

Robert L Geahlen

List of Publications by Year in descending order

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118
papers

6,302
citations

66343

42
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71685

76
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118
all docs

118
docs citations

118
times ranked

6786
citing authors

#	ARTICLE	IF	CITATIONS
1	Perinatal lethality and blocked B-cell development in mice lacking the tyrosine kinase Syk. <i>Nature</i> , 1995, 378, 298-302.	27.8	706
2	Kinase Inhibitors from <i>Polygonum cuspidatum</i> . <i>Journal of Natural Products</i> , 1993, 56, 1805-1810.	3.0	221
3	Piceatannol (3,4,3',5'-tetrahydroxy-trans-stilbene) is a naturally occurring protein-tyrosine kinase inhibitor. <i>Biochemical and Biophysical Research Communications</i> , 1989, 165, 241-245.	2.1	200
4	Getting Syk: spleen tyrosine kinase as a therapeutic target. <i>Trends in Pharmacological Sciences</i> , 2014, 35, 414-422.	8.7	195
5	DAP12-mediated Signal Transduction in Natural Killer Cells. <i>Journal of Biological Chemistry</i> , 1998, 273, 32934-32942.	3.4	188
6	Measuring nanoscale viscoelastic parameters of cells directly from AFM force-displacement curves. <i>Scientific Reports</i> , 2017, 7, 1541.	3.3	174
7	Emodin, a Protein Tyrosine Kinase Inhibitor from <i>Polygonum cuspidatum</i> . <i>Journal of Natural Products</i> , 1992, 55, 696-698.	3.0	171
8	Synthesis and protein-tyrosine kinase inhibitory activities of flavonoid analogs. <i>Journal of Medicinal Chemistry</i> , 1991, 34, 798-806.	6.4	157
9	Synthesis and protein-tyrosine kinase inhibitory activity of polyhydroxylated stilbene analogs of piceatannol. <i>Journal of Medicinal Chemistry</i> , 1993, 36, 2950-2955.	6.4	149
10	In-depth Analyses of Kinase-dependent Tyrosine Phosphoproteomes Based on Metal Ion-functionalized Soluble Nanopolymers. <i>Molecular and Cellular Proteomics</i> , 2010, 9, 2162-2172.	3.8	143
11	Syk and pTyr'd: Signaling through the B cell antigen receptor. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2009, 1793, 1115-1127.	4.1	137
12	Syk, Activated by Cross-linking the B-cell Antigen Receptor, Localizes to the Cytosol Where It Interacts with and Phosphorylates β -Tubulin on Tyrosine. <i>Journal of Biological Chemistry</i> , 1996, 271, 4755-4762.	3.4	135
13	Unexpected Effects of FERM Domain Mutations on Catalytic Activity of Jak3. <i>Molecular Cell</i> , 2001, 8, 959-969.	9.7	127
14	[58] Synthesis and use of azido photoaffinity analogs of adenine and guanine nucleotides. <i>Methods in Enzymology</i> , 1979, 56, 642-653.	1.0	115
15	Sensitive kinase assay linked with phosphoproteomics for identifying direct kinase substrates. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 5615-5620.	7.1	115
16	Inhibition of Protein-Tyrosine Kinase Activity by Flavanoids and Related Compounds. <i>Journal of Natural Products</i> , 1989, 52, 982-986.	3.0	113
17	Fast, multi-frequency and quantitative nanomechanical mapping of live cells using the atomic force microscope. <i>Scientific Reports</i> , 2015, 5, 11692.	3.3	109
18	Protein-Tyrosine Kinase Inhibition: Mechanism-Based Discovery of Antitumor Agents. <i>Journal of Natural Products</i> , 1992, 55, 1529-1560.	3.0	104

