

# Tobias Hartmann

## List of Publications by Year in descending order

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118  
papers

8,765  
citations

38742

50  
h-index

43889

91  
g-index

123  
all docs

123  
docs citations

123  
times ranked

10548  
citing authors

#	ARTICLE	IF	CITATIONS
1	Distinct sites of intracellular production for Alzheimer's disease A $\beta$ 40/42 amyloid peptides. <i>Nature Medicine</i> , 1997, 3, 1016-1020.	30.7	716
2	Analysis of Heterogeneous A $\beta$ 4 Peptides in Human Cerebrospinal Fluid and Blood by a Newly Developed Sensitive Western Blot Assay. <i>Journal of Biological Chemistry</i> , 1996, 271, 22908-22914.	3.4	461
3	Aggregation promoting C-terminal truncation of $\alpha$ -synuclein is a normal cellular process and is enhanced by the familial Parkinson's disease-linked mutations. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005, 102, 2162-2167.	7.1	405
4	Regulation of cholesterol and sphingomyelin metabolism by amyloid- $\beta$ and presenilin. <i>Nature Cell Biology</i> , 2005, 7, 1118-1123.	10.3	404
5	Treatment with simvastatin in normocholesterolemic patients with Alzheimer's disease: A 26-week randomized, placebo-controlled, double-blind trial. <i>Annals of Neurology</i> , 2002, 52, 346-350.	5.3	372
6	TLR2 Is a Primary Receptor for Alzheimer's Amyloid $\beta$ Peptide To Trigger Neuroinflammatory Activation. <i>Journal of Immunology</i> , 2012, 188, 1098-1107.	0.8	346
7	World-Wide FINGERS Network: A global approach to risk reduction and prevention of dementia. <i>Alzheimer's and Dementia</i> , 2020, 16, 1078-1094.	0.8	257
8	Inhibition of Intracellular Cholesterol Transport Alters Presenilin Localization and Amyloid Precursor Protein Processing in Neuronal Cells. <i>Journal of Neuroscience</i> , 2002, 22, 1679-1689.	3.6	232
9	Altered Gut Microbiome Composition and Tryptic Activity of the 5xFAD Alzheimer's Mouse Model. <i>Journal of Alzheimer's Disease</i> , 2017, 56, 775-788.	2.6	230
10	Cerebrospinal fluid A $\beta$ 42 is increased early in sporadic Alzheimer's disease and declines with disease progression. <i>Annals of Neurology</i> , 1999, 45, 504-511.	5.3	224
11	Docosahexaenoic Acid Reduces Amyloid $\beta$ Production via Multiple Pleiotropic Mechanisms. <i>Journal of Biological Chemistry</i> , 2011, 286, 14028-14039.	3.4	201
12	Alzheimer's disease: the lipid connection. <i>Journal of Neurochemistry</i> , 2007, 103, 159-170.	3.9	178
13	24-month intervention with a specific multinutrient in people with prodromal Alzheimer's disease (LipiDiDiet): a randomised, double-blind, controlled trial. <i>Lancet Neurology</i> , The, 2017, 16, 965-975.	10.2	175
14	Non-A $\beta$ Component of Alzheimer's Disease Amyloid (NAC) Revisited. <i>American Journal of Pathology</i> , 1999, 155, 1173-1181.	3.8	173
15	Key Factors in Alzheimer's Disease: $\beta$ -Amyloid Precursor Protein Processing, Metabolism and Intra-neuronal Transport. <i>Brain Pathology</i> , 2001, 11, 1-11.	4.1	159
16	Cerebrospinal fluid 24S-hydroxycholesterol is increased in patients with Alzheimer's disease compared to healthy controls. <i>Neuroscience Letters</i> , 2002, 324, 83-85.	2.1	153
17	Neprilysin and A $\beta$ Clearance: Impact of the APP Intracellular Domain in NEP Regulation and Implications in Alzheimer's Disease. <i>Frontiers in Aging Neuroscience</i> , 2013, 5, 98.	3.4	129
18	Plant Sterols the Better Cholesterol in Alzheimer's Disease? A Mechanistical Study. <i>Journal of Neuroscience</i> , 2013, 33, 16072-16087.	3.6	111

