

# Ellen G Duysen

## List of Publications by Year in descending order

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59  
papers

2,370  
citations

218677

26  
h-index

214800

47  
g-index

63  
all docs

63  
docs citations

63  
times ranked

2716  
citing authors

#	ARTICLE	IF	CITATIONS
1	Butyrylcholinesterase, paraoxonase, and albumin esterase, but not carboxylesterase, are present in human plasma. <i>Biochemical Pharmacology</i> , 2005, 70, 1673-1684.	4.4	478
2	Albumin, a New Biomarker of Organophosphorus Toxicant Exposure, Identified by Mass Spectrometry. <i>Toxicological Sciences</i> , 2004, 83, 303-312.	3.1	149
3	Excessive hippocampal acetylcholine levels in acetylcholinesterase-deficient mice are moderated by butyrylcholinesterase activity. <i>Journal of Neurochemistry</i> , 2007, 100, 1421-1429.	3.9	133
4	Rescue of the acetylcholinesterase knockout mouse by feeding a liquid diet; phenotype of the adult acetylcholinesterase deficient mouse. <i>Developmental Brain Research</i> , 2002, 137, 43-54.	1.7	118
5	The Butyrylcholinesterase Knockout Mouse as a Model for Human Butyrylcholinesterase Deficiency. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2008, 324, 1146-1154.	2.5	93
6	Wild-Type and A328W Mutant Human Butyrylcholinesterase Tetramers Expressed in Chinese Hamster Ovary Cells Have a 16-Hour Half-Life in the Circulation and Protect Mice from Cocaine Toxicity. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2002, 302, 751-758.	2.5	85
7	Sensitivity of butyrylcholinesterase knockout mice to ( $\alpha$ )-huperzine A and donepezil suggests humans with butyrylcholinesterase deficiency may not tolerate these Alzheimer's disease drugs and indicates butyrylcholinesterase function in neurotransmission. <i>Toxicology</i> , 2007, 233, 60-69.	4.2	85
8	Mice Treated with Chlorpyrifos or Chlorpyrifos Oxon Have Organophosphorylated Tubulin in the Brain and Disrupted Microtubule Structures, Suggesting a Role for Tubulin in Neurotoxicity Associated with Exposure to Organophosphorus Agents. <i>Toxicological Sciences</i> , 2010, 115, 183-193.	3.1	82
9	Regulation of muscarinic acetylcholine receptor function in acetylcholinesterase knockout mice. <i>Pharmacology Biochemistry and Behavior</i> , 2003, 74, 977-986.	2.9	65
10	The butyrylcholinesterase knockout mouse is obese on a high-fat diet. <i>Chemico-Biological Interactions</i> , 2008, 175, 88-91.	4.0	62
11	Altered Striatal Function and Muscarinic Cholinergic Receptors in Acetylcholinesterase Knockout Mice. <i>Molecular Pharmacology</i> , 2003, 64, 1309-1316.	2.3	60
12	Production of ES1 Plasma Carboxylesterase Knockout Mice for Toxicity Studies. <i>Chemical Research in Toxicology</i> , 2011, 24, 1891-1898.	3.3	56
13	Reduced acetylcholine receptor density, morphological remodeling, and butyrylcholinesterase activity can sustain muscle function in acetylcholinesterase knockout mice. <i>Muscle and Nerve</i> , 2004, 30, 317-327.	2.2	49
14	Effects of Rivastigmine and Donepezil on Brain Acetylcholine Levels in Acetylcholinesterase-Deficient Mice. <i>Journal of Pharmacy and Pharmaceutical Sciences</i> , 2009, 12, 79.	2.1	45
15	Mass spectrometry identifies multiple organophosphorylated sites on tubulin. <i>Toxicology and Applied Pharmacology</i> , 2009, 240, 149-158.	2.8	43
16	Gene-Delivered Butyrylcholinesterase Is Prophylactic against the Toxicity of Chemical Warfare Nerve Agents and Organophosphorus Compounds. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2011, 337, 92-101.	2.5	39
17	Glucocorticoid Mediation of Dietary Energy Restriction Inhibition of Mouse Skin Carcinogenesis. <i>Journal of Nutrition</i> , 1999, 129, 571S-574S.	2.9	38
18	Impaired formation of the inner retina in an AChE knockout mouse results in degeneration of all photoreceptors. <i>European Journal of Neuroscience</i> , 2004, 20, 2953-2962.	2.6	38

