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- Provides cited references for *BIOSIS Previews* content:
 - Cited references for BIOSIS unique items (beginning with 2006 production year data)
 - Cited references for BIOSIS items that overlap with items in the Web of Science (for all years, 1926 - forward)
 - All citation data is resident within the BIOSIS Citation Index database
- Provides for a unique BIOSIS times-cited count
- Available ***only on the Web of Knowledge platform.***

BIOSIS Citation Index

Indexing

- Degreed biologists, understanding of the content, index the records in BIOSIS databases.
- Specialized, value-added Fields
 - Major Concepts
 - Concept Codes
 - Taxonomy
 - Chemical Data
 - Disease Data
 - Gene Data

.... and more



BIOSIS Citation IndexSM

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Record 10 of 773

Record from BIOSIS Citation IndexSM

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Adverse drug reactions to azathioprine **therapy** are associated with polymorphism in the **gene** encoding inosine triphosphate pyrophosphatase (ITPase).

Author(s): Marinaki, Anthony M.; Ansari, Azhar; Duley, John A.; Arenas, Monica; Sumi, Satoshi; Lewis, Cathryn M.; Shobowale-Bakre, El-Monsor; Escuredo, Emilia; Fairbanks, Lynette D.; Sanderson, Jeremy D. (jeremy.sanderson@gstt.sthames.nhs.uk)

Source: Pharmacogenetics Volume: 14 Issue: 3 Pages: 181-187 Published: March 2004

Times Cited: 78 (from BIOSIS Citation Index)

Cited References: 27 [[view related records](#)] [Citation Map](#)

Abstract: Adverse drug reactions to azathioprine (AZA), the pro-drug of 6-mercaptopurine (6-MP), occur in 15% to 28% of patients and the majority are not explained by thiopurine methyltransferase (TPMT) deficiency. Inosine triphosphate pyrophosphatase (ITPase) deficiency results in the benign accumulation of the inosine nucleotide ITP. 6-MP is activated through a 6-thio-IMP intermediate and, in ITPase deficient patients, potentially toxic 6-thio-ITP is predicted to accumulate. The association between polymorphism in the ITPA gene and adverse drug reactions to AZA therapy was studied in patients treated for inflammatory bowel disease. Sixty-two patients with inflammatory bowel disease suffering adverse drug reactions to AZA therapy were genotyped for ITPA 94C>A and IVS2+21A>C polymorphisms, and TPMT*3A, *3C, *2 polymorphisms. Genotype frequencies were compared to a consecutive series of 68 controls treated with AZA for a minimum of 3 months without adverse effect. The ITPA 94C>A deficiency-associated allele was significantly associated with adverse drug reactions (odds ratio (OR) 4.2, 95% confidence interval (CI) 1.6-11.5, P=0.0034). Significant associations were found for flu-like symptoms (OR 4.7, 95% CI 1.2-18.1, P=0.0308), rash (OR 10.3, 95% CI 4.7-62.9, P=0.0213) and pancreatitis (OR 6.2, CI 1.1-32.6, P=0.0485). Overall, heterozygous TPMT genotypes did not predict adverse drug reactions but were significantly associated with a subgroup of patients experiencing nausea and vomiting as the predominant adverse reaction to AZA therapy (OR 5.5, 95% CI 1.4-21.3, P=0.0206). Polymorphism in the ITPA gene predicts AZA intolerance. Alternative immunosuppressive drugs, particularly 6-thioguanine, should be considered for AZA-intolerant patients with ITPase deficiency.