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19	Independent Inhibition of Alzheimer Disease $\beta$ - and $\gamma$ -Secretase Cleavage by Lowered Cholesterol Levels. <i>Journal of Biological Chemistry</i> , 2008, 283, 11302-11311.	3.4	110
20	From brain to food: Analysis of phosphatidylcholins, lyso-phosphatidylcholins and phosphatidylcholinâ€plasmalogens derivates in Alzheimer's disease human post mortem brains and mice model via mass spectrometry. <i>Journal of Chromatography A</i> , 2011, 1218, 7713-7722.	3.7	100
21	Mean age of onset in familial Alzheimer's disease is determined by amyloid beta 42. <i>Neurobiology of Aging</i> , 2005, 26, 785-788.	3.1	99
22	Cholesterol impairs autophagy-mediated clearance of amyloid beta while promoting its secretion. <i>Autophagy</i> , 2018, 14, 1129-1154.	9.1	97
23	Dietary intake of plant sterols stably increases plant sterol levels in the murine brain. <i>Journal of Lipid Research</i> , 2012, 53, 726-735.	4.2	95
24	Locomotor activity and evoked dopamine release are reduced in mice overexpressing A30P-mutated human $\alpha$ -synuclein. <i>Neurobiology of Disease</i> , 2005, 20, 303-313.	4.4	93
25	Plasmalogen synthesis is regulated via alkylâ€dihydroxyacetonephosphateâ€synthase by amyloid precursor protein processing and is affected in Alzheimerâ€™s disease. <i>Journal of Neurochemistry</i> , 2011, 116, 916-925.	3.9	93
26	$\alpha$ -Synuclein accumulates in Lewy bodies in Parkinson's disease and dementia with Lewy bodies but not in Alzheimer's disease $\beta$ -amyloid plaque cores. <i>Neuroscience Letters</i> , 1999, 266, 213-216.	2.1	88
27	Cholesterol, $\beta$ and Alzheimer's disease. <i>Trends in Neurosciences</i> , 2001, 24, S45-S48.	8.6	88
28	Ibuprofen Decreases Cytokine-Induced Amyloid Beta Production in Neuronal Cells. <i>Neurobiology of Disease</i> , 2001, 8, 1094-1101.	4.4	86
29	Unfolded protein response signaling by transcription factor XBPâ€1 regulates ADAM10 and is affected in Alzheimer's disease. <i>FASEB Journal</i> , 2014, 28, 978-997.	0.5	86
30	Increased expression of the $\gamma$ -secretase components presenilinâ€1 and nicastrin in activated astrocytes and microglia following traumatic brain injury. <i>Glia</i> , 2008, 56, 552-567.	4.9	84
31	Alzheimer's disease pathology is attenuated in a $\text{CD}38$ -deficient mouse model. <i>Annals of Neurology</i> , 2015, 78, 88-103.	5.3	81
32	Cholesterol depletion reduces aggregation of amyloid-beta peptide in hippocampal neurons. <i>Neurobiology of Disease</i> , 2006, 23, 573-577.	4.4	80
33	36â€month LipiDiDiet multinutrient clinical trial in prodromal Alzheimer's disease. <i>Alzheimer's and Dementia</i> , 2021, 17, 29-40.	0.8	77
34	APP Function and Lipids: A Bidirectional Link. <i>Frontiers in Molecular Neuroscience</i> , 2017, 10, 63.	2.9	76
35	The Impact of Vitamin E and Other Fat-Soluble Vitamins on Alzheimer's Disease. <i>International Journal of Molecular Sciences</i> , 2016, 17, 1785.	4.1	75
36	Amyloid beta as a regulator of lipid homeostasis. <i>Trends in Molecular Medicine</i> , 2007, 13, 337-344.	6.7	72