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19	Calling in SYK: SYK's dual role as a tumor promoter and tumor suppressor in cancer. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2015, 1853, 254-263.	4.1	100
20	Identification of the major sites of autophosphorylation of the murine protein-tyrosine kinase Syk. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 1997, 1355, 177-190.	4.1	99
21	Visualization of Syk-Antigen Receptor Interactions Using Green Fluorescent Protein: Differential Roles for Syk and Lyn in the Regulation of Receptor Capping and Internalization. <i>Journal of Immunology</i> , 2001, 166, 1507-1516.	0.8	98
22	Spleen Tyrosine Kinase-Mediated Autophagy Is Required for Epithelial-Mesenchymal Plasticity and Metastasis in Breast Cancer. <i>Cancer Research</i> , 2019, 79, 1831-1843.	0.9	95
23	Detection of protein kinase activity in sodium dodecyl sulfate-polyacrylamide gels. <i>Analytical Biochemistry</i> , 1986, 153, 151-158.	2.4	91
24	Inhibition of β_2 Integrin Receptor and Syk Kinase Signaling in Monocytes by the Src Family Kinase Fgr. <i>Immunity</i> , 2001, 15, 507-519.	14.3	90
25	Molecular Basis for a Direct Interaction between the Syk Protein-tyrosine Kinase and Phosphoinositide 3-Kinase. <i>Journal of Biological Chemistry</i> , 2005, 280, 1543-1551.	3.4	88
26	Metabolic activation of 2-substituted derivatives of myristic acid to form potent inhibitors of myristoyl CoA:protein N-myristoyltransferase. <i>Biochemistry</i> , 1990, 29, 10566-10573.	2.5	85
27	Regulation of Signaling in B Cells through the Phosphorylation of Syk on Linker Region Tyrosines. <i>Journal of Biological Chemistry</i> , 2002, 277, 31703-31714.	3.4	75
28	Regulation of epithelial-mesenchymal transition and metastasis by TGF- β_2 , P-bodies, and autophagy. <i>Oncotarget</i> , 2017, 8, 103302-103314.	1.8	75
29	Syk Activation and Dissociation from the B-cell Antigen Receptor Is Mediated by Phosphorylation of Tyrosine 130. <i>Journal of Biological Chemistry</i> , 1997, 272, 10377-10381.	3.4	71
30	Structural Basis for the Requirement of Two Phosphotyrosine Residues in Signaling Mediated by Syk Tyrosine Kinase. <i>Journal of Molecular Biology</i> , 2006, 356, 1222-1236.	4.2	63
31	Role of the Protein Tyrosine Kinase Syk in Regulating Cell-Cell Adhesion and Motility in Breast Cancer Cells. <i>Molecular Cancer Research</i> , 2009, 7, 634-644.	3.4	61
32	Nucleocytoplasmic Trafficking of the Syk Protein Tyrosine Kinase. <i>Molecular and Cellular Biology</i> , 2006, 26, 3478-3491.	2.3	57
33	S-(2-oxopentadecyl)-CoA, a nonhydrolyzable analog of myristoyl-CoA, is a potent inhibitor of myristoyl-CoA: protein N-myristoyltransferase. <i>Journal of Medicinal Chemistry</i> , 1989, 32, 1665-1667.	6.4	56
34	Effect of phosphorylation of ovalbumin on adsorption by aluminum-containing adjuvants and elution upon exposure to interstitial fluid. <i>Vaccine</i> , 2005, 23, 1502-1506.	3.8	55
35	PTEN controls immunoreceptor (immunoreceptor tyrosine-based activation motif) signaling and the activation of Rac. <i>Blood</i> , 2002, 99, 694-697.	1.4	53
36	Tyr130 phosphorylation triggers Syk release from antigen receptor by long-distance conformational uncoupling. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 11760-11765.	7.1	53

