Sarah F Hamm-Alvarez

List of Publications by Year
in descending order

125 papers	4,469 citations	117625 34 h-index	128289 60 g-index
130 all docs	130 docs citations	130 times ranked	5530 citing authors

#	Article	IF	Citations
1	Focused ultrasound stimulation on meibomian glands for the treatment of evaporative dry eye. Experimental Biology and Medicine, 2022, 247, 519-526.	2.4	4
2	Cathepsin S is a novel target for age-related dry eye. Experimental Eye Research, 2022, 214, 108895.	2.6	6
3	Tear miRNAs Identified in a Murine Model of SjÃ¶grenâ€™s Syndrome as Potential Diagnostic Biomarkers and Indicators of Disease Mechanism. Frontiers in Immunology, 2022, 13, 833254.	4.8	7
4	Supra-lacrimal protein-based carriers for cyclosporine A reduce Th17-mediated autoimmunity in murine model of SjÃ¶gren's syndrome. Biomaterials, 2022, 283, 121441.	11.4	7
5	Intracellular Dynamin Elastin-like Polypeptides Assemble into Rodlike, Spherical, and Reticular Dynasomes. Biomacromolecules, 2022, 23, 265-275.	5.4	1
6	Rab27a Contributes to Cathepsin S Secretion in Lacrimal Gland Acinar Cells. International Journal of Molecular Sciences, 2021, 22, 1630.	4.1	4
7	Phenylephrine increases tear cathepsin S secretion in healthy murine lacrimal gland acinar cells through an alternative secretory pathway. Experimental Eye Research, 2021, 211, 108760.	2.6	4
8	Intralacrimal Sustained Delivery of Rapamycin Shows Therapeutic Effects without Systemic Toxicity in a Mouse Model of Autoimmune Dacryoadenitis Characteristic of SjÃ¶grenâ€™s Syndrome. Biomacromolecules, 2021, 22, 1102-1114.	5.4	5
9	Caveolin Elastin-Like Polypeptide Fusions Mediate Temperature-Dependent Assembly of Caveolar Microdomains. ACS Biomaterials Science and Engineering, 2020, 6, 198-204.	5.2	6
10	Tear Proteases and Protease Inhibitors: Potential Biomarkers and Disease Drivers in Ocular Surface Disease. Eye and Contact Lens, 2020, 46, S70-S83.	1.6	18
11	Small RNA Deep Sequencing Identifies a Unique miRNA Signature Released in Serum Exosomes in a Mouse Model of SjÃ¶gren's Syndrome. Frontiers in Immunology, 2020, 11, 1475.	4.8	11
12	Application of advances in endocytosis and membrane trafficking to drug delivery. Advanced Drug Delivery Reviews, 2020, 157, 118-141.	13.7	44
13	Reduced Expression of VEGF-A in Human Retinal Pigment Epithelial Cells and Human Muller Cells Following CRISPR-Cas9 Ribonucleoprotein-Mediated Gene Disruption. Translational Vision Science and Technology, 2020, 9, 23.	2.2	3
14	Biosynthesized Multivalent Lacritin Peptides Stimulate Exosome Production in Human Corneal Epithelium. International Journal of Molecular Sciences, 2020, 21, 6157.	4.1	6
15	Tears â€“ more to them than meets the eye: why tears are a good source of biomarkers in Parkinson's disease. Biomarkers in Medicine, 2020, 14, 151-163.	1.4	13
16	Cathepsin S activation contributes to elevated CX3CL1 (fractalkine) levels in tears of a SjÃ¶grenâ€™s syndrome murine model. Scientific Reports, 2020, 10, 1455.	3.3	13
17	A Multivalent ICAM-1 Binding Nanoparticle which Inhibits ICAM-1 and LFA-1 Interaction Represents a New Tool for the Investigation of Autoimmune-Mediated Dry Eye. International Journal of Molecular Sciences, 2020, 21, 2758.	4.1	12
18	Longitudinal analysis of tear cathepsin S activity levels in male non-obese diabetic mice suggests its potential as an early stage biomarker of SjÃ¶grenâ€™s Syndrome. Biomarkers, 2019, 24, 91-102.	1.9	17

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19	Molecular Targeting of Immunosuppressants Using a Bifunctional Elastin-Like Polypeptide. Bioconjugate Chemistry, 2019, 30, 2358-2372.	3.6	7
