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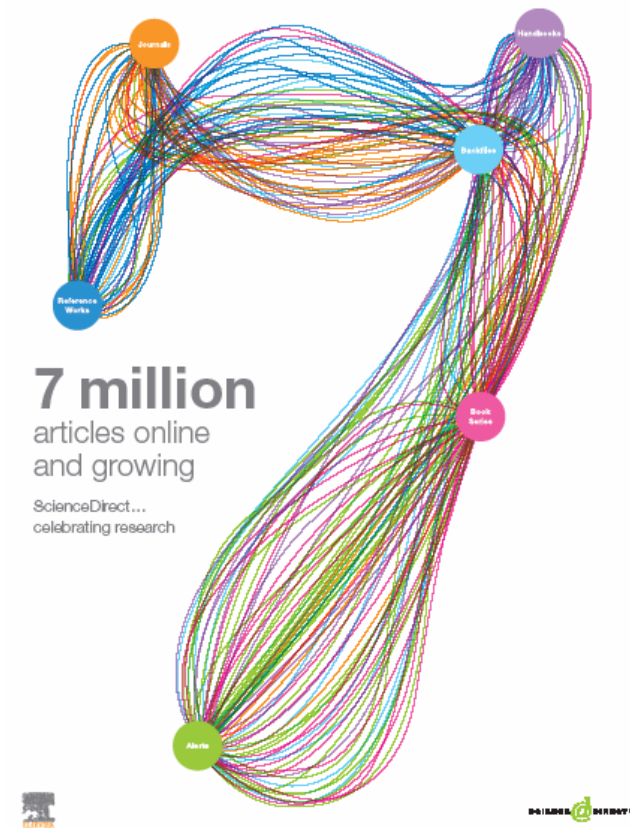
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## Quick search

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## Space environment induced mutations prefer to occur at polymorphic sites of rice genomes

Y. Li<sup>a</sup>, M. Liu<sup>b</sup>, Z. Cheng<sup>a, b</sup> and Y. Sun<sup>a, b</sup>

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<sup>b</sup>Institute of Environmental Systems Biology, Dalian Maritime University, Dalian, PR China  
Received 11 September 2006; revised 12 March 2007; accepted 16 April 2007. Available online 16 May 2007.

### Abstract

To explore the genomic characteristics of rice mutants induced by space environment, space-induced mutants 971-5, 972-4, and R955, which acquired new traits after space flight such as increased yield, reduced resistance to rice blast, and semi-dwarfism compared with their on-ground controls, 971 ck, 972ck, and Bing95-503, respectively, together with other 8 japonica and 3 indica rice varieties, 17 in total, were analyzed by amplified fragment length polymorphism (AFLP) method. We chose 16 AFLP primer-pairs which generated a total of 1251 sites, of which 745 (59.6%) were polymorphic over all the genotypes. With the 16 pairs of primer combinations, 54 space-induced mutation sites were observed in 971-5, 86 in 972-4, and 5 in R955 compared to their controls, and the mutation rates were 4.3%, 6.9% and 0.4%, respectively. Interestingly, 75.9%, 84.9% and 100% of the mutation sites identified in 971-5, 972-4, and R955 occurred in polymorphic sites. This result suggests that the space environment preferentially induced mutations at polymorphic sites in rice genomes and might share a common mechanism with other types of mutagens. It also implies that polymorphic sites in genomes are potential "hotspots" for mutations induced by the space environment.

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Y. Li<sup>a</sup>, M. Li<sup>a</sup>, ...

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Strain	Mutation Rate (%)	Consistency Rate (%)
971-5	4.3%	75.9%
972-4	6.9%	84.9%
R955	0.4%	100%

Fig. 2. Space-induced mutation rates and the consistency rates of the three mutant strains. The mutation rates of strains 971-5, 972-4, and R955 compared to their own controls are 4.3%, 6.9%, and 0.4%, respectively. The consistency rates of the mutations that occur at polymorphic sites are 75.9%, 84.9% and 100%, respectively, for the three strains.

