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How to Search ARTICLES?

Scopus Guide

Scopus 를 활용한 학술자료 검색 가이드

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Scopus 시작하기

■ Scopus 란?

세계 각 종 학회(society) 및 학술 출판사(publisher)에서 발행하는 **학술지(Journal)**, **학술회의 발표자료(Conference Proceedings)**, **도서 시리즈(Book Series)** 등에 수록된 자료를 **통합적으로 검색** 할 수 있도록 만들어진 **학술 데이터베이스**

- **검색 대상**

세계 전분야에서 발간되는 학술자료 중 각 주제 분야별로 우수한 연구 결과를 수록하고 있다고 평가되는 학술자료에 수록된 자료

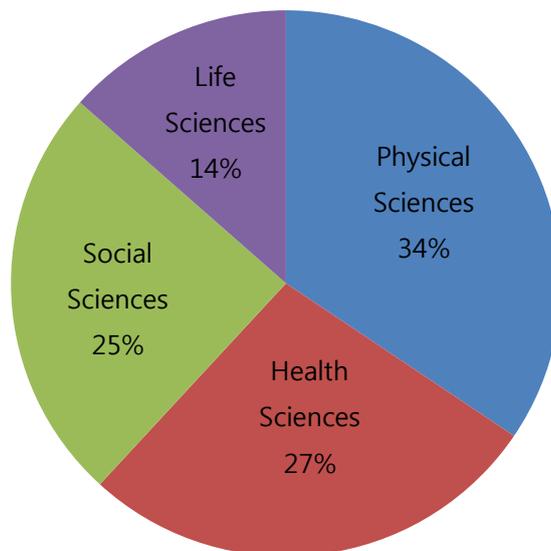
- **주제분야 및 수록된 학술자료**

(Journal, Conference Proceedings, Book Series, Trade Publications)

Scopus 화면 상단 > Browse Sources (총 27개 분야 약 20,000종의 학술지)

20,000 peer-reviewed journals + 390 trade publications + 370 book series (February 2014)

Scopus Subject Area



- **논문 수록 범위**

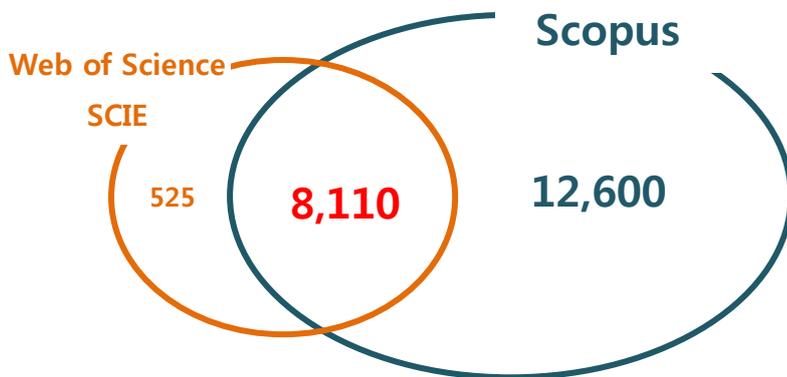
1960년 ~ 현재까지 발표된 자료 (최신 논문 정보는 매 주 갱신됨)

- **특징**

- ① 주요 학술자료에 수록된 **자료의 서지 정보**(논문 제목, 저자, 출판연도, 초록, 키워드 등) + 자료에 수록된 **참고문헌(Reference) 간의 관계를 분석한 정보**
- ② Scopus에 수록된 학술자료의 정보에 기반한 **연구자/연구기관별 연구 성과**
- ③ Scopus에 수록된 논문의 인용 정보에 기반한 **학술지 영향력 지수 분석 (SJR, SNIP)**