20	Oligomeric Î±-synuclein is increased in basal tears of Parkinsonâ€™s patients. Biomarkers in Medicine, 2019, 13, 941-952.	1.4	40
21	Inhibition of Cathepsin S Reduces Lacrimal Gland Inflammation and Increases Tear Flow in a Mouse Model of SjÃ¶grenâ€™s Syndrome. Scientific Reports, 2019, 9, 9559.	3.3	25
22	Levels of oligomeric Î±-Synuclein in reflex tears distinguish Parkinson's disease patients from healthy controls. Biomarkers in Medicine, 2019, 13, 1447-1457.	1.4	18
23	Berunda Polypeptides: Biheaded Rapamycin Carriers for Subcutaneous Treatment of Autoimmune Dry Eye Disease. Molecular Pharmaceutics, 2019, 16, 3024-3039.	4.6	17
24	PP2A: A Novel Target to Prevent Cathepsin Sâ€“mediated Damage in Smoking-induced Chronic Obstructive Pulmonary Disease. American Journal of Respiratory and Critical Care Medicine, 2019, 200, 6-8.	5.6	9
25	Cathepsin S Alters the Expression of Pro-Inflammatory Cytokines and MMP-9, Partially through Proteaseâ€"Activated Receptor-2, in Human Corneal Epithelial Cells. International Journal of Molecular Sciences, 2018, 19, 3530.	4.1	22
26	A novel elastin-like polypeptide drug carrier for cyclosporine A improves tear flow in a mouse model of SjÃ¶gren's syndrome. Journal of Controlled Release, 2018, 292, 183-195.	9.9	21
27	NOD and NOR mice exhibit comparable development of lacrimal gland secretory dysfunction but NOD mice have more severe autoimmune dacryoadenitis. Experimental Eye Research, 2018, 176, 243-251.	2.6	21
28	Myoepithelial cell-driven acini contraction in response to oxytocin receptor stimulation is impaired in lacrimal glands of SjÃ¶grenâ€™s syndrome animal models. Scientific Reports, 2018, 8, 9919.	3.3	32
29	Increased Cathepsin S activity associated with decreased protease inhibitory capacity contributes to altered tear proteins in SjÃ¶grenâ€™s Syndrome patients. Scientific Reports, 2018, 8, 11044.	3.3	49
30	Delivery of Bone Marrow-Derived Mesenchymal Stem Cells Improves Tear Production in a Mouse Model of SjÃ¶grenâ€™s Syndrome. Stem Cells International, 2017, 2017, 1-10.	2.5	38
31	Rapamycin Eye Drops Suppress Lacrimal Gland Inflammation In a Murine Model of SjÃ¶gren's Syndrome. , 2017, 58, 372.		51
32	Interferon-Î³ treatment in vitro elicits some of the changes in cathepsin S and antigen presentation characteristic of lacrimal glands and corneas from the NOD mouse model of SjÃ¶grenâ€™s Syndrome. PLoS ONE, 2017, 12, e0184781.	2.5	23
33	Imbalanced Rab3D versus Rab27 increases cathepsin S secretion from lacrimal acini in a mouse model of SjÃ¶gren's Syndrome. American Journal of Physiology - Cell Physiology, 2016, 310, C942-C954.	4.6	29
34	Elastin-like polypeptides: Therapeutic applications for an emerging class of nanomedicines. Journal of Controlled Release, 2016, 240, 93-108.	9.9	115
35	Multidimensional Separation Using HILIC and SCX Pre-fractionation for RP LC-MS/MS Platform with Automated Exclusion List-based MS Data Acquisition with Increased Protein Quantification. Journal of Proteomics and Bioinformatics, 2015, 8, 260-265.	0.4	10
36	Tear-mediated delivery of nanoparticles through transcytosis of the lacrimal gland. Journal of Controlled Release, 2015, 208, 2-13.	9.9	17

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37	A thermo-responsive protein treatment for dry eyes. Journal of Controlled Release, 2015, 199, 156-167.	9.9	40
38	Flipping the Switch on Clathrinâ€Mediated Endocytosis using Thermally Responsive Protein Microdomains. Advanced Functional Materials, 2014, 24, 5340-5347.	14.9	18
