b> , 454, E3-4; discussion E4-5	50.4	56
92	A cell-free assay for glycosylphosphatidylinositol anchoring in African trypanosomes. Demonstration of a transamidation reaction mechanism. <i>Journal of Biological Chemistry</i> , <b>1999</b> , 274, 16479-86	5.4	55
91	Segregation of glycosylphosphatidylinositol biosynthetic reactions in a subcompartment of the endoplasmic reticulum. <i>Journal of Biological Chemistry</i> , <b>1999</b> , 274, 15203-12	5.4	54
90	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> , <b>2005</b> , 3, 1275-83	3.9	52
89	Chemical modification identifies two populations of glycerophospholipid flippase in rat liver ER. <i>Biochemistry</i> , <b>2004</b> , 43, 10710-8	3.2	52
88	The nhTMEM16 Scramblase Is Also a Nonselective Ion Channel. <i>Biophysical Journal</i> , <b>2016</b> , 111, 1919-1924	4.9	51
87	Gating mechanism of the extracellular entry to the lipid pathway in a TMEM16 scramblase. <i>Nature Communications</i> , <b>2018</b> , 9, 3251	17.4	51
86	HeLa cell entry by guanidinium-rich beta-peptides: importance of specific cation-cell surface interactions. <i>ChemBioChem</i> , <b>2007</b> , 8, 917-26	3.8	50
85	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> , <b>2009</b> , 106, 767-72	11.5	48
84	Flip-flop of glycosylphosphatidylinositols (GPIs) across the ER. <i>Chemical Communications</i> , <b>2005</b> , 453-5	5.8	47
83	Speed Limits for Nonvesicular Intracellular Sterol Transport. <i>Trends in Biochemical Sciences</i> , <b>2017</b> , 42, 90-97	10.3	46
82	Transbilayer movement of fluorescent phospholipid analogues in the cytoplasmic membrane of <i>Escherichia coli</i> . <i>Biochemistry</i> , <b>2002</b> , 41, 5605-12	3.2	46
81	Reconstitution and partial characterization of phospholipid flippase activity from detergent extracts of the <i>Bacillus subtilis</i> cell membrane. <i>Journal of Bacteriology</i> , <b>2000</b> , 182, 4198-206	3.5	45
80	Transbilayer movement of dipalmitoylphosphatidylcholine in proteoliposomes reconstituted from detergent extracts of endoplasmic reticulum. Kinetics of transbilayer transport mediated by a single flippase and identification of protein fractions enriched in flippase activity. <i>Journal of Biological Chemistry</i> , <b>2002</b> , 277, 25887-93	5.4	44

79	Cell surface display and intracellular trafficking of free glycosylphosphatidylinositols in mammalian cells. <i>Journal of Biological Chemistry</i> , <b>2000</b> , 275, 7378-89	5.4	44
78	Phosphatidylserine translocation at the yeast trans-Golgi network regulates protein sorting into exocytic vesicles. <i>Molecular Biology of the Cell</i> , <b>2015</b> , 26, 4674-85	3.5	43
77	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> , <b>2010</b> , 107, 11289-94	11.5	41
76	Ergosterol is mainly located in the cytoplasmic leaflet of the yeast plasma membrane. <i>Traffic</i> , <b>2018</b> , 19, 198-214	5.7	40
75	Identification and purification of the rat liver Golgi membrane UDP-N-acetylgalactosamine transporter. <i>Journal of Biological Chemistry</i> , <b>1999</b> , 274, 4474-9	5.4	40
74	Dimerization deficiency of enigmatic retinitis pigmentosa-linked rhodopsin mutants. <i>Nature Communications</i> , <b>2016</b> , 7, 12832	17.4	39
73	De novo sphingolipid synthesis is essential for viability, but not for transport of glycosylphosphatidylinositol-anchored proteins, in African trypanosomes. <i>Eukaryotic Cell</i> , <b>2007</b> , 6, 454-64		38
72	Structural requirements for the recruitment of Gaa1 into a functional glycosylphosphatidylinositol transamidase complex. <i>Journal of Biological Chemistry</i> , <b>2002</b> , 277, 30535-42	5.4	38
