# Peer review of Agricultural journals

### **Cheol-Heui YUN**

### Professor at Seoul National University Chair at Committee on Publication Ethics, KCSE

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Scijournal.org (2017)

1	Publisher	No. Journals
T	Elsevier	2571





#### [Nederland]

Scijournal.org (2017)

2	Publisher	No. Journals
2	Springer-Verlag	2209
	Springer	GERMANY   DENMARK   BALTIC SEA     North Frisan Islands   OLUbeck   BALTIC SEA     NORTH SEA   OLUbeck   POLAND     Hamburg • Schwerin   Bernen   POLAND     NetherLands   Münster   Harz • Magdeburg     Düsseldorf •   Ocologne   Okassel •     Düsseldorf •   Ocologne   Okassel •     BELGIUM   • Cologne   • Weimar •     UXEMBOURG   Rhine •   Frankfurt     Heidelberg •   Nuremberg   CZECH     Heidelberg •   Stuttgart   BAVARIA     •   Tübingen •   Stuttgart     •   Stuttgart   AUSTRIA     •   •   Ocideante     •   •   Stuttgart     •   •   Stuttgart     •   •   Stuttgart     •   •   Ocideante     •   •   Outedante     •   •   •     •   •   •     •   •   •     •   •   •     •   •   •

#### [Germany]

Scijournal.org (2017)

<b>ר</b>	Publisher		No. Journals
3	Taylor and Francis	1803	
	Taylor & Francis		North Desan Northern Ireland Belfast Daw 0 United Kingdom Scotland Morth Desan Northern Cardiff Daw 0 United Kingdom

#### [United Kingdom]

Scijournal.org (2017)

Λ	Publisher	No. Journals
4	John Wiley and Sons	1604





[USA]

Scijournal.org (2017)

	Publisher	No. Journals
5	Sage Publications	742

### **SAGE** Publications



[USA]

Scijournal.org (2017)



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#### [Germany]

Nuremberg

Füssen

Stuttgart

CZECH

REPUBLIC

**AUSTRIA** 

LUXEMBOURG

0 \_\_\_\_\_ 100 km

60 miles

FRANCE

Heidelberg

Tübingen o Freiburg

SWITZERLAND

Scijournal.org (2017)



#### [Mexico]

Scijournal.org (2017)

0	Publisher	No. Journals
9	RMIT publishing	415





#### [Australia]

Scijournal.org (2017)

10	Publisher	No. Journals
TO	Inderscience Publishers	391





#### [Switzerland]

Scijournal.org (2017)

	Publisher	No. Journals
11	Hindawi Publishing Corporation	366





#### [Egypt]

### Top subjects list

<u>Subject</u>	<u>No</u>
MEDICAL SCIENCES	Journais 6186
	2652
	2032
BUSINESS AND ECONOMICS	2018
ENGINEERING	1993
COMPUTER SCIENCE	1780
EDUCATION	1310
Social sciences	1276
LITERATURE	1254
HEALTH AND SAFETY	1110
HISTORY	1083
HUMANITIES	1054
LAW	974
MATHEMATICS	803
PSYCHOLOGY	793
CHEMISTRY	785
environmental studies	773
PHYSICS	748
POLITICAL SCIENCE	721
AGRICULTURE	676
EARTH SCIENCES	594
ART	557

2017-10-12

Scijournal.org (2017)

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### Agriculture and Biological Sciences

Number of journals

Agriculture and Biological Sciences	1903 (all subject)
-------------------------------------	--------------------

Subject category	Number of journals
Ecology, Evolution, Behavior and Systematics	537
Plant Science	398
Animal Science and Zoology	356
Agronomy and Crop Science	304
Food Science	255
Aquatic Science	198
Insect Science	130
Forestry	129
Soil Science	105
Horticulture	71
Miscellaneous	203

Scijournal.org (2017)

