Scientific Integrity -Role of Journals

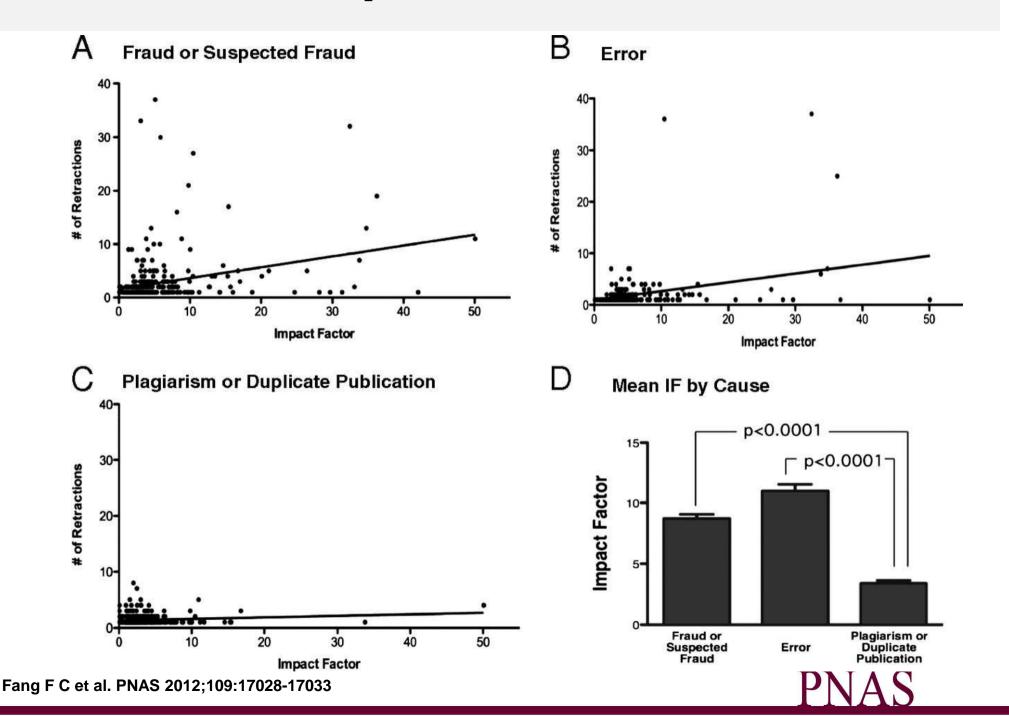
Indira Nath world science forum, Rio 2013

Role of Journals

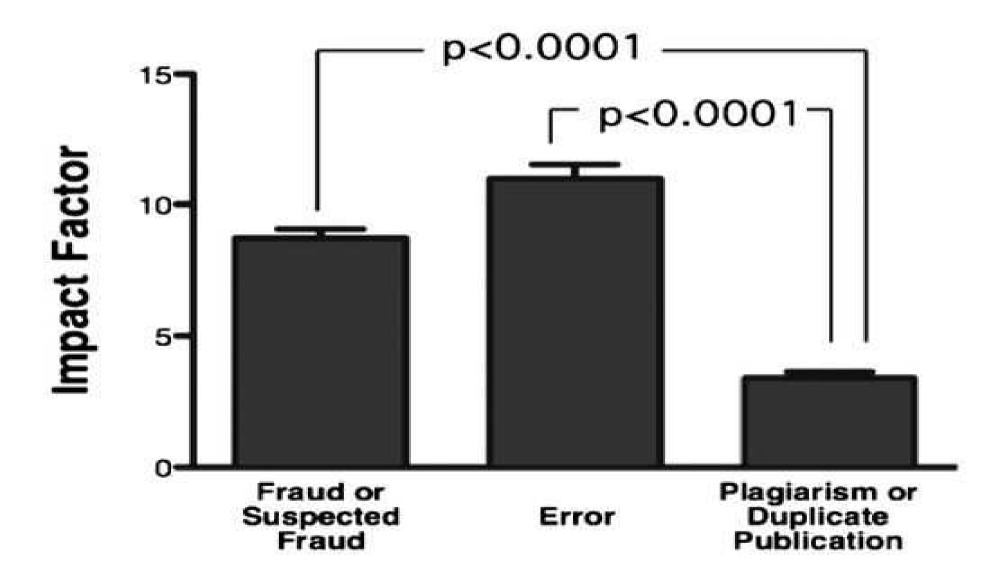
Protectors of Integrity of Science

- Impact Factor, misuse, encouraging citations of their own journals, specially in reviews.
- > Detection of plagiarism, fraud
- > Conflict of interest
- > Ethical values

Relation of impact factor to retractions



Mean IF by Cause



Fang F C et al. PNAS 2012;109:17028-17033

Impact Factor- Metrices- Data bases

• IF is meant to judge quality of Journals and NOT the quality of individual research.

Misuse of IF by journals is a worry

• Bibliographic metrices are being used to judge research projects, promotions etc.

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Fallout from hailed cloning paper

Duplicated figures raise debate over expedited publication David Cyranoski, Nature 28 May 2013

'Paper published online in *Cell* on 15 May (http://doi.org/mkn),

Creation of human embryonic stem-cell lines from cloned human skin cells.

The lines are expected to answer cell reprogramming.

Potential therapeutic applications.'

'Cell accepted it just three days after receiving it and published it online 12 days later —

Contd.

- Anonymous online commenter noted three pairs of duplicated images with conflicting labels in the paper'. Excitement soon turned to confusion
- The leader of the study, acknowledged –use of duplicated images.

In two cases that was intentional

A pair of labels was mistakenly reversed

In the third case, an incorrect scatterplot was included in a table— one that had already been used in the paper.

- ➤ Is such rapid publication good for science?
- Why did the referees allow such images?

"this type of image manipulation is not something we expect referees to pick up. It's not really their role *Nature* journals do "spot-checking" - Veronique Kiermer, executive editor at Nature Publishing Group,

Emerging trends

- > Temptation to publish 'exciting' results in a rapid manner.
- > Predatory Open Access Journals
- Dual Use Technologies
- ➤ Data mining from open access data bases for commercial interest without giving attribution.