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37	Matrix Valency Regulates Integrin-mediated Lymphoid Adhesion via Syk Kinase. <i>Journal of Cell Biology</i> , 1999, 144, 777-788.	5.2	52
38	Syk Is Recruited to Stress Granules and Promotes Their Clearance through Autophagy. <i>Journal of Biological Chemistry</i> , 2015, 290, 27803-27815.	3.4	52
39	Treatment of T cells with 2-hydroxymyristic acid inhibits the myristoylation and alters the stability of p56lck. <i>Biochemistry</i> , 1993, 32, 9250-9255.	2.5	51
40	Distinct Roles for the Linker Region Tyrosines of Syk in Fc μ RI Signaling in Primary Mast Cells. <i>Journal of Biological Chemistry</i> , 2005, 280, 4510-4517.	3.4	51
41	Synthesis of a Phosphoserine Mimetic Prodrug with Potent 14-3-3 Protein Inhibitory Activity. <i>Chemistry and Biology</i> , 2012, 19, 764-771.	6.0	51
42	Design, Synthesis, and Biological Evaluation of a Series of Lavendustin A Analogues That Inhibit EGFR and Syk Tyrosine Kinases, as Well as Tubulin Polymerization. <i>Journal of Medicinal Chemistry</i> , 2001, 44, 441-452.	6.4	46
43	The microtubule-associated protein tau is phosphorylated by Syk. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2008, 1783, 188-192.	4.1	46
44	The Lck SH3 Domain Negatively Regulates Localization to Lipid Rafts through an Interaction with c-Cbl. <i>Journal of Biological Chemistry</i> , 2002, 277, 5683-5691.	3.4	44
45	A Novel Quantitative Proteomics Strategy To Study Phosphorylation-Dependent Peptide-Protein Interactions. <i>Journal of Proteome Research</i> , 2007, 6, 133-140.	3.7	42
46	Stress Granules Modulate SYK to Cause Microglial Cell Dysfunction in Alzheimer's Disease. <i>EBioMedicine</i> , 2015, 2, 1785-1798.	6.1	42
47	[33] Renaturation and assay of protein kinases after electrophoresis in sodium dodecyl sulfate-polyacrylamide gels. <i>Methods in Enzymology</i> , 1991, 200, 417-423.	1.0	41
48	Synthesis and Evaluation of Hydroxylated Flavones and Related Compounds as Potential Inhibitors of the Protein-Tyrosine Kinase P56lck. <i>Journal of Natural Products</i> , 1991, 54, 1345-1352.	3.0	39
49	Flavonoids from <i>Koelreuteria henryi</i> and Other Sources as Protein-Tyrosine Kinase Inhibitors. <i>Journal of Natural Products</i> , 1993, 56, 967-969.	3.0	39
50	Nanomechanical Property Maps of Breast Cancer Cells As Determined by Multiharmonic Atomic Force Microscopy Reveal Syk-Dependent Changes in Microtubule Stability Mediated by MAP1B. <i>Biochemistry</i> , 2015, 54, 60-68.	2.5	39
51	Phosphorylation- and Activation-independent Association of the Tyrosine Kinase Syk and the Tyrosine Kinase Substrates Cbl and Vav with Tubulin in B-Cells. <i>Journal of Biological Chemistry</i> , 1999, 274, 1401-1406.	3.4	37
52	Induction of a substrate for casein kinase II during lymphocyte mitogenesis. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 1984, 804, 169-175.	4.1	35
53	Hierarchy of Protein Tyrosine Kinases in Interleukin-2 (IL-2) Signaling: Activation of Syk Depends on Jak3; However, Neither Syk nor Lck Is Required for IL-2-Mediated STAT Activation. <i>Molecular and Cellular Biology</i> , 2000, 20, 4371-4380.	2.3	35
54	Identification of Direct Tyrosine Kinase Substrates Based on Protein Kinase Assay-Linked Phosphoproteomics. <i>Molecular and Cellular Proteomics</i> , 2013, 12, 2969-2980.	3.8	35

