## Tatsuya Sugawara

List of Publications by Year in descending order

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116 papers 4,825 citations

94433 37 h-index 65 g-index

117 all docs

117 docs citations

times ranked

117

4526 citing authors

#	Article	IF	CITATIONS
1	Carotenoids Affect Proliferation of Human Prostate Cancer Cells. Journal of Nutrition, 2001, 131, 3303-3306.	2.9	369
2	Gut microbiota confers host resistance to obesity by metabolizing dietary polyunsaturated fatty acids. Nature Communications, 2019, 10, 4007.	12.8	231
3	Lysophosphatidylcholine Enhances Carotenoid Uptake from Mixed Micelles by Caco-2 Human Intestinal Cells. Journal of Nutrition, 2001, 131, 2921-2927.	2.9	198
4	Separation and determination of glycolipids from edible plant sources by high-performance liquid chromatography and evaporative light-scattering detection. Lipids, 1999, 34, 1231-1237.	1.7	191
5	BIOTRANSFORMATION OF FUCOXANTHINOL INTO AMAROUCIAXANTHIN A IN MICE AND HEPG2 CELLS: FORMATION AND CYTOTOXICITY OF FUCOXANTHIN METABOLITES. Drug Metabolism and Disposition, 2004, 32, 205-211.	3.3	189
6	Brown Algae Fucoxanthin Is Hydrolyzed to Fucoxanthinol during Absorption by Caco-2 Human Intestinal Cells and Mice. Journal of Nutrition, 2002, 132, 946-951.	2.9	170
7	Ardenticatena maritima gen. nov., sp. nov., a ferric iron- and nitrate-reducing bacterium of the phylum â€~ Chloroflexi ' isolated from an iron-rich coastal hydrothermal field, and description of Ardenticatenia classis nov International Journal of Systematic and Evolutionary Microbiology, 2013, 63, 2992-3002.	1.7	145
8	Siphonaxanthin, a marine carotenoid from green algae, effectively induces apoptosis in human leukemia (HL-60) cells. Biochimica Et Biophysica Acta - General Subjects, 2011, 1810, 497-503.	2.4	144
9	Structural properties of films and rheology of film-forming solutions of chitosan gallate for food packaging. Carbohydrate Polymers, 2016, 146, 10-19.	10.2	137
10	Antiangiogenic Activity of Brown Algae Fucoxanthin and Its Deacetylated Product, Fucoxanthinol. Journal of Agricultural and Food Chemistry, 2006, 54, 9805-9810.	5.2	124
11	Protective Effect of Fucoxanthin against UVB-Induced Skin Photoaging in Hairless Mice. Bioscience, Biotechnology and Biochemistry, 2011, 75, 757-760.	1.3	102
12	Isolation of Sphingoid Bases of Sea Cucumber Cerebrosides and Their Cytotoxicity against Human Colon Cancer Cells. Bioscience, Biotechnology and Biochemistry, 2006, 70, 2906-2912.	1.3	101
13	Anti-angiogenic effect of siphonaxanthin from green alga, Codium fragile. Phytomedicine, 2010, 17, 1140-1144.	<b>5.</b> 3	100
14	Digestion of Maize Sphingolipids in Rats and Uptake of Sphingadienine by Caco-2 Cells. Journal of Nutrition, 2003, 133, 2777-2782.	2.9	92
15	Phospholipids affect the intestinal absorption of carotenoids in mice. Lipids, 2003, 38, 705-711.	1.7	91
16	Inhibitory Effect of Carotenoids on the Degranulation of Mast Cells via Suppression of Antigen-induced Aggregation of High Affinity IgE Receptors. Journal of Biological Chemistry, 2009, 284, 28172-28179.	3.4	86
17	Preventive effect of dietary astaxanthin on UVA-induced skin photoaging in hairless mice. PLoS ONE, 2017, 12, e0171178.	2.5	<b>7</b> 5
18	Effects of middle molecular weight fucoidans on in vitro and ex vivo angiogenesis of endothelial cells. International Journal of Molecular Medicine, 2005, 15, 695-9.	4.0	73