### Institution Rankings in Agricultural Sciences

BASED ON CITATIONS PER PAPER AMONG INSTITUTIONS WITH 5,000 OR MORE CITATIONS

Rank	Institution	Papers	Citations	Citations Per Paper
1	Tufts University, USA	392	7,089	18.08
2	Institute of Food Research, UK	471	6,912	14.68
3	University of Helsinki, Finland	779	9,905	12.72
4	Cornell University, USA	1,557	17,096	10.98
5	University of Wisconsin, USA	1,428	14,326	10.03
6	University of California, Davis, USA	1,954	19,454	9.96
7	Royal Veterinary and Agricultural University, Denmark	1,013	9,842	9.72
8	University of Reading, UK	846	8,211	9.71
9	French National Institute for Agricultural Research (IN RA), France	3,230	31,215	9.66
10	Oregon State University, USA	725	6,985	9.63
11	Danish Institute of Agricultural Sciences, Denmark	603	5,794	9.61
12	Wageningen University, The Netherlands	2,443	23,351	9.56
13	University College Cork, Ireland	794	7,580	9.55
14	Rutgers State University, USA	585	5,440	9.3
15	University of Massachusetts, USA	634	5,740	9.05
16	Penn State University, USA	984	8,727	8.87
17	University of Nebraska, USA	1,081	9,576	8.86
18	Michigan State University, USA	952	8,397	8.82
19	University of Illinois, USA	1,287	11,328	8.8
20	U.S. Food and Drug Administration, USA	818	7,155	8.75
SOURCE: T	nomson Reuters's Assential Science Indisadus Midalabase.			

### Institutional Rankings in Environment and

BASED ON CITATIONS PER
PAPER AMONG
<b>INSTITUTIONS WITH 10,000</b>
OR MORE CITATIONS

SOURCE: Thomson Reuters's Essential Science

Indicators SM database

**Ecology** 

Rank	Institution	Papers	Citations	Citations Per Paper
1	Stanford University, Stanford, CA, USA	1,020	21,318	20.90
2	University of California, Santa Barbara, CA, USA	823	16,099	19.56
3	Princeton University, Princeton, NJ, USA	555	10,852	19.55
4	Smithsonian Institution, Washington, DC, USA	939	17,964	19.13
5	University of California, Santa Cruz, CA, USA	583	10,965	18.81
6	University of Edinburgh, Edinburgh, Scotland	663	12,411	18.72
7	University of Sheffield, Sheffield, England	789	14,357	18.20
8	University of Oxford, Oxford, England	699	12,655	18.10
9	University of Alaska, Fairbanks and other campuses, AK, USA	657	11,706	17.82
10	Max Planck Society, various locations, Germany	1,008	17,861	17.72
11	Michigan State University, East Lansing, MI, USA	1,124	19,482	17.33
12	Duke University, Durham, NC, USA	1,136	19,560	17.22
13	Umea University, Umea, Sweden	641	10,979	17.13
14	University of London Imperial College of Science, Technology & Medicine, London, England	986	16,790	17.03
15	Harvard University, Cambridge, MA, USA	1,134	19,172	16.91
16	University of Minnesota, St. Paul, MN, USA	1,488	24,620	16.55
17	University of Maryland, College Park, MD, USA	1,157	18,605	16.08
18	Arizona State University, Tempe, AZ, USA	687	10,827	15.76
19	University of Wisconsin, Madison and other campuses, WI, USA	1,801	28,372	15.75
20	Swiss Federal Institute of Environmental Science and Technology , Duebendorf, Switzerland	697	10,974	15.74

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### Research field: No boundary Merged and divided; (dis)appear





Full text

PubReader

ePub

1066 Genome-wide association study identifies 22 new loci for body dimension and body weight traits in a White DuroexErbualian E. intercross population

PDF

Supplementary Material

REFER

CrossRef - TDM

## Trends in publishing

Rapid conversion from "print" to "electronic"

- 1997: print only
- 2009: 55% for e-only (mostly e-collections), 25% for print, only 20% for print + electronic
- 2014: 95+% e-only (in life sciences field over 99%)
- 2018: ???

Changing role of "journals" due to e-access Increased usage of articles: more downloads Cost per article: less (???) Electronic submission: increased manuscript inflow

## WHY and WHAT to publish?

### **WHY** publish?

Publishing is one of the important steps embedded in the scientific research process. During the career progression, it is essential for the graduation and (often) promotion.

What to publish: New and original results or methods; Reviews of particular subject; Manuscripts that advance the knowledge and understanding in a certain scientific field.

What NOT to publish: Reports of no scientific interest; Out of date work; Duplications of previously published work; Incorrect/unacceptable conclusion.

### **Peer-review in scientific publication**

**Peer review** in scientific journals is the evaluation of manuscripts, usually before the publication by people familiar with the content of the manuscript (scientists for the scientific paper).

It is a type of **quality control** that helps maintain standards, improve the quality of publications and increase the credibility of published article.