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37	Trans fatty acids enhance amyloidogenic processing of the Alzheimer amyloid precursor protein (APP). <i>Journal of Nutritional Biochemistry</i> , 2012, 23, 1214-1223.	4.2	69
38	Reduced cerebrospinal fluid estradiol levels are associated with increased $\beta$ -amyloid levels in female patients with Alzheimer's disease. <i>Neuroscience Letters</i> , 2001, 307, 122-124.	2.1	68
39	Vitamin D and Its Analogues Decrease Amyloid- $\beta$ ( $A\beta$ ) Formation and Increase $A\beta$ -Degradation. <i>International Journal of Molecular Sciences</i> , 2017, 18, 2764.	4.1	68
40	Quantification of Alzheimer Amyloid $\beta$ Peptides Ending at Residues 40 and 42 by Novel ELISA Systems. <i>Molecular Medicine</i> , 2000, 6, 291-302.	4.4	66
41	Role of amyloid beta in lipid homeostasis. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2010, 1801, 966-974.	2.4	65
42	Omega-3 fatty acids, lipids, and apoE lipidation in Alzheimer's disease: a rationale for multi-nutrient dementia prevention. <i>Journal of Lipid Research</i> , 2017, 58, 2083-2101.	4.2	65
43	The Impact of Cholesterol, DHA, and Sphingolipids on Alzheimer's Disease. <i>BioMed Research International</i> , 2013, 2013, 1-16.	1.9	64
44	Amyloid Precursor Protein (APP) Mediated Regulation of Ganglioside Homeostasis Linking Alzheimer's Disease Pathology with Ganglioside Metabolism. <i>PLoS ONE</i> , 2012, 7, e34095.	2.5	61
45	Plasmalogens Inhibit APP Processing by Directly Affecting $\beta$ -Secretase Activity in Alzheimer's Disease. <i>Scientific World Journal</i> , The, 2012, 2012, 1-15.	2.1	61
46	Neural expression profile of $\beta$ -synuclein in developing human cortex. <i>NeuroReport</i> , 1999, 10, 2799-2803.	1.2	60
47	The Isoform-Specific Pathological Effects of ApoE4 in vivo are Prevented by a Fish Oil (DHA) Diet and are Modified by Cholesterol. <i>Journal of Alzheimer's Disease</i> , 2012, 28, 667-683.	2.6	59
48	The role of APP proteolytic processing in lipid metabolism. <i>Experimental Brain Research</i> , 2012, 217, 365-375.	1.5	59
49	Tenascin-C deficiency ameliorates Alzheimer's disease-related pathology in mice. <i>Neurobiology of Aging</i> , 2013, 34, 2389-2398.	3.1	58
50	Nutrition and the ageing brain: Moving towards clinical applications. <i>Ageing Research Reviews</i> , 2020, 62, 101079.	10.9	56
51	APP intracellular domain derived from amyloidogenic $\beta$ - and $\gamma$ -secretase cleavage regulates neprilysin expression. <i>Frontiers in Aging Neuroscience</i> , 2015, 7, 77.	3.4	53
52	Apolipoprotein E- $\epsilon$ A allele and Alzheimer's disease. <i>Lancet</i> , The, 1993, 342, 1308-1309.	18.7	51
53	Deficiency of Sphingosine-1-phosphate Lyase Impairs Lysosomal Metabolism of the Amyloid Precursor Protein. <i>Journal of Biological Chemistry</i> , 2014, 289, 16761-16772.	3.4	50
54	Myeloid differentiation factor 88-deficient bone marrow cells improve Alzheimer's disease-related symptoms and pathology. <i>Brain</i> , 2011, 134, 278-292.	7.6	49