39	Lacritin-mediated regeneration of the corneal epithelia by protein polymer nanoparticles. Journal of Materials Chemistry B, 2014, 2, 8131-8141.	5.8	43
40	Tear Cathepsin S as a Candidate Biomarker for SjÃ¶gren's Syndrome. Arthritis and Rheumatology, 2014, 66, 1872-1881.	5.6	95
41	A rapamycin-binding protein polymer nanoparticle shows potent therapeutic activity in suppressing autoimmune dacryoadenitis in a mouse model of SjÃ¶gren's syndrome. Journal of Controlled Release, 2013, 171, 269-279.	9.9	97
42	Nanoparticle translocation across mouse alveolar epithelial cell monolayers: Species-specific mechanisms. Nanomedicine: Nanotechnology, Biology, and Medicine, 2013, 9, 786-794.	3.3	18
43	Targeting receptor-mediated endocytotic pathways with nanoparticles: Rationale and advances. Advanced Drug Delivery Reviews, 2013, 65, 121-138.	13.7	373
44	Polymeric immunoglobulin receptor traffics through two distinct apically targeted pathways in primary lacrimal gland acinar cells. Journal of Cell Science, 2013, 126, 2704-2717.	2.0	15
45	Analyzing Live Cellularity in the Human Trabecular Meshwork. , 2013, 54, 1039.		27
46	A Tunable and Reversible Platform for the Intracellular Formation of Genetically Engineered Protein Microdomains. Biomacromolecules, 2012, 13, 3439-3444.	5.4	24
47	Use of nucleofection to efficiently transfect primary rabbit lacrimal gland acinar cells. Cytotechnology, 2012, 64, 149-156.	1.6	2
48	In Situ Autofluorescence Visualization of Human Trabecular Meshwork Structure. , 2012, 53, 2080.		22
49	The Effects of Apolipoprotein F Deficiency on High Density Lipoprotein Cholesterol Metabolism in Mice. PLoS ONE, 2012, 7, e31616.	2.5	28
50	Direct Imaging of RAB27B-Enriched Secretory Vesicle Biogenesis in Lacrimal Acinar Cells Reveals Origins on a Nascent Vesicle Budding Site. PLoS ONE, 2012, 7, e31789.	2.5	9
51	Translocation of PEGylated quantum dots across rat alveolar epithelial cell monolayers. International Journal of Nanomedicine, 2011, 6, 2849.	6.7	12
52	Polystyrene nanoparticle trafficking across MDCK-II. Nanomedicine: Nanotechnology, Biology, and Medicine, 2011, 7, 588-594.	3.3	58
53	Design and cellular internalization of genetically engineered polypeptide nanoparticles displaying adenovirus knob domain. Journal of Controlled Release, 2011, 155, 218-226.	9.9	54
54	Cellular uptake of cyclotide MCoTI-I follows multiple endocytic pathways. Journal of Controlled Release, 2011, 155, 134-143.	9.9	99

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55	A Rab11a-enriched subapical membrane compartment regulates a cytoskeleton-dependent transcytotic pathway in secretory epithelial cells of the lacrimal gland. Journal of Cell Science, 2011, 124, 3503-3514.	2.0	20
56	Rab27b regulates exocytosis of secretory vesicles in acinar epithelial cells from the lacrimal gland. American Journal of Physiology - Cell Physiology, 2011, 301, C507-C521.	4.6	25
57	Increased Expression of Cathepsins and Obesity-Induced Proinflammatory Cytokines in Lacrimal Glands of Male NOD Mouse. , 2010, 51, 5019.		64
58	Alveolar Epithelial Cell Injury Due to Zinc Oxide Nanoparticle Exposure. American Journal of Respiratory and Critical Care Medicine, 2010, 182, 1398-1409.	5.6	90
59	Mechanisms of Alveolar Epithelial Translocation of a Defined Population of Nanoparticles. American Journal of Respiratory Cell and Molecular Biology, 2010, 42, 604-614.	2.9	111
60	Intracellular Uptake and Trafficking of Difluoroboron Dibenzoylmethaneâ˘Polylactide Nanoparticles in HeLa Cells. ACS Nano, 2010, 4, 2735-2747.	14.6	59
61	Lymphocytic infiltration leads to degradation of lacrimal gland extracellular matrix structures in NOD mice exhibiting a SjÃ¶gren's syndrome-like exocrinopathy. Experimental Eye Research, 2010, 90, 223-237.	2.6	29