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19	Dietary sphingolipids improve skin barrier functions via the upregulation of ceramide synthases in the epidermis. Experimental Dermatology, 2012, 21, 448-452.	2.9	69
20	Siphonaxanthin, a Green Algal Carotenoid, as a Novel Functional Compound. Marine Drugs, 2014, 12, 3660-3668.	4.6	69
21	Marine algal carotenoids inhibit angiogenesis by down-regulating FGF-2-mediated intracellular signals in vascular endothelial cells. Molecular and Cellular Biochemistry, 2013, 380, 1-9.	3.1	67
22	Intestinal absorption of dietary maize glucosylceramide in lymphatic duct cannulated rats. Journal of Lipid Research, 2010, 51, 1761-1769.	4.2	61
23	Analysis of Glucosylceramides from Various Sources by Liquid Chromatography-Ion Trap Mass Spectrometry. Journal of Oleo Science, 2010, 59, 387-394.	1.4	59
24	10-oxo-12(Z)-octadecenoic acid, a linoleic acid metabolite produced by gut lactic acid bacteria, potently activates PPAR $\hat{1}^3$ and stimulates adipogenesis. Biochemical and Biophysical Research Communications, 2015, 459, 597-603.	2.1	59
25	Prevention of Aberrant Crypt Foci Formation by Dietary Maize and Yeast Cerebrosides in 1,2-Dimethyihydrazine-treated Mice. Journal of Oleo Science, 2005, 54, 45-49.	1.4	55
26	Biodegradable Poly (Lactic-co-Glycolic Acid)-Polyethylene Glycol Nanocapsules: An Efficient Carrier for Improved Solubility, Bioavailability, and Anticancer Property of Lutein. Journal of Pharmaceutical Sciences, 2015, 104, 2085-2093.	3.3	54
27	Efflux of Sphingoid Bases by P-Glycoprotein in Human Intestinal Caco-2 Cells. Bioscience, Biotechnology and Biochemistry, 2004, 68, 2541-2546.	1.3	49
28	Antiproliferative effect of neoxanthin and fucoxanthin on cultured cells. Fisheries Science, 2005, 71, 459-461.	1.6	47
29	Isolation and Anti-Fatty Liver Activity of a Novel Cerebroside from the Sea Cucumber (i> Acaudina molpadioides (i>. Bioscience, Biotechnology and Biochemistry, 2011, 75, 1466-1471.	1.3	47
30	Apoptosis Inducement by Plant and Fungus Sphingoid Bases in Human Colon Cancer Cells. Journal of Oleo Science, 2004, 53, 503-510.	1.4	46
31	Induction of Apoptosis in DLD-1 Human Colon Cancer Cells by Peridinin Isolated from the Dinoflagellate, Heterocapsa triquetra. Bioscience, Biotechnology and Biochemistry, 2007, 71, 1069-1072.	1.3	45
32	Dietary astaxanthin can accumulate in the brain of rats. Bioscience, Biotechnology and Biochemistry, 2018, 82, 1433-1436.	1.3	45
33	10-Oxo-trans-11-octadecenoic acid generated from linoleic acid by a gut lactic acid bacterium Lactobacillus plantarum is cytoprotective against oxidative stress. Toxicology and Applied Pharmacology, 2016, 296, 1-9.	2.8	43
34	Esterification of xanthophylls by human intestinal Caco-2 cells. Archives of Biochemistry and Biophysics, 2009, 483, 205-212.	3.0	42
35	The Green Algal Carotenoid Siphonaxanthin Inhibits Adipogenesis in 3T3-L1 Preadipocytes and the Accumulation of Lipids in White Adipose Tissue of KK-Ay Mice. Journal of Nutrition, 2015, 145, 490-498.	2.9	42
36	Effect of Dietary Porphyran from the Red Alga, Porphyra yezoensis, on Glucose Metabolism in Diabetic KK-Ay Mice. Journal of Nutritional Science and Vitaminology, 2012, 58, 14-19.	0.6	40