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55	Impact of Vitamin D on Amyloid Precursor Protein Processing and Amyloid- $\beta$ Peptide Degradation in Alzheimer's Disease. <i>Neurodegenerative Diseases</i> , 2014, 13, 75-81.	1.4	49
56	Special lipid-based diets alleviate cognitive deficits in the APP <sup>swe</sup> /PS1 <sup>dE9</sup> transgenic mouse model of Alzheimer's disease independent of brain amyloid deposition. <i>Journal of Nutritional Biochemistry</i> , 2014, 25, 157-169.	4.2	49
57	Eicosapentaenoic acid and docosahexaenoic acid increase the degradation of amyloid- $\beta$ by affecting insulin-degrading enzyme. <i>Biochemistry and Cell Biology</i> , 2016, 94, 534-542.	2.0	47
58	Oxidized Docosahexaenoic Acid Species and Lipid Peroxidation Products Increase Amyloidogenic Amyloid Precursor Protein Processing. <i>Neurodegenerative Diseases</i> , 2016, 16, 44-54.	1.4	47
59	Cerebrospinal fluid tau levels in Alzheimer's disease are elevated when compared with vascular dementia but do not correlate with measures of cerebral atrophy. <i>Psychiatry Research</i> , 2003, 120, 231-238.	3.3	46
60	World Wide Fingers will advance dementia prevention. <i>Lancet Neurology</i> , The, 2018, 17, 27.	10.2	46
61	The Transmembrane Domain of the Amyloid Precursor Protein in Microsomal Membranes Is on Both Sides Shorter than Predicted. <i>Journal of Biological Chemistry</i> , 2003, 278, 6803-6808.	3.4	45
62	Upregulation of PGC-1 $\alpha$ expression by Alzheimer's disease-associated pathway: presenilin 1/amyloid precursor protein (APP)/intracellular domain of APP. <i>Aging Cell</i> , 2014, 13, 263-272.	6.7	45
63	Intracellular APP Domain Regulates Serine-Palmitoyl-CoA Transferase Expression and Is Affected in Alzheimer's Disease. <i>International Journal of Alzheimer's Disease</i> , 2011, 2011, 1-8.	2.0	43
64	Shedding of APP limits its synaptogenic activity and cell adhesion properties. <i>Frontiers in Cellular Neuroscience</i> , 2014, 8, 410.	3.7	43
65	The Role of NAC in Amyloidogenesis in Alzheimer's Disease. <i>American Journal of Pathology</i> , 2000, 156, 734-735.	3.8	40
66	Amyloid beta-protein and lipid metabolism. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2007, 1768, 1991-2001.	2.6	38
67	$\beta$ -Secretase Cleavage Site Specificity Differs for Intracellular and Secretory Amyloid $\beta$ . <i>Journal of Biological Chemistry</i> , 2003, 278, 13077-13085.	3.4	35
68	Tocotrienol Affects Oxidative Stress, Cholesterol Homeostasis and the Amyloidogenic Pathway in Neuroblastoma Cells: Consequences for Alzheimer's Disease. <i>International Journal of Molecular Sciences</i> , 2016, 17, 1809.	4.1	35
69	Regulation of hippocampal cholesterol metabolism by apoE and environmental stimulation. <i>Journal of Neurochemistry</i> , 2005, 95, 987-997.	3.9	34
70	Effect of Different Phospholipids on $\beta$ -Secretase Activity in the Non-Amyloidogenic Pathway of Alzheimer's Disease. <i>International Journal of Molecular Sciences</i> , 2013, 14, 5879-5898.	4.1	34
71	Alzheimer's Disease $\beta$ 42 Protein Release and Amyloid Precursor Protein Sorting Are Regulated by Alternative Splicing. <i>Journal of Biological Chemistry</i> , 1996, 271, 13208-13214.	3.4	32
72	A Nutritional Approach to Ameliorate Altered Phospholipid Metabolism in Alzheimer's Disease. <i>Journal of Alzheimer's Disease</i> , 2014, 41, 715-717.	2.6	30