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Aggarwal et al., 2002 R.K. Aggarwal, V.V. Shenoy, J. Ramadevi, R. Rajkumar and L. Singh, Molecular characterization of some Indian Basmati and other elite rice genotypes using fluorescent-AFLP, *Theor. Appl. Genet.* **105** (2002), pp. 680–690. [View Record in Scopus](#) | [Cited By in Scopus](#)

Blears et al., 1998 M.J. Blears, S.A. Grandis, H. Lee and J.T. Trevors, Amplified fragment length polymorphism (AFLP): a review of the procedure and its applications, *J. Ind. Microbiol. Biotechnol.* **21** (1998), pp. 99–114. [Full Text via CrossRef](#) | [View Record in Scopus](#) | [Cited By in Scopus](#)

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## Space environment induced mutations prefer to occur at polymorphic sites of rice genomes

Y. Li <sup>a</sup>, M. Liu <sup>b</sup>, Z. Cheng <sup>a,b</sup>, Y. Sun <sup>a,b,\*</sup>

<sup>a</sup> *Department of Life Science and Engineering, Harbin Institute of Technology, Harbin, PR China*

<sup>b</sup> *Institute of Environmental Systems Biology, Dalian Maritime University, Dalian, PR China*

Received 11 September 2006; received in revised form 12 March 2007; accepted 16 April 2007

### Abstract

To explore the genomic characteristics of rice mutants induced by space environment, space-induced mutants 971-5, 972-4, and R955, which acquired new traits after space flight such as increased yield, reduced resistance to rice blast, and semi-dwarfism compared with their on-ground controls, 971ck, 972ck, and Bing95-503, respectively, together with other 8 japonica and 3 indica rice varieties, 17 in total, were analyzed by amplified fragment length polymorphism (AFLP) method. We chose 16 AFLP primer-pairs which generated a total of 1251 sites, of which 745 (59.6%) were polymorphic over all the genotypes. With the 16 pairs of primer combinations, 54

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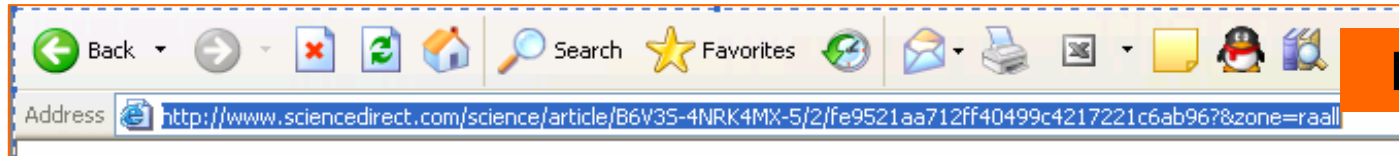
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<input checked="" type="checkbox"/> Display Selected Articles <input checked="" type="checkbox"/> E-mail Articles <input checked="" type="checkbox"/> Export Citations							
<ul style="list-style-type: none"> <li><input checked="" type="checkbox"/> 1. <input type="checkbox"/> <b>Editorial Board</b> Page CO2 <a href="#">PDF (52 K)</a></li> <li><input checked="" type="checkbox"/> 2. <input type="checkbox"/> <b>Contents</b> Pages iii-vi <a href="#">PDF (451 K)</a></li> </ul>							

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- ♦ [Gene](#)
- ♦ [Gene Expression Patterns](#)



# Searching for article in...

Specific journal or book titles

Home + Recent Actions	Browse	Search	My Settings	Alerts	Help			
<b>Quick Search</b>	Title, abstract, keywords	<input type="text"/>	Author	<input type="text"/>	e.g. j s smith			
search tips	Journal/book title	--This Journal/Book--	Volume	<input type="text"/>	Issue <input type="text"/>	Page <input type="text"/>	Clear	Go

Home + Recent Actions	Browse	Search	My Settings	Alerts	Help			
<b>Quick Search</b>	Title, abstract, keywords	hydrogenation	Author	Robert	e.g. j s smith			
search tips	Journal/book title	--This Journal/Book--	Volume	<input type="text"/>	Issue <input type="text"/>	Page <input type="text"/>	Clear	Go

