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**A major inducer of anticarcinogenic protective enzymes from broccoli: isolation and elucidation of structure**

**DOI: 10.1073/pnas.89.6.2399**

**Proceedings of the National Academy of Sciences of the United States of America, 1992, 89, 2399-403.**

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1442	Rapid detection of inducers of enzymes that protect against carcinogens. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>1992</b> , 89, 2394-8	11.5	316
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720	Absorption of aminoethyl cysteine ketimine decarboxylated dimer in mice: effect on plasma antioxidant potential. <b>2012</b> , 60, 4596-602	3
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710	Natural sulforaphane as a functional chemopreventive agent: including a review of isolation, purification and analysis methods. <b>2012</b> , 32, 218-34	33
709	Mechanisms for countering oxidative stress and damage in retinal pigment epithelium. <b>2012</b> , 298, 135-77	79
708	Spanish black radish ( <i>Raphanus sativus</i> L. Var. <i>niger</i> ) diet enhances clearance of DMBA and diminishes toxic effects on bone marrow progenitor cells. <b>2012</b> , 64, 1038-48	9
707	Quantitative profiling of glucosinolates by LC-MS analysis reveals several cultivars of cabbage and kale as promising sources of sulforaphane. <b>2012</b> , 903, 171-6	38
706	Amniotic fluid activates the nrf2/keap1 pathway to repair an epidermal barrier defect in utero. <b>2012</b> , 23, 1238-46	46

705	Crucial facts about health benefits of popular cruciferous vegetables. <b>2012</b> , 4, 94-106	162
704	Pharmacokinetics and pharmacodynamics of phase II drug metabolizing/antioxidant enzymes gene response by anticancer agent sulforaphane in rat lymphocytes. <b>2012</b> , 9, 2819-27	19
703	&lt;i>In vitro&/i> Bile Acid Binding of Mustard Greens, Kale, Broccoli, Cabbage and Green Bell Pepper Improves with Saut&#233;ing Compared with Raw or Other Methods of Preparation. <b>2012</b> , 03, 951-958	6
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694	The molecular basis that unifies the metabolism, cellular uptake and chemopreventive activities of dietary isothiocyanates. <b>2012</b> , 33, 2-9	93
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689	Role of 4-hydroxynonenal in chemopreventive activities of sulforaphane. <i>Free Radical Biology and Medicine</i> , <b>2012</b> , 52, 2177-85	7.8 18
688	Sulforaphane, a cruciferous vegetable-derived isothiocyanate, inhibits protein synthesis in human prostate cancer cells. <b>2012</b> , 1823, 1295-305	45

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370	Isothiocyanates and Xenobiotic Detoxification. <b>2018</b> , 62, e1700916		12
369	Comparison of Adaptive Neuroprotective Mechanisms of Sulforaphane and its Interconversion Product Erucin in in Vitro and in Vivo Models of Parkinson's Disease. <b>2018</b> , 66, 856-865		32
368	Sulforaphane Modifies Histone H3, Unpacks Chromatin, and Primes Defense. <b>2018</b> , 176, 2395-2405		27
367	Design, Synthesis, and Evaluation of [(Isothiocyanato)alkyl]phosphinates and Phosphine Oxides as Antiproliferative Agents. <i>ChemMedChem</i> , <b>2018</b> , 13, 105-115	3.7	7
366	Reconstitution of Medicinally Important Plant Natural Products in Microorganisms. <b>2018</b> , 383-415		3
365	Effects of application timing of saline irrigation water on broccoli production and quality. <b>2018</b> , 203, 97-104		23
364	Resistance to <i>Sclerotinia sclerotiorum</i> in wild Brassica species and the importance of <i>Sclerotinia subarctica</i> as a Brassica pathogen. <b>2018</b> , 67, 433-444		20

