

Nichole A Reisdorph

List of Publications by Year in descending order

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123
papers

5,001
citations

94433

37
h-index

102487

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127
all docs

127
docs citations

127
times ranked

8119
citing authors

#	ARTICLE	IF	CITATIONS
1	Pathogenic CD4 T cells in type 1 diabetes recognize epitopes formed by peptide fusion. <i>Science</i> , 2016, 351, 711-714.	12.6	407
2	Chronic Nicotinamide riboside supplementation is well-tolerated and elevates NAD ⁺ in healthy middle-aged and older adults. <i>Nature Communications</i> , 2018, 9, 1286.	12.8	406
3	MPYS, a Novel Membrane Tetraspanner, Is Associated with Major Histocompatibility Complex Class II and Mediates Transduction of Apoptotic Signals. <i>Molecular and Cellular Biology</i> , 2008, 28, 5014-5026.	2.3	363
4	Chromogranin A is an autoantigen in type 1 diabetes. <i>Nature Immunology</i> , 2010, 11, 225-231.	14.5	303
5	Plasma Sphingolipids Associated with Chronic Obstructive Pulmonary Disease Phenotypes. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2015, 191, 275-284.	5.6	137
6	Analysis of 25 underivatized amino acids in human plasma using ion-pairing reversed-phase liquid chromatography/electrospray ionization mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 2007, 21, 2717-2726.	1.5	134
7	Comparative proteomic profiling of patients with atopic dermatitis based on history of eczema herpeticum infection and <i>Staphylococcus aureus</i> colonization. <i>Journal of Allergy and Clinical Immunology</i> , 2011, 127, 186-193.e11.	2.9	116
8	B Cell Activity Is Impaired in Human and Mouse Obesity and Is Responsive to an Essential Fatty Acid upon Murine Influenza Infection. <i>Journal of Immunology</i> , 2017, 198, 4738-4752.	0.8	115
9	Peripheral Blood Mononuclear Cell Gene Expression in Chronic Obstructive Pulmonary Disease. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2013, 49, 316-323.	2.9	110
10	New sample preparation approach for mass spectrometry-based profiling of plasma results in improved coverage of metabolome. <i>Journal of Chromatography A</i> , 2013, 1300, 217-226.	3.7	108
11	The application of ion mobility mass spectrometry to metabolomics. <i>Current Opinion in Chemical Biology</i> , 2018, 42, 60-66.	6.1	90
12	Perspective: Dietary Biomarkers of Intake and Exposure—Exploration with Omics Approaches. <i>Advances in Nutrition</i> , 2020, 11, 200-215.	6.4	79
13	Single-Cell and Population Transcriptomics Reveal Pan-epithelial Remodeling in Type 2-High Asthma. <i>Cell Reports</i> , 2020, 32, 107872.	6.4	78
14	Aluminum adjuvants elicit fibrin-dependent extracellular traps in vivo. <i>Blood</i> , 2010, 116, 5191-5199.	1.4	75
15	An insulin-IAPP hybrid peptide is an endogenous antigen for CD4 T cells in the non-obese diabetic mouse. <i>Journal of Autoimmunity</i> , 2017, 78, 11-18.	6.5	75
16	SIRT3 deficiency-induced mitochondrial dysfunction and inflammasome formation in the brain. <i>Scientific Reports</i> , 2018, 8, 17547.	3.3	72
17	The CPH1 Gene of <i>Chlamydomonas reinhardtii</i> Encodes Two Forms of Cryptochrome Whose Levels Are Controlled by Light-Induced Proteolysis. <i>Plant Physiology</i> , 2004, 134, 1546-1554.	4.8	71
18	Proteomics in Pulmonary Medicine. <i>Chest</i> , 2006, 130, 567-574.	0.8	68