#### **Community Values Peer Review**

#### Despite the criticism, surveys show peer review is valued by researchers & authors.

![](_page_22_Picture_2.jpeg)

Sources: Sense About Science; Taylor & Francis; CIBER Research; NPG/Palgrave Macmillan Author Insights survey

### What peer-review system is facing ....

The pressure to publish pushes down the quality .. ..

Scientists must publish less, otherwise a good research will be swamped by the ever-increasing volume of poor work.

[Daniel Sarewitz, Nature, vol. 533, 2016]

### What peer-review system is facing ....

Revulting a poor-quality reience Number of publications continues to Poor journal rufferr from a good review process because of a lacking of good reviewerhing two million per year by 2012 (2.5 M, 2016).

[Daniel Sarewitz, Nature, vol. 533, 2016]

### **Peer-review system is NOT perfect**

- Slow
- Expensive
- Subjective
- (sometimes) Biased
- Open to abuse (unfairness?)
- Poor in detecting errors & fraud: introducing new detection tools

### Value of Peer-review system

The value of peer review is not about filtering poor manuscripts;

Instead, peer review is valuable as a means of **enhancing the quality** of what is published (David J. Solomon, 2007).

### **Type of Peer-review (method)**

- Single blind: reviewer information is not disclosed
- **Double blind**: reviewer and author information is not disclosed
- **Open review**: reviewer and author information is open
- Post-publication review: review after publication

### **Type of Peer-review (step)**

- **1. Preliminary/in-house review**: EiC, editors screen out without (or before) external peer-review.
- **2. Peer-review**: External group of reviewers (expert).
- **3. Review after revision**: External expert group of (the same) reviewers or editors.

### **General aspects of Peer-review**

- 1. Role of peer reviewers: advisor [NOT decider].
- 2. Peer review is imperfect, inconsistent, incomplete but often provides the best (and maybe the only) pre-publication advice to the editors.
- Review as much in-house as possible before peer review: iThenticate/CrossCheck plagiarism check; screen for data and image manipulation; make sure necessary elements (eg, ethics, guidelines checklist, protocol, supplementary material, journal requirements, data) are present.
- Only the Editor is accountable and responsible for what is published.

### **In-house Review**

- Most journals adopt this system.
- Editors decide whether a given MS will be subjected to peer-review or not.
- Why necessary?
  - ✓ Being increased submission of MS
  - ✓ Limited number of reviewers.
  - ✓ To screen poor MS (in reality, many poor MS survive even after the peer-review process).
  - ✓ Need to reduce MS numbers per reviewer for more efficient, accurate, and thorough MS evaluation.

### **In-house Review**

- Rejection at this stage can be as high as 90%.
- Rejection criteria: scope, originality, merit, methods (esp., statistics), proficiency of English.
- Authors may request reconsideration on rejection at this stage, but very few cases are granted.

## HOW TO MAINTAIN A GOOD REVIEW SYSTEM?

### Value peer-reviewers' efforts

Reviewers are (often) unpaid, overworked, under-rewarded, and therefore ..

- Do not ask to review too often (e.g., no more than once a month and not if already reviewing).
- Reviewers should receive editor's decision (perhaps together with the other reviewers' comments).
- Editors may ask reviewers if they're willing to re-review the paper (Note: re-review only if necessary).
- Reviewers may not be paid, but (somehow) be acknowledged by the journal.
- Reviewers can (should) be rated by editors to track turnaround times for improving the quality of reviewer pool.

### **Best Reviewer Award**

AJAS editorial team is delighted to announce the winners of AJAS 2015 Best Reviewer Award, which is given annually to a few reviewers of AJAS in recognition of their outstanding efforts and contributions. We are pleased to recognize three among many invaluable reviewers as AJAS best reviewer of the year: Dr. Liang Chou Hsia (Yu Chou Friendly Agriculture Research Institute, Taiwan); Dr. Yuxi Wang (Lethbridge Research and Development Centre of Agriculture and Agri-Food Canada, Canada); Dr. Sang-Hyon Oh (North Carolina A&T State University, USA).

In 2015, AJAS received and reviewed 1,074 manuscripts involving over 300 volunteer reviewers. All reviewers kindly offered their outstanding expertise and professional services to support our journal. Based on both the quality and quantity of the reviews, the final winners were selected by editors and selection committee of the journal.