■ Scopus vs. Web of Science SCIE

● Scopus와 Web of Science SCIE 수록 학술지(Journal) 종수 비교



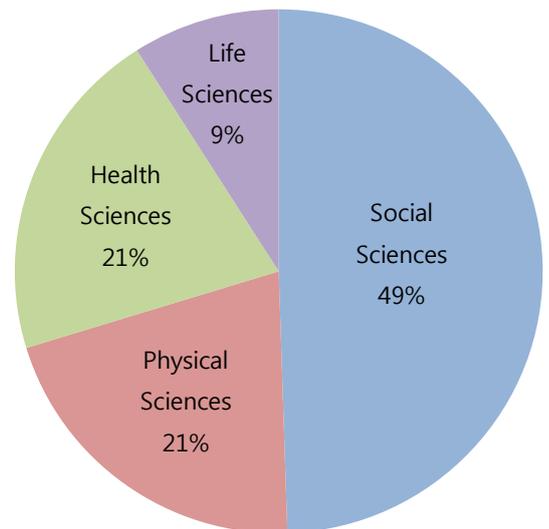
Scopus에 수록된 학술지 논문은 Web of Science SCIE와 약 **40%** 중복됨.

(Web of Science SCIE에 수록된 약 **94%**의 학술지 논문은 Scopus에서도 검색가능)

※ Web of Science 2014년 1월, Scopus 2014년 2월 데이터 기준, (수록하고 있는 논문의 출판연도 범위 무시)

● Scopus에만 수록되어 있는 학술지(Journal)의 주제 분야

Scopus Subject Area	Only Scopus	%
Social Sciences	4262	23%
Medicine	3245	17%
Arts and Humanities	2362	13%
Engineering	1033	6%
Business, Management and Accounting	936	5%
Psychology	887	5%
Economics, Econometrics and Finance	701	4%
Computer Science	608	3%
Agricultural and Biological Sciences	584	3%
Environmental Science	538	3%
Biochemistry, Genetics and Molecular Biology	496	3%
Earth and Planetary Sciences	415	2%
Mathematics	381	2%
Pharmacology, Toxicology and Pharmaceutics	317	2%
Nursing	292	2%
Materials Science	279	1%
Physics and Astronomy	214	1%
Health Professions	207	1%
Energy	160	1%
Neuroscience	154	1%
Chemical Engineering	149	1%
Immunology and Microbiology	144	1%
Decision Sciences	139	1%
Chemistry	127	1%
Dentistry	82	0%
Veterinary	59	0%
Multidisciplinary (General)	69	0%



Scopus 인터페이스

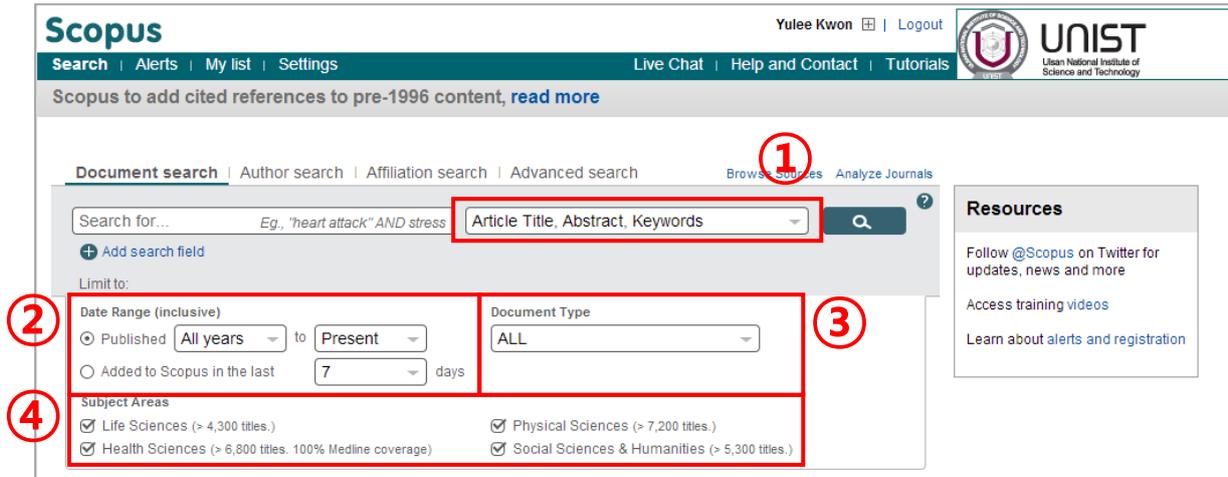
Scopus 접속: 도서관 홈페이지 > FIND > Journals & Databases > Scopus