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19	Human rhinovirus capsid dynamics is controlled by canyon flexibility. <i>Virology</i> , 2003, 314, 34-44.	2.4	66
20	Exploratory Metabolomics Profiling in the Kainic Acid Rat Model Reveals Depletion of 25-Hydroxyvitamin D3 during Epileptogenesis. <i>Scientific Reports</i> , 2016, 6, 31424.	3.3	65
21	Increased Cell Surface Fas Expression Is Necessary and Sufficient To Sensitize Lung Fibroblasts to Fas Ligation-Induced Apoptosis: Implications for Fibroblast Accumulation in Idiopathic Pulmonary Fibrosis. <i>Journal of Immunology</i> , 2011, 187, 527-537.	0.8	64
22	Metabolomics and transcriptomics pathway approach reveals outcome-specific perturbations in COPD. <i>Scientific Reports</i> , 2018, 8, 17132.	3.3	62
23	Effects of sodium nitrite supplementation on vascular function and related small metabolite signatures in middle-aged and older adults. <i>Journal of Applied Physiology</i> , 2016, 120, 416-425.	2.5	58
24	Microbiome and metabolome data integration provides insight into health and disease. <i>Translational Research</i> , 2017, 189, 51-64.	5.0	58
25	Urinary leukotriene E4 levels identify children with tobacco smoke exposure at risk for asthma exacerbation. <i>Journal of Allergy and Clinical Immunology</i> , 2011, 128, 323-327.	2.9	57
26	Identification of Hybrid Insulin Peptides (HIPs) in Mouse and Human Islets by Mass Spectrometry. <i>Journal of Proteome Research</i> , 2019, 18, 814-825.	3.7	56
27	A Novel, In-solution Separation of Endogenous Cardiac Sarcomeric Proteins and Identification of Distinct Charged Variants of Regulatory Light Chain. <i>Molecular and Cellular Proteomics</i> , 2010, 9, 1804-1818.	3.8	53
28	Peeling off the layers: Skin taping and a novel proteomics approach to study atopic dermatitis. <i>Journal of Allergy and Clinical Immunology</i> , 2009, 124, 1113-1115.e11.	2.9	49
29	Islet Amyloid Polypeptide Is a Target Antigen for Diabetogenic CD4+ T Cells. <i>Diabetes</i> , 2011, 60, 2325-2330.	0.6	49
30	The Association of Adiponectin with Computed Tomography Phenotypes in Chronic Obstructive Pulmonary Disease. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2013, 188, 561-566.	5.6	48
31	MSPrepâ€”Summarization, normalization and diagnostics for processing of mass spectrometryâ€”based metabolomic data. <i>Bioinformatics</i> , 2014, 30, 133-134.	4.1	48
32	Resolvin E1 derived from eicosapentaenoic acid prevents hyperinsulinemia and hyperglycemia in a host genetic manner. <i>FASEB Journal</i> , 2020, 34, 10640-10656.	0.5	43
33	Discovery of highly specific protein markers for the identification of biological stains. <i>Electrophoresis</i> , 2014, 35, 3069-3078.	2.4	42
34	Specialized Pro-Resolving Lipid Mediators Regulate Ozone-Induced Pulmonary and Systemic Inflammation. <i>Toxicological Sciences</i> , 2018, 163, 466-477.	3.1	42
35	Transient and Persistent Metabolomic Changes in Plasma following Chronic Cigarette Smoke Exposure in a Mouse Model. <i>PLoS ONE</i> , 2014, 9, e101855.	2.5	41
36	Predictors of asthma control and lung function responsiveness to step 3 therapy in children with uncontrolled asthma. <i>Journal of Allergy and Clinical Immunology</i> , 2014, 133, 350-356.	2.9	40