Accession Number: PREV200400265775

Document Type: Article

Language: English

Medium: print

Addresses: Sanderson, Jeremy D.; Gastroenterology Department, St Thomas' Hospital, First Floor, College House, London, SE1 7EH, UK

ISSN: 0960-314X

Major Concepts: [Clinical Immunology \(Human Medicine, Medical Sciences\)](#); [Gastroenterology \(Human Medicine, Medical Sciences\)](#); [Pharmacology](#)

CONCEPT CODE: 10060, Biochemistry studies - General; 10062, Biochemistry studies - Nucleic acids, purines and pyrimidines; 12512, Pathology - Therapy; 14006, Digestive system - Pathology; 22002, Pharmacology - General; 22005, Pharmacology - Clinical pharmacology; 22012, Pharmacology - Connective tissue, bone and collagen-acting drugs; 22014, Pharmacology - Digestive system; 22018, Pharmacology - Immunological processes and allergy; 34508, Immunology - Immunopathology, tissue immunology

Taxonomic Data:

SUPER TAXA	TAXA NOTES	Organism Classifier	Organism Name	Details
Primates, Mammalia, Vertebrata, Chordata, Animalia	Animals, Chordates, Humans, Mammals, Primates, Vertebrates	Hominidae [86215]	human	patient

Disease Data:

Term	MeSH Term	DISEASE AFFILIATION
inflammatory bowel disease	Inflammatory Bowel Diseases (MeSH)	digestive system disease
pancreatitis	Pancreatitis (MeSH)	digestive system disease

Chemical Data:

Chemical Name	Variant	DRUG MODIFIER
6-mercaptopurine		enzyme inhibitor-drug, immunologic-drug, immunosuppressant-drug
6-thioguanine		immunologic-drug, immunosuppressant-drug
ITP pyrophosphatase (ITPase)		
azathioprine		antiinflammatory-drug, gastrointestinal-drug

Gene Name Data:

Term	Details
human ITPA gene [Hominidae]	polymorphism

Cited by: 128

This article has been cited 128 times (from All Databases).

Miheller, Pal. Thiopurines in Crohn's disease, is there something new? EXPERT OPINION ON DRUG METABOLISM & TOXICOLOGY, DEC 2010.

Dewit, Olivier. Thiopurine metabolism monitoring: implications in inflammatory bowel diseases. EUROPEAN JOURNAL OF CLINICAL INVESTIGATION, NOV 2010.

Ban, Hiromistu. The multidrug-resistance protein 4 polymorphism is a new factor accounting for thiopurine sensitivity in Japanese patients with inflammatory bowel disease. JOURNAL OF CLINICAL GASTROENTEROLOGY, OCT 2010.

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a UIUC Catalog | Go | Save to EndNote[®], RefMan, ProCite | more options

Ecology of siderophores with special reference to the fungi

Author(s): Winkelmann, Guenther (winkelmann@uni-tuebingen.de)

Source: Biometals Volume: 20 Issue: 3-4 Pages: 379-392 DOI: 10.1007/s10534-006-9076-1 Published: JUN 2007

Times Cited: 25

Cited References

Abstract: Ecology and function of siderophores. Siderophores are low molecular weight iron-chelating compounds that are secreted by microorganisms to grow in natural iron-deficient environments. They are produced by a wide variety of microorganisms, including bacteria, fungi, and plants. Siderophores are important for the survival of microorganisms in iron-deficient environments, and they play a role in the pathogenesis of several bacterial diseases. Siderophores are also important for the development of plants, and they are used in agriculture to improve plant growth and yield. Siderophores are also used in biotechnology for the production of siderophore-based drugs and for the remediation of heavy metal contamination. Finally, the chemical synthesis of siderophores is an active area of research. Thus, siderophores are important for the survival of microorganisms in iron-deficient environments, and they play a role in the pathogenesis of several bacterial diseases. Siderophores are also important for the development of plants, and they are used in agriculture to improve plant growth and yield. Siderophores are also used in biotechnology for the production of siderophore-based drugs and for the remediation of heavy metal contamination. Finally, the chemical synthesis of siderophores is an active area of research.

This article has been cited by articles indexed in the databases listed below. [more information]

25 in All Databases

- 21 in Web of Science
 - 21 in Science Citation Index Expanded (SCIE), Social Science Citation Index (SSCI), and Arts & Humanities Citation Index (A&HCI)
 - 21 in Science Citation Index Expanded (SCIE)
 - 0 in Social Science Citation Index (SSCI)
 - 0 in Arts & Humanities Citation Index (A&HCI)
 - 0 in Conference Proceedings Citation Index - Science (CPCI-S); Conference Proceedings Citation Index - Social Science & Humanities (CPCI-SSH)
- 23 in BIOSIS Citation Index
- 0 in Chinese Science Citation Database

Cited by: 25
This article has been cited 25 times (from All Databases).