363	The role of Sulforaphane in cancer chemoprevention and health benefits: a mini-review. <b>2018</b> , 12, 91-101	69
362	Aging-related decline in the induction of Nrf2-regulated antioxidant genes in human bronchial epithelial cells. <b>2018</b> , 14, 35-40	92
361	Sulforaphane improves disrupted ER-mitochondria interactions and suppresses exaggerated hepatic glucose production. <b>2018</b> , 461, 205-214	21
360	In vivo study of erysolin metabolic profile by ultra high performance liquid chromatography coupled to Fourier transform ion cyclotron resonance mass spectrometry. <b>2018</b> , 1072, 173-181	3
359	Development and optimization of sulforaphane-loaded nanostructured lipid carriers by the Box-Behnken design for improved oral efficacy against cancer: in vitro, ex vivo and in vivo assessments. <b>2018</b> , 46, 15-31	47
358	Oxidative stress and dietary phytochemicals: Role in cancer chemoprevention and treatment. <b>2018</b> , 413, 122-134	280
357	Anti-cancer effects of naturally derived compounds targeting histone deacetylase 6-related pathways. <i>Pharmacological Research</i> , <b>2018</b> , 129, 337-356	10.2 28
356	Crop Systems, Quality and Protection of <i>Diplotaxis tenuifolia</i> . <b>2018</b> , 8, 55	29
355	. <b>2018</b> ,	3
354	Biosynthesis of Cyanogenic Glycosides, Glucosinolates and Non-Protein Amino Acids. <b>2018</b> , 92-181	3
353	Biosynthesis of Cyanogenic Glycosides, Glucosinolates and Nonprotein Amino Acids. <b>2018</b> , 77-146	
352	Sulforaphane from Cruciferous Vegetables: Recent Advances to Improve Glioblastoma Treatment. <b>2018</b> , 10,	17
351	Sulforaphane inhibits growth and blocks Wnt/ $\beta$ -catenin signaling of colorectal cancer cells. <b>2018</b> , 9, 33982-33994	5
350	Absorption and metabolism of isothiocyanates formed from broccoli glucosinolates: effects of BMI and daily consumption in a randomised clinical trial. <b>2018</b> , 120, 1370-1379	21
349	Genome-wide identification and analysis of Nrf2 binding sites - Antioxidant response elements in zebrafish. <b>2018</b> , 360, 236-248	5
348	Isothiocyanates for Human Health. <b>2018</b> , 62, e1870079	9
347	Essential Role of Keap1-Nrf2 Signaling in Mood Disorders: Overview and Future Perspective. <b>2018</b> , 9, 1182	48
346	Medicinal Plants Against Cancer. <b>2018</b> , 139-196	0