![](_page_34_Picture_3.jpeg)

Dr. Liang Chou Hsia has been an emeritus professor of National Pingtung University of Science and Technology, Taiwan Since 2013. He received PhD degree from Edinburgh University, UK in 1981. He has widely recognized for his dedicated research efforts and professional teaching, and for regional and international contributions to animal science societies. He has served more than 40 years on researches, teaching and

#### AJAS (Asian-Australasian Journal of Animal Sciences) https://www.ajas.info/

### Acknowledge Reviewers' Service

#### AJAS List of Reviewers : 2015,

#### AJAS editorial team gratefully acknowledges all reviewers for their contribution to successful peer-review process of AJAS in 2015.

Abdelrahman W↓ Fernandes MHM Kim Jae-Hwan↓ Moradi Soudabeh↓ Smith Stephen B↓ Adebiyi AO↓ Gabbi Alexandre Kim Jin Wook Moran John B Sohn Sea Hwan↓ Son Ah Reum↓ Ahmed Saeed↓ Galvani Diego B Kim Jong Geun↓ Morgan N↓ Ganesan Palanivel↓ Kim Jong Joo Muchenje Voster↓ Ahn Dong U↓ Son Yong Suk↓ Ahn Heekwon↓ Gao Feng Kim Jonggug 4 Mujahid Ahmad↓ Song Ki-Duk↓ Ahn JH↓ Gavoidian Dinu Kim Kwan-Suk↓ Mürsel Özdoğan Song Minho↓ Sun Sangsoo₊J Ahn Joungiwa↓ Geesink Geert↓ Kim Kyoung H↓ Nam Dooseok Alam Mahboob↓ Gopinger E↓ Kim Min Seok↓ Nanung Danar D Survanto Edi↓ Amerah A Kim Myunghoo Nasir Mukhtar↓ Guangyong Zhao↓ Tan Soon Guan An Byoung Ki↓ Guo Wei↓ Kim Sam Churl Nasr Elbordeny↓ Tanaka Masahito Kim Sang Hoon↓ Tang Shaoxun↓ Anderson Robin Guo Yuming Negesse Tegene Kim Sung Woo↓ Andrade Reis R↓ Gupta Mukesh K↓ Netto Arlindo S↓ Taniguchi K Asano Rvoki↓ Ha Jong Kyu Kim Sung-Jo↓ Newbold CJ Tao Sha Attia Youssef A Tatsuva Unno↓ Halimani Tinviko↓ Kim WK Nowaczewski S↓ Ko Hvun-Jeong↓ Thanh Lam P↓ Avasan T Han Jae Yong↓ Oh Sang Hvon↓ Ko Kinarm↓ Bai Shiping↓ Ohh Sang Jip↓ Toyoda Atsushi↓ Han Kun-Jun Baik Myunggi↓ Han Sung Gu Kobavashi Y↓ Olukosi Oluvinka↓ Tripathi MK Balan Prabhu Hao Hui Fang↓ Koike Satoshi↓ Oso A Tsuruta Shogo↓ Bao Jun Paik In K Tufarelli V↓ Heo Jung Min↓ Kondo Seiji↓ Hocquette JF↓ Kong Changsu↓ Pang Huili↓ Urriola Pedro Barroga AJ Bassols Anna Honarbakhsh S-Korde JP Pang Myung-Geol↓ Wanapat M Benli Hakan Hong Yeong Ho↓ Kraiem Khemaies Panjono Panjono Wang Chong↓ Hongrong Wang Kumarasamv P↓ Park Chan S Wang Jia-Kun Bernardino VMP Hsia Liang Chou↓ Kundu SS↓ Bhuiyan Md. SA Park Hee-Bok Wang JP↓ Kwak Wan Sup↓ Bin Chen↓ Hsu Jih-Tav↓ Wang Mingi Park Jin Kvung Lai Changhua I Wang WaiWai I Boyera Fulvia I Htoo John K I Dark Jong-Hwan I AJAS (Asian-Australasian Journal of Animal Sciences)

2017-10-12

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CASE 2017, HoChiMinh

How to establish a good review system?

- Large reviewer pool.
- Invite young reviewers (screening process).
- Compose of global reviewers.
- Develop proper rewarding program.
- Listen to both reviewers and authors
- Use reviewer performance record.