Casentini, Barbara. Effects of desferrioxamine-B on the release of arsenic from volcanic rocks. APPLIED GEOCHEMISTRY, NOV 2007, 22(11):1085-1092.

Hugues, T. Tritirachium, a thiamine- and iron-dependent, iron-ore-auxotrophic species isolated from a natural iron-deficient environment. APPLIED MICROBIOLOGY AND BIOTECHNOLOGY, OCT 2010, 84(10):4085-4092.

Carolyn A. Roles of siderophores, Oxalate, and iron in Mobilization of iron by Hematite by the Bacterium Serratia marcescens. JOURNAL OF MONAS mendocina. ENVIRONMENTAL

BIOSIS Citation Index with Web of Knowledge 5 Platform Features

BIOSIS Citation IndexSM

Results Topic=(ocean* and (ecolog* or environ*))
Timespan=All Years. Databases=BCI.

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Results: **349,511** Page 1 of 10,000 Go Sort by: Publication Date -- newest to oldest

Refine Results

Search within results for

Major Concepts

- ECOLOGY, ENVIRONMENTAL SCIENCES (247,237)
- MARINE ECOLOGY (187,440)
- ENVIRONMENTAL SCIENCES (126,575)
- ECOLOGY (104,575)
- PHYSIOLOGY (79,537)

Subject Areas

- ENVIRONMENTAL SCIENCES & ECOLOGY (266,378)
- MARINE & FRESHWATER BIOLOGY (242,881)
- LIFE SCIENCES & BIOMEDICINE - OTHER TOPICS

1. Title: **Metal content determination in four fish species from the Adriatic Sea**
Author(s): Bilandzic Nina, Dokic Maja, Sedak Marija
Source: **Food Chemistry** Volume: **124** Issue: **3** Pages: **1005-1010** DOI: **10.1016/j.foodchem.2010.07.060** Published: **FEB 1 2011**
Times Cited: **1** (from BIOSIS Citation Index)
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2. Title: **Conica trilobata n.gen., n.sp (Trematoda: Hemiuridae: Dinurinae) From the Fish, Otolithus argenteus, of Karachi Coast**
Author(s): Bilqees Fatima Mujib, Khatoon Nasira, Nawaz Yasmin
Source: **Pakistan Journal of Zoology** Volume: **43** Issue: **1** Pages: **21-24** Published: **FEB 2011**
Times Cited: **1** (from BIOSIS Citation Index)
[[View abstract](#)]

3. Title: **Conservation of Green Turtle (Chelonia mydas) at Baran Beach, Jiwani, Balochistan**
Author(s): Waqas Umer, Hasnain Syed Ali, Ahmad Ejaz, et al.
Source: **Pakistan Journal of Zoology** Volume: **43** Issue: **1** Pages: **85-90** Published: **FEB 2011**
Times Cited: **1** (from BIOSIS Citation Index)
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Full Results Counts – with the ability to Refine and Analyze the entire body of results.

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Search

hydrangea and summer* in Topic
Example: bird* migrat* alaska*

AND [] in Author
Example: DaCosta C* OR Da Costa C*

AND [] in Publication Name
Example: Journal of Wildlife Management OR Wildlife Research

Add Another Field >>

Search Clear Searches must be in English

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- Timespan
 - All Years (updated 2011-09-24)
 - From 1926 to 2011 (default is all years)
- Citation Databases
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- Adjust your search settings
 - Note: Spelling variations (such as US and UK spelling differences) in topic and title search terms are found automatically (for example, behavior and behaviour). To disable this feature, enter quotation marks around terms (for example, "colour").
 - Lemmatization On (finds alternative forms of the search term)
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Welcome, joanna arnold

Maintenance Alert

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- More questions? Consult the [Help files](#).