345	p62-Keap1-NRF2-ARE Pathway: A Contentious Player for Selective Targeting of Autophagy, Oxidative Stress and Mitochondrial Dysfunction in Prion Diseases. <b>2018</b> , 11, 310		31
344	A REVIEW ON POTENTIAL USES OF CULINARY VEGETABLES USED IN ROUTINE LIFE AS AN ANTICANCER AGENT. <b>2018</b> , 11, 21		0
343	Sulforaphane protects rabbit corneas against oxidative stress injury in keratoconus through activation of the Nrf-2/HO-1 antioxidant pathway. <b>2018</b> , 42, 2315-2328		8
342	Supplementation of the Diet by Exogenous Myrosinase via Mustard Seeds to Increase the Bioavailability of Sulforaphane in Healthy Human Subjects after the Consumption of Cooked Broccoli. <b>2018</b> , 62, e1700980		19
341	The Diversity of Chemoprotective Glucosinolates in Moringaceae ( <i>Moringa</i> spp.). <b>2018</b> , 8, 7994		28
340	Separation and purification of sulforaphane (1-isothiocyanato-4-(methylsulfinyl) butane) from broccoli seeds by consecutive steps of adsorption-desorption-bleaching. <b>2018</b> , 237, 162-170		5
339	The isothiocyanate sulforaphane modulates platelet function and protects against cerebral thrombotic dysfunction. <b>2018</b> , 175, 3333-3346		9
338	Inducers of Senescence, Toxic Compounds, and Senolytics: The Multiple Faces of Nrf2-Activating Phytochemicals in Cancer Adjuvant Therapy. <b>2018</b> , 2018, 4159013		38
337	Differentiating Antiproliferative and Chemopreventive Modes of Activity for Electron-Deficient Aryl Isothiocyanates against Human MCF-7 Cells. <i>ChemMedChem</i> , <b>2018</b> , 13, 1695-1710	3-7	3
336	Phosphorus-containing isothiocyanate-derived mercapturic acids as a useful alternative for parental isothiocyanates in experimental oncology. <b>2018</b> , 28, 2611-2615		2
335	Structures of isothiocyanates attributed to reactive oxygen species generation and microtubule depolymerization in HepG2 cells. <b>2018</b> , 101, 698-709		16
334	Insights on Localized and Systemic Delivery of Redox-Based Therapeutics. <b>2018</b> , 2018, 2468457		7
333	Phenolics from <i>Barleria cristata</i> var. <i>Alba</i> as carcinogenesis blockers against menadione cytotoxicity through induction and protection of quinone reductase. <b>2018</b> , 18, 163		4
332	Cruciferous Vegetables, Isothiocyanates, and Bladder Cancer Prevention. <b>2018</b> , 62, e1800079		66
331	Nrf2 expression and function, but not MT expression, is indispensable for sulforaphane-mediated protection against intermittent hypoxia-induced cardiomyopathy in mice. <b>2018</b> , 19, 11-21		15
330	Biomarkers of Exposure, Effect, and Susceptibility. <b>2018</b> , 188-201		
329	Diet and Cancer. <b>2018</b> ,		
328	Aquaporins as Targets of Dietary Bioactive Phytocompounds. <b>2018</b> , 5, 30		24

327	Targeted Metabolomic and Transcriptomic Analyses of "Red Russian" Kale ( <i>Brassica napus</i> var. <i>pabularia</i> ) Following Methyl Jasmonate Treatment and Larval Infestation by the Cabbage Looper ( <i>Trichoplusia ni</i> Hübner). <b>2018</b> , 19,		7
326	Chemopreventive Activities of Sulforaphane and Its Metabolites in Human Hepatoma HepG2 Cells. <b>2018</b> , 10,		11
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324	Current major degradation methods for aflatoxins: A review. <b>2018</b> , 80, 155-166		45
323	Role of Keap1-Nrf2 Signaling in Anhedonia Symptoms in a Rat Model of Chronic Neuropathic Pain: Improvement With Sulforaphane. <b>2018</b> , 9, 887		19
322	Sulfated Metabolites of Flavonolignans and 2,3-Dehydroflavonolignans: Preparation and Properties. <b>2018</b> , 19,		18
321	From chemo-prevention to epigenetic regulation: The role of isothiocyanates in skin cancer prevention. <b>2018</b> , 190, 187-201		22
320	Storage in high-barrier pouches increases the sulforaphane concentration in broccoli florets. <b>2018</b> , 13, e0192342		8
319	Effects of $\beta$ -, $\gamma$ and maltosyl- $\beta$ -cyclodextrins use on the glucoraphanin-sulforaphane system of broccoli juice. <b>2019</b> , 99, 941-946		9
318	A Comparative Assessment Study of Known Small-Molecule Keap1-Nrf2 Protein-Protein Interaction Inhibitors: Chemical Synthesis, Binding Properties, and Cellular Activity. <b>2019</b> , 62, 8028-8052		42
317	Epigenetic regulation of bone remodeling by natural compounds. <i>Pharmacological Research</i> , <b>2019</b> , 147, 104350	10.2	22
316	Dose-dependent detoxication of the airborne pollutant benzene in a randomized trial of broccoli sprout beverage in Qidong, China. <b>2019</b> , 110, 675-684		15
315	Broccoli or Sulforaphane: Is It the Source or Dose That Matters?. <i>Molecules</i> , <b>2019</b> , 24,	4.8	103
314	Retrospective and Prospective Look at Aflatoxin Research and Development from a Practical Standpoint. <b>2019</b> , 16,		25
313	Sulforaphane enhances apoptosis induced by strain S-PT84 via the TNF $\alpha$ pathway in human colon cancer cells. <b>2019</b> , 18, 4253-4261		6
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310	Organophosphine-free copper-catalyzed isothiocyanation of amines with sodium bromodifluoroacetate and sulfur. <b>2019</b> , 55, 1144-1147		16