The screenshot shows the Scopus website interface. At the top, there are navigation links like 'Search', 'Alerts', 'My list', 'Settings', 'Live Chat', 'Help and Contact', and 'Tutorials'. The main search area is highlighted with a red box. It includes a search bar with a placeholder 'Search for...' and a dropdown menu for 'Article Title, Abstract, Keywords'. Below the search bar, there are options to 'Limit to:' with filters for 'Date Range (inclusive)', 'Document Type', and 'Subject Areas'. The 'Subject Areas' section is marked with a red circle 1. To the right of the search area, there are tabs for 'Browse Sources' (marked with a red circle 2) and 'Analyze Journals' (marked with a red circle 3). A 'Resources' sidebar is visible on the right, containing links to follow Scopus on Twitter, access training videos, and learn about alerts and registration. At the bottom, there are links for 'About Scopus', 'Language', 'Customer Service', and 'About Elsevier'.

구분	메뉴	기능
1	Search	<ul style="list-style-type: none"> ✓ Scopus에서 활용할 수 있는 검색 메뉴 ✓ Document search: Scopus 데이터베이스에 수록된 각종 학술자료 검색 ✓ Author search: Scopus 데이터베이스에 수록된 학술자료에 근거하여 연구자(저자) 검색 연구자의 소속기관, 연구 성과, h-index 등을 확인 가능 ✓ Affiliation search: Scopus 데이터베이스에 수록된 학술자료에 근거하여 연구기관 검색 연구기관별 연구 성과, 연구 주제분야, 협력연구기관 등을 확인 가능 ✓ Advanced search: 각종 검색 필드와 키워드를 조합한 검색식으로 자료 검색
2	Browse Sources	<ul style="list-style-type: none"> ✓ Scopus에 수록된 학술자료(Journal, Conference Proceeding, Book Series, Trade Publication)을 검색 또는 주제별로 브라우징 ✓ 학술지(Journal)의 경우 학술지의 영향력을 평가할 수 있는 SJR, SNIP 지수 확인 가능
3	Analyze Journals	<ul style="list-style-type: none"> ✓ Scopus에 수록된 각종 학술지(Journal)의 영향력 지수 (SJR, SNIP)을 분석하여 비교해볼 수 있는 기능 ✓ 나의 연구 분야의 주요 학술지 탐색 또는 논문을 투고하고자 하는 학술지 선정 시 활용 가능

Document search: 학술자료 검색

■ 검색 메뉴

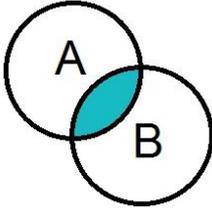
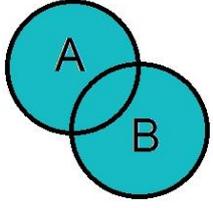
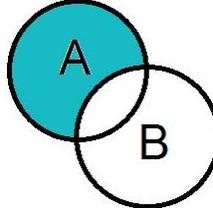