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37	Phosphatidic Acid Produced by Phospholipase D Promotes RNA Replication of a Plant RNA Virus. PLoS Pathogens, 2015, 11, e1004909.	4.7	39
38	Effects of dietary arginine supplementation on protein turnover and tissue protein synthesis in scald-burn rats. Nutrition, 1999, 15, 563-569.	2.4	38
39	Polymeric chitosan-glycolipid nanocarriers for an effective delivery of marine carotenoid fucoxanthin for induction of apoptosis in human colon cancer cells (Caco-2 cells). Materials Science and Engineering C, 2018, 91, 785-795.	7.3	38
40	Imaginal Feeding for Progression of Diapause Phenotype in the Two-Spotted Spider Mite (Acari:) Tj ETQq0 0 0 rg	BT/Qverlo	ck 10 Tf 50 6
41	Identification and biological activities of carotenoids from the freshwater alga Oedogonium intermedium. Food Chemistry, 2018, 242, 247-255.	8.2	37
42	Analysis and Comparison of Glucocerebroside Species from Three Edible Sea Cucumbers Using Liquid Chromatography–Ion Trap–Time-of-Flight Mass Spectrometry. Journal of Agricultural and Food Chemistry, 2011, 59, 12246-12253.	5.2	35
43	Identification of Glucosylceramides Containing Sphingatrienine in Maize and Rice Using Ion Trap Mass Spectrometry. Lipids, 2010, 45, 451-455.	1.7	33
44	A novel type of prophenoloxidase from the kuruma prawn Marsupenaeus japonicus contributes to the melanization of plasma in crustaceans. Fish and Shellfish Immunology, 2012, 32, 61-68.	3.6	33
45	Apoptosis Induction by Wheat-flour Sphingoid Bases in DLD-1 Human Colon Cancer Cells. Bioscience, Biotechnology and Biochemistry, 2002, 66, 2228-2231.	1.3	32
46	Gut Microbial Fatty Acid Metabolites Reduce Triacylglycerol Levels in Hepatocytes. Lipids, 2015, 50, 1093-1102.	1.7	32
47	Oral Glucosylceramide Reduces 2,4â€Dinitrofluorobenzene Induced Inflammatory Response in Mice by Reducing TNFâ€Alpha Levels and Leukocyte Infiltration. Lipids, 2011, 46, 505-512.	1.7	31
48	Suppressive Effects of Carotenoids on the Antigen-induced Degranulation in RBL-2H3 Rat Basophilic Leukemia Cells. Journal of Oleo Science, 2014, 63, 291-294.	1.4	31
49	Inhibition of Mast Cell Degranulation by Phycoerythrin and Its Pigment Moiety Phycoerythrobilin, Prepared from <i>Porphyra yezoensis</i> . Food Science and Technology Research, 2011, 17, 171-177.	0.6	30
50	Trans geometric isomers of EPA decrease LXRÎ $\pm$ -induced cellular triacylglycerol via suppression of SREBP-1c and PGC-1Î $^2$ . Journal of Lipid Research, 2006, 47, 2712-2717.	4.2	29
51	A novel mechanism for improvement of dry skin by dietary milk phospholipids: Effect on epidermal covalently bound ceramides and skin inflammation in hairless mice. Journal of Dermatological Science, 2015, 78, 224-231.	1.9	29
52	Antioxidative activities of a mycosporine-like amino acid, porphyra-334. Fisheries Science, 2008, 74, 1166-1172.	1.6	28
53	Prevention of Melanin Formation by Yeast Cerebroside in B16 Mouse Melanoma Cells. Journal of Oleo Science, 2007, 56, 645-648.	1.4	27
54	Inhibitory Effect of Topical Maize Glucosylceramide on Skin Photoaging in UVA-irradiated Hairless Mice. Journal of Oleo Science, 2011, 60, 321-325.	1.4	25