309	Inimitable Paul Talalay (1923-2019). <b>2019</b> , 40, 359-361	
308	Magnoliae Cortex extract protects PC12 cells from cytotoxicity induced by hydrogen peroxide or 6-hydroxydopamine through enzyme induction. <b>2019</b> , 6, 107-112	1
307	DNA modifications that do not cause gene mutations confer the potential for mutagenicity by combined treatment with food chemicals. <b>2019</b> , 129, 144-152	2
306	Phytochemical composition and biological activities of differently pigmented cabbage ( <i>Brassica oleracea</i> var. <i>capitata</i> ) and cauliflower ( <i>Brassica oleracea</i> var. <i>botrytis</i> ) varieties. <b>2019</b> , 99, 5499-5507	22
305	The Role of Isothiocyanates as Cancer Chemo-Preventive, Chemo-Therapeutic and Anti-Melanoma Agents. <b>2019</b> , 8,	48
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302	Cancer Biomarkers for Integrative Oncology. <b>2019</b> , 21, 32	2
301	Long non-coding RNAs are emerging targets of phytochemicals for cancer and other chronic diseases. <b>2019</b> , 76, 1947-1966	128
300	Glucosinolates: Molecular structure, breakdown, genetic, bioavailability, properties and healthy and adverse effects. <b>2019</b> , 90, 305-350	40
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298	Antioxidant effects of sulforaphane in human HepG2 cells and immortalised hepatocytes. <b>2019</b> , 128, 129-136	14
297	Sulforaphane improves endothelial function and reduces placental oxidative stress in vitro. <b>2019</b> , 16, 1-10	15
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294	Moringa Isothiocyanate Activates Nrf2: Potential Role in Diabetic Nephropathy. <b>2019</b> , 21, 31	22
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292	Sulforaphane: Its "Coming of Age" as a Clinically Relevant Nutraceutical in the Prevention and Treatment of Chronic Disease. <b>2019</b> , 2019, 2716870	69

291	Influence of Cold or Frozen Storage on Temporal Changes in Sulforaphane and Objective Taste Values of Broccoli ( <i>Brassica oleracea</i> var. <i>italica</i> ) Florets. <b>2019</b> , 57, 45-51	3
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289	Therapeutic targeting of the NRF2 and KEAP1 partnership in chronic diseases. <b>2019</b> , 18, 295-317	476
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282	Phytochemicals and Hormonal Effects. <b>2019</b> , 550-560	3
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277	Melatonin treatment affects the glucoraphanin-sulforaphane system in postharvest fresh-cut broccoli ( <i>Brassica oleracea</i> L.). <b>2020</b> , 307, 125562	27
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270	Different sources of glucosinolates and their derivatives. <b>2020</b> , 143-180	1
269	Sulforaphane and sulforaphene: Two potential anticancer compounds from glucosinolates. <b>2020</b> , 281-312	1
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264	Electrophile Modulation of Inflammation: A Two-Hit Approach. <b>2020</b> , 10,	1
263	A Lesson Learnt from Food Chemistry-Elevated Temperature Triggers the Antioxidant Action of Two Edible Isothiocyanates: Erucin and Sulforaphane. <b>2020</b> , 9,	3
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256	Preparation of Poly(glycidyl methacrylate) (PGMA) and Amine Modified PGMA Adsorbents for Purification of Glucosinolates from Cruciferous Plants. <i>Molecules</i> , <b>2020</b> , 25,	4.8 3