71	Regulation of surface coat exchange by differentiating African trypanosomes. <i>Molecular and Biochemical Parasitology</i> , <b>2006</b> , 147, 211-23	1.9	37
70	Flip-flop of fluorescently labeled phospholipids in proteoliposomes reconstituted with <i>Saccharomyces cerevisiae</i> microsomal proteins. <i>Eukaryotic Cell</i> , <b>2007</b> , 6, 1625-34		36
69	Phosphatidylinositol hydrolysis by <i>Trypanosoma brucei</i> glycosylphosphatidylinositol phospholipase C. <i>Journal of Biological Chemistry</i> , <b>1996</b> , 271, 15533-41	5.4	36
68	Mechanisms of Lipid Scrambling by the G Protein-Coupled Receptor Opsin. <i>Structure</i> , <b>2018</b> , 26, 356-367. <del>33</del>	5.3	35
67	Photoaffinity labelling with P3-(4-azidoanilido)uridine 5'-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> , <b>2000</b> , 350, 815-822	3.8	35
66	Nonpolarized distribution of glycosylphosphatidylinositols in the plasma membrane of polarized Madin-Darby canine kidney cells. <i>Journal of Biological Chemistry</i> , <b>1995</b> , 270, 24150-5	5.4	35
65	Structural basis of sterol binding and transport by a yeast StArkin domain. <i>Journal of Biological Chemistry</i> , <b>2018</b> , 293, 5522-5531	5.4	31
64	A conserved proline in the last transmembrane segment of Gaa1 is required for glycosylphosphatidylinositol (GPI) recognition by GPI transamidase. <i>Journal of Biological Chemistry</i> , <b>2004</b> , 279, 6540-5	5.4	31
63	Endoplasmic reticulum proteins involved in glycosylphosphatidylinositol-anchor attachment: photocrosslinking studies in a cell-free system. <i>FEBS Journal</i> , <b>2001</b> , 268, 2290-300		31
62	Phospholipid scrambling by rhodopsin. <i>Photochemical and Photobiological Sciences</i> , <b>2015</b> , 14, 1922-31	4.2	30

61	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> , <b>2018</b> , 115, E7033-E7042	11.5	30
60	Reconstitution of glucosylceramide flip-flop across endoplasmic reticulum: implications for mechanism of glycosphingolipid biosynthesis. <i>Journal of Biological Chemistry</i> , <b>2012</b> , 287, 15523-32	5.4	29
59	Soluble GPI8 restores glycosylphosphatidylinositol anchoring in a trypanosome cell-free system depleted of luminal endoplasmic reticulum proteins. <i>Biochemical Journal</i> , <b>2000</b> , 351, 717-722	3.8	29
58	Tritium suicide selection identifies proteins involved in the uptake and intracellular transport of sterols in <i>Saccharomyces cerevisiae</i> . <i>Eukaryotic Cell</i> , <b>2009</b> , 8, 161-9		25
57	Arv1 regulates PM and ER membrane structure and homeostasis but is dispensable for intracellular sterol transport. <i>Traffic</i> , <b>2013</b> , 14, 912-21	5.7	24
56	Candida drug resistance protein 1, a major multidrug ATP binding cassette transporter of <i>Candida albicans</i> , translocates fluorescent phospholipids in a reconstituted system. <i>Biochemistry</i> , <b>2007</b> , 46, 12081-90	2.3	23
55	Glycoprotein biosynthesis in a eukaryote lacking the membrane protein Rft1. <i>Journal of Biological Chemistry</i> , <b>2013</b> , 288, 20616-23	5.4	22
54	TOR complex 2-regulated protein kinase Ypk1 controls sterol distribution by inhibiting StARkin domain-containing proteins located at plasma membrane-endoplasmic reticulum contact sites. <i>Molecular Biology of the Cell</i> , <b>2018</b> , 29, 2128-2136	3.5	21
53	Yeast oxysterol-binding proteins: sterol transporters or regulators of cell polarization?. <i>Molecular and Cellular Biochemistry</i> , <b>2009</b> , 326, 9-13	4.2	21
52	Sterol gradients in cells. <i>Current Opinion in Cell Biology</i> , <b>2018</b> , 53, 37-43	9	21
51	A Fluorescence-based Assay of Phospholipid Scramblase Activity. <i>Journal of Visualized Experiments</i> , <b>2016</b> ,	1.6	20
