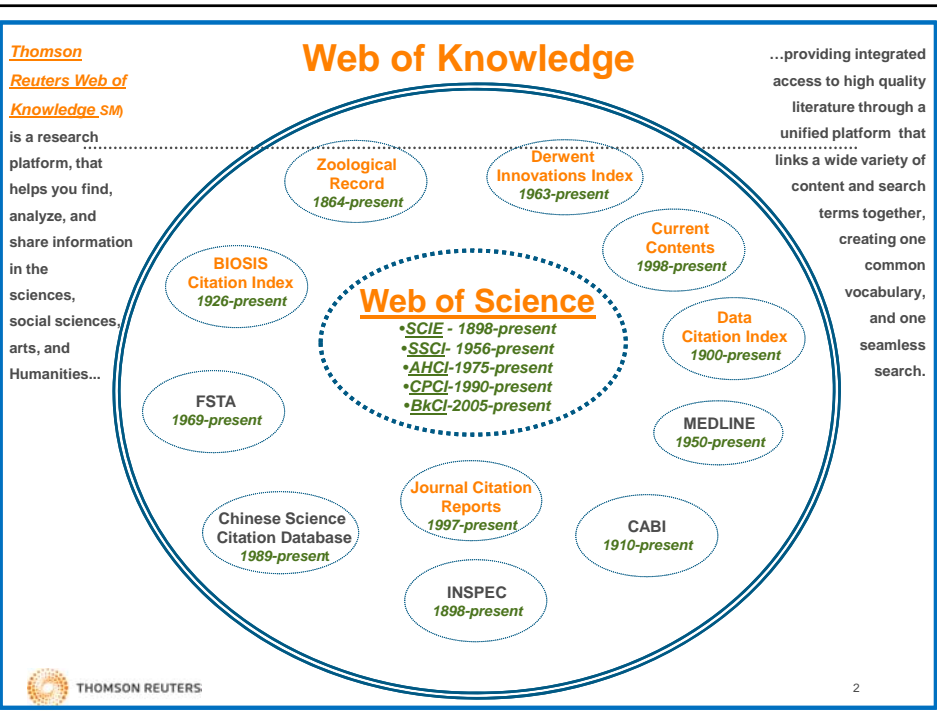




**The Thomson Reuters Journal Selection Policy –  
Building Great Journals –  
Adding Value to Web of Science**

- Journal Selection
- Citation Analysis
- South Korean journals in Web of Science
- Research Output and Citation Impact of Korean authors.
- How Can I Improve My Journal?

James Testa  
VP Editorial Development & Publisher Relations  
South Korea April 2013



## The Thomson Reuters Journal Selection Process Two Main Objectives

1. To evaluate and select the best scholarly journal content available today for coverage in Web of Science.
2. Provide the worldwide publishing community with objective standards useful in building world-class publications.

- *As a result, the Web of Science is known as the worldwide source for top tier scholarly research published in the best international and regional journals.*
- *Thomson Reuters has built lasting partnerships with the global scholarly publishing community. We work together to improve the quality of scholarly communication everywhere in the world.*



3

## Thomson Reuters Journal Selection Process for Web of Science: Four Points of Evaluation



4

## What Does Impact Factor Represent?

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**Impact Factor** represents the average number of times recent articles in a specific journal were cited in a particular year.

## What Does it Measure?

**Impact Factor** measures the citation performance of the journal as a whole and not of any specific article or author published in the journal.

*Question: Is publishing in a high impact journal a predictor of high citation impact for the individual article?*



5

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### 2011 Journal Citation Reports –Science Edition

#### **Molecular Cancer\***

Impact Factor: 3.993

5-Year Impact Factor: 4.597



\*BioMed Central Ltd, London; First Published in 2001

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## Calculation of 2011 Journal Impact Factor 5-Year Journal Impact Factor

### Journal Impact Factor

Cites in 2011 to items published in: 2010 = 1152    Number of items published in: 2010 = 318  
 2009 = 645    2009 = 132  
 Sum: 1797    Sum: 450

Calculation:  $\frac{\text{Cites to recent items}}{\text{Number of recent items}} = \frac{1797}{450} = 3.993$

### 5-Year Journal Impact Factor

Cites in {2011} to items published in: 2010 = 1152    Number of items published in: 2010 = 318  
 2009 = 645    2009 = 132  
 2008 = 425    2008 = 90  
 2007 = 437    2007 = 79  
 2006 = 522    2006 = 73  
 Sum: 3181    Sum: 692