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37	Performance of a High-Pressure Liquid Chromatography-Ion Mobility-Mass Spectrometry System for Metabolic Profiling. <i>Analytical Chemistry</i> , 2017, 89, 6384-6391.	6.5	40
38	Regulation of kynurenine metabolism by a ketogenic diet. <i>Journal of Lipid Research</i> , 2018, 59, 958-966.	4.2	40
39	Frontline Science: A reduction in DHA-derived mediators in male obesity contributes toward defects in select B cell subsets and circulating antibody. <i>Journal of Leukocyte Biology</i> , 2019, 106, 241-257.	3.3	38
40	Altered mitochondrial acetylation profiles in a kainic acid model of temporal lobe epilepsy. <i>Free Radical Biology and Medicine</i> , 2018, 123, 116-124.	2.9	37
41	Progressive loss of desiccation tolerance in germinating pea (<i>Pisum sativum</i>) seeds. <i>Physiologia Plantarum</i> , 1999, 105, 265-271.	5.2	36
42	Leukotriene-E4 in human urine: Comparison of on-line purification and liquid chromatography-tandem mass spectrometry to affinity purification followed by enzyme immunoassay. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2009, 877, 3169-3174.	2.3	36
43	Sarcoendoplasmic Reticulum Ca ²⁺ ATPase. A Critical Target in Chlorine Inhalation-Induced Cardiotoxicity. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2015, 52, 492-502.	2.9	36
44	Steroidogenic enzyme Cyp11a1 regulates Type 2 CD8 ⁺ T cell skewing in allergic lung disease. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 8152-8157.	7.1	35
45	Impact of Blood Collection Tubes and Sample Handling Time on Serum and Plasma Metabolome and Lipidome. <i>Metabolites</i> , 2018, 8, 88.	2.9	35
46	Improved motor and cognitive performance with sodium nitrite supplementation is related to small metabolite signatures: a pilot trial in middle-aged and older adults. <i>Aging</i> , 2015, 7, 1004-1021.	3.1	35
47	Verification of protein biomarker specificity for the identification of biological stains by quadrupole time-of-flight mass spectrometry. <i>Electrophoresis</i> , 2017, 38, 833-845.	2.4	34
48	Bronchoalveolar Lavage Fluid from COPD Patients Reveals More Compounds Associated with Disease than Matched Plasma. <i>Metabolites</i> , 2019, 9, 157.	2.9	32
49	Integrative Omics Approach Identifies Interleukin-16 as a Biomarker of Emphysema. <i>OMICS A Journal of Integrative Biology</i> , 2013, 17, 619-626.	2.0	31
50	Redox modulation of NQO1. <i>PLoS ONE</i> , 2018, 13, e0190717.	2.5	31
51	Lung Microbiota and Metabolites Collectively Associate with Clinical Outcomes in Milder Stage Chronic Obstructive Pulmonary Disease. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2022, 206, 427-439.	5.6	31
52	Determining the presence of asthma-related molecules and salivary contamination in exhaled breath condensate. <i>Respiratory Research</i> , 2017, 18, 57.	3.6	30
53	The effect of cysteine oxidation on DJ-1 cytoprotective function in human alveolar type II cells. <i>Cell Death and Disease</i> , 2019, 10, 638.	6.3	27
54	Defining decreased protein succinylation of failing human cardiac myofibrils in ischemic cardiomyopathy. <i>Journal of Molecular and Cellular Cardiology</i> , 2020, 138, 304-317.	1.9	27