50	Subcellular localization and targeting of N-acetylglucosaminyl phosphatidylinositol de-N-acetylase, the second enzyme in the glycosylphosphatidylinositol biosynthetic pathway. <i>Journal of Biological Chemistry</i> , <b>2004</b> , 279, 15743-51	5.4	19
49	Biosynthesis of the glycolipid membrane anchor of <i>Trypanosoma brucei</i> variant surface glycoproteins: involvement of Dol-P-Man. <i>Biochemical Society Transactions</i> , <b>1989</b> , 17, 746-748	5.1	19
48	Lipid topogenesis--35years on. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , <b>2016</b> , 1861, 757-766	5	18
47	Dysregulated calcium homeostasis prevents plasma membrane repair in Anoctamin 5/TMEM16E-deficient patient muscle cells. <i>Cell Death Discovery</i> , <b>2019</b> , 5, 118	6.9	17
46	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> , <b>2003</b> , 270, 4507-14		17
45	Biosynthesis of glycosylphosphatidylinositol anchors. <i>Methods in Enzymology</i> , <b>1995</b> , 250, 513-35	1.7	17
44	Light-independent phospholipid scramblase activity of bacteriorhodopsin from <i>Halobacterium salinarum</i> . <i>Scientific Reports</i> , <b>2017</b> , 7, 9522	4.9	14

43	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> , <b>2006</b> , 281, 38358-64	5.4	12
42	Photoaffinity labelling with P3-(4-azidoanilido)uridine 5'-triphosphate identifies Gpi3p as the UDP-GlcNAc-binding subunit of the enzyme that catalyses formation of GlcNAc-phosphatidylinositol, the first glycolipid intermediate in glycosylphosphatidylinositol	3.8	11
41	Glycolipid precursor of Trypanosoma brucei variant surface glycoproteins: incorporation of radiolabelled mannose and myristic acid in a cell-free system. <i>Biochemical Society Transactions</i> , <b>1988</b> , 16, 996-997	5.1	11
40	Scrambling of natural and fluorescently tagged phosphatidylinositol by reconstituted G protein-coupled receptor and TMEM16 scramblases. <i>Journal of Biological Chemistry</i> , <b>2018</b> , 293, 18318-18327	5.4	11
39	An engineered opsin monomer scrambles phospholipids. <i>Scientific Reports</i> , <b>2017</b> , 7, 16741	4.9	9
38	Endoplasmic reticulum localization of Gaa1 and PIG-T, subunits of the glycosylphosphatidylinositol transamidase complex. <i>Journal of Biological Chemistry</i> , <b>2005</b> , 280, 16402-9	5.4	8
37	Reconstitution of phospholipid flippase activity from E. coli inner membrane: a test of the protein translocon as a candidate flippase. <i>Biological Chemistry</i> , <b>2002</b> , 383, 1435-40	4.5	8
36	Exchange of water for sterol underlies sterol egress from a StARkin domain. <i>ELife</i> , <b>2019</b> , 8,	8.9	8
35	RFT1 Protein Affects Glycosylphosphatidylinositol (GPI) Anchor Glycosylation. <i>Journal of Biological Chemistry</i> , <b>2017</b> , 292, 1103-1111	5.4	7
34	Disulfide Bond Formation and N-Glycosylation Modulate Protein-Protein Interactions in GPI-Transamidase (GPIT). <i>Scientific Reports</i> , <b>2017</b> , 8, 45912	4.9	7
33	Structural mapping of fluorescently-tagged, functional nhTMEM16 scramblase in a lipid bilayer. <i>Journal of Biological Chemistry</i> , <b>2018</b> , 293, 12248-12258	5.4	7
32	Reconstitution and assay of biogenic membrane-derived phospholipid flippase activity in proteoliposomes. <i>Methods in Molecular Biology</i> , <b>2003</b> , 228, 271-9	1.4	7
31	Cell biology: Countercurrents in lipid flow. <i>Nature</i> , <b>2015</b> , 525, 191-2	50.4	6
30	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> , <b>1998</b> , 333 (Pt 2), 661-9	3.8	6
29	Complexity of the eukaryotic dolichol-linked oligosaccharide scramblase suggested by activity correlation profiling mass spectrometry. <i>Scientific Reports</i> , <b>2021</b> , 11, 1411	4.9	6