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73	Vitamin E: Curse or benefit in Alzheimer's disease? A systematic investigation of the impact of $\hat{1}\pm$ , $\hat{1}^3$ - and $\hat{1}$ -tocopherol on $A\hat{1}^2$ generation and degradation in neuroblastoma cells. <i>Journal of Nutrition, Health and Aging</i> , 2015, 19, 646-654.	3.3	29
74	PS Dependent APP Cleavage Regulates Glucosylceramide Synthase and is Affected in Alzheimer's Disease. <i>Cellular Physiology and Biochemistry</i> , 2014, 34, 92-110.	1.6	28
75	Therapeutic Perspectives in Alzheimers Disease. <i>Recent Patents on CNS Drug Discovery</i> , 2006, 1, 119-127.	0.9	25
76	Methylxanthines and Neurodegenerative Diseases: An Update. <i>Nutrients</i> , 2021, 13, 803.	4.1	24
77	Role of Amyloid Precursor Protein, Amyloid- $\hat{1}^2$ and $\hat{1}^3$ -Secretase in Cholesterol Maintenance. <i>Neurodegenerative Diseases</i> , 2006, 3, 305-311.	1.4	20
78	Effect of Caffeine and Other Methylxanthines on $A\hat{1}^2$ -Homeostasis in SH-SY5Y Cells. <i>Biomolecules</i> , 2019, 9, 689.	4.0	20
79	Rescue of Hypovitaminosis A Induces Non-Amyloidogenic Amyloid Precursor Protein (APP) Processing. <i>Current Alzheimer Research</i> , 2016, 13, 1277-1289.	1.4	20
80	Sphingomyelin Synthase 1 Is Essential for Male Fertility in Mice. <i>PLoS ONE</i> , 2016, 11, e0164298.	2.5	19
81	Potential external source of $A\hat{1}^2$ in biological samples. <i>Nature Cell Biology</i> , 2002, 4, E164-E165.	10.3	17
82	Profiling of Alzheimer's disease related genes in mild to moderate vitamin D hypovitaminosis. <i>Journal of Nutritional Biochemistry</i> , 2019, 67, 123-137.	4.2	17
83	New Alzheimer Amyloid $\hat{1}^2$ Responsive Genes Identified in Human Neuroblastoma Cells by Hierarchical Clustering. <i>PLoS ONE</i> , 2009, 4, e6779.	2.5	15
84	Medium-Chain Length Fatty Acids Enhance $A\hat{1}^2$ Degradation by Affecting Insulin-Degrading Enzyme. <i>Cells</i> , 2021, 10, 2941.	4.1	14
85	Subcellular localization of the Alzheimer's disease amyloid precursor protein and derived polypeptides expressed in a recombinant yeast system. <i>Amyloid: the International Journal of Experimental and Clinical Investigation: the Official Journal of the International Society of Amyloidosis</i> , 1998, 5, 79-89.	3.0	13
86	Upregulation of CRABP1 in human neuroblastoma cells overproducing the Alzheimer-typical $A\hat{1}^2$ reduces their differentiation potential. <i>BMC Medicine</i> , 2008, 6, 38.	5.5	13
87	Response of Toll-like receptors in experimental Guillain-Barré syndrome: A kinetic analysis. <i>Neuroscience Letters</i> , 2012, 518, 154-160.	2.1	13
88	Unique Role of Caffeine Compared to Other Methylxanthines (Theobromine, Theophylline,) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 147 Td Type Cells. <i>International Journal of Molecular Sciences</i> , 2020, 21, 9015.	4.1	13
89	Shotgun lipidomics of liver and brain tissue of Alzheimer's disease model mice treated with acitretin. <i>Scientific Reports</i> , 2021, 11, 15301.	3.3	12
90	GM1 up-regulates Ubiquilin 1 expression in human neuroblastoma cells and rat cortical neurons. <i>Neuroscience Letters</i> , 2006, 407, 59-63.	2.1	9