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55	Regulation of Vascular Contractility and Blood Pressure by the E2F2 Transcription Factor. <i>Circulation</i> , 2009, 120, 1213-1221.	1.6	26
56	SPLUNC1 regulation in airway epithelial cells: role of toll-like receptor 2 signaling. <i>Respiratory Research</i> , 2010, 11, 155.	3.6	26
57	Amino acid and lipid associated plasma metabolomic patterns are related to healthspan indicators with ageing. <i>Clinical Science</i> , 2018, 132, 1765-1777.	4.3	26
58	Sex Differences in Pulmonary Eicosanoids and Specialized Pro-Resolving Mediators in Response to Ozone Exposure. <i>Toxicological Sciences</i> , 2021, 183, 170-183.	3.1	25
59	Multi-step Preparation Technique to Recover Multiple Metabolite Compound Classes for In-depth and Informative Metabolomic Analysis. <i>Journal of Visualized Experiments</i> , 2014, , .	0.3	24
60	Metabolic Markers of Hypoxia: Systems Biology Application in Biomedicine. <i>Toxicology Mechanisms and Methods</i> , 2008, 18, 81-95.	2.7	22
61	Plasma Metabolomic Signatures of Chronic Obstructive Pulmonary Disease and the Impact of Genetic Variants on Phenotype-Driven Modules. <i>Network and Systems Medicine</i> , 2020, 3, 159-181.	2.5	22
62	Developing preliminary blood metabolomics-based biomarkers of insufficient sleep in humans. <i>Sleep</i> , 2020, 43, .	1.1	21
63	Metabolomic similarities between bronchoalveolar lavage fluid and plasma in humans and mice. <i>Scientific Reports</i> , 2017, 7, 5108.	3.3	19
64	Gene and metabolite time-course response to cigarette smoking in mouse lung and plasma. <i>PLoS ONE</i> , 2017, 12, e0178281.	2.5	19
65	A redox-mediated conformational change in NQO1 controls binding to microtubules and α -tubulin acetylation. <i>Redox Biology</i> , 2021, 39, 101840.	9.0	19
66	Metabolomic Profiling Reveals Sex Specific Associations with Chronic Obstructive Pulmonary Disease and Emphysema. <i>Metabolites</i> , 2021, 11, 161.	2.9	19
67	Nutrimetabolomics reveals food-specific compounds in urine of adults consuming a DASH-style diet. <i>Scientific Reports</i> , 2020, 10, 1157.	3.3	18
68	Altered tissue specialized pro-resolving mediators in chronic rhinosinusitis. <i>Prostaglandins Leukotrienes and Essential Fatty Acids</i> , 2021, 164, 102218.	2.2	18
69	Changing desiccation tolerance of pea embryo protoplasts during germination. <i>Journal of Experimental Botany</i> , 2003, 54, 1607-1614.	4.8	17
70	Early Mechanistic Events Induced by Low Molecular Weight Polycyclic Aromatic Hydrocarbons in Mouse Lung Epithelial Cells: A Role for Eicosanoid Signaling. <i>Toxicological Sciences</i> , 2019, 169, 180-193.	3.1	17
71	Quantifying Competition among Mitochondrial Protein Acylation Events Induced by Ethanol Metabolism. <i>Journal of Proteome Research</i> , 2019, 18, 1513-1531.	3.7	17
72	A Perspective and Framework for Developing Sample Type Specific Databases for LC/MS-Based Clinical Metabolomics. <i>Metabolites</i> , 2020, 10, 8.	2.9	16

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73	GPR18 drives FAAH inhibition-induced neuroprotection against HIV-1 Tat-induced neurodegeneration. <i>Experimental Neurology</i> , 2021, 341, 113699.	4.1	15
74	Impaired non-homologous end joining in human primary alveolar type II cells in emphysema. <i>Scientific Reports</i> , 2019, 9, 920.	3.3	13
75	Lipidomics-Based Comparison of Molecular Compositions of Green, Yellow, and Red Bell Peppers. <i>Metabolites</i> , 2021, 11, 241.	2.9	13
76	Improved quantification of lipid mediators in plasma and tissues by liquid chromatography tandem mass spectrometry demonstrates mouse strain specific differences. <i>Prostaglandins and Other Lipid Mediators</i> , 2020, 151, 106483.	1.9	13
77	Hands-on Workshops as An Effective Means of Learning Advanced Technologies Including Genomics, Proteomics and Bioinformatics. <i>Genomics, Proteomics and Bioinformatics</i> , 2013, 11, 368-377.	6.9	12
78	Lipid nanoparticle formulation of niclosamide (nano NCM) effectively inhibits SARS-CoV-2 replication in vitro. <i>Precision Nanomedicine</i> , 2021, 4, 724-737.	0.8	11
79	Protein structure characterization with mass spectrometry. <i>Spectroscopy</i> , 2004, 18, 37-47.	0.8	10
80	Regulation of calcium release from the endoplasmic reticulum by the serine hydrolase ABHD2. <i>Biochemical and Biophysical Research Communications</i> , 2017, 490, 1226-1231.	2.1	10
81	A prototypic small molecule database for bronchoalveolar lavage-based metabolomics. <i>Scientific Data</i> , 2018, 5, 180060.	5.3	10
82	Quantitation of peptides from non-invasive skin tapings using isotope dilution and tandem mass spectrometry. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2018, 1084, 132-140.	2.3	10
83	Collection and Storage of Human Plasma for Measurement of Oxylipins. <i>Metabolites</i> , 2021, 11, 137.	2.9	10
84	Association of Lipid Mediators With Development of Future Incident Inflammatory Arthritis in an Anti-“Citruinated Protein Antibody”-Positive Population. <i>Arthritis and Rheumatology</i> , 2021, 73, 955-962.	5.6	10
85	Untargeted Differential Metabolomics Analysis Using Drift Tube Ion Mobility-Mass Spectrometry. <i>Methods in Molecular Biology</i> , 2020, 2084, 55-78.	0.9	10
86	Biomarkers of immunosuppressive drug toxicity. <i>Current Opinion in Organ Transplantation</i> , 2005, 10, 284-294.	1.6	9
87	Alterations in the human lung proteome with lipopolysaccharide. <i>BMC Pulmonary Medicine</i> , 2009, 9, 20.	2.0	9
88	Multivalent lipid targeting by the calcium-independent C2A domain of synaptotagmin-like protein 4/granuphilin. <i>Journal of Biological Chemistry</i> , 2021, 296, 100159.	3.4	8
89	Discovering metabolite quantitative trait loci in asthma using an isolated population. <i>Journal of Allergy and Clinical Immunology</i> , 2022, 149, 1807-1811.e16.	2.9	8
90	Lipid mediators are detectable in the nasal epithelium and differ by asthma status in female subjects. <i>Journal of Allergy and Clinical Immunology</i> , 2022, , .	2.9	8