#### REASONS FOR DECLINING TO REVIEW

![](_page_37_Figure_1.jpeg)

- 45% Too busy generally
- 34% Outside area of expertise
- 21% Deadline too short
- 12% Not declined recently
- 12% Too many commitments
- 10% Poor scientific quality
- 8% Journal not on list
- 7% Conflict of interest
- 5% Poor quality English
- 4% Other

### **Reviewer selection**

#### Reviewers should be (criteria):

- An expert in the field
- No conflict of interest
- Be able to complete a thorough and timely review

#### Reviewer selection

- 2-3 (reviewers) per manuscript (plus stats reviewer)
- Excluding the reviewer from the same institution
- Authors may recommend reviewers to choose or to avoid
- Author-recommended reviewers' contact (email) new to the editor should be verified (by the reviewer's institution)

### How to perform peer-review?

### No Bias!

- Author-related
  - Prestige (author/institute)
  - ✓ Gender
  - ✓ Place of work done
- Paper-related
  - ✓ Positive results
  - ✓ English proficiency

### As a reviewer;

- Is the MS within your field of expertise?
- Am I happy with review process/policy of the journal?
- Do I have enough time to review the MS?

– Can I make it to the deadline?

• Do I have any COI?

### **Good Reviewer**

- Give a constructive and scientific opinion.
- Unbiased contribution.
- Clear & detailed comments.
- Useful and acceptable comments (to authors).
- Polite expression.
- Positive attitude toward reviewing MS as a scientist.
- Review within requested timeline.

### **Poor Reviewer**

- Insincerity, insulting, impolite
- Subjective
- Biased
- Vague and unclear comments
- Show off

### Items to be checked

- Importance of studied area: value/merit
- Originality
- Completeness
- Ethics
- Structure
- Language
- (if needed) Previous research

### **Originality?**

- New theory, fact, materials ...
- New methodology
- New application
- Test existing theory, fact, materials ...
- Advancing current theory, knowledge or technology

### **Check for Misconduct**

- Data fabrication and falsification
- Plagiarism
- Redundant publication
- Inappropriate authorship

We are in need of intensive education and discussion together with a proper understanding of the regulation (at both institution and publisher).

### How to prepare reviewer report

- Provide a short summary on the MS including main impression on the quality of MS: interesting points, novelty, new findings.
- Composition of the Report: General comments → Major comments → Minor comments → Specific comments
- Any ethical concern?
- Provide the verdict (recommendation for reject, accept, major or minor revision) to editor, **not to authors**
- (will be helpful) Advice on proficiency of language

![](_page_48_Picture_0.jpeg)

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> Journals with Impact Factors on average ranked in the top 15%

![](_page_48_Picture_8.jpeg)

![](_page_49_Picture_0.jpeg)

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In order to start the submission, please select one of the following options:

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Select this option if you wish to submit an abstract for inclusion in an event hosted through Frontiers Events.

![](_page_49_Picture_11.jpeg)

Manuscripts are checked by plagiarism detection software

#### RESUME SUBMISSION

START SUBMISSION

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	🚺 front	tiers	Search for articles, peo	ple, events and more.	Q	o 🔏 🗳	Cheol-Heui YUN	F		
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	Invitations 💿	Displaying 1 - 5 of	6 Articles				K 1   2	> >>		
	All Articles 7	Author	s and Title	Article Type	Journal / Section	Edited By	Submitted <del>v</del>			
	Final Validation 👩	Leonard	d, Curtis,, Godin	Original Research	Inflammation	Diana Boraschi	04.04.2017			
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		Nagasar Phagoc conserv	wa, Nakayasu,, Nakao ytosis by thrombocytes is a red	Original Research	Molecular Innate Immunity	Uday Kishore	28.06.2014			
		Mathan	, Figdor, Buschow	Review	Molecular Innate Immunity	Lisa H. Butterfield	17.09.2013			
		Human from	plasmacytoid dendritic cells:							
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Endorsed Endorsed	
Reviewer 2: Cheol-Heul YUN	
Independent review report submitted: 15 Apr 2017	
Interactive review activated: 02 May 2017	
Final report submitted: 27 May 2017	
Final Evaluation	
Q1 Final comments to Author (optional):	
No answer given.	
Q 2 Do you ENDORSE THE PUBLICATION of this manuscript in its current form?	

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<b>Frontiers</b>	Search for articles, people, events and more	e. <b>Q</b>	o 🕯 🖡	Cheol-Heui YUN

#### Reviewer 2: Cheol-Heui YUN | 15 Apr 2017 | 10:53

The description for 'Mathematical model' is not clear to understand. Furthermore, there is no 'Supplementary information', which is described in lines 521-522.

Line 487; 'Conditioned media were harvested from macrophage-': 1) Do the conditioned media mean supernatant containing soluble factors without the cells, macrophage? 2) Why did authors remove the drug treatment and replace with fresh medium, if the purpose of this experiment was to determine whether the conditioned media containing soluble factors produced by MVS-nAb-PTX treated macrophages to examine the anti-tumorigenic milieu by TME? There is no description of the MnM in the figure 7.