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91	Clinical characterization of a presenilin 1 mutation (F177S) in a family with very early-onset Alzheimer's disease in the third decade of life. , 2014, 10, e27-e39.		9
92	Paradoxical effects of mutant ubiquitin on A $\beta$ plaque formation in an Alzheimer mouse model. Neurobiology of Aging, 2018, 72, 62-71.	3.1	9
93	Targeted Lipidomics of Mitochondria in a Cellular Alzheimer's Disease Model. Biomedicines, 2021, 9, 1062.	3.2	9
94	Increased Expression of Presenilin 2 Inhibits Protein Synthesis. Molecular and Cellular Neurosciences, 2002, 19, 111-124.	2.2	8
95	Transcriptional repression of the ectodomain sheddase ADAM10 by TBX2 and potential implication for Alzheimer's disease. Cellular and Molecular Life Sciences, 2019, 76, 1005-1025.	5.4	8
96	Antipsychotic medication is associated with selective alterations in ventricular cerebrospinal fluid A $\beta$ 40 and tau in patients with intractable unipolar depression. International Journal of Geriatric Psychiatry, 2011, 26, 1283-1291.	2.7	7
97	Regulatory feedback cycle of the insulin-degrading enzyme and the amyloid precursor protein intracellular domain: Implications for Alzheimer's disease. Aging Cell, 2020, 19, e13264.	6.7	7
98	The impact of capsaicinoids on APP processing in Alzheimer's disease in SH-SY5Y cells. Scientific Reports, 2020, 10, 9164.	3.3	7
99	Research diagnostic criteria for Alzheimer's disease: findings from the LipiDiDiet randomized controlled trial. Alzheimer's Research and Therapy, 2021, 13, 64.	6.2	6
100	Modeling the underlying biological processes in Alzheimer's disease using a multivariate competing risk joint model. Statistics in Medicine, 2022, 41, 3421-3433.	1.6	6
101	Using joint models to disentangle intervention effect types and baseline confounding: an application within an intervention study in prodromal Alzheimer's disease with Fortasyn Connect. BMC Medical Research Methodology, 2019, 19, 163.	3.1	5
102	Elevated Testosterone Level and Urine Scent Marking in Male 5xFAD Alzheimer Model Mice. Current Alzheimer Research, 2020, 17, 80-92.	1.4	5
103	Going the wrong road: Fyn and targeting of amyloid precursor protein to lipid rafts. Journal of Neurochemistry, 2011, 118, 677-679.	3.9	4
104	Recent Understanding of the Molecular Mechanisms of Alzheimer's Disease. Journal of Addiction Research & Therapy, 0, s5, .	0.2	4
105	Transnasal delivery of human A-beta peptides elicits impaired learning and memory performance in wild type mice. BMC Neuroscience, 2016, 17, 44.	1.9	3
106	A competing risk joint model for dealing with different types of missing data in an intervention trial in prodromal Alzheimer's disease. Alzheimer's Research and Therapy, 2021, 13, 63.	6.2	3
107	Methylxanthines Induce a Change in the AD/Neurodegeneration-Linked Lipid Profile in Neuroblastoma Cells. International Journal of Molecular Sciences, 2022, 23, 2295.	4.1	3
108	The Effects of Glycerophospholipids and Fatty Acids on APP Processing. , 2016, , 377-421.		2

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109	DTâ€1â€04: Effects of Fortasyn Connect (Souvenaid) on Longitudinal Brain Atrophy Measures in Prodromal Alzheimerâ€™s Disease: Results of the Doubleâ€Blind Randomised Controlled Lipid diet Trial. Alzheimer's and Dementia, 2016, 12, P1135.	0.8	2
110	The Effects of Vitamin D Deficiency on Neurodegenerative Diseases. , 2020, , .		2
111	Alzheimer-Demenz. , 2011, , 47-72.		2
112	Impact of Vitamin D3 Deficiency on Phosphatidylcholine-/Ethanolamine, Plasmalogen-, Lyso-Phosphatidylcholine-/Ethanolamine, Carnitine- and Triacyl Glyceride-Homeostasis in Neuroblastoma Cells and Murine Brain. Biomolecules, 2021, 11, 1699.	4.0	2
113	PEX19 Coordinates Neutral Lipid Storage in Cells in a Peroxisome-Independent Fashion. Frontiers in Cell and Developmental Biology, 2022, 10, 859052.	3.7	2
114	Alzheimerâ€™s disease prevention â€ The emerging role of lipids and diet. Oleagineux Corps Gras Lipides, 2007, 14, 182-185.	0.2	1
115	Intracellular and Secreted A $\beta$ 242/40 Ratios Are Differently Influenced by APP Mutations. , 0, , 479-486.		0
116	P4-351: A PLASMA PHOSPHOLIPID BIOMARKER PROFILE FOR DETECTING PRECLINICAL ALZHEIMER'S DISEASE CAN BE MODIFIED BY ORAL INTAKE OF NUTRIENTS THAT INCREASE PHOSPHOLIPID SYNTHESIS. , 2014, 10, P916-P917.		0
117	Linking Alzheimerâ€™s Disease, B-Amyloid, and Lipids. , 2004, , .		0
118	Cholesterol and A $\beta$ Production: Methods for Analysis of Altered Cholesterol De Novo Synthesis. , 2008, , 221-230.		0