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91	Lower citrate synthase activity, mitochondrial complex expression, and fewer oxidative myofibers characterize skeletal muscle from growth-restricted fetal sheep. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2022, 322, R228-R240.	1.8	8
92	Systems Analysis of Gut Microbiome Influence on Metabolic Disease in HIV-Positive and High-Risk Populations. <i>MSystems</i> , 2021, 6, .	3.8	7
93	Tonic endocannabinoid signaling supports sleep through development in both sexes. <i>Sleep</i> , 2022, 45, .	1.1	7
94	Comparing the effects of an exposure to a polycyclic aromatic hydrocarbon mixture versus individual polycyclic aromatic hydrocarbons during monocyte to macrophage differentiation: Mixture exposure results in altered immune metrics. <i>Journal of Applied Toxicology</i> , 2021, 41, 1568-1583.	2.8	6
95	Dietary fat promotes antibiotic-induced <i>Clostridioides difficile</i> mortality in mice. <i>Npj Biofilms and Microbiomes</i> , 2022, 8, 15.	6.4	6
96	Proteomics methods and applications for the practicing clinician. <i>Annals of Allergy, Asthma and Immunology</i> , 2009, 102, 523-529.	1.0	5
97	A recording chamber for small volume slice electrophysiology. <i>Journal of Neurophysiology</i> , 2015, 114, 2053-2064.	1.8	5
98	Application of Metabolomics in Lung Research. <i>Methods in Molecular Biology</i> , 2018, 1809, 263-288.	0.9	5
99	Multi-omics Analysis of Liver Infiltrating Macrophages Following Ethanol Consumption. <i>Scientific Reports</i> , 2019, 9, 7776.	3.3	5
100	Transcriptome and metabolome changes induced by bitter melon (<i>Momordica charantia</i>)- intake in a high-fat diet induced obesity model. <i>Journal of Traditional and Complementary Medicine</i> , 2021, 12, 287-301.	2.7	5
101	Changes in ovarian protein expression during primordial follicle formation in the hamster. <i>Molecular and Cellular Endocrinology</i> , 2012, 348, 87-94.	3.2	3
102	Maternal Amino Acid Profiles to Distinguish Constitutionally Small versus Growth-Restricted Fetuses Defined by Doppler Ultrasound: A Pilot Study. <i>American Journal of Perinatology</i> , 2020, 37, 1084-1093.	1.4	3
103	Metabolomics Mass Spectrometry Data Processing: Applications in Food Analysis. , 2021, , 339-352.		3
104	SPM Pathway Marker Analysis of the Brains of Obese Mice in the Absence and Presence of Eicosapentaenoic Acid Ethyl Esters. <i>Prostaglandins Leukotrienes and Essential Fatty Acids</i> , 2021, 175, 102360.	2.2	3
105	Specialized pro-resolving mediator lipidome and 16S rRNA bacterial microbiome data associated with human chronic rhinosinusitis. <i>Data in Brief</i> , 2021, 36, 107023.	1.0	2
106	Mining the liver proteome for drug targets for sepsis*. <i>Critical Care Medicine</i> , 2007, 35, 2443-2444.	0.9	1
107	A mass spectrometry based predictive strategy reveals ADAP1 is phosphorylated at tyrosine 364. <i>Rapid Communications in Mass Spectrometry</i> , 2018, 32, 1173-1180.	1.5	1
108	Application of Proteomics in Lung Research. <i>Methods in Molecular Biology</i> , 2018, 1809, 237-262.	0.9	1