255	Regulation of Selenium/Sulfur Interactions to Enhance Chemopreventive Effects: Lessons to Learn from Brassicaceae. <i>Molecules</i> , <b>2020</b> , 25,	4.8	4
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245	Prediction of Degreening Velocity of Broccoli Buds Using Hyperspectral Camera Combined with Artificial Neural Networks. <b>2020</b> , 9,		4
244	Sulforaphane as an anticancer molecule: mechanisms of action, synergistic effects, enhancement of drug safety, and delivery systems. <b>2020</b> , 43, 371-384		29
243	Obesity and NRF2-mediated cytoprotection: Where is the missing link?. <i>Pharmacological Research</i> , <b>2020</b> , 156, 104760	10.2	39
242	Polyphenols as Possible Agents for Pancreatic Diseases. <b>2020</b> , 9,		7
241	Cancer chemopreventive natural products. <b>2020</b> , 55, 273-295		0
240	Personality traits and bitterness perception influence the liking and intake of pale ale style beers. <b>2020</b> , 86, 103994		7
239	A Functional Vegetable Option: An Exploratory Study Testing Kimchi Variation for Acceptance among Consumers. <b>2020</b> , 1-16		
238	Protective role of NRF2 in macrovascular complications of diabetes. <b>2020</b> , 24, 8903-8917		9

237	The NRF2 Signaling Network Defines Clinical Biomarkers and Therapeutic Opportunity in Friedreich's Ataxia. <b>2020</b> , 21,		17
236	Potential Applications of NRF2 Modulators in Cancer Therapy. <b>2020</b> , 9,		56
235	Measuring Sulforaphane and Its Metabolites in Human Plasma: A High Throughput Method. <i>Molecules</i> , <b>2020</b> , 25,	4.8	11
234	Oxidative stress mediated hepatotoxicity induced by ZNP and modulatory role of fruit extract on male Wistar rat. <b>2020</b> , 7, 492-500		4
233	The Molecular Mechanisms Regulating the KEAP1-NRF2 Pathway. <b>2020</b> , 40,		184
232	Activation of transcription factor Nrf2 to counteract mitochondrial dysfunction in Parkinson's disease. <b>2021</b> , 41, 785-802		17
231	3'-Hydroxypterostilbene Inhibits 7,12-Dimethylbenz[a]anthracene (DMBA)/12-O-Tetradecanoylphorbol-13-Acetate (TPA)-Induced Mouse Skin Carcinogenesis. <b>2021</b> , 81, 153432		2
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229	Epigenetics/Epigenomics and Prevention of Early Stages of Cancer by Isothiocyanates. <b>2021</b> , 14, 151-164		10
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226	Glucosinolates. <b>2021</b> , 41-77		1
225	Sulforaphane Inhibits Osteoclastogenesis via Suppression of the Autophagic Pathway. <i>Molecules</i> , <b>2021</b> , 26,	4.8	7
224	Metabolomic insight into the profile, in vitro bioaccessibility and bioactive properties of polyphenols and glucosinolates from four Brassicaceae microgreens. <b>2021</b> , 140, 110039		10
223	Drug-designing Studies on Sulforaphane Analogues: Pharmacophore Mapping, Molecular Docking and QSAR Modeling. <b>2021</b> , 18, 139-157		4
222	Potential of Sulforaphane as a Natural Immune System Enhancer: A Review. <i>Molecules</i> , <b>2021</b> , 26,	4.8	16
221	Pre-Clinical Neuroprotective Evidences and Plausible Mechanisms of Sulforaphane in Alzheimer's Disease. <b>2021</b> , 22,		6
220	Discovery and SAR studies of 3-amino-4-(phenylsulfonyl)tetrahydrothiophene 1,1-dioxides as non-electrophilic antioxidant response element (ARE) activators. <b>2021</b> , 108, 104614		2