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55	Sphingoid bases from sea cucumber induce apoptosis in human hepatoma HepG2 cells through p-AKT and DR5. Oncology Reports, 2013, 29, 1201-1207.	2.6	24
56	Digestion of plant monogalactosyldiacylglycerol and digalactosyldiacylglycerol in rat alimentary canal 11 Address correspondence to. Journal of Nutritional Biochemistry, 2000, 11, 147-152.	4.2	23
57	Siphonaxanthin, a Carotenoid From Green Algae, Inhibits Lipogenesis in Hepatocytes via the Suppression of Liver X Receptor α Activity. Lipids, 2018, 53, 41-52.	1.7	23
58	Effect of glucosamine and related compounds on the degranulation of mast cells and ear swelling induced by dinitrofluorobenzene in mice. Life Sciences, 2010, 86, 337-343.	4.3	22
59	Identification of Characteristic Components and Foodstuffs in Healthy Japanese Diet and the Health Effects of a Diet with Increased Use Frequency of these Foodstuffs. Molecular Nutrition and Food Research, 2017, 61, 1700430.	3.3	22
60	Antioxidant Protection by Astaxanthin in the Citrus Red Mite (Acari: Tetranychidae). Environmental Entomology, 2017, 46, 1143-1150.	1.4	22
61	Poly (d, l-lactide-co-glycolide)-phospholipid nanocarrier for efficient delivery of macular pigment lutein: absorption pharmacokinetics in mice and antiproliferative effect in Hep G2 cells. Drug Delivery and Translational Research, 2019, 9, 178-191.	5.8	22
62	Rapid Quantitative Analysis of Sphingolipids in Seafood Using HPLC with Evaporative Light-Scattering Detection: Its Application in Tissue Distribution of Sphingolipids in Fish. Journal of Oleo Science, 2010, 59, 509-513.	1.4	21
63	The Effect of the Molecular Architecture on the Antioxidant Properties of Chitosan Gallate. Marine Drugs, 2016, 14, 95.	4.6	21
64	Dietary Cerebroside from Sea Cucumber ( <i>Stichopus japonicus</i> ): Absorption and Effects on Skin Barrier and Cecal Short-Chain Fatty Acids. Journal of Agricultural and Food Chemistry, 2016, 64, 7014-7021.	5.2	21
65	Dietary Milk Sphingomyelin Prevents Disruption of Skin Barrier Function in Hairless Mice after UV-B Irradiation. PLoS ONE, 2015, 10, e0136377.	2.5	20
66	Beneficial Effect of Dietary Wheat Glycolipids on Cecum Short-Chain Fatty Acid and Secondary Bile Acid Profiles in Mice Journal of Nutritional Science and Vitaminology, 2001, 47, 299-305.	0.6	19
67	Isolation of cytotoxic glucoerebrosides and long-chain bases from sea cucumber Cucumaria frondosa using high speed counter-current chromatography. Journal of Oleo Science, 2013, 62, 133-142.	1.4	19
68	Milk Phospholipids Enhance Lymphatic Absorption of Dietary Sphingomyelin in Lymphâ€Cannulated Rats. Lipids, 2015, 50, 987-996.	1.7	19
69	Siphonaxanthin, a carotenoid from green algae, suppresses advanced glycation end product-induced inflammatory responses. Journal of Natural Medicines, 2020, 74, 127-134.	2.3	19
70	Selective Absorption of Dietary Sphingoid Bases from the Intestine via Efflux by P-Glycoprotein in Rats. Journal of Nutritional Science and Vitaminology, 2017, 63, 44-50.	0.6	18
71	Sphingoid bases of dietary ceramide 2-aminoethylphosphonate, a marine sphingolipid, absorb into lymph in rats. Journal of Lipid Research, 2019, 60, 333-340.	4.2	17
72	Siphonaxanthin, a carotenoid from green algae Codium cylindricum, protects Ob/Ob mice fed on a high-fat diet against lipotoxicity by ameliorating somatic stresses and restoring anti-oxidative capacity. Nutrition Research, 2020, 77, 29-42.	2.9	17

