Daniel N Hebert

List of Publications by Year
in descending order

69 papers	5,236 citations	136950 32 h-index	114465 63 g-index
81 all docs	81 docs citations	81 times ranked	5541 citing authors

#	Article	IF	Citations
1	Carbohydrates Direct the Maturation and Trafficking of Glycoproteins in the Secretory Pathway. , 2022, , .		0
2	The Role of EndoplasmicÂReticulum Chaperones in Protein Folding and Quality Control. Progress in Molecular and Subcellular Biology, 2021, 59, 27-50.	1.6	10
3	In Support of Simian Polyomavirus 40 VP4 as a Later Expressed Viroporin. MSphere, 2020, 5, .	2.9	1
4	Endoplasmic reticulum transmembrane protein TMTC3 contributes to O-mannosylation of E-cadherin, cellular adherence, and embryonic gastrulation. Molecular Biology of the Cell, 2020, 31, 167-183.	2.1	21
5	Quantitative glycoproteomics reveals cellular substrate selectivity of the ER protein quality control sensors UGGT1 and UGGT2. ELife, 2020, 9, .	6.0	31
6	Proper secretion of the serpin antithrombin relies strictly on thiol-dependent quality control. Journal of Biological Chemistry, 2019, 294, 18992-19011.	3.4	8
7	Protein Quality Control in the Endoplasmic Reticulum. Protein Journal, 2019, 38, 317-329.	1.6	86
8	TPR-containing proteins control protein organization and homeostasis for the endoplasmic reticulum. Critical Reviews in Biochemistry and Molecular Biology, 2019, 54, 103-118.	5.2	24
9	Activating and Repressing IRE1Î±: The Hsp47 and BiP Tug of War. Molecular Cell, 2018, 69, 159-160.	9.7	8
10	EDEM1's mannosidase-like domain binds ERAD client proteins in a redox-sensitive manner and possesses catalytic activity. Journal of Biological Chemistry, 2018, 293, 13932-13945.	3.4	29
11	Expression and Purification of Active Recombinant Human Alpha-1 Antitrypsin (AAT) from Escherichia coli. Methods in Molecular Biology, 2017, 1639, 195-209.	0.9	12
12	Analysis of Disulfide Bond Formation. Current Protocols in Protein Science, 2017, 90, 14.1.1-14.1.21.	2.8	19
13	Nâ€Glycanâ€based <scp>ER</scp> Molecular Chaperone and Protein Quality Control System: The Calnexin Binding Cycle. Traffic, 2016, 17, 308-326.	2.7	136
14	Cellular folding pathway of a metastable serpin. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 6484-6489.	7.1	24
15	Division of Labor: ER-Resident BiP Co-Chaperones Match Substrates to Fates Based on Specific Binding Sequences. Molecular Cell, 2016, 63, 721-723.	9.7	2
16	Reglucosylation by UDP-glucose:glycoprotein glucosyltransferase 1 delays glycoprotein secretion but not degradation. Molecular Biology of the Cell, 2015, 26, 390-405.	2.1	29
17	N-linked sugar-regulated protein folding and quality control in the ER. Seminars in Cell and Developmental Biology, 2015, 41, 79-89.	5.0	194
18	TMTC1 and TMTC2 Are Novel Endoplasmic Reticulum Tetratricopeptide Repeat-containing Adapter Proteins Involved in Calcium Homeostasis. Journal of Biological Chemistry, 2014, 289, 16085-16099.	3.4	56