구분	메뉴	기능								
1	Search Field	<ul style="list-style-type: none"> ✓ 키워드로 학술자료 검색 시: Article Title, Abstract, Keywords ✓ 검색 필드 종류: Authors, First Author, Source Title (Journal), Article Title, Abstracts, Keywords, Affiliation (Name, City, Country), Language, ISSN, CODEN, DOI, References, Conference, Chemical Name, CAS Number 								
2	Date Range	<ul style="list-style-type: none"> ✓ 논문을 검색할 시간적 범위 지정 ✓ 논문의 출판연도 또는 Scopus 데이터베이스에 색인된 시기 								
3	Document Type	<ul style="list-style-type: none"> ✓ 검색하고자 하는 학술자료의 유형 ✓ 종류: Article, Review, Article in Press, Book, Book Chapter, Conference Paper, Conference Review, Letter, Editorial, Note, Short Survey, Business Article, Erratum 								
4	Subject Areas	<ul style="list-style-type: none"> ✓ 검색하고자 하는 자료의 주제 범위 지정 <table border="1"> <thead> <tr> <th>Physical Sciences (> 7,200 titles)</th> <th>Life Sciences (> 4,300 titles)</th> <th>Health Sciences (> 6,800 titles)</th> <th>Social Sciences (> 5,300 titles)</th> </tr> </thead> <tbody> <tr> <td> <ul style="list-style-type: none"> ● Chemical Engineering ● Chemistry ● Computer Science ● Earth & Planetary Sciences ● Energy ● Engineering ● Environmental Science ● Materials Science ● Mathematics ● Physics & Astronomy </td> <td> <ul style="list-style-type: none"> ● Agricultural & Biological Sciences ● Biochemistry, Genetics & Molecular Biology ● Immunology & Microbiology ● Neuroscience ● Pharmacology, Toxicology & Pharmaceutics </td> <td> <ul style="list-style-type: none"> ● Dentistry ● Health Professions ● Medicine ● Nursing ● Veterinary </td> <td> <ul style="list-style-type: none"> ● Arts and Humanities ● Business, Management & Accounting ● Decision Sciences ● Economics, Econometrics & Finance ● Psychology ● Social Sciences </td> </tr> </tbody> </table>	Physical Sciences (> 7,200 titles)	Life Sciences (> 4,300 titles)	Health Sciences (> 6,800 titles)	Social Sciences (> 5,300 titles)	<ul style="list-style-type: none"> ● Chemical Engineering ● Chemistry ● Computer Science ● Earth & Planetary Sciences ● Energy ● Engineering ● Environmental Science ● Materials Science ● Mathematics ● Physics & Astronomy 	<ul style="list-style-type: none"> ● Agricultural & Biological Sciences ● Biochemistry, Genetics & Molecular Biology ● Immunology & Microbiology ● Neuroscience ● Pharmacology, Toxicology & Pharmaceutics 	<ul style="list-style-type: none"> ● Dentistry ● Health Professions ● Medicine ● Nursing ● Veterinary 	<ul style="list-style-type: none"> ● Arts and Humanities ● Business, Management & Accounting ● Decision Sciences ● Economics, Econometrics & Finance ● Psychology ● Social Sciences
Physical Sciences (> 7,200 titles)	Life Sciences (> 4,300 titles)	Health Sciences (> 6,800 titles)	Social Sciences (> 5,300 titles)							
<ul style="list-style-type: none"> ● Chemical Engineering ● Chemistry ● Computer Science ● Earth & Planetary Sciences ● Energy ● Engineering ● Environmental Science ● Materials Science ● Mathematics ● Physics & Astronomy 	<ul style="list-style-type: none"> ● Agricultural & Biological Sciences ● Biochemistry, Genetics & Molecular Biology ● Immunology & Microbiology ● Neuroscience ● Pharmacology, Toxicology & Pharmaceutics 	<ul style="list-style-type: none"> ● Dentistry ● Health Professions ● Medicine ● Nursing ● Veterinary 	<ul style="list-style-type: none"> ● Arts and Humanities ● Business, Management & Accounting ● Decision Sciences ● Economics, Econometrics & Finance ● Psychology ● Social Sciences 							

■ 검색 연산자 (Search Operators) 및 검색 기법

① 불리언 연산자(Boolean Operators, AND / OR / NOT)

키워드 검색 시 검색 결과에 해당 검색어를 포함할 지 여부를 결정하여 검색하는 방법

연산자	AND	OR	NOT
검색 결과			
우선 순위	2	3	1
비고	<ul style="list-style-type: none"> ✓ 두 개 이상의 검색어를 띄어쓰기로 구분하여 입력할 경우 'AND' 연산자로 인식함 (예) rainbow trout fish farm → rainbow AND trout AND fish AND farm ✓ 검색 연산자의 우선순위를 다시 정의하여 검색하기: 괄호 사용 (예) 검색어: (cadmium AND gill) NOT Pisces → cadmium와 gill이 모두 들어간 논문 중 Pisces가 포함된 논문 제외 		

② 구문 검색 (Phrase search, Quotation Marks, " ")

검색 결과에서 **두 개 이상의 단어가 반드시 포함**되거나, 해당 단어가 **변형 없이 검색 결과에 포함**될 수 있도록 표시하는 방법 (예) "global warming"

③ 절단 검색 (Wildcards, * \$?)