62	Lacrimal Gland Overview. , 2010, , 522-527.		4
63	Mitochondrial medicine and therapeutics, Part IIâ˜†. Advanced Drug Delivery Reviews, 2009, 61, 1233-1233.	13.7	6
64	Transduced viral IL-10 is exocytosed from lacrimal acinar secretory vesicles in a myosin-dependent manner in response to carbachol. Experimental Eye Research, 2009, 88, 467-478.	2.6	7
65	Altered expression of genes functioning in lipid homeostasis is associated with lipid deposition in NOD mouse lacrimal gland. Experimental Eye Research, 2009, 89, 319-332.	2.6	23
66	Quantitative second harmonic generation imaging of cartilage damage. Cell and Tissue Banking, 2008, 9, 299-307.	1.1	64
67	Polystyrene nanoparticle trafficking across alveolar epithelium. Nanomedicine: Nanotechnology, Biology, and Medicine, 2008, 4, 139-145.	3.3	94
68	Mitochondrial medicine and mitochondrion-based therapeutics. Advanced Drug Delivery Reviews, 2008, 60, 1437-1438.	13.7	7
69	Increased degradation of extracellular matrix structures of lacrimal glands implicated in the pathogenesis of SjÃ¶gren's syndrome. Matrix Biology, 2008, 27, 53-66.	3.6	64
70	Site-Specific Labeling of Enveloped Viruses with Quantum Dots for Single Virus Tracking. ACS Nano, 2008, 2, 1553-1562.	14.6	124
71	The class V myosin motor, myosin 5c, localizes to mature secretory vesicles and facilitates exocytosis in lacrimal acini. American Journal of Physiology - Cell Physiology, 2008, 295, C13-C28.	4.6	32
72	Tyrphostin A8 stimulates a novel trafficking pathway of apically endocytosed transferrin through Rab11-enriched compartments in Caco-2 cells. American Journal of Physiology - Cell Physiology, 2008, 294, C7-C21.	4.6	6

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73	Direct interaction between Rab3D and the polymeric immunoglobulin receptor and trafficking through regulated secretory vesicles in lacrimal gland acinar cells. American Journal of Physiology - Cell Physiology, 2008, 294, C662-C674.	4.6	34
74	Elevated prolactin redirects secretory vesicle traffic in rabbit lacrimal acinar cells. American Journal of Physiology - Endocrinology and Metabolism, 2007, 292, E1122-E1134.	3.5	22
75	Optimized Preservation of Extracellular Matrix in Cardiac Tissues: Implications for Long-Term Graft Durability. Annals of Thoracic Surgery, 2007, 83, 1641-1650.	1.3	71
76	Traffic of endogenous, transduced, and endocytosed prolactin in rabbit lacrimal acinar cells. Experimental Eye Research, 2007, 85, 749-761.	2.6	17
77	Unique Ultrastructure of Exorbital Lacrimal Glands in Male NOD and BALB/c Mice. Current Eye Research, 2006, 31, 13-22.	1.5	21
78	Male NOD mouse external lacrimal glands exhibit profound changes in the exocytotic pathway early in postnatal development. Experimental Eye Research, 2006, 82, 33-45.	2.6	35
79	Molecular mechanisms of lacrimal acinar secretory vesicle exocytosis. Experimental Eye Research, 2006, 83, 84-96.	2.6	45
80	Integrin adhesion in regulation of lacrimal gland acinar cell secretion. Experimental Eye Research, 2006, 83, 543-553.	2.6	11
81	Typical and atypical trafficking pathways of Ad5 penton base recombinant protein: implications for gene transfer. Gene Therapy, 2006, 13, 821-836.	4.5	26
82	Current status of gene delivery and gene therapy in lacrimal gland using viral vectors. Advanced Drug Delivery Reviews, 2006, 58, 1243-1257.	13.7	21
83	Novel Fiber-Dependent Entry Mechanism for Adenovirus Serotype 5 in LacrimalAcini. Journal of Virology, 2006, 80, 11833-11851.	3.4	35