28	Measurement of Intracellular Sterol Transport in Yeast. <i>Methods in Molecular Biology</i> , <b>2019</b> , 1949, 115-136	13.6	5
27	Introduction: lipid transport--an overview. <i>Seminars in Cell and Developmental Biology</i> , <b>2002</b> , 13, 159-62	7.5	5
26	Soluble GPI8 restores glycosylphosphatidylinositol anchoring in a trypanosome cell-free system depleted of luminal endoplasmic reticulum proteins. <i>Biochemical Journal</i> , <b>2000</b> , 351, 717	3.8	5

25	Biosynthesis of Glycolipid Anchors in <i>Trypanosoma brucei</i> .. <i>Trends in Glycoscience and Glycotechnology</i> , <b>1991</b> , 3, 107-115	0.1	5
24	A protein pair with PIPs inside. <i>Structure</i> , <b>2013</b> , 21, 1070-1	5.2	4
23	Intramembrane and Intermembrane Lipid Transport <b>2016</b> , 415-436		3
22	A flip-flop switch in polarity signaling. <i>Developmental Cell</i> , <b>2007</b> , 13, 607-608	10.2	3
21	A PhotoClick cholesterol-based quantitative proteomics screen for cytoplasmic sterol-binding proteins in <i>Saccharomyces cerevisiae</i> . <i>Yeast</i> , <b>2020</b> , 37, 15-25	3.4	3
20	Structural biology: Lipid gymnastics. <i>Nature</i> , <b>2015</b> , 524, 420-2	50.4	2
19	Lipid modifications of proteins <b>2008</b> , 39-58		2
18	Endoplasmic reticulum phospholipid scramblase activity revealed after protein reconstitution into giant unilamellar vesicles containing a photostable lipid reporter. <i>Scientific Reports</i> , <b>2021</b> , 11, 14364	4.9	2
17	Elimination of GPI2 suppresses glycosylphosphatidylinositol GlcNAc transferase activity and alters GPI glycan modification in <i>Trypanosoma brucei</i> . <i>Journal of Biological Chemistry</i> , <b>2021</b> , 297, 100977	5.4	2
16	Chapter 8 Split Topology of GPI Biosynthesis. <i>The Enzymes</i> , <b>2009</b> , 151-158	2.3	1
15	Chapter 7 Attachment of a GPI Anchor to Protein. <i>The Enzymes</i> , <b>2009</b> , 26, 133-149	2.3	1
14	Glycosylphosphatidylinositol (GPI) Anchors <b>2004</b> , 308-311		1
13	Chapter 2 Lipid modifications of proteins. <i>New Comprehensive Biochemistry</i> , <b>2002</b> , 37-54		1
12	Functions of Glycosyl Phosphatidylinositols757-769		1
11	Rethinking opsins.. <i>Molecular Biology and Evolution</i> , <b>2022</b> ,	8.3	1
10	BIOSYNTHESIS OF GLYCOSYL-PHOSPHATIDYLINOSITOL <b>1992</b> , 155-169		1
9	Phylogenetic profiling identifies glucosyl-phosphoryl dolichol scramblase candidates		1
8	Unusual mode of dimerization of retinitis pigmentosa-associated F220C rhodopsin. <i>Scientific Reports</i> , <b>2021</b> , 11, 10536	4.9	1

7	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> , <b>2022</b> , 119, e2115083119	11.5	1
6	Identification of TbPBN1 in <i>Trypanosoma brucei</i> reveals a conserved heterodimeric architecture for glycosylphosphatidylinositol-mannosyltransferase I. <i>Molecular Microbiology</i> , <b>2021</b> ,	4.1	1
5	Nonenzymatic synthesis of anomerically pure, mannosyl-based molecular probes for scramblase identification studies. <i>Beilstein Journal of Organic Chemistry</i> , <b>2020</b> , 16, 1732-1739	2.5	0
4	flippant-An R package for the automated analysis of fluorescence-based scramblase assays. <i>BMC Bioinformatics</i> , <b>2017</b> , 18, 146	3.6	
3	Phospholipid Flip-Flop in Biogenic Membranes <b>2011</b> , 97-118		
2	A novel assay to measure scrambling of natural phospholipids in reconstituted proteoliposomes. <i>FASEB Journal</i> , <b>2018</b> , 32, 815.7	0.9	
1	Biochemical reconstitution and resolution of lipid flippase activities required for protein glycosylation in the ER. <i>FASEB Journal</i> , <b>2012</b> , 26, 349.2	0.9	