## 10 Articles Found

Search Within Results:

TITLE-ABS-KEY(hydrogenation) AND AUTHORS(Robert)  
[Journal/Book(Applied Catalysis A: General)]

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**Article List** | Full Abstracts | Sort by Date | [Sort by Relevance](#)

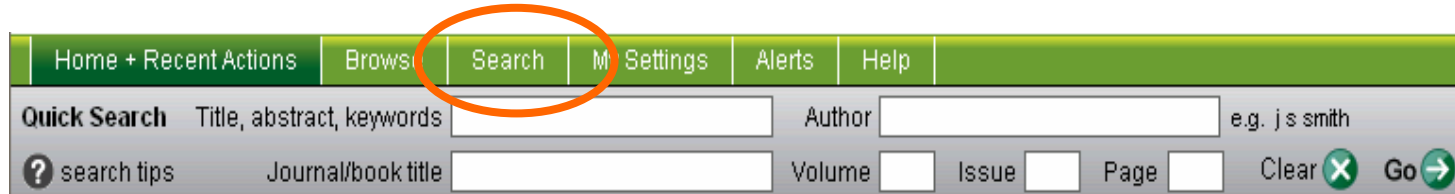
Display Selected Articles E-mail Articles Export Citations

- The influence of textural and structural properties of Pd/carbon on the hydrogenation of *cis,trans,trans*-1,5,9-cyclododecatriene**  
*Applied Catalysis A: General, Volume 318, 20 February 2007, Pages 17-21*  
Amandine Cabiac, Gérard Delahay, **Robert** Durand, Philippe Trens, Dominique Plée, Alice Medevielle and Bernard Coq  
[SummaryPlus](#) | [Full Text + Links](#) | [PDF \(316 K\)](#)
- Design of nanostructured multifunctional Pd-based catalysts from layered double hydroxides precursors**  
*Applied Catalysis A: General, Volume 318, 20 February 2007, Pages 170-177*  
Didier Tichit, María de Jesús Martínez Ortiz, Denisa Francová, Corine Gérardin, Bernard Coq, **Robert** Durand, Federica Prinetto and Giovanna Ghiotti  
[SummaryPlus](#) | [Full Text + Links](#) | [PDF \(394 K\)](#)



ELSEVIER

# Advance search



The screenshot shows a navigation bar with tabs: Home + Recent Actions, Browse, Search (highlighted with an orange circle), My Settings, Alerts, and Help. Below the navigation bar is a search form with two rows. The first row is labeled 'Quick Search' and contains a text input field with the placeholder 'Title, abstract, keywords', an 'Author' input field with the placeholder 'e.g. j s smith', and a 'Go' button. The second row contains a 'search tips' link, a 'Journal/book title' input field, 'Volume', 'Issue', and 'Page' input fields, a 'Clear' button with an 'X' icon, and a 'Go' button with a right arrow icon.

## Advance search

- To Search one of the pre-defined Advanced Search fields
- To search one or two fields in a single query
- To search a specific publication type
- To limit search in the document type, date and subject

# Advance search

## Advance search forms and searchable content

Search Form/Content Type	Journals	Books	Book Series	Handbooks	Reference Works
<a href="#">All Sources Search</a>	X	X	X	X	X
<a href="#">Journals Search</a>	X				
<a href="#">Books Search</a>		X	X	X	
<a href="#">Reference Works Search</a>					X

# Advance search

**All Sources** Journals Books Reference Works **Advanced Search** | Expert Search

Term(s): "rice genome" within: Abstract, Title, Keywords

AND Japan within: Affiliation

**3 Articles Found** Edit Search | **Save Search** | Save as Search Alert | Search Feed Search Within Results:

TITLE-ABSTR-KEY("rice genome") and AFFILIATION(Japan)

= Full-text available  = Non-subscribed [? What does this mean?](#)

