# 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 | In and Out of the ER: Protein Folding, Quality Control, Degradation, and Related Human Diseases. Physiological Reviews, 2007, 87, 1377-1408. | 28.8 | 563 |
| 2 | Glucose trimming and reglucosylation determine glycoprotein association with calnexin in the endoplasmic reticulum. Cell, 1995, 81, 425-433. | 28.9 | 556 |
| 3 | Protein Folding in the Endoplasmic Reticulum. Cold Spring Harbor Perspectives in Biology, 2013, 5, a013201-a013201. | 5.5 | 392 |
| 4 | N-Linked Glycans Direct the Cotranslational Folding Pathway of Influenza Hemagglutinin. Molecular Cell, 2003, 11, 79-90. | 9.7 | 259 |
| 5 | 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 |
| 6 | 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 |
| 7 | Protein Translocons. Cell, 2003, 112, 491-505. | 28.9 | 226 |
| 8 | Tyrosinase maturation through the mammalian secretory pathway: bringing color to life. Pigment Cell & Melanoma Research, 2006, 19, 3-18. | 3.6 | 197 |
| 9 | 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 |
| 10 | The intrinsic and extrinsic effects of N-linked glycans on glycoproteostasis. Nature Chemical Biology, 2014, 10, 902-910. | 8.0 | 166 |
| 11 | Glycan-dependent and -independent Association of Vesicular Stomatitis Virus G Protein with Calnexin. Journal of Biological Chemistry, 1996, 271, 14280-14284. | 3.4 | 144 |
| 12 | 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 |
| 13 | Abnormal Acidification of Melanoma Cells Induces Tyrosinase Retention in the Early Secretory Pathway. Journal of Biological Chemistry, 2002, 277, 14821-14828. | 3.4 | 134 |
| 14 | EDEM1 Recognition and Delivery of Misfolded Proteins to the SEL1L-Containing ERAD Complex. Molecular Cell, 2009, 34, 627-633. | 9.7 | 122 |
| 15 | ERAD substrates: Which way out?. Seminars in Cell and Developmental Biology, 2010, 21, 526-532. | 5.0 | 102 |
| 16 | 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 |
| 17 | Protein Quality Control in the Endoplasmic Reticulum. Protein Journal, 2019, 38, 317-329. | 1.6 | 86 |
| 18 | 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 |

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|---|---|---|---|
| 19 | 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 |
| 20 | 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 |
| 21 | Translation Rate of Human Tyrosinase Determines ItsN-Linked Glycosylation Level. Journal of Biological Chemistry, 2001, 276, 5924-5931. | 3.4 | 70 |
| 22 | A Very Late Viral Protein Triggers the Lytic Release of SV40. PLoS Pathogens, 2007, 3, e98. | 4.7 | 66 |
| 23 | 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 |
| 24 | Carbohydrates act as sorting determinants in ER-associated degradation of tyrosinase. Journal of Cell Science, 2004, 117, 2937-2949. | 2.0 | 62 |
| 25 | 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 |
| 26 | 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 |
| 27 | The Cotranslational Maturation Program for the Type II Membrane Glycoprotein Influenza Neuraminidase. Journal of Biological Chemistry, 2008, 283, 33826-33837. | 3.4 | 48 |
| 28 | 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 |
| 29 | 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 |
| 30 | 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 |
| 31 | 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 |
| 32 | Characterization of Early EDEM1 Protein Maturation Events and Their Functional Implications. Journal of Biological Chemistry, 2011, 286, 24906-24915. | 3.4 | 37 |
| 33 | EDEM an ER quality control receptor. Nature Structural and Molecular Biology, 2003, 10, 319-321. | 8.2 | 34 |
| 34 | Tyrosinase Maturation and Oligomerization in the Endoplasmic Reticulum Require a Melanocyte-specific Factor. Journal of Biological Chemistry, 2003, 278, 25607-25617. | 3.4 | 33 |
| 35 | Quantitative glycoproteomics reveals cellular substrate selectivity of the ER protein quality control sensors UGGT1 and UGGT2. ELife, 2020, 9, . | 6.0 | 31 |
| 36 | SV40 Late Protein VP4 Forms Toroidal Pores To Disrupt Membranes for Viral Release. Biochemistry, 2013, 52, 3939-3948. | 2.5 | 29 |