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55	Detection of Kinase Translocation Using Microfluidic Electroporative Flow Cytometry. <i>Analytical Chemistry</i> , 2008, 80, 1087-1093.	6.5	34
56	The oxygen-substituted palmitic acid analogue, 13-oxypalmitic acid, inhibits Lck localization to lipid rafts and T cell signaling. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2002, 1589, 140-150.	4.1	32
57	Immunochemical detection of adenine nucleotide-binding proteins with antibodies to 5â€²-p-fluorosulfonylbenzoyladenine. <i>Analytical Biochemistry</i> , 1990, 190, 60-65.	2.4	31
58	The engagement of $\beta 2$ integrins on promonocytic cells promotes phosphorylation of Syk and formation of a protein complex containing Lyn and $\beta 2$ integrin. <i>European Journal of Immunology</i> , 1999, 29, 1426-1434.	2.9	30
59	One-step extraction of subcellular proteins from eukaryotic cells. <i>Lab on A Chip</i> , 2010, 10, 2046.	6.0	27
60	Signal transduction between red cells and other blood cells. <i>Stem Cells</i> , 1995, 13, 90-91.	3.2	26
61	Design and Synthesis of Phosphotyrosine Peptidomimetic Prodrugs. <i>Journal of Medicinal Chemistry</i> , 2006, 49, 3368-3376.	6.4	26
62	Activation of T Cell Raf-1 at Mitosis Requires the Protein-tyrosine Kinase Lck. <i>Journal of Biological Chemistry</i> , 1996, 271, 30315-30317.	3.4	25
63	Total Internal Reflection Fluorescence Flow Cytometry. <i>Analytical Chemistry</i> , 2008, 80, 9840-9844.	6.5	25
64	Two Closely Spaced Tyrosines Regulate NFAT Signaling in B Cells via Syk Association with Vav. <i>Molecular and Cellular Biology</i> , 2011, 31, 2984-2996.	2.3	25
65	New Approach for Analysis of the Phosphotyrosine Proteome and Its Application to the Chicken B Cell Line, DT40. <i>Journal of Proteome Research</i> , 2004, 3, 743-750.	3.7	24
66	Regulation of Syk by Phosphorylation on Serine in the Linker Insert. <i>Journal of Biological Chemistry</i> , 2010, 285, 39844-39854.	3.4	24
67	Substrate Recognition by the Lyn Protein-tyrosine Kinase. <i>Journal of Biological Chemistry</i> , 2000, 275, 16174-16182.	3.4	23
68	Generation of an Analog-sensitive Syk Tyrosine Kinase for the Study of Signaling Dynamics from the B Cell Antigen Receptor. <i>Journal of Biological Chemistry</i> , 2007, 282, 33760-33768.	3.4	23
69	A Peptide-Based Biosensor Assay To Detect Intracellular Syk Kinase Activation and Inhibition. <i>Biochemistry</i> , 2012, 51, 7515-7524.	2.5	23
70	The Protein-tyrosine Kinase Lck Associates with and Is Phosphorylated by Cdc2. <i>Journal of Biological Chemistry</i> , 1996, 271, 27517-27523.	3.4	22
71	Molecular interdiction of Src-family kinase signaling in hematopoietic cells. <i>Oncogene</i> , 2004, 23, 8024-8032.	5.9	22
72	Proteomic Studies of Syk-Interacting Proteins Using a Novel Amine-Specific Isotope Tag and GFP Nanotrap. <i>Journal of the American Society for Mass Spectrometry</i> , 2011, 22, 319-328.	2.8	21