**Article List** Full Abstracts Sort by Date | Sort by Relevance

Display Selected Articles  E-mail Articles  Export Citations

- Rice proteomics: recent developments and analysis of nuclear proteins**  
*Phytochemistry, Volume 65, Issue 12, June 2004, Pages 1671-1681*  
Md. Monowar Karim Khan and Setsuko Komatsu  
[SummaryPlus](#) | [Full Text + Links](#) | [PDF \(313 K\)](#)
- Isolation and characterization of a rice cDNA encoding the  $\gamma$ -subunit of translation elongation factor 1B (eEF1By)**  
*FEBS Letters, Volume 434, Issue 3, 4 September 1998, Pages 382-386*  
Shin-ichiro Kidou, Shigenori Tsukamoto, Satoru Kobayashi and Shin-ichiro Ejiri  
[SummaryPlus](#) | [Full Text + Links](#) | [PDF \(582 K\)](#)

# Advance search

**All Sources** | Journals | Books | Reference Works | **Advanced Search** | Expert Search

Term(s): "rice genome" within: Abstract, Title, Keywords

AND Japan within: Affiliation

Include:  Journals  All Books

Source: All sources

Subject: Select one or more:  
- All Sciences -  
Agricultural and Biological Sciences  
Arts and Humanities  
Biochemistry, Genetics and Molecular Biology

Dates:  1997 to: Present  All Years

[Search](#) [Clear](#) [Recall Search](#) [Search Tips](#)

---

**Search History** | Turn Off | Save History As | Recall History | Clear | Print

Select: Combine with And | Combine with Or | Combining Tips

Search	Result	Action
<input type="checkbox"/> TITLE-ABSTR-KEY("rice genome") and AFFILIATION(Japan) [All Sources(Medicine and Dentistry, Neuroscience, Nursing and Health Professions, Pharmacology, Toxicology and Pharmaceutical Science)]	3	<a href="#">edit</a>   <a href="#">delete</a>

Save and recall searches from the Search History table and the Recall Search button

Can not save a search from a Quick Search

# Advance search

**3 Articles Found** [Edit Search](#) | [Save Search](#) | [Save as Search Alert](#) | [Search Feed](#) Search Within Results:

TITLE-ABSTR-KEY("rice genome") and AFFILIATION(Japan)

= Full-text available  = Non-subscribed [? What does this mean?](#)

**Article List** | **Full Abstracts** | **Sort by Date** | [Sort by Relevance](#)

Display Selected Articles  E-mail Articles  Export Citations

- Rice proteomics: recent developments and analysis of nuclear proteins**  
*Phytochemistry, Volume 65, Issue 12, June 2004, Pages 1671-1681*  
Md. Monowar Karim Khan and Setsuko Komatsu  
[SummaryPlus](#) | [Full Text + Links](#) | [PDF \(313 K\)](#)
- Isolation and characterization of a rice cDNA encoding the  $\gamma$ -subunit of translation elongation factor 1B (eEF1B $\gamma$ )**  
*FEBS Letters, Volume 434, Issue 3, 4 September 1998, Pages 382-386*  
Shin-ichiro Kidou, Shigenori Tsukamoto, Satoru Kobayashi and Shin-ichiro Ejiri  
[SummaryPlus](#) | [Full Text + Links](#) | [PDF \(582 K\)](#)

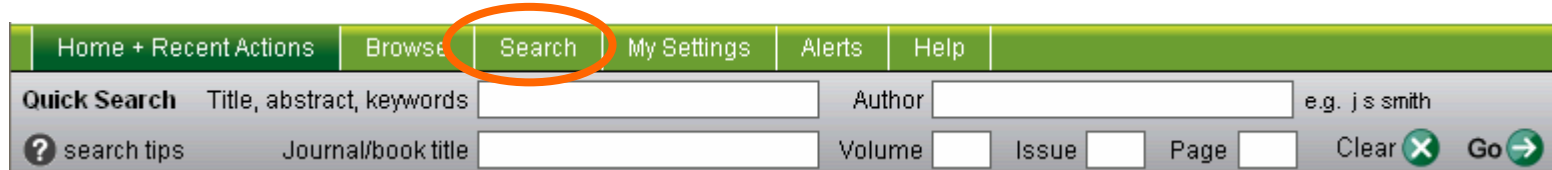
**Search:** TITLE-ABSTR-KEY("rice genome") and AFFILIATION(Japan)