Calculation:  $\frac{\text{Cites to recent items}}{\text{Number of recent items}} = \frac{3181}{692} = 4.597$

## Molecular Cancer

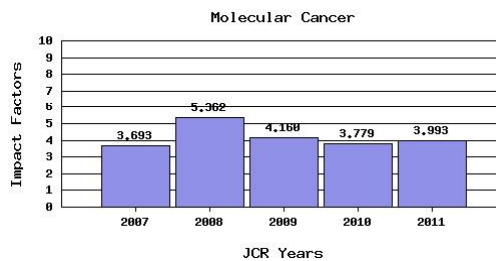


## 2011 JCR Molecular Cancer: Source Data; Impact Factor 5 year trend

### Journal Source Data

*Only citable items  
(articles + reviews)  
Counted in Impact  
Factor  
calculation*

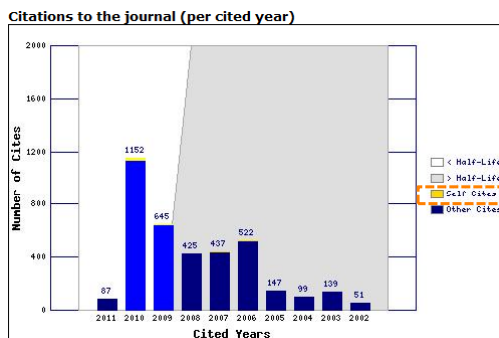
	Citable items			Other items
	Articles	Reviews	Combined	
Number in JCR year 2011 (A)	137	13	150	0
Number of references (B)	6401	1792	8193	0.00
Ratio (B/A)	46.7	137.8	54.6	0.0



## 2011 JCR Molecular Cancer: Journal Self Cites

<b>Total Cites</b>	3737	<b>Self Cites</b>	57 (1% of 3737)
<b>Cites to Years Used in Impact Factor Calculation</b>	1797	<b>Self Cites to Years Used in Impact Factor Calculation</b>	29 (1% of 1797)
<b>Impact Factor</b>	<b>3.993</b>	<b>Impact Factor without Self Cites</b>	<b>3.929</b>

2011  
Cited Journal  
Graph



9

## Self citation rates in 2009 Journal Citation Report

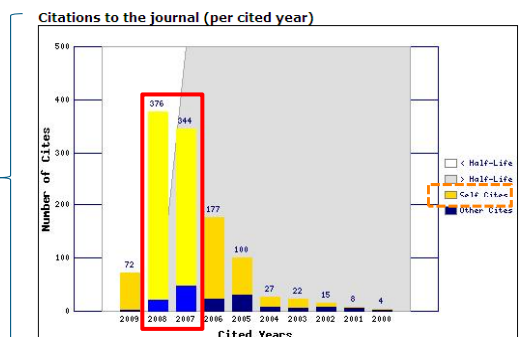
Revista Brasileira de Farmacognosia-Brazilian Journal of Pharmacognosy

### Journal Self Cites

The tables show the contribution of the journal's self cites to its impact factor. This information is also represented in the [cited journal graph](#).

<b>Total Cites</b>	1163	<b>Self Cites</b>	1010 (86% of 1163)
<b>Cites to Years Used in Impact Factor Calculation</b>	720	<b>Self Cites to Years Used in Impact Factor Calculation</b>	652 (90% of 720)
<b>Impact Factor</b>	<b>3.462</b>	<b>Impact Factor without Self Cites</b>	<b>0.327</b>

2009  
Cited Journal  
Graphic



Effect of Self Citations  
on *rank in category*:

**From** Q1

**To** Q4

•Chemistry, Medicinal

•Pharmacology & Pharmacy



**Journal was suppressed from 2010 and 2011 JCR.**

**Reevaluated for 2012 JCR.**

## Category Level Metrics – Ranked by Aggregate Impact Factor

### Science Categories

Category <i>(linked to category information)</i>	Total Cites	Median Impact Factor	Aggregate Impact Factor	Aggregate Immediacy Index	Aggregate Cited Half-Life	# Journals	Articles
<a href="#">BIOCHEMISTRY &amp; MOLECULAR BIOLOGY</a>	2893854	2.857	4.273	0.873	7.7	290	51489
<a href="#">NEUROSCIENCES</a>	1666212	2.748	3.948	0.780	7.4	244	33311
<a href="#">GASTROENTEROLOGY &amp; HEPATOLOGY</a>	410010	2.379	3.724	0.826	6.1	74	10989
<a href="#">MARINE &amp; FRESHWATER BIOLOGY</a>	313606	1.474	1.934	0.412	9.1	97	9516
<a href="#">ENGINEERING, ELECTRICAL &amp; ELECTRONIC</a>	730619	1.020	1.587	0.242	6.8	245	42921
<a href="#">ACOUSTICS</a>	98897	1.036	1.548	0.307	9.0	30	4015