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73	Multiplexed Quantitation of Protein Expression and Phosphorylation Based on Functionalized Soluble Nanopolymers. <i>Journal of the American Chemical Society</i> , 2012, 134, 18201-18204.	13.7	21
74	Syk Interacts with and Phosphorylates Nucleolin To Stabilize Bcl-x_L mRNA and Promote Cell Survival. <i>Molecular and Cellular Biology</i> , 2014, 34, 3788-3799.	2.3	20
75	Quantitative analysis of protein translocations by microfluidic total internal reflection fluorescence flow cytometry. <i>Lab on A Chip</i> , 2010, 10, 2673.	6.0	19
76	In-depth analyses of B cell signaling through tandem mass spectrometry of phosphopeptides enriched by PolyMAC. <i>International Journal of Mass Spectrometry</i> , 2015, 377, 744-753.	1.5	18
77	Identification of tyrosine 67 in bovine brain myelin basic protein as a specific phosphorylation site for thymus p56lck. <i>Biochemical and Biophysical Research Communications</i> , 1991, 178, 1393-1399.	2.1	17
78	Characterization of the in Vivo Sites of Serine Phosphorylation on Lck Identifying Serine 59 as a Site of Mitotic Phosphorylation. <i>Journal of Biological Chemistry</i> , 2002, 277, 14666-14673.	3.4	17
79	Kinetics of NF- κ B nucleocytoplasmic transport probed by single-cell screening without imaging. <i>Lab on A Chip</i> , 2010, 10, 2911.	6.0	17
80	Global Phosphoproteomics of Activated B Cells Using Complementary Metal Ion Functionalized Soluble Nanopolymers. <i>Analytical Chemistry</i> , 2014, 86, 6363-6371.	6.5	17
81	Phosphorylation of cAMP-dependent protein kinase subunits. <i>Advances in Enzyme Regulation</i> , 1982, 20, 195-209.	2.6	15
82	Synthesis of Myristoyl CoA Analogues and Myristoyl Peptides as Inhibitors of Myristoyl CoA:Protein <i>N</i> -Myristoyltransferase. <i>Journal of Pharmaceutical Sciences</i> , 1994, 83, 233-238.	3.3	15
83	Syk. <i>The AFCS-nature Molecule Pages</i> , 0, , .	0.2	15
84	Syk Inhibits the Activity of Protein Kinase A by Phosphorylating Tyrosine 330 of the Catalytic Subunit. <i>Journal of Biological Chemistry</i> , 2013, 288, 10870-10881.	3.4	14
85	Detection of a novel lymphocyte protein-tyrosine kinase by renaturation in polyacrylamide gels. <i>Biochemical and Biophysical Research Communications</i> , 1986, 134, 963-969.	2.1	13
86	Synthesis and evaluation of new protein-tyrosine kinase inhibitors. Part 2. Phenylhydrazones.. <i>Biorganic and Medicinal Chemistry Letters</i> , 1991, 1, 215-218.	2.2	13
87	The SH3 Domain of Lck Modulates T-Cell Receptor-Dependent Activation of Extracellular Signal-Regulated Kinase through Activation of Raf-1. <i>Molecular and Cellular Biology</i> , 2008, 28, 630-641.	2.3	13
88	Properties of a tyrosine protein kinase from calf thymus. Response to ionic strength and divalent cations. <i>BBA - Proteins and Proteomics</i> , 1985, 829, 221-228.	2.1	12
89	Prenylated Flavanones from <i>Derris laxiflora</i> . <i>Natural Product Research</i> , 1995, 6, 223-231.	0.4	12
90	Akt2 inhibits the activation of NFAT in lymphocytes by modulating calcium release from intracellular stores. <i>Cellular Signalling</i> , 2012, 24, 1064-1073.	3.6	12