#	Article	IF	Citations
19	The intrinsic and extrinsic effects of N-linked glycans on glycoproteostasis. Nature Chemical Biology, 2014, 10, 902-910.	8.0	166
20	Chaperones of the Endoplasmic Reticulum Associated Degradation (ERAD) Pathway. , 2014, , 273-302.		0
21	Protein Folding in the Endoplasmic Reticulum. Cold Spring Harbor Perspectives in Biology, 2013, 5, a013201-a013201.	5.5	392
22	SV40 Late Protein VP4 Forms Toroidal Pores To Disrupt Membranes for Viral Release. Biochemistry, 2013, 52, 3939-3948.	2.5	29
23	The Viroporin Activity of the Minor Structural Proteins VP2 and VP3 Is Required for SV40 Propagation. Journal of Biological Chemistry, 2013, 288, 2510-2520.	3.4	23
24	Viroporins Customize Host Cells for Efficient Viral Propagation. DNA and Cell Biology, 2013, 32, 557-564.	1.9	27
25	The Simian Virus 40 Late Viral Protein VP4 Disrupts the Nuclear Envelope for Viral Release. Journal of Virology, 2012, 86, 3180-3192.	3.4	21
26	An MBoC Favorite: Malectin: a novel carbohydrate-binding protein of the endoplasmic reticulum and a candidate player in the early steps of protein N-glycosylation. Molecular Biology of the Cell, 2012, 23, 2236-2236.	2.1	3
27	You Got to Know When to Hold (or Unfold) â€˜Emâ€¦. Molecular Cell, 2012, 48, 3-4.	9.7	2
28	Flagging and docking: dual roles for N-glycans in protein quality control and cellular proteostasis. Trends in Biochemical Sciences, 2012, 37, 404-410.	7.5	81
29	Characterization of Early EDEM1 Protein Maturation Events and Their Functional Implications. Journal of Biological Chemistry, 2011, 286, 24906-24915.	3.4	37
30	The SV40 Late Protein VP4 Is a Viroporin that Forms Pores to Disrupt Membranes for Viral Release. PLoS Pathogens, 2011, 7, e1002116.	4.7	43
31	Lectin chaperones help direct the maturation of glycoproteins in the endoplasmic reticulum. Biochimica Et Biophysica Acta - Molecular Cell Research, 2010, 1803, 684-693.	4.1	65
32	Sorting things out through endoplasmic reticulum quality control. Molecular Membrane Biology, 2010, 27, 412-427.	2.0	19
33	The role of UDP-Glc:glycoprotein glucosyltransferase 1 in the maturation of an obligate substrate prosaposin. Journal of Cell Biology, 2010, 189, 829-841.	5.2	37
34	ERAD substrates: Which way out?. Seminars in Cell and Developmental Biology, 2010, 21, 526-532.	5.0	102
35	Small Molecule Targets Env for Endoplasmic Reticulum-Associated Protein Degradation and Inhibits Human Immunodeficiency Virus Type 1 Propagation. Journal of Virology, 2009, 83, 10075-10084.	3.4	10
36	EDEM1 Recognition and Delivery of Misfolded Proteins to the SEL1L-Containing ERAD Complex. Molecular Cell, 2009, 34, 627-633.	9.7	122

#	Article	IF	Citations
37	The Molecular Dating Game: An Antibody Heavy Chain Hangs Loose with a Chaperone while Waiting for Its Life Partner. Molecular Cell, 2009, 34, 635-636.	9.7	3
38	Sweet bays of ERAD. Trends in Biochemical Sciences, 2008, 33, 298-300.	7.5	13
39	The Cotranslational Maturation Program for the Type II Membrane Glycoprotein Influenza Neuraminidase. Journal of Biological Chemistry, 2008, 283, 33826-33837.	3.4	48
40	A cell-based reglucosylation assay demonstrates the role of GT1 in the quality control of a maturing glycoprotein. Journal of Cell Biology, 2008, 181, 309-320.	5.2	37
41	A Very Late Viral Protein Triggers the Lytic Release of SV40. PLoS Pathogens, 2007, 3, e98.	4.7	66
42	EDEM1 reveals a quality control vesicular transport pathway out of the endoplasmic reticulum not involving the COPII exit sites. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 4407-4412.	7.1	80
43	Calnexin, Calreticulin, and Their Associated Oxidoreductase ERp57. The Enzymes, 2007, 25, 275-305.	1.7	0
44	In and Out of the ER: Protein Folding, Quality Control, Degradation, and Related Human Diseases. Physiological Reviews, 2007, 87, 1377-1408.	28.8	563
45	Cotranslocational Degradation: Utilitarianism in the ER Stress Response. Molecular Cell, 2006, 23, 773-775.	9.7	19
46	SV40 VP2 and VP3 Insertion into ER Membranes Is Controlled by the Capsid Protein VP1: Implications for DNA Translocation out of the ER. Molecular Cell, 2006, 24, 955-966.	9.7	94
47	Tyrosinase maturation through the mammalian secretory pathway: bringing color to life. Pigment Cell & Melanoma Research, 2006, 19, 3-18.	3.6	197
48	Simian Virus 40 Late Proteins Possess Lytic Properties That Render Them Capable of Permeabilizing Cellular Membranes. Journal of Virology, 2006, 80, 6575-6587.	3.4	38
49	The ER glucosyltransferase reglucosylates nonâ€native and slow folding domains during glycoprotein maturation. FASEB Journal, 2006, 20, A915.	0.5	0
50	The protein quality control receptor EDEM uses a novel vesicle transport pathway to exit the ERÎ±Î±. FASEB Journal, 2006, 20, A914.	0.5	0
51	The Cotranslational Maturation of the Type I Membrane Glycoprotein Tyrosinase: The Heat Shock Protein 70 System Hands Off to the Lectin-based Chaperone System. Molecular Biology of the Cell, 2005, 16, 3740-3752.	2.1	62
52	The glycan code of the endoplasmic reticulum: asparagine-linked carbohydrates as protein maturation and quality-control tags. Trends in Cell Biology, 2005, 15, 364-370.	7.9	227
53	Yos9p: A Sweet-Toothed Bouncer of the Secretory Pathway. Molecular Cell, 2005, 19, 717-719.	9.7	11
54	Carbohydrates act as sorting determinants in ER-associated degradation of tyrosinase. Journal of Cell Science, 2004, 117, 2937-2949.	2.0	62