**Name of Alert:**

**E-mail Address:**

**Frequency:**

# Expert search



The screenshot shows a navigation bar with tabs: Home + Recent Actions, Browse, Search (highlighted with a red circle), My Settings, Alerts, and Help. Below the navigation bar is a search form with the following fields and options:

- Quick Search** (Title, abstract, keywords) with an input field.
- Author** (e.g. j s smith) with an input field.
- Journal/book title** with an input field.
- Volume** with an input field.
- Issue** with an input field.
- Page** with an input field.
- Clear** (X icon) and **Go** (→ icon) buttons.

## Expert search

- To build complex searches
- To search multiple fields in one query
- To prioritize your search terms
- To limit your search in the following way :  
document type, date and subject

# Expert search

## Expert search forms and searchable content

Search Form/Content Type	Journals	Books	Book Series	Handbooks	Reference Works
<a href="#">All Sources Search</a>	X	X	X	X	X
<a href="#">Journals Search</a>	X				
<a href="#">Books Search</a>		X	X	X	
<a href="#">Reference Works Search</a>					X



# Expert search

**All Sources** | Journals | Books | Reference Works | [Advanced Search](#) | **Expert Search**

Enter terms using Boolean connectors (e.g. "heart attack" AND stress)

**Term(s):**

**Include:**  Journals  All Books

**Source:**

Select one or more:

**Subject:**   
Agricultural and Biological Sciences  
Arts and Humanities  
Biochemistry, Genetics and Molecular Biology

Hold down the Ctrl key (or ⌘ key) to select multiple entries.

**Dates:**  1997 to:   All Years

[? Search Tips](#)




# Expert search

3 Articles Found

[Edit Search](#) | [Save Search](#) |  [Save as Search Alert](#) |  [Search Feed](#)

Search Within Results:

pub-date > 1996 and title-abs-key("rice genome") And title-abs-key(mechanism) aff(Japan)

 = Full-text available  = Non-subscribed  [What does this mean?](#)

**Article List**

Full Abstracts

Sort by Date | [Sort by Relevance](#)

  Display Selected Articles  E-mail Articles  Export Citations

- 1. Identification and characterization of cytokinin-signalling gene families in rice**  
*Gene, Volume 382, 1 November 2006, Pages 57-65*  
Yukihiro Ito and Nori Kurata  
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- 2. Mechanism regulating telomerase activity in *Oryza sativa* L.**  
*Plant Science, Volume 165, Issue 1, July 2003, Pages 43-54*  
Hee Chung, Yoshinori Hirata, Sugihiko Ando, Shinichiro Kamachi and Shingo Sakai  
[SummaryPlus](#) | [Full Text + Links](#) | [PDF \(983 K\)](#)

# Browse

From the Browse box on the home page



Home + Recent Actions | Browse | S

Quick Search Title, abstract, keywords

? search tips Journal/book title

**Browse** 8,408,329 Articles

Browse by title

A | B | C | D | E | F | G | H | I | J | K | L | M  
N | O | P | Q | R | S | T | U | V | W | X | Y | Z

Browse by subject

**Physical Sciences and Engineering**

- Chemical Engineering
- Chemistry
- Computer Science
- Earth and Planetary Sciences
- Energy
- Engineering
- Materials Science
- Mathematics

You can browse all available journal and book titles alphabetically

From the Browse tab



Home + Recent Actions | Browse

Quick Search Title, abstract, keywords

? search tips Journal/book title

**Browse**

**Journals/Books Alphabetically**

Journals/Books by Subject

Favorite Journals/Books

Include

Full-text available

Non-subscribed

? What does this mean?