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109	Astaxanthin Levels Are Higher in Fresh Salmon Compared to Canned and Pouch Varieties. <i>Current Developments in Nutrition</i> , 2020, 4, nzaa041_032.	0.3	1
110	Proteomics and Metabolomics and Their Application to Analgesia Research. <i>Methods in Molecular Biology</i> , 2010, 617, 457-473.	0.9	1
111	Foodomics Analysis of a Mediterranean Diet Reveals Food-Specific Compounds That Are Detected in Human Plasma. <i>Current Developments in Nutrition</i> , 2022, 6, 368.	0.3	1
112	Unique-to-Salmon Compounds Increase in Plasma and Are Associated With Cardiovascular Health Following a Mediterranean Diet Intervention. <i>Current Developments in Nutrition</i> , 2022, 6, 286.	0.3	1
113	In-Solution Proteomic Workflow for Purification of Endogenous Sarcomeric Proteins and Identification of Distinct Charged Variants of Regulatory Light Chain. <i>Biophysical Journal</i> , 2009, 96, 502a-503a.	0.5	0
114	Identification Of S. Mansoni Peptides In Schistosomiasis-Associated Pulmonary Hypertension. , 2011, , .		0
115	The Steroidogenic Enzyme Cyp11a1 Is Essential for CD8+ Tc2 Conversion to Enhance Allergen-Induced Airway Hyperresponsiveness and Inflammation. <i>Journal of Allergy and Clinical Immunology</i> , 2013, 131, AB192.	2.9	0
116	Systems Biology Approaches to Asthma Management. , 2018, , 151-160.		0
117	0041 Preliminary Identification and Validation of a Plasma Metabolome-Based Biomarker for Circadian Phase in Humans. <i>Sleep</i> , 2019, 42, A17-A17.	1.1	0
118	Bell Peppers Provide Consistent Î²-cryptoxanthin Content Independent of Organic Status, Fresh, or Cooked, North American Country of Origin and Season. <i>Current Developments in Nutrition</i> , 2020, 4, nzaa041_033.	0.3	0
119	Comparison of reported versus measured content of over-the-counter and prescription prenatal multivitamins and minerals. <i>Journal of the American Pharmacists Association: JAPhA</i> , 2021, 61, 233-239.	1.5	0
120	Redox Modulation of NQO1. <i>FASEB Journal</i> , 2018, 32, .	0.5	0
121	Eicosapentaenoic Acid Prevents Obesityâ€­induced Metabolic Impairments through The Hostâ€­genetic Dependent Effects of Resolvin E1. <i>FASEB Journal</i> , 2020, 34, 1-1.	0.5	0
122	0214 Effects of Simulated Night-Shiftwork Induced Circadian Misalignment on the Human Plasma Metabolome. <i>Sleep</i> , 2022, 45, A97-A98.	1.1	0
123	Intake of Salmon Fillets Elevates Plasma Astaxanthin Levels in Human Subjects. <i>Current Developments in Nutrition</i> , 2022, 6, 62.	0.3	0