#	Article	IF	Citations
55	N-Linked Carbohydrates Act as Lumenal Maturation and Quality Control Protein Tags. Cell Biochemistry and Biophysics, 2004, 41, 113-138.	1.8	8
56	EDEM an ER quality control receptor. Nature Structural and Molecular Biology, 2003, 10, 319-321.	8.2	34
57	Protein Translocons. Cell, 2003, 112, 491-505.	28.9	226
58	N-Linked Glycans Direct the Cotranslational Folding Pathway of Influenza Hemagglutinin. Molecular Cell, 2003, 11, 79-90.	9.7	259
59	Tyrosinase Maturation and Oligomerization in the Endoplasmic Reticulum Require a Melanocyte-specific Factor. Journal of Biological Chemistry, 2003, 278, 25607-25617.	3.4	33
60	Abnormal Acidification of Melanoma Cells Induces Tyrosinase Retention in the Early Secretory Pathway. Journal of Biological Chemistry, 2002, 277, 14821-14828.	3.4	134
61	Coexpression of Wild-Type Tyrosinase Enhances Maturation of Temperature-Sensitive Tyrosinase Mutants. Journal of Investigative Dermatology, 2002, 119, 481-488.	0.7	28
62	Translation Rate of Human Tyrosinase Determines ItsN-Linked Glycosylation Level. Journal of Biological Chemistry, 2001, 276, 5924-5931.	3.4	70
63	Proper Folding and Endoplasmic Reticulum to Golgi Transport of Tyrosinase Are Induced by Its Substrates, DOPA and Tyrosine. Journal of Biological Chemistry, 2001, 276, 11933-11938.	3.4	80
64	Protein unfolding: mitochondria offer a helping hand. , 1999, 6, 1084-1085.		5
65	Protein folding and maturation in a cell-free system. Biochemistry and Cell Biology, 1998, 76, 867-873.	2.0	11
66	The Number and Location of Glycans on Influenza Hemagglutinin Determine Folding and Association with Calnexin and Calreticulin. Journal of Cell Biology, 1997, 139, 613-623.	5.2	250
67	Analysis of Disulfide Bond Formation. Current Protocols in Protein Science, 1996, 3, Unit14.1.	2.8	5
68	Glycan-dependent and -independent Association of Vesicular Stomatitis Virus G Protein with Calnexin. Journal of Biological Chemistry, 1996, 271, 14280-14284.	3.4	144
69	Glucose trimming and reglucosylation determine glycoprotein association with calnexin in the endoplasmic reticulum. Cell, 1995, 81, 425-433.	28.9	556