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73	Method for Quantitative Determination of Cerebroside in "Plants Ceramide" Foodstuffs by High Performance Liquid Chromatography with Evaporative Light Scattering Detection Journal of Oleo Science, 2002, 51, 347-354.	1.4	16
74	Inhibitory Effect of Dietary Carotenoids on Dinitrofluorobenzene-Induced Contact Hypersensitivity in Mice. Bioscience, Biotechnology and Biochemistry, 2011, 75, 1013-1015.	1.3	16
<b>7</b> 5	Oxidized eicosapentaenoic acids more potently reduce LXRα-induced cellular triacylglycerol via suppression of SREBP-1c, PGC-1β and GPA than its intact form. Lipids in Health and Disease, 2013, 12, 73.	3.0	16
76	Digestion of Ceramide 2â€Aminoethylphosphonate, a Sphingolipid from the Jumbo Flying Squid <i>Dosidicus gigas</i> , in Mice. Lipids, 2017, 52, 353-362.	1.7	16
77	Anti-Obesity Properties of the Dietary Green Alga, <i>Codium cylindricum</i> , in High-Fat Diet-Induced Obese Mice. Journal of Nutritional Science and Vitaminology, 2018, 64, 347-356.	0.6	15
78	EFFECTS OF DIETARY PLANT CEREBROSIDE ON GENE EXPRESSION IN THE LARGE INTESTINE OF 1,2â€DIMETHYLHYDRAZINE (DMH)â€TREATED MICE DETERMINED BY DNA MICROARRAY ANALYSIS. Journal of Food Lipids, 2009, 16, 200-208.	1.0	14
79	Cytoprotective Effects of Lysophospholipids from Sea Cucumber Holothuria atra. PLoS ONE, 2015, 10, e0135701.	2.5	14
80	High Throughput Analysis of Cerebrosides from the Sea Cucumber Pearsonothria graeffei by Liquid Chromatographyâ€"Quadrupole-Time-of-Flight Mass Spectrometry. Journal of Oleo Science, 2015, 64, 51-60.	1.4	12
81	Molecular species analysis of monosialogangliosides from sea urchin Strongylocentrotus nudus by RPLC-ESI-MS/MS. Food Chemistry, 2015, 166, 473-478.	8.2	12
82	Levels of Glutathione and Related Enzymes in Yellowtail Fish Muscle Subjected to Ice Storage in a Modified Atmosphere. Journal of Food Science, 2011, 76, C974-9.	3.1	11
83	Effect of dietary glucosylceramide from sea cucumber on plasma and liver lipids in cholesterol-fed mice. Fisheries Science, 2011, 77, 1081-1085.	1.6	11
84	Milk Fermented by Lactic Acid Bacteria Enhances the Absorption of Dietary Sphingomyelin in Rats. Lipids, 2017, 52, 423-431.	1.7	11
85	Niemannâ€Pick C1â€like 1 Promotes Intestinal Absorption of Siphonaxanthin. Lipids, 2019, 54, 707-714.	1.7	11
86	Exopolysaccharides from milk fermented by lactic acid bacteria enhance dietary carotenoid bioavailability in humans in a randomized crossover trial and in rats. American Journal of Clinical Nutrition, 2020, 111, 903-914.	4.7	11
87	Characterization of Trans Eicosapentaenoic Acid Isomers: Oxidative Stability and Anti-Inflammatory Activity. Journal of Oleo Science, 2005, 54, 505-512.	1.4	10
88	Assessment of direct interaction between CD36 and an oxidized glycerophospholipid species. Journal of Biochemistry, 2017, 162, 163-172.	1.7	9
89	Inhibitory Effect of Carotenoids on Ligand-induced Lipid Raft Translocation of Immunoreceptors. Journal of Oleo Science, 2019, 68, 149-158.	1.4	9
90	Early secretory pathway-resident Zn transporter proteins contribute to cellular sphingolipid metabolism through activation of sphingomyelin phosphodiesterase 1. American Journal of Physiology - Cell Physiology, 2022, 322, C948-C959.	4.6	9