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- Automatic spelling variations and all new Author Finder in Web of ScienceSM.
- More of What's New

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Lemmatization will look for alternative forms of your search term - for example, tooth and teeth

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BIOSIS Citation IndexSM

Results Topic=(hydrangea and summer*)
Timespan=All Years, Databases=BCL
Lemmatization=On

Note: Alternative forms of your search term (for example, tooth and teeth) may have been applied, in particular for Topic or Title searches that do not contain quotation marks around the terms. To find only exact matches for your terms, turn off the "Lemmatization" option on the search page.

Results: 50 Page 1 of 5 Go Sort by: Times Cited -- highest to lowest

Save to: EndNote Web | EndNote | RefWorks | ResearcherID | more options

Analyze Results | Create Citation Report

1. Title: INSECT-FLOWER RELATIONSHIP IN THE PRIMARY BEECH FOREST OF ASHU KYOTO JAPAN AN OVERVIEW OF THE FLOWERING PHENOLOGY AND THE SEASONAL PATTERN OF INSECT VISITS
Author(s): KATO M; KAKUTANI T; INOUE T; et al.
Source: Contributions from the Biological Laboratory Kyoto University Volume: 27 Issue: 4 Pages: 309-376 Published: 1990
Times Cited: 33 (from BIOSIS Citation Index)
[S-F-X] [View abstract]

In 1984-1987 insect visitors to flowers were monthly or bimonthly surveyed on 91 plant species or 37 families in the primary beech forest of Ashu, Kyoto, Japan. Flowering season was 186 days from late April to early October. The number of plant species that concurrently bloomed was four to 11 species from May to mid August and it increased up to 19 in late August. The mean flowering period of a single plant species was 16 days. From April to August flowering periods were staggered among congeneric plant species, e.g., Rubus, Hydrangea and Rhus. A total of 2459 individuals of 715 species in 11 orders of Insecta and two orders of Arachnoidea were collected. The most abundant order was Hymenoptera (39% of individuals) and followed by Diptera (35%) and Coleoptera (17%). The number of species was highest in Diptera (41%) and followed by Hymenoptera (26%) and Coleoptera (19%). The numbers of both species and individuals peaked in May and then gradually decreased in summer and autumn. There were six families, 13 genera and 66 species in Apoidea. A and Halictidae were rich in the number of species. They were abundant in June and July but greatly decreased afterward. Apidae were abundant the following season. Cluster analysis separated 37 plant families into four groups: 16 families were mainly visited by Hymenoptera, four by Diptera, one by Coleoptera and one by Arachnoidea.

2. Title: Photosynthetic and structural characteristics of canopy and shrub trees in a cool-temperate deciduous broadleaved forest: Implications for ecosystem carbon gain
Author(s): Muraoka Hiroyuki; Koizumi Hiroshi
Source: Agricultural and Forest Meteorology Volume: 134 Issue: 1-4 Pages: 39-59 DOI: 10.1016/j.agrformet.2005.08.013 Published: NOV 30 2005
Times Cited: 20 (from BIOSIS Citation Index)
[S-F-X] [View abstract]

3. Title: Remontant flowering potential of ten Hydrangea macrophylla (Thunb.) Ser. cultivars.
Author(s): Adkins Jeffrey A.; Dirr Michael A.
Source: Hortscience Volume: 38 Issue: 7 Pages: 1337-1340 Published: December 2003
Times Cited: 8 (from BIOSIS Citation Index)
[S-F-X] [View abstract]

4. Title: Morphology, cytology and parasitism of Thekopsora hydrangeae
Author(s): Olive Lindsay S.
Source: JOUR ELISHA MITCHELL SCI SOC Volume: 59 Issue: (1) Pages: 45-67 Published: 1943
Times Cited: 7 (from BIOSIS Citation Index)
[S-F-X] [View abstract]

5. Title: Responses of hydrangea to photoperiod
Author(s): PIRINGER A. A.; STUART NEIL W.
Source: PROC AMER SOC HORT SCI Volume: 65 Pages: 446-454 Published: 1955
Times Cited: 6 (from BIOSIS Citation Index)
[S-F-X] [View abstract]

Refine Results
Search within results for [Search]

Major Concepts [Refine]

- AGRICULTURE (37)
- HORTICULTURE (37)
- REPRODUCTION (9)
- BIOCHEMISTRY AND MOLECULAR BIOPHYSICS (8)
- REPRODUCTIVE SYSTEM (7)
- more options / values...