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|---|---|---|---|
| 37 | 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 |
| 38 | 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 |
| 39 | Coexpression of Wild-Type Tyrosinase Enhances Maturation of Temperature-Sensitive Tyrosinase Mutants. Journal of Investigative Dermatology, 2002, 119, 481-488. | 0.7 | 28 |
| 40 | Viroporins Customize Host Cells for Efficient Viral Propagation. DNA and Cell Biology, 2013, 32, 557-564. | 1.9 | 27 |
| 41 | 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 |
| 42 | 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 |
| 43 | 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 |
| 44 | 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 |
| 45 | 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 |
| 46 | Cotranslocational Degradation: Utilitarianism in the ER Stress Response. Molecular Cell, 2006, 23, 773-775. | 9.7 | 19 |
| 47 | Sorting things out through endoplasmic reticulum quality control. Molecular Membrane Biology, 2010, 27, 412-427. | 2.0 | 19 |
| 48 | Analysis of Disulfide Bond Formation. Current Protocols in Protein Science, 2017, 90, 14.1.1-14.1.21. | 2.8 | 19 |
| 49 | Sweet bays of ERAD. Trends in Biochemical Sciences, 2008, 33, 298-300. | 7.5 | 13 |
| 50 | 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 |
| 51 | Protein folding and maturation in a cell-free system. Biochemistry and Cell Biology, 1998, 76, 867-873. | 2.0 | 11 |
| 52 | Yos9p: A Sweet-Toothed Bouncer of the Secretory Pathway. Molecular Cell, 2005, 19, 717-719. | 9.7 | 11 |
| 53 | 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 |
| 54 | The Role of EndoplasmicÂReticulum Chaperones in Protein Folding and Quality Control. Progress in Molecular and Subcellular Biology, 2021, 59, 27-50. | 1.6 | 10 |

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|---|---|---|---|
| 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 | Activating and Repressing IRE1Î±: The Hsp47 and BiP Tug of War. Molecular Cell, 2018, 69, 159-160. | 9.7 | 8 |
| 57 | Proper secretion of the serpin antithrombin relies strictly on thiol-dependent quality control. Journal of Biological Chemistry, 2019, 294, 18992-19011. | 3.4 | 8 |
| 58 | Analysis of Disulfide Bond Formation. Current Protocols in Protein Science, 1996, 3, Unit14.1. | 2.8 | 5 |
| 59 | Protein unfolding: mitochondria offer a helping hand. , 1999, 6, 1084-1085. | | 5 |
| 60 | 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 |
| 61 | 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 |
| 62 | You Got to Know When to Hold (or Unfold) â€˜Emâ€¦. Molecular Cell, 2012, 48, 3-4. | 9.7 | 2 |
| 63 | 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 |
| 64 | In Support of Simian Polyomavirus 40 VP4 as a Later Expressed Viroporin. MSphere, 2020, 5, . | 2.9 | 1 |
| 65 | Calnexin, Calreticulin, and Their Associated Oxidoreductase ERp57. The Enzymes, 2007, 25, 275-305. | 1.7 | 0 |
| 66 | The ER glucosyltransferase reglucosylates nonâ€native and slow folding domains during glycoprotein maturation. FASEB Journal, 2006, 20, A915. | 0.5 | 0 |
| 67 | 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 |
| 68 | Chaperones of the Endoplasmic Reticulum Associated Degradation (ERAD) Pathway. , 2014, , 273-302. | | 0 |
| 69 | Carbohydrates Direct the Maturation and Trafficking of Glycoproteins in the Secretory Pathway. , 2022, , . | | 0 |