

**60<sup>th</sup> British Microcirculation Society Meeting**  
**Young Investigators'**  
**Writing Workshop**

**9.00am-12.30pm, 21 April 2010**

Jude Barback  
Journal Publishing Manager, Health Sciences  
Wiley-Blackwell

# Programme

- *9.10am-9.30am: The Publishing Process* (J Barback)
- *9.30am-10am: Editor's Perspective* (Dr Stuart Egginton)
- *10am-10.30am: Peer-reviewer's Perspective* (Dr Luigi Gnudi)
- *10.30am-10.45am: Break*
- *10.45-11.15am: Author's Perspective* (Dr Dave Bates)
- *11.15am-11.45am: Special Topics Regarding Publication* (J Barback)
  - Ethics
  - Copyright
  - Open Access
  - Impact Factor
- *11.45am-12.30pm: Question and Answer Session*
- *12.30pm: Close*

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# Writing

for Publication

A guide to getting your  
article published

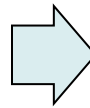


# The Publishing Process

## Writing Stage



Research completed



Article written




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