Subject Areas [Refine]

- AGRICULTURE (37)
- REPRODUCTIVE BIOLOGY (9)
- ENVIRONMENTAL SCIENCES ECOLOGY (8)
- GENETICS HEREDITY (6)
- SCIENCE TECHNOLOGY OTHER TOPICS (6)
- more options / values...

Document Types

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- Group Authors
- Editors
- Source Titles
- Meeting Titles
- Publication Years
- Assignees
- Concept Codes
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- Literature Types
- Countries/Territories

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Timespan=All Years. Databases=BCL

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Citations in Each Year

The latest 20 years are displayed.
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Results found: 50

Sum of the Times Cited [?]: 120

Sum of Times Cited without self-citations [?]: 104

Citing Articles [?]: 104

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[View without self-cita](#)

Average Citations per Item [?]:

Results: 50 Page 1 of 5 Go Sort by: Times C

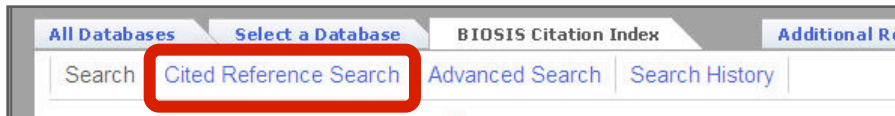
Use the checkboxes to remove individual items from this Citation Report or restrict to items published between 1926 and 2011 Go

	2007	2008	2009	2010	2011
13	9	17	20	16	
1. Title: INSECT-FLOWER RELATIONSHIP IN THE PRIMARY BEECH FOREST OF ASHU KYOTO JAPAN AN OVERVIEW OF THE FLOWERING PHENOLOGY AND THE SEASONAL PATTERN OF INSECT VISITS Author(s): KATO M; KAKUTANI T; INOUE T; et al. Source: Contributions from the Biological Laboratory Kyoto University Volume: 27 Issue: 4 Pages: 309-376 Published: 1990	7	3	4	2	2
2. Title: Photosynthetic and structural characteristics of canopy and shrub trees in a cool-temperate deciduous broadleaved forest: Implication to the ecosystem carbon gain Author(s): Muraoka Hiroyuki; Koizumi Hiroshi Source: Agricultural and Forest Meteorology Volume: 134 Issue: 1-4 Pages: 39-59 DOI: 10.1016/j.agrformet.2005.08.013 Published: NOV 30 2005	2	3	2	8	3
3. Title: Remontant flowering potential of ten Hydrangea macrophylla (Thunb.) Ser. cultivars. Author(s): Adkins Jeffrey A.; Dirr Michael A. Source: Hortscience Volume: 38 Issue: 7 Pages: 1337-1340 Published: December 2003	1	2	1	0	1
4. Title: Morphology, cytology and parasitism of Thekopsora hydrangeae Author(s): Olive Lindsay S. Source: JOUR ELISHA MITCHELL SCI SOC Volume: 59 Issue: (1) Pages: 45-67 Published: 1943	0	0	0	0	0
5. Title: Responses of hydrangea to photoperiod					

Citation Report, previously only available in Web of Science, can now be created in BIOSIS Citation Index

BIOSIS Citation Index -- Citation Information

The key **Search** component of BIOSIS Citation Index that separates it from any other BIOSIS resource on any platform, is the inclusion of a **Cited Reference Search**.



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Example: O'Brian C* OR OBrian C*

in Cited Author ▼

Example: J Comput Appl Math*

in Cited Work ▼

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BIOSIS Citation Index (BCI)--1926 -present

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Records per page 10 ▼



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