219	Identification of bitter-taste compounds in class-III caramel colours. <b>2021</b> , 36, 404-411		3
218	Amine and thiol functionalization of SBA-15 nanoparticles for highly efficient adsorption of sulforaphane. <b>2021</b> , 32, 779-790		5
217	The Challenges of Designing and Implementing Clinical Trials With Broccoli Sprouts and Turning Evidence Into Public Health Action. <b>2021</b> , 8, 648788		7
216	The Effect of Broccoli Sprout Extract on Seasonal Grass Pollen-Induced Allergic Rhinitis. <b>2021</b> , 13,		2
215	Ferulic Acid Induces Keratin 6B via Inhibition of Nuclear E-Catenin Accumulation and Activation of Nrf2 in Wound-Induced Inflammation. <b>2021</b> , 9,		1
214	Synthesis of Isothiocyanates Using DMT/NMM/TsO as a New Desulfurization Reagent. <i>Molecules</i> , <b>2021</b> , 26,	4.8	2
213	Attenuation of liver mitochondrial oxidative damage by the extract and desulfo glucosinolate fraction of <i>Lepidium perfoliatum</i> L. seeds. <b>2021</b> , 138, 377-385		2
212	Harnessing the cardiovascular benefits of exercise: are Nrf2 activators useful?. <b>2021</b> , 3, 70-70		1
211	Perspectives on natural compounds in chemoprevention and treatment of cancer: an update with new promising compounds. <b>2021</b> , 149, 165-183		12
210	Nanodelivery of natural isothiocyanates as a cancer therapeutic. <i>Free Radical Biology and Medicine</i> , <b>2021</b> , 167, 125-140	7.8	5
209	Nrf2 Activation Attenuates Acrylamide-Induced Neuropathy in Mice. <b>2021</b> , 22,		3
208	Protective Effect of Isothiocyanates from Cruciferous Vegetables on Breast Cancer: Epidemiological and Preclinical Perspectives. <b>2021</b> , 21, 1413-1430		5
207	Sulforaphane inhibits blue light-induced inflammation and apoptosis by upregulating the SIRT1/PGC-1B/Nrf2 pathway and autophagy in retinal pigment epithelial cells. <b>2021</b> , 421, 115545		6
206	Antioxidant Supplements versus Health Benefits of Brief/Intermittent Exposure to Potentially Toxic Physical or Chemical Agents. <b>2021</b> , 43, 650-664		2
205	Sulforaphane activates anti-inflammatory microglia, modulating stress resilience associated with BDNF transcription. <b>2021</b> ,		2
204	Effects of pitaya ( <i>Hylocereus polyrhizus</i> ) fermentation waste dietary supplement on growth performance, and anti-oxidation of Pinnate batfish, <i>Platax pinnatus</i> .		0
203	Composition of the Gut Microbiome Influences Production of Sulforaphane-Nitrile and Iberin-Nitrile from Glucosinolates in Broccoli Sprouts. <b>2021</b> , 13,		2
202	Factors Influencing Sulforaphane Content in Broccoli Sprouts and Subsequent Sulforaphane Extraction. <b>2021</b> , 10,		1

201	Antioxidant activity of two edible isothiocyanates: Sulforaphane and erucin is due to their thermal decomposition to sulfenic acids and methylsulfinyl radicals. <b>2021</b> , 353, 129213	7
200	Neuartige thermische Abbauprodukte von Brassica-Glucosinolaten. <i>Lebensmittelchemie</i> , <b>2021</b> , 75, S075 o	
199	Structural Studies of Aliphatic Glucosinolate Chain-Elongation Enzymes. <b>2021</b> , 10,	0
198	Sensory evaluation, chemical structures, and threshold concentrations of bitter-tasting compounds in common foodstuffs derived from plants and maillard reaction: A review. <i>Critical Reviews in Food Science and Nutrition</i> , <b>2021</b> , 1-41	11.5 1
197	Sulforaphane: A Broccoli Bioactive Phytochemical with Cancer Preventive Potential. <b>2021</b> , 13,	14
196	Metabolic Fate of Dietary Glucosinolates and Their Metabolites: A Role for the Microbiome. <b>2021</b> , 8, 748433	2
195	Mitophagy in Huntington's disease. <b>2021</b> , 149, 105147	1
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