84	Accumulation of Catalytically Active Proteases in Lacrimal Gland Acinar Cell Endosomes During Chronic Ex Vivo Muscarinic Receptor Stimulation. Scandinavian Journal of Immunology, 2005, 61, 36-50.	2.7	26
85	Dominant-negative PKC-Îµ impairs apical actin remodeling in parallel with inhibition of carbachol-stimulated secretion in rabbit lacrimal acini. American Journal of Physiology - Cell Physiology, 2005, 289, C1052-C1068.	4.6	22
86	Actin and non-muscle myosin II facilitate apical exocytosis of tear proteins in rabbit lacrimal acinar epithelial cells. Journal of Cell Science, 2005, 118, 4797-4812.	2.0	82
87	The Ad5 fiber mediates nonviral gene transfer in the absence of the whole virus, utilizing a novel cell entry pathway. Gene Therapy, 2005, 12, 225-237.	4.5	20
88	Mucosal Immunity and Self-Tolerance in the Ocular Surface System. Ocular Surface, 2005, 3, 182-193.	4.4	21
89	Intracellular trafficking of nonviral vectors. Gene Therapy, 2005, 12, 1734-1751.	4.5	309
90	Adenoviral capsid modulates secretory compartment organization and function in acinar epithelial cells from rabbit lacrimal gland. Gene Therapy, 2004, 11, 970-981.	4.5	10

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91	Stable Transfection of MDCK Cells with Epitope-Tagged Human PepT1. Pharmaceutical Research, 2004, 21, 1970-1973.	3.5	6
92	Novel biphasic traffic of endocytosed EGF to recycling and degradative compartments in lacrimal gland acinar cells. Journal of Cellular Physiology, 2004, 199, 108-125.	4.1	18
93	Role of the microtubule cytoskeleton in traffic of EGF through the lacrimal acinar cell endomembrane network. Experimental Eye Research, 2004, 78, 1093-1106.	2.6	10
94	Altered traffic to the lysosome in an ex vivo lacrimal acinar cell model for chronic muscarinic receptor stimulation. Experimental Eye Research, 2004, 79, 665-675.	2.6	17
95	Actin microfilaments et al.â€"the many components, effectors and regulators of epithelial cell endocytosis. Advanced Drug Delivery Reviews, 2003, 55, 1359-1383.	13.7	36
96	Modulation of secretory functions in epithelia by adenovirus capsid proteins. Journal of Controlled Release, 2003, 93, 129-140.	9.9	8
97	Biochemical Changes Contributing to Functional Quiescence in Lacrimal Gland Acinar Cells after Chronic Ex Vivo Exposure to a Muscarinic Agonist. Scandinavian Journal of Immunology, 2003, 58, 550-565.	2.7	29
98	Impairing Actin Filament or Syndapin Functions Promotes Accumulation of Clathrin-coated Vesicles at the Apical Plasma Membrane of Acinar Epithelial Cells. Molecular Biology of the Cell, 2003, 14, 4397-4413.	2.1	43
99	Cytoplasmic dynein participates in apically targeted stimulated secretory traffic in primary rabbit lacrimal acinar epithelial cells. Journal of Cell Science, 2003, 116, 2051-2065.	2.0	57
100	Diverse Perturbations May Alter the Lacrimal Acinar Cell Autoantigenic Spectra. DNA and Cell Biology, 2002, 21, 435-442.	1.9	12
101	Heterotrimeric GTP-binding Proteins in the Lacrimal Acinar Cell Endomembrane System. Experimental Eye Research, 2002, 74, 7-22.	2.6	17
102	Focus on â€œEGF receptor downregulation depends on a trafficking motif in the distal tyrosine kinase domainâ€. American Journal of Physiology - Cell Physiology, 2002, 282, C417-C419.	4.6	12
103	Cytoskeletal Participation in Stimulated Secretion and Compensatory Apical Plasma Membrane Retrieval in Lacrimal Gland Acinar Cells. Advances in Experimental Medicine and Biology, 2002, 506, 199-205.	1.6	8
104	Epidermal Growth Factor Traffic in Lacrimal Acinar Cells. Advances in Experimental Medicine and Biology, 2002, 506, 213-217.	1.6	3