특정 단어로 검색하되, **단어의 앞 또는 뒤 다양한 알파벳(단어)이 포함된 단어를 찾는 방법**
영어의 단수/복수 구분, 다양한 용어 변화에 적용 가능

검색어	검색 결과
Enzym*	enzyme, enzymes, enzymatic, enzymology
Sul*ur	sulfur, sulphur
*Oxide	peroxide, sulfoxide, nitric oxide, zinc oxide

■ 검색 결과 목록

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TITLE-ABS-KEY ("heart attack" AND stress) [Edit](#) [Save](#) [Set alert](#) [Set feed](#)

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More...
Show all abstracts

Refine

결과 내 재 검색

Year

2014 (8)

2013 (24)

2012 (34)

2011 (25)

2010 (23)

Author Name

Tang, D. (15)

Zheng, J. (11)

Woodard, P.K. (10)

Ku, D.N. (7)

Yang, C. (7)

Subject Area

Medicine (275)

Biochemistry, Genetics and Molecular Biology (80)

Engineering (39)

Psychology (36)

Pharmacology, Toxicology and Pharmaceutics (19)

Document Type

Article (255)

Review (66)

Conference Paper (36)

Book Chapter (8)

Short Survey (8)

Source Title

Circulation (7)

Annals of Biomedical Engineering (4)

American Journal of Cardiology (4)

Journal of Biomechanical Engineering (4)

Journal of Biomechanics (4)