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91	Detection of myristoyl CoA:protein N-myristoyltransferase activity by ion-exchange chromatography. <i>Analytical Biochemistry</i> , 1989, 181, 254-258.	2.4	11
92	Synthesis and evaluation of new protein-tyrosine kinase inhibitors. Part 1. pyridine-containing stilbenes and amides. <i>Bioorganic and Medicinal Chemistry Letters</i> , 1991, 1, 211-214.	2.2	11
93	Synthesis of [¹²⁵ I-(4-pyridyl)-1-oxo-L-alanine] ⁴ as a potential suicide substrate for protein-tyrosine kinases. <i>International Journal of Peptide and Protein Research</i> , 1990, 36, 538-543.	0.1	11
94	Modulation by Syk of Bcl-2, calcium and the calpain-calpastatin proteolytic system in human breast cancer cells. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2013, 1833, 2153-2164.	4.1	11
95	Differential recognition of syk-binding sites by each of the two phosphotyrosine-binding pockets of the Vav SH2 domain. <i>Biopolymers</i> , 2013, 99, 897-907.	2.4	11
96	The Role of Syk in Cell Signaling. <i>Advances in Experimental Medicine and Biology</i> , 1994, 365, 103-109.	1.6	11
97	Phosphorylation of glycogen synthase by a bovine thymus protein-tyrosine kinase, p40. <i>Biochemical and Biophysical Research Communications</i> , 1988, 155, 52-58.	2.1	9
98	Posttranslational acylation of the transferrin receptor in LSTRA cells with myristate, palmitate and stearate: Evidence for distinct acyltransferases. <i>Lipids and Lipid Metabolism</i> , 1994, 1213, 100-106.	2.6	9
99	The protein-tyrosine kinase Syk interacts with the C-terminal region of tensin2. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2012, 1823, 199-205.	4.1	9
100	Identification of Upstream Kinases by Fluorescence Complementation Mass Spectrometry. <i>ACS Central Science</i> , 2017, 3, 1078-1085.	11.3	9
101	Structure Activity Relationship Study of Emodin Derivatives Based on the Protein-Tyrosine Kinase and Protein Kinase C Inhibitory Activities and Cytotoxicity. <i>Natural Product Research</i> , 1997, 10, 173-180.	0.4	8
102	Anti-sulfonylbenzoate Antibodies as a Tool for the Detection of Nucleotide-Binding Proteins for Functional Proteomics. <i>Journal of Proteome Research</i> , 2004, 3, 1184-1190.	3.7	8
103	Identification of the Direct Substrates of the ABL Kinase via Kinase Assay Linked Phosphoproteomics with Multiple Drug Treatments. <i>Journal of Proteome Research</i> , 2019, 18, 1679-1690.	3.7	8
104	Modeling and analysis of early events in T-lymphocyte antigen-activated intracellular-signaling pathways. <i>Journal of Computational and Applied Mathematics</i> , 2005, 184, 320-341.	2.0	6
105	Intracellular targets for a phosphotyrosine peptidomimetic include the mitotic kinesin, MCAK. <i>Biochemical Pharmacology</i> , 2013, 86, 597-611.	4.4	5
106	A general method for preparation of peptides biotinylated at the carboxy terminus. <i>Analytical Biochemistry</i> , 1992, 202, 68-70.	2.4	4
107	A Quantitative Proteomics-Based Competition Binding Assay to Characterize pTAM-Protein Interactions. <i>Analytical Chemistry</i> , 2013, 85, 5071-5077.	6.5	4
108	Synthesis of a series of brominated 1-phenyl-2-pyridylethenes as inhibitors of the protein-tyrosine kinase p56lck. <i>Bioorganic and Medicinal Chemistry Letters</i> , 1994, 4, 1729-1732.	2.2	3

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109	Modulation of BCR Signaling by the Induced Dimerization of Receptor-Associated SYK. <i>Antibodies</i> , 2017, 6, 23.	2.5	3
110	A Computational Study of the Effects of Syk Activity on B Cell Receptor Signaling Dynamics. <i>Processes</i> , 2015, 3, 75-97.	2.8	2
111	The engagement of $\beta 21$ integrins on promonocytic cells promotes phosphorylation of Syk and formation of a protein complex containing Lyn and $\beta 21$ integrin. <i>European Journal of Immunology</i> , 1999, 29, 1426-1434.	2.9	2
112	Biological Function of the Phosphorylation of Serine 59 in the Tyrosine Kinase Lck. <i>FASEB Journal</i> , 2006, 20, A925.	0.5	1
113	Role of the SH3 Domain in the Trafficking and Localization of Lck in T Lymphocytes. <i>FASEB Journal</i> , 2006, 20, A926.	0.5	1
114	A Mouse Model for the Study of SYK Function through Chemical Genetics Demonstrates SYK-Dependent Signaling through the B Cell Receptor, but Not TLR4. <i>ImmunoHorizons</i> , 2019, 3, 254-261.	1.8	1
115	Discovery of Naturally Occurring Antitumor Agents. , 1994, , 27-37.		0
116	Quantitative Mapping of Local Mechanical Properties of Living Cells at Near-Physiological Conditions Using Multi-Harmonic Atomic Force Microscopy. , 2012, , .		0
117	SYK. , 2016, , 1-7.		0
118	SYK. , 2018, , 5257-5264.		0