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91	Appearance of Intact Molecules of Dietary Ceramides Prepared from Soy Sauce Lees and Rice Glucosylceramides in Mouse Plasma. Journal of Agricultural and Food Chemistry, 2021, 69, 9188-9198.	5.2	8
92	Analysis of Chemical Structures of Glucosylceramides from Rice and Other Foodstuffs. Journal of Nutritional Science and Vitaminology, 2019, 65, S228-S230.	0.6	7
93	Dietary Ceramide Prepared from Soy Sauce Lees Improves Skin Barrier Function in Hairless Mice. Journal of Oleo Science, 2021, 70, 1325-1334.	1.4	7
94	Multivariate Analysis Reveals That Unsubstituted $\hat{l}^2$ -Ring and C8-Keto Structures Are Important Factors for Anti-Inflammatory Activity of Carotenoids. Nutrients, 2021, 13, 3699.	4.1	7
95	Ozonation of cholesterol in the presence of ethanol: Identification of a cytotoxic ethoxyhydroperoxide molecule. Lipids, 2004, 39, 259-264.	1.7	6
96	Absorption and Tissue Distribution of Siphonaxanthin from Green Algae. Marine Drugs, 2020, 18, 291.	4.6	6
97	Gut microbial fatty acid metabolites (KetoA and KetoC) affect the progression of nonalcoholic steatohepatitis and reverse cholesterol transport metabolism in mouse model. Lipids, 2020, 55, 151-162.	1.7	6
98	Phycoerythrin Contributes to the Photooxidation of Eicosapentaenoic Acid in Porphyra yezoensis During Light Exposure. Journal of Food Science, 2006, 71, S486-S491.	3.1	5
99	Mathematical Analysis for Growth Depression of Vibrio parahaemolyticus in Shrimp under a High Carbon Dioxide Atmosphere. Food Science and Technology Research, 2010, 17, 63-68.	0.6	5
100	<b>A novel role for scavenger receptor B1 as a contributor to the capture of specific volatile odorants in the nasal cavity </b> . Biomedical Research, 2018, 39, 117-129.	0.9	5
101	Dietary ceramide 2-aminoethylphosphonate, a marine sphingophosphonolipid, improves skin barrier function in hairless mice. Scientific Reports, 2020, 10, 13891.	3.3	5
102	Mass spectrometry based N- and C-terminal sequence determination of a hepatopancreas-type prophenoloxidase from the kuruma prawn, Marsupenaeus japonicus. Analytical and Bioanalytical Chemistry, 2013, 405, 2333-2340.	3.7	4
103	Oral supplementation of sea cucumber and its hydrolysate mitigates ultraviolet <scp>A</scp> â€induced photoaging in hairless mice. Journal of the Science of Food and Agriculture, 2022, 102, 1987-1994.	3.5	4
104	Evaluation of Intestinal Absorption of Dietary Halocynthiaxanthin, a Carotenoid from the Sea Squirt Halocynthia roretzi. Marine Drugs, 2020, 18, 588.	4.6	3
105	Assessment of direct binding interaction between CD36 and its potential lipid ligands using a peptide mimic of the receptor labeled with a fluorophore. Biomedical Research, 2021, 42, 181-191.	0.9	3
106	Studies on Intestinal Absorption and Nutritional Functions of Glycolipids. Nihon EiyŕShokuryŕGakkai Shi = Nippon EiyŕShokuryŕGakkaishi = Journal of Japanese Society of Nutrition and Food Science, 2007, 60, 11-17.	0.2	3
107	Effects of reactive radicals and heat on trans-isomerization of eicosapentaenoic acid. Fisheries Science, 2007, 73, 897-901.	1.6	2
108	Digestion and Absorption of Sphingolipids as Functional Food Components. Nihon EiyŕShokuryŕGakkai Shi = Nippon EiyŕShokuryŕGakkaishi = Journal of Japanese Society of Nutrition and Food Science, 2013, 66, 177-183.	0.2	2

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109	Microanalysis of Triacylglycerol Hydroperoxides by Chemiluminescence-HPLC Assay. Journal of Japan Oil Chemists' Society, 1999, 48, 1391-1395,1418.	0.3	2
110	<b>A role for scavenger receptor B1 as a captor of specific fatty acids in taste buds of circumvallate papillae </b> . Biomedical Research, 2018, 39, 295-300.	0.9	1
111	Effects of feeding on plasma concentrations of vitamin A in captive African penguins ( <i>Spheniscus demersus</i> ). Journal of Veterinary Medical Science, 2019, 81, 1580-1585.	0.9	1
112	IV(5) My notions to the role of the Japanese Society of Fisheries Science. Nippon Suisan Gakkaishi, 2008, 74, 1121.	0.1	0
113	III-3. Prevention of skin photoaging by carotenoids. Nippon Suisan Gakkaishi, 2011, 77, 266.	0.1	O
114	Dietary Effects of Oxidized Eicosapentaenoic Acid (EPA) and Intact EPA on Hepatic Steatosis Induced by a High-sucrose Diet and Liver-X-receptor $\hat{l}_{\pm}$ Agonist in Mice. Journal of Oleo Science, 2016, 65, 233-240.	1.4	0
115	Assessment of direct interaction between CD36 and an oxidized glycerophospholipid species. Journal of Biochemistry, 2017, 162, 63-63.	1.7	0
116	Inhibitory effect of carotenoids on the degranulation of mast cell. Oleoscience, 2012, 12, 509-514.	0.0	0