

Trustworthiness: Does the publisher have a role to play?

Edward Wates
Global Journal
Content Management Director
Wiley-Blackwell

Outline of the presentation

- Oldenburg's legacy
- The digital transition
 - The problem of the definitive version
 - Metadata standards
 - Nomenclature
- Peer review
 - Tools
 - Policies
- Dealing with infringements

Oldenburg's legacy

- *Philosophical Transactions* established March 1665
- 'Licensed' by the Royal Society
- Oldenburg's financial risk
- Four key functions:
 - Registration
 - Dissemination
 - Peer review
 - Archival record ('the minutes of science')

Maintaining the brand

- Reputation of the journal most significant in attracting authors
- Measured largely through citations
- All journals must focus on quality of service:
 - Speed and quality of peer review
 - Rapid publication
 - Providing personal service
- Reputation also depends on integrity

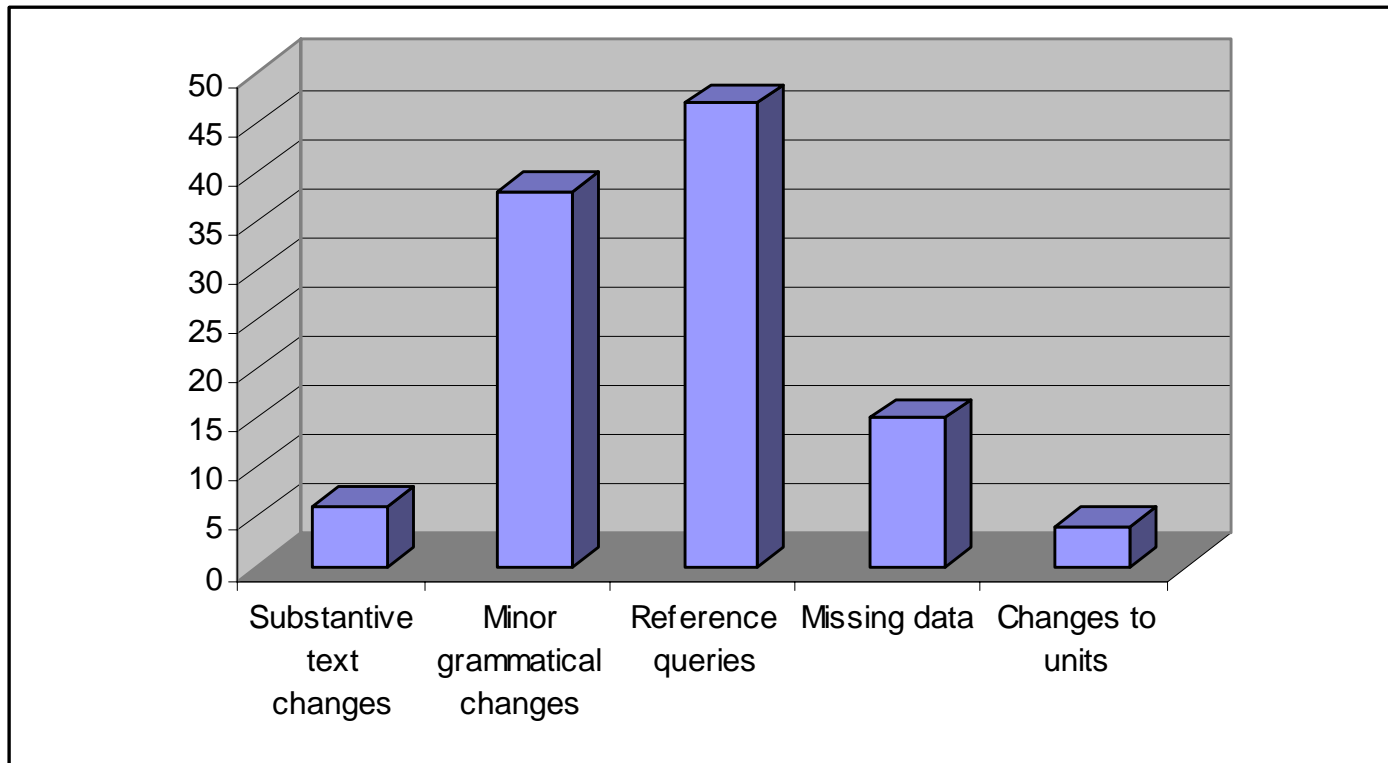
Questions posed by the digital transition