Keyword

Affiliation

Country

Source Type

Language

Export refine

<input type="checkbox"/> Three-dimensional aortic arch simulation in mouse	Assemat, P., Armitage, J.A., Siu, K.K., (...), Chindusting, J.P., Hourigan, K.	2014	Applied Mathematical Modelling	0
View at Publisher				
<input type="checkbox"/> A comparative study on plaque vulnerability using constitutive equations	Karimi, A., Navidbakhsh, M., Faghihi, S.	2014	Perfusion (United Kingdom)	1
View at Publisher				
<input type="checkbox"/> Quantitative profiling of the rat heart myoblast secretome reveals differential responses to hypoxia and re-oxygenation stress	Li, X., Ren, Y., Sorokin, V., (...), Tam, J.P., Sze, S.K.	2014	Journal of Proteomics	0
View at Publisher				
<input type="checkbox"/> Aging and Regeneration in Vertebrates	Sousounis, K., Baddour, J.A., Tsonis, P.A.	2014	Current Topics in Developmental Biology	1
View at Publisher				
<input type="checkbox"/> Do Circumstances of the Death Matter? Identifying Socioenvironmental Risks for Grief-Related Psychopathology in Bereaved Youth	Kaplow, J.B., Howell, K.H., Layne, C.M.	2014	Journal of Traumatic Stress	0
View at Publisher				
<input type="checkbox"/> Fatty acid epoxyisoprostane E2 stimulates an oxidative stress response in endothelial cells	Yan, X., Lee, S., Gugiu, B.G., (...), Cheng, J., Li, R.	2014	Biochemical and Biophysical Research Communications	0
View at Publisher				
<input type="checkbox"/> Higher critical plaque wall stress in patients who died of coronary artery disease compared with those who died of other causes: A 3D FSI study based on ex vivo MRI of coronary plaques	Huang, X., Yang, C., Zheng, J., (...), Woodard, P.K., Tang, D.	2014	Journal of Biomechanics	0
View at Publisher				
<input type="checkbox"/> Study of plaque vulnerability in coronary artery using mooney-rivlin model: A combination of finite element and experimental method	Karimi, A., Navidbakhsh, M., Shojaei, A., Hassani, K., Faghihi, S.	2014	Biomedical Engineering - Applications, Basis and Communications	1
View at Publisher				
<input type="checkbox"/> Automated classification of coronary atherosclerosis using single lead ECG	Kaveh, A., Chung, W.	2013	2013 IEEE Conference on Wireless Sensor, ICWISE 2013	0
View at Publisher				
<input type="checkbox"/> Fatigue crack propagation analysis of plaque rupture	Pei, X., Wu, B., Li, Z.-Y.	2013	Journal of Biomechanical Engineering	0
View at Publisher				
<input type="checkbox"/> An anthelmintic drug, pyvinium pamoate, thwarts fibrosis and ameliorates myocardial contractile dysfunction in a mouse model of myocardial infarction	Murakoshi, M., Saiki, K., Urayama, K., Sato, T.N.	2013	PLoS ONE	0
View at Publisher				
<input type="checkbox"/> South African tobacco smoking cessation clinical practice guideline	van Zyl-Smit, R.N., Allwood, B., Stockells, D., (...), Dheda, K., Richards, G.A.	2013	South African Medical Journal	0
View at Publisher				
<input type="checkbox"/> An evidence-based shared decision making programme on the prevention of myocardial infarction in type 2 diabetes: Protocol of a randomised-controlled trial	Buhse, S., Heller, T., Kasper, J., (...), Lehmann, T., Lenz, M.	2013	BMC Family Practice	0
View at Publisher				
<input type="checkbox"/> Associations between DSM-IV mental disorders and subsequent heart disease onset: Beyond depression	Scott, K.M., De Jonge, P., Alonso, J., (...), Lim, C.C.W., Kessler, R.C.	2013	International Journal of Cardiology	0
View at Publisher				
<input type="checkbox"/> Image-based modeling and precision medicine: Patient-specific carotid and coronary plaque assessment and predictions	Tang, D., Yang, C., Zheng, J., (...), Billiar, K.L., Yuan, C.	2013	IEEE Transactions on Biomedical Engineering	1
View at Publisher				

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6

■ 검색 결과 제한 기준 (Refine Results)

구분	구분 기준 및 활용 방법
Year	자료가 출판된 연도 ▶ 특정 기간으로 제한하여 연구 결과 확인
Author Name	자료의 저자 ▶ 특정 저자의 자료를 원할 경우
Subject Area	Scopus 내 수록된 자료들의 주제 분류 ▶ 검색 결과의 주제 제한
Document Type	자료의 유형 (예, Article, Review, Conference Paper, Book Chapter 등) ▶ 순수 연구 결과를 원할 때? ARTICLE, Article in Press ▶ 현재까지 연구 동향을 확인하고 싶을 때? REVIEW ▶ 최신 연구 동향을 알고 싶을 때? PROCEEDINGS PAPER, NOTE, Letter
Source Title	자료가 수록된 Source (논문일 경우 학술지, Book Chapter일 경우 책 등) ▶ 특정 학술지에 수록된 논문으로 검색 결과 제한 가능
Keyword	학술자료에 포함된 키워드
Affiliation	학술자료 저자의 소속 기관 ▶ 특정 기관에서 발표된 자료 확인
Country	국가별 학술자료 현황 (자료 저자의 국적 또는 소속기관에 따라 구분)
Source Type	자료의 Source (Journal, Conference Proceeding, Book, Book Series, Trade Publication)
Language	학술자료의 언어

■ 검색 결과 정렬 기준 (Sort)

Sort by:		추천
Date	자료의 출판연도	연구의 흐름에 따라 (최신 순/최고 순)
Cited by	자료의 피인용 지수 (다른 논문에 얼마만큼 참고문헌으로 활용 되었는가)	학계에서 많은 연구자들이 참고한 자료 또는 영향력 높다고 평가되는 자료
Relevance	검색어와의 관련성	나의 검색어와 가장 적합한 자료
First Author	자료의 제 1 저자	검색 결과 'Refine' 기능을 사용하는 것이 효율적
Source Title	자료가 수록된 Source (Journal, Conference Proceeding, Book 등)	