Figure 6 is in poor quality. And the legend of the figure 6 is insufficient.

#### 🔏 Author: Biana Godin | 18 May 2017 | 19:07

"The description for 'Mathematical model' is not clear to understand. Furthermore, there is no 'Supplementary information', which is described in lines 521-522. "

-We apologize, it appears that the Supplementary information file with the model description was not uploaded properly during the manuscript submission. We made sure that the reviewer has an access to this information when the revised version of the manuscript is uploaded.

"Line 487; 'Conditioned media were harvested from macrophage-': 1) Do the conditioned media mean supernatant containing soluble factors without the cells, macrophage? 2) Why did authors remove the drug treatment and replace with fresh medium, if the purpose of this experiment was to determine whether the conditioned media containing soluble factors produced by MVS-nAb-PTX treated macrophages to examine the anti-tumorigenic milieu by TME?"

-Line 487 (new line 543).We have clarified the method and rational as follows: "Drug treatment was removed and cells were washed twice with PBS, and fresh medium was added to the macrophages to mimic the clinically relevant situation, as clinical studies with nAb-PTX revealed that more than 90% of the drug is cleared from the circulation within 1h following intravenous administration (PMID 15930349). In the hypo-vascularized macrophage-enriched tumor lesions, macrophages can serve as the cellular depot of the drug. Supernatants (conditioned media)

#2

#1

![](_page_53_Picture_0.jpeg)

#### **ORIGINAL RESEARCH ARTICLE**

Front. Immunol., 16 June 2017 | https://doi.org/10.3389/fimmu.2017.00693

EDITED BY

🗿 Diana Boraschi

Consiglio Nazionale Delle Ricerche (CNR), Italy

REVIEWED BY

🕵 Cheol-Heui YUN

Seoul National University, South Korea

🧕 Detlef Neumann

#### Hannover Medical School, Germany

The editor and reviewers' affiliations are the latest provided on their Loop research profiles and may not reflect their situation at time of review.

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Abstract

Introduction

D - --- I+--

#### Macrophage Polarization Contributes to the Anti-Tu Efficacy of Mesoporous Nanovectors Loaded with Albumin-Bound Paclitaxel

👤 Fransisca Leonard<sup>1</sup>, 🧕 Louis T. Curtis², 📷 Matthew James Ware³, 🌉 Taraz Nosrat¹, 👤 Xuewu Liu¹, 👲 Kenji Yokoiª Hermann B. Frieboes².4† and 👤 Biana Godini\*†

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Therapies targeted to the immune system, such as immunotherapy, are currently shaping a new, rapidly develop of promising cancer treatments, offering the potential to change the prognosis of previously non-responding pat Macrophages comprise the most abundant population of immune cells in the tumor microenvironment (TME) a undergo differentiation into functional phenotypes depending on the local tissue environment. Based on these f phenotypes, tumor-associated macrophages (TAMs) can either aid tumor progression (M2 phenotype) or inhibi phenotype). Presence of M2 macrophages and a high ratio of M2/M1 macrophages in the TME are clinically ass poor prognosis in many types of cancers. Herein, we evaluate the effect of macrophage phenotype on the transp cancer efficacy of albumin-bound paclitaxel (nAb-PTX) loaded into porous silicon multistage nanovectors (MSV a coculture of breast cancer cells (3D-spheroid) with macrophages and *in vivo* models were conducted to evaluat therapeutic efficacy of MSV-nAb-PTX as a function of macrophage phenotype. Association with MSV increased

#### frontiers in IMMUNOLOGY

### Phagocytosis by thrombocytes is a conserved in immune mechanism in lower vertebrates

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Thrombocytes, nucleated hemostatic blood cells of non-mamming regarded as the functional equivalent of anucleated mammalia immune functions, including phagocytosis, have also been sugges but no conclusive molecular or cellular experimental evidence for t and clearance of infiltrating microbes has been provided till date we demonstrate the active phagocytic ability of thrombocytes in le teleost fishes and amphibian models. *Ex vivo*, common carp throm ingest live bacteria as well as latex beads  $(0.5-3 \mu m \text{ in diameter})$ *In vivo*, we found that thrombocytes represented nearly half of the in the common carp total peripheral blood leukocyte pool. Phagocyte

### Conclusion: Peer Review Principles (from COPE)

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### Conclusion: Peer Review Principles (from COPE)

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• Equality *vs*. Equity