- Is print or online the version of record?
- What if the online version differs from the print version (e.g. supplementary material)?
- Mandated posting (funders, IRs, etc.) – which version?
- If online version is final, then which version?
 - Accepted article online?
 - Article online ahead of issue?
 - Updated article online?
- What is the relationship between author posting and publisher version?
- The NISO/ALPSP Working Group

Version control: copy-editing study

- Study outline:
 - August-October 2006
 - 189 article sample
 - 23 journals (17 STM, 6 SSH)
 - Original MS compared against proof and final version

Version control: copy-editing Results

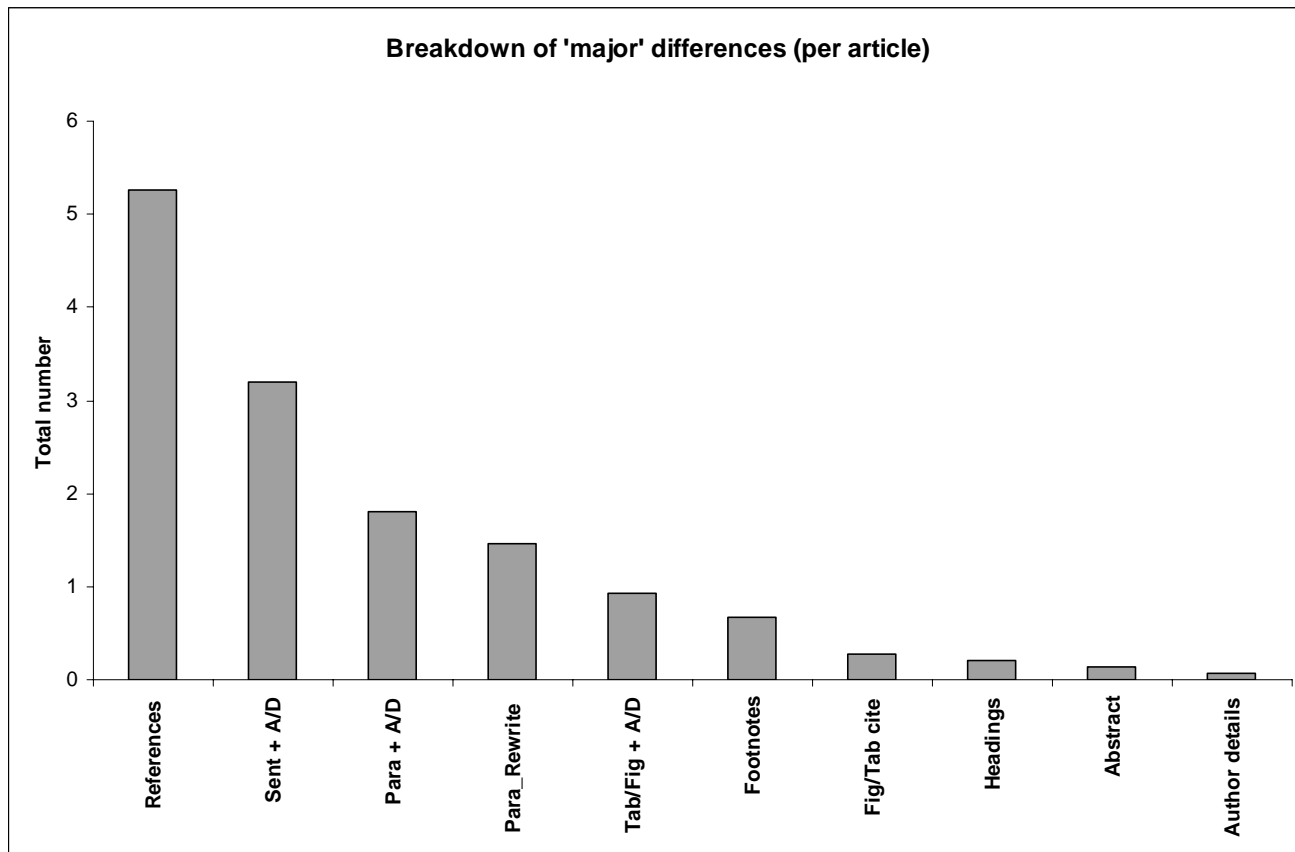


Source: Wates, E. & Campbell, R. (2007). *Learned Publishing* 20:121-129.