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Journal of Nutrition

Volume 134, Issue 3, March 2004, Pages 488-492

Glutathione Metabolism and Its Implications for Health (Review) **1**

Wu, G.^a, Fang, Y.-Z.^b, Yang, S.^c, Lupton, J.R.^a, Turner, N.D.^a

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Abstract

Glutathione (γ-glutamyl-cysteinyl-glycine; GSH) is the most abundant low-molecular-weight thiol, and GSH/glutathione disulfide is the major redox couple in animal cells. The synthesis of GSH from glutamate, cysteine, and glycine is catalyzed sequentially by two cytosolic enzymes, γ-glutamylcysteine synthetase and GSH synthetase. Compelling evidence shows that GSH synthesis is regulated primarily by γ-glutamylcysteine synthetase activity, cysteine availability, and GSH feedback inhibition. Animal and human studies demonstrate that adequate protein nutrition is crucial for the maintenance of GSH homeostasis. In addition, enteral or parenteral cysteine, methionine, N-acetylcysteine, and L-2-oxothiazolidine-4-carboxylate are effective precursors of cysteine for tissue GSH synthesis. Glutathione plays important roles in antioxidant defense, nutrient metabolism, and regulation of cellular events (including gene expression, DNA and protein synthesis, cell proliferation and apoptosis, signal transduction, cytokine production and immune response, and protein glutathionylation). Glutathione deficiency contributes to oxidative stress, which plays a key role in aging and the pathogenesis of many diseases (including kwashiorkor, seizure, Alzheimer's disease, Parkinson's disease, liver disease, cystic fibrosis, sickle cell anemia, HIV, AIDS, cancer, heart attack, stroke, and diabetes). New knowledge of the nutritional regulation of GSH metabolism is critical for the development of effective strategies to improve health and to treat these diseases.

Author keywords

Amino acids; Cysteine; Disease; Oxidative stress

Indexed keywords

EMTREE drug terms: 2-oxo-4-thiazolidinecarboxylic acid; acetylcysteine; cysteine; cystine; DNA; glutamate cysteine ligase; glutamic acid; glutathione; glutathione disulfide; glutathione synthase; glycine; methionine; protein

EMTREE medical terms: acquired immune deficiency syndrome; aging; Alzheimer disease; antioxidant activity; apoptosis; cancer; catalysis; catalyst; cell function; cell proliferation; cytokine production; diabetes mellitus; DNA synthesis; enzyme activity; gene expression; glutathione metabolism; heart infarction; homeostasis; human; Human immunodeficiency virus infection; immune response; kwashiorkor; metabolism; negative feedback; nonhuman; nutritional deficiency; oxidative stress; pathogenesis; protein intake; protein synthesis; review; risk factor; seizure; sickle cell anemia; signal transduction; stroke

Medline keywords: NASA Discipline Radiation Health; Non-NASA Center

Medline is the source for the MeSH terms of this document.

MeSH: Cysteine; Glutamic Acid; Glutathione; Glycine; Health; Humans

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Species Index: Animalia; Human immunodeficiency virus

Chemicals and CAS Registry Numbers: 2-oxo-4-thiazolidinecarboxylic acid, 19750-45-9; acetylcysteine, 616-91-1; cysteine, 4371-52-2, 52-89-1, 52-90-4; cystine, 24645-67-8, 56-89-3, 6020-39-9; DNA, 9007-49-2; glutamate cysteine ligase, 9023-64-7; glutamic acid, 11070-68-1, 138-15-8, 56-86-0, 6899-05-4; glutathione disulfide, 27025-41-8; glutathione synthase, 9023-62-5; glutathione, 70-18-8; glycine, 56-40-6, 6000-43-7, 6000-44-8; methionine, 59-51-8, 63-68-3, 7005-18-7; protein, 67254-75-5; Cysteine, 52-90-4; Glutamic Acid, 56-86-0; Glutathione, 70-18-8; Glycine, 56-40-6

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