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19	Visualization of exogenous delivery of nanoformulated butyrylcholinesterase to the central nervous system. <i>Chemico-Biological Interactions</i> , 2010, 187, 295-298.	4.0	35
20	Altered hippocampal muscarinic receptors in acetylcholinesterase-deficient mice. <i>Annals of Neurology</i> , 2003, 53, 788-796.	5.3	34
21	Production of the Butyrylcholinesterase Knockout Mouse. <i>Journal of Molecular Neuroscience</i> , 2006, 30, 193-196.	2.3	34
22	Resistance to organophosphorus agent toxicity in transgenic mice expressing the G117H mutant of human butyrylcholinesterase. <i>Toxicology and Applied Pharmacology</i> , 2004, 196, 356-366.	2.8	33
23	Differential sensitivity of plasma carboxylesterase-null mice to parathion, chlorpyrifos and chlorpyrifos oxon, but not to diazinon, dichlorvos, diisopropylfluorophosphate, cresyl saligenin phosphate, cyclosarin thiocholine, tabun thiocholine, and carbofuran. <i>Chemico-Biological Interactions</i> , 2012, 195, 189-198.	4.0	32
24	The butyrylcholinesterase knockout mouse a research tool in the study of drug sensitivity, bio-distribution, obesity and Alzheimer's disease. <i>Expert Opinion on Drug Metabolism and Toxicology</i> , 2009, 5, 523-528.	3.3	31
25	Increased Hepatotoxicity and Cardiac Fibrosis in Cocaine-treated Butyrylcholinesterase Knockout Mice. <i>Basic and Clinical Pharmacology and Toxicology</i> , 2008, 103, 514-521.	2.5	30
26	Choline availability and acetylcholine synthesis in the hippocampus of acetylcholinesterase-deficient mice. <i>Neurochemistry International</i> , 2008, 52, 972-978.	3.8	28
27	Life without acetylcholinesterase: the implications of cholinesterase inhibitor toxicity in AChE-knockout mice. <i>Environmental Toxicology and Pharmacology</i> , 2005, 19, 463-469.	4.0	22
28	Study of acetylcholinesterase activity and apoptosis in SH-SY5Y cells and mice exposed to ethanol. <i>Toxicology</i> , 2017, 384, 33-39.	4.2	21
29	Adenovirus-mediated gene transfer of human butyrylcholinesterase results in persistent high-level transgene expression in vivo. <i>Chemico-Biological Interactions</i> , 2008, 175, 327-331.	4.0	20
30	Virtual Outreach: Using Social Media to Reach Spanish-speaking Agricultural Workers during the COVID-19 Pandemic. <i>Journal of Agromedicine</i> , 2020, 25, 353-356.	1.5	20
31	Phenotype Comparison of Three Acetylcholinesterase Knockout Strains. <i>Journal of Molecular Neuroscience</i> , 2006, 30, 91-92.	2.3	19
32	Dietary energy restriction in the SENCAR mouse: Elevation of glucocorticoid hormone levels but no change in distribution of glucocorticoid receptor in epidermal cells. <i>Molecular Carcinogenesis</i> , 1998, 21, 62-69.	2.7	17
33	Contributions of selective knockout studies to understanding cholinesterase disposition and function. <i>Chemico-Biological Interactions</i> , 2010, 187, 72-77.	4.0	16
34	Occupational stress among farm and ranch operators in the midwestern United States. <i>BMC Public Health</i> , 2021, 21, 2076.	2.9	16
35	Prolonged Toxic Effects After Cocaine Challenge in Butyrylcholinesterase/Plasma Carboxylesterase Double Knockout Mice: A Model for Butyrylcholinesterase-Deficient Humans. <i>Drug Metabolism and Disposition</i> , 2011, 39, 1321-1323.	3.3	15
36	Induction of plasma acetylcholinesterase activity in mice challenged with organophosphorus poisons. <i>Toxicology and Applied Pharmacology</i> , 2011, 255, 214-220.	2.8	15