Include

Journals and Book Series

All Books

Reference Works only

Apply

# Browse

## Type of publication display

- Journal
- Book
- Book series
- Handbook
- Reference work







## Browse

- Journals/Books alphabetically
- Journals/Books by subject
- Favorite Journals/Books

# Browse

- Browse**
- Journals/Books Alphabetically
- Journals/Books by Subject
- Favorite Journals/Books

3068 titles found

Journal/Book Title	Content Type	Article Feed	Favorites	Vol/Issue Alerts
T				
<a href="#">Talanta</a>	Journal	Articles In Press 	<input type="checkbox"/>	<input type="checkbox"/>
<a href="#">TARGETS</a>	Journal		<input type="checkbox"/>	
<a href="#">Teaching and Learning in Nursing</a>	Journal		<input type="checkbox"/>	<input type="checkbox"/>
<a href="#">Teaching and Teacher Education</a>	Journal	Articles In Press 	<input type="checkbox"/>	<input type="checkbox"/>
<a href="#">Techniques in Gastrointestinal Endoscopy</a>	Journal		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<a href="#">Techniques in Regional Anesthesia and Pain Management</a>	Journal		<input type="checkbox"/>	<input type="checkbox"/>
<a href="#">Techniques in Vascular and Interventional Radiology</a>	Journal		<input type="checkbox"/>	<input type="checkbox"/>
<a href="#">Technological Forecasting</a>	Journal		<input type="checkbox"/>	

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- Gene
- Gene Expression Patterns
- Techniques in Gastrointestinal Endoscopy

#### Quick Links in ScienceDirect

- Alerts
- Identification and characterization of cytokinin-signalling gene families in rice
- Potential applications of renewable energy sources, biomass combustion problems in boiler power systems and combustion related environmental issues
- Space environment induced mutations prefer to occur at polymorphic sites of rice genomes
- Techniques in Gastrointestinal Endoscopy, Volume 9, Issue 2
- Alerts

Volume 8 (2006)

Volume 7 (2005)

Volume 6 (2004)

Interventional Endoscopic Ultrasonography: The Next Frontier

2. Editorial Board

Page i

PDF (22 K)

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# Browse

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Journals/Books Alphabetically  
**Journals/Books by Subject**  
Favorite Journals/Books

Please first select one or more subject areas and then click Apply.

Life Sciences > Biochemistry, Genetics and M

Journal/Book Title	
A	B C D E F G H I J K L
O P Q R S T U V W X Y	Z

All

A

Acta Biomaterialia	Journal	Articles In Press		<input type="checkbox"/>	<input type="checkbox"/>
Acta Genetica Sinica	Journal			<input type="checkbox"/>	
Acta Histochemica	Journal	Articles In Press		<input type="checkbox"/>	<input type="checkbox"/>
Adenosine Receptors and Parkinson's Disease (First Edition)	Book			<input type="checkbox"/>	
Adenoviral Vectors for Gene Therapy (First Edition)	Book			<input type="checkbox"/>	
Advanced Drug Delivery Reviews	Journal	Articles In Press		<input type="checkbox"/>	<input type="checkbox"/>
Advanced Free Radical Reactions for Organic Synthesis	Book			<input type="checkbox"/>	
Advanced Organic Chemistry	Book			<input type="checkbox"/>	

## Subjects

- Physical Sciences and Engineering
- Life Sciences
- Health Sciences
- Social Sciences and Humanities

# Browse

**Browse**

- Journals/Books Alphabetically
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You have 7 favorite titles

	Journal/Book Title	Content Type	Article Feed	Favorites	Vol/Issue Alerts
All <span style="float: right;">Apply →</span>					
<b>A</b>					
<input checked="" type="checkbox"/>	ACC Current Journal Review	Journal		<input checked="" type="checkbox"/>	
<input checked="" type="checkbox"/>	Accounting Forum	Journal	Articles In Press	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	Accounting, Organizations and Society	Journal	Articles In Press	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input type="checkbox"/>	Applied Catalysis A: General	Journal	Articles In Press	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<b>G</b>					
<input checked="" type="checkbox"/>	Gene	Journal	Articles In Press	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	Gene Expression Patterns	Journal	Articles In Press	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<b>T</b>					
<input checked="" type="checkbox"/>	Techniques in Gastrointestinal Endoscopy	Journal		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Apply →					





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 ? search tips Journal/book title  Volume  Issue  Page  Clear  Go

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**Quick Search** Title, abstract, keywords  Author  e.g. j s smith  
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rice genome (Japan)	<a href="#">Latest Results</a> <a href="#">Archive</a>	Weekly	<a href="#">Modify</a> <a href="#">Delete</a>	

If you are unsure of how to create a Search Alert, please try one of our pre-made [Topic Alerts](#).