Version control: online study

- Study outline
 - 10 Economics journals
 - 100 randomly selected articles
 - 35% self-archived
 - 15 articles analysed in depth
 - 210 major differences
 - 236 intermediate differences
 - 649 minor differences

Version control: online results



Source: Wates, E., Campbell, R. & Bonny, N. (2008). *Learned Publishing* (in preparation)

Trust and repositories

- JISC-funded IRRA project highlighted concerns about trust in IRs
- VALREC project established
 - Aims to establish required level of validation
 - What sorts of differences need identification
 - Aims to generate a digital certificate
 - Will cover all versions, including previous drafts, wikis, blogs, etc.
- CrossRef 'Peer Review Logo' under discussion

Metadata standards

- Emotive nature of debate because of implied value judgements
- Importance of ‘knowing what you are looking at’
- Necessary for citation accuracy
- Publisher investment in metadata standards
- CrossRef system ensures unique DOI
- Metadata also includes:
 - Publication history
 - Author details (cf. ‘Author disambiguation’)

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Peer review: tools and policies

- High profile cases of plagiarism damage confidence in peer review process
- CrossCheck pilot:
 - Use of iParadigm's iThenticate software
 - iParadigm crawlers allowed access to publisher content
 - Over 60m web pages crawled every day
 - Identifies duplicate content for visual decision
 - Association for Computing Machinery, BMJ, Elsevier, IEEE, T&F and W-B participating
- Image falsification
 - *JCB* guidelines define 8 criteria for inclusion
- Graf C, Wager E, Bowman A et al. Best Practice Guidelines on Publication Ethics: A Publisher's Perspective. *Int J Clin Pract* 2007; **61** (s152):126.

Dealing with infringements

- Publisher's protection of author IP
 - Re-purposing: author's moral and economic rights
 - Licences versus assignment (can be emotive)
 - Grant-back of rights should permit re-use
- Policies protect 'minutes of science' and prevent redundant publication
- Investigating infringements an editorial responsibility
- Retractions versus withdrawal (see '2006-03: STM Guidelines on Preserving the Record of Science')



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Article Views

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Originally published in Science Express on 12 February 2004
Science 12 March 2004:
Vol. 303, no. 5664, pp. 1669 - 1674
DOI: 10.1126/science.1094515

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REPORTS

This article has been retracted

Evidence of a Pluripotent Human Embryonic Stem Cell Line Derived from a Cloned Blastocyst

Woo Suk Hwang,1,2* Young June Ryu,1 Jong Hyuk Park,3 Eul Soon Park,1 Eu Gene Lee,1 Ja Min Koo,4
Hyun Yong Jeon,1 Byeong Chun Lee,1 Sung Keun Kang,1 Sun Jong Kim,3 Curie Ahn,5 Jung Hye Hwang,6
Ky Young Park,7 Jose B. Cibelli,8 Shin Yong Moon5*

Somatic cell nuclear transfer (SCNT) technology has recently been used to generate animals with a common genetic composition. In this study, we report the derivation of a pluripotent embryonic stem (ES) cell line (SCNT-hES-1) from a cloned human blastocyst. The SCNT-hES-1 cells displayed typical ES cell morphology and cell surface markers and were capable of differentiating into embryoid bodies in vitro and of forming teratomas in vivo containing cell derivatives from all three embryonic germ layers in severe combined immunodeficient mice. After continuous proliferation for more than 70 passages, SCNT-hES-1 cells maintained normal karyotypes and were genetically identical to the somatic nuclear donor cells. Although we cannot completely exclude the possibility that the cells had a parthenogenetic origin, imprinting analyses support a SCNT origin of the derived human ES cells.

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VERSION HISTORY

- 303/5664/1669 (most recent)
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Correction for this article

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- 1 College of Veterinary Medicine, Seoul National University, Seoul 151-742, Korea.
2 School of Agricultural Biotechnology, Seoul National University, Seoul 151-742, Korea.
3 Medical Research Center, MizMedi Hospital, Seoul, 135-280, Korea.
4 Gachon Medical School, Incheon, 417-840, Korea.
5 College of Medicine, Seoul National University, Seoul, 110-744, Korea.
6 School of Medicine, Hanyang University, Seoul, 471-701, Korea.
7 College of Natural Science, Suncheon National University, Suncheon, 540-742, Korea.
8 Department of Animal Science-Physiology, Michigan State University, East Lansing, MI 48824, USA.

* To whom correspondence should be addressed. E-mail: hwangws@snu.ac.kr (W.S.H.); shmoon@plaza.snu.ac.kr (S.Y.M.)

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Summary

- Publisher version subject to:
 - Peer review
 - Editorial attention
 - Metadata control
 - Date stamping
- Investment in online peer review process:
 - Plagiarism detection
 - Rights management
- NB Increase in articles as a result of increased R&D funding puts pressure on the system