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37	Protection from the toxicity of diisopropylfluorophosphate by adeno-associated virus expressing acetylcholinesterase. <i>Toxicology and Applied Pharmacology</i> , 2006, 214, 152-165.	2.8	14
38	Mice treated with a nontoxic dose of chlorpyrifos oxon have diethoxyphosphotyrosine labeled proteins in blood up to 4 days post exposure, detected by mass spectrometry. <i>Toxicology</i> , 2012, 295, 15-22.	4.2	14
39	Comparison of agricultural injuries reported in the media and census of fatal occupational injuries. <i>Journal of Agromedicine</i> , 2019, 24, 279-287.	1.5	14
40	Adenovirus-Transduced Human Butyrylcholinesterase in Mouse Blood Functions as a Bioscavenger of Chemical Warfare Nerve Agents. <i>Molecular Pharmacology</i> , 2009, 76, 612-617.	2.3	13
41	Knowledge, Attitudes, and Practices for Respiratory and Hearing Health among Midwestern Farmers. <i>Public Health Nursing</i> , 2017, 34, 348-358.	1.5	13
42	Whole body and tissue imaging of the butyrylcholinesterase knockout mouse injected with near infrared dye labeled butyrylcholinesterase. <i>Chemico-Biological Interactions</i> , 2008, 175, 119-124.	4.0	12
43	Role of Acetylcholinesterase on the Structure and Function of Cholinergic Synapses: Insights Gained from Studies on Knockout Mice. <i>Cellular and Molecular Neurobiology</i> , 2011, 31, 909-920.	3.3	12
44	Drastic decrease in dopamine receptor levels in the striatum of acetylcholinesterase knock-out mouse. <i>Chemico-Biological Interactions</i> , 2010, 183, 194-201.	4.0	11
45	Polyclonal Antibody to Soman-Tyrosine. <i>Chemical Research in Toxicology</i> , 2013, 26, 584-592.	3.3	11
46	Screening assays for cholinesterases resistant to inhibition by organophosphorus toxicants. <i>Analytical Biochemistry</i> , 2004, 329, 131-138.	2.4	10
47	Delivery of human acetylcholinesterase by adeno-associated virus to the acetylcholinesterase knockout mouse. <i>Chemico-Biological Interactions</i> , 2005, 157-158, 71-78.	4.0	10
48	Adaptation to excess acetylcholine by downregulation of adrenoceptors and muscarinic receptors in lungs of acetylcholinesterase knockout mice. <i>Naunyn-Schmiedeberg's Archives of Pharmacology</i> , 2007, 376, 83-92.	3.0	10
49	Social Marketing Campaign Promoting the Use of Respiratory Protection Devices Among Farmers. <i>Journal of Agromedicine</i> , 2014, 19, 316-324.	1.5	10
50	Identifying Topics and Dissemination Methods for Agricultural Safety and Health Messages. <i>Safety</i> , 2017, 3, 3.	1.7	9
51	Intrathecal delivery of fluorescent labeled butyrylcholinesterase to the brains of butyrylcholinesterase knock-out mice: Visualization and quantification of enzyme distribution in the brain. <i>NeuroToxicology</i> , 2009, 30, 386-392.	3.0	8
52	Induction of plasma acetylcholinesterase activity and apoptosis in mice treated with the organophosphorus toxicant, tri-o-cresyl phosphate. <i>Toxicology Research</i> , 2012, 1, 55-61.	2.1	8
53	Development of an Educational YouTube Channel: A Collaboration between U.S. Agricultural Safety and Health Centers. <i>Journal of Agromedicine</i> , 2021, 26, 75-84.	1.5	7
54	Identifying Safety Training Resource Needs in the Cattle Feeding Industry in the Midwestern United States. <i>Safety</i> , 2019, 5, 26.	1.7	6

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55	Early weaning and culling eradicated <i>Helicobacter hepaticus</i> from an acetylcholinesterase knockout 129S6/SvEvTac mouse colony. <i>Comparative Medicine</i> , 2002, 52, 461-6.	1.0	6
56	Assessment of tribal bison worker hazards using trusted research facilitators. <i>Journal of Agromedicine</i> , 2017, 22, 337-346.	1.5	3
57	Gene Transfer of Acetylcholinesterase Protects the Knockout Mouse From the Toxicity of DFP. <i>Journal of Molecular Neuroscience</i> , 2006, 30, 79-80.	2.3	2
58	Dietary energy restriction in the SENCAR mouse: Elevation of glucocorticoid hormone levels but no change in distribution of glucocorticoid receptor in epidermal cells. <i>Molecular Carcinogenesis</i> , 1998, 21, 62-69.	2.7	1
59	What we have learned from gene-targeted mice: acetylcholinesterase and butyrylcholinesterase knockouts. , 2006, , 113-124.		0