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These alerts are sent to boonya\_ch@yahoo.com.  
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Alert Name	Alert View	Alert Frequency	Alert Actions	Topic Feed
Genetics	<a href="#">Latest Results</a> <a href="#">Archive/Details</a>	Weekly	<a href="#">Delete</a>	

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rice genome (Japan)	<a href="#">Latest Results</a> <a href="#">Archive</a>	Weekly	<a href="#">Modify</a> <a href="#">Delete</a>	

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Modify the e-mail address and e-mail format setting in your [profile](#).

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<a href="#">Applied Catalysis A: General</a>	Journal	<a href="#">Latest Volume/Issue</a>	As Published	<a href="#">Delete</a>	
<a href="#">Gene</a>	Journal	<a href="#">Latest Volume/Issue</a>	As Published	<a href="#">Delete</a>	
<a href="#">Gene Expression Patterns</a>	Journal	<a href="#">Latest Volume/Issue</a>	As Published	<a href="#">Delete</a>	
<a href="#">Techniques in Gastrointestinal Endoscopy</a>	Journal	<a href="#">Latest Volume/Issue</a>	As Published	<a href="#">Delete</a>	

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Alert Name	Alert View	Alert Frequency	Alert Actions	Citation Feed
rice genome	<a href="#">Latest Results</a> <a href="#">Archive</a>	Weekly	<a href="#">Modify</a> <a href="#">Delete</a>	



# My setting

Please select your category

Select a category

Alert Name	Alert View	Alert Frequency	Topic Feed
<input type="checkbox"/> Biochemistry	<a href="#">Latest Results</a> <a href="#">Archive/Details</a>	Weekly	

Select a category  
 Agricultural and Biological Sciences  
 Arts and Humanities  
 Biochemistry  
 Business, Management and Economics  
 Chemical Engineering  
 Chemistry  
 Computer Science  
 Decision Sciences  
 Discontinued Alerts  
 Earth and Planetary Sciences  
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 Energy  
 Engineering  
 Environmental Science  
 Immunology and Microbiology  
 Materials Science  
 Mathematics  
 Medicine and Dentistry  
 Neuroscience  
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 Pharmacology, Toxicology and Pharmaceutical Science  
 Physics and Astronomy  
 Psychology  
 Social Sciences  
 Veterinary Science and Veterinary Medicine

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 Modify the e-mail address and e-mail format setting in your [profile](#).

[Add/Delete Topic Alerts](#)

Alert Name	Alert View	Alert Frequency	Alert Actions	Topic Feed
Genetics	<a href="#">Latest Results</a> <a href="#">Archive/Details</a>	Weekly	<a href="#">Delete</a>	
<input type="checkbox"/> Developmental Biology	<a href="#">Latest Results</a> <a href="#">Archive/Details</a>	Weekly		
<input type="checkbox"/> Endocrinology	<a href="#">Latest Results</a> <a href="#">Archive/Details</a>	Weekly		
<input checked="" type="checkbox"/> Genetics	<a href="#">Latest Results</a> <a href="#">Archive/Details</a>	Weekly		
<input type="checkbox"/> Gerontology and Aging	<a href="#">Latest Results</a> <a href="#">Archive/Details</a>	Weekly		
<input type="checkbox"/> Molecular Biology	<a href="#">Latest Results</a> <a href="#">Archive/Details</a>	Weekly		
<input type="checkbox"/> Molecular Medicine	<a href="#">Latest Results</a> <a href="#">Archive/Details</a>	Weekly		
<input type="checkbox"/> Physiology	<a href="#">Latest Results</a> <a href="#">Archive/Details</a>	Weekly		
<input type="checkbox"/> Structural Biology	<a href="#">Latest Results</a> <a href="#">Archive/Details</a>	Weekly		

**Thank You**