### Social Science Categories

Category <i>(linked to category information)</i>	Total Cites	Median Impact Factor	Aggregate Impact Factor	Aggregate Immediacy Index	Aggregate Cited Half-Life	# Journals	Articles
<a href="#">ENVIRONMENTAL STUDIES</a>	98822	1.241	1.792	0.328	6.3	89	5115
<a href="#">PSYCHOLOGY, SOCIAL</a>	153587	1.287	1.680	0.265	>10.0	59	3334
<a href="#">ANTHROPOLOGY</a>	65215	0.614	1.237	0.297	9.9	81	3056
<a href="#">ECONOMICS</a> →	401962	0.778	1.148	0.243	>10.0	→ 321	→ 15327
<a href="#">COMMUNICATION</a> →	44043	0.756	0.987	0.171	8.2	→ 72	→ 2445
<a href="#">INTERNATIONAL RELATIONS</a>	35586	0.613	0.852	0.219	7.7	81	2730
<a href="#">LINGUISTICS</a>	68157	0.487	0.844	0.195	9.8	162	3833

Journal rankings and comparisons are meaningful only within each category - not between categories or domains. 11



## Korean Scholarship in Web of Science

- Journals
- Research Output
- Citation Impact
- Citation Impact Relative to World

## Korean Journals in Web of Science

110 titles *(several in more than one index)*

- Science Citation Index Expanded
  - 90 journals
    - Science Citation Index
      - 10 journals
- Social Sciences Citation Index
  - 17 journals
- Arts & Humanities Citation Index
  - 7 journals

**Language:**

**97 in English**

**13 Multi-language or in Korean (11 SCIE; 1 SSCI; 2 AHCI)**



13

## Korean Papers in Web of Science

2008-2012



*Korean authors identified by Research Address.*

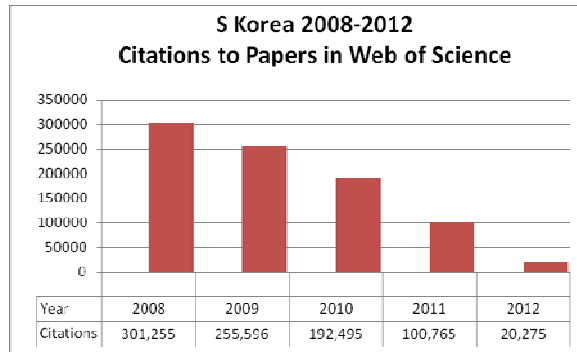
Source:  
**InCites®**



14

## Citations to Korean Papers 2008-2012

Citations accrue over time.



*Total citations from any year after publication.*

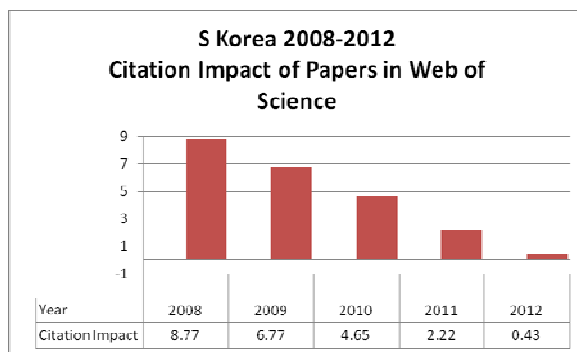
Source: *InCites*®



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## Citation Impact of Korean Papers 2008-2012

Citation Impact builds over time.



$$\frac{\text{Total Citations}}{\text{Total Papers}} = \text{Citation Impact}$$



Source: *InCites*®

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## Citation Impact of Korean Papers Relative to World 2008-2012



World average where the average is set at 1.

Source: *InCites*<sup>®</sup>

## How Can I Improve My Journal?

1. Active recruitment of high-impact articles by courting researchers
2. Offering authors better services
3. Boosting the journal's media profile
4. More careful article selection

-M. Chew, E. V. Villanueva, and M. B. Van Der Weyden, *Journal of the Royal Society of Medicine* **100** (3), 142 (2007).

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***Thank you.***

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***Journal Selection Policy essay:***

[http://thomsonreuters.com/products\\_services/science/free/essays/journal\\_selection\\_process/](http://thomsonreuters.com/products_services/science/free/essays/journal_selection_process/)