105	M3 Receptor Autoimmunity: Losing Tolerance to a Familiar Protein. Advances in Experimental Medicine and Biology, 2002, 506, 51-58.	1.6	4
106	Nocodazole treatment of CV-1 cells enhances nuclear/perinuclear accumulation of lipid-DNA complexes and increases gene expression. Pharmaceutical Research, 2001, 18, 246-249.	3.5	19
107	Changes in cytoskeletal organization in polyoma middle T antigen-transformed fibroblasts: Involvement of protein phosphatase 2A andsrc tyrosine kinases. Cytoskeleton, 2000, 47, 253-268.	4.4	5
108	Protein phosphatase inhibitors alter cellular microtubules and reduce carbachol-dependent protein secretion in lacrimal acini. Current Eye Research, 2000, 20, 373-383.	1.5	8

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109	Identification of a Novel Taxol-Sensitive Kinase Activity Associated with the Cytoskeleton. Biochemical and Biophysical Research Communications, 2000, 277, 525-530.	2.1	4
110	EPIDERMAL GROWTH FACTOR TRAFFIC IN LACRIMALACINAR CELLS.. Cornea, 2000, 19, S137.	1.7	0
111	Biopharmaceutics of transmucosal peptide and protein drug administration: role of transport mechanisms with a focus on the involvement of PepT1. Journal of Controlled Release, 1999, 62, 129-140.	9.9	34
112	Targeting endocytosis and motor proteins to enhance DNA persistence. Pharmaceutical Science & Technology Today, 1999, 2, 190-196.	0.7	5
113	Increased protein phosphorylation of cytoplasmic dynein results in impaired motor function. Biochemical Journal, 1999, 342, 1-6.	3.7	30
114	Increased protein phosphorylation of cytoplasmic dynein results in impaired motor function. Biochemical Journal, 1999, 342, 1.	3.7	12
115	Structure, Function, and Molecular Modeling Approaches to the Study of the Intestinal Dipeptide Transporter PepT1. Journal of Pharmaceutical Sciences, 1998, 87, 1286-1291.	3.3	105
116	Molecular motors and their role in membrane traffic. Advanced Drug Delivery Reviews, 1998, 29, 229-242.	13.7	32
117	SjÃ¶gren's autoimmunity: how perturbation of recognition in endomembrane traffic may provoke pathological recognition at the cell surface. , 1998, 11, 40-48.		12
118	Molecular Identification of a Role for Tyrosine 167 in the Function of the Human Intestinal Proton-Coupled Dipeptide Transporter (hPepT1). Biochemical and Biophysical Research Communications, 1998, 250, 103-107.	2.1	65
119	Microtubule-Dependent Vesicle Transport: Modulation of Channel and Transporter Activity in Liver and Kidney. Physiological Reviews, 1998, 78, 1109-1129.	28.8	109
120	Taxol inhibits endosomal-lysosomal membrane trafficking at two distinct steps in CV-1 cells. American Journal of Physiology - Cell Physiology, 1998, 275, C1630-C1639.	4.6	35
121	Cholinergic Stimulation of Lacrimal Acinar Cells Promotes Redistribution of Membrane-associated Kinesin and the Secretory Protein, Î²-hexosaminidase, and Increases Kinesin Motor Activity. Experimental Eye Research, 1997, 64, 141-156.	2.6	47
122	Microtubule-based motor proteins: new targets for enhancing drug delivery?. Pharmaceutical Research, 1996, 13, 489-496.	3.5	5
123	Paclitaxel and nocodazole differentially alter endocytosis in cultured cells. Pharmaceutical Research, 1996, 13, 1647-1656.	3.5	29
124	Coordinate depression of bradykinin receptor recycling and microtubule-dependent transport by taxol.. Proceedings of the National Academy of Sciences of the United States of America, 1994, 91, 7812-7816.	7.1	36
125	Identification of the second chromophore of Escherichia coli and yeast DNA photolyases as 5,10-methenyltetrahydrofolate.. Proceedings of the National Academy of Sciences of the United States of America, 1988, 85, 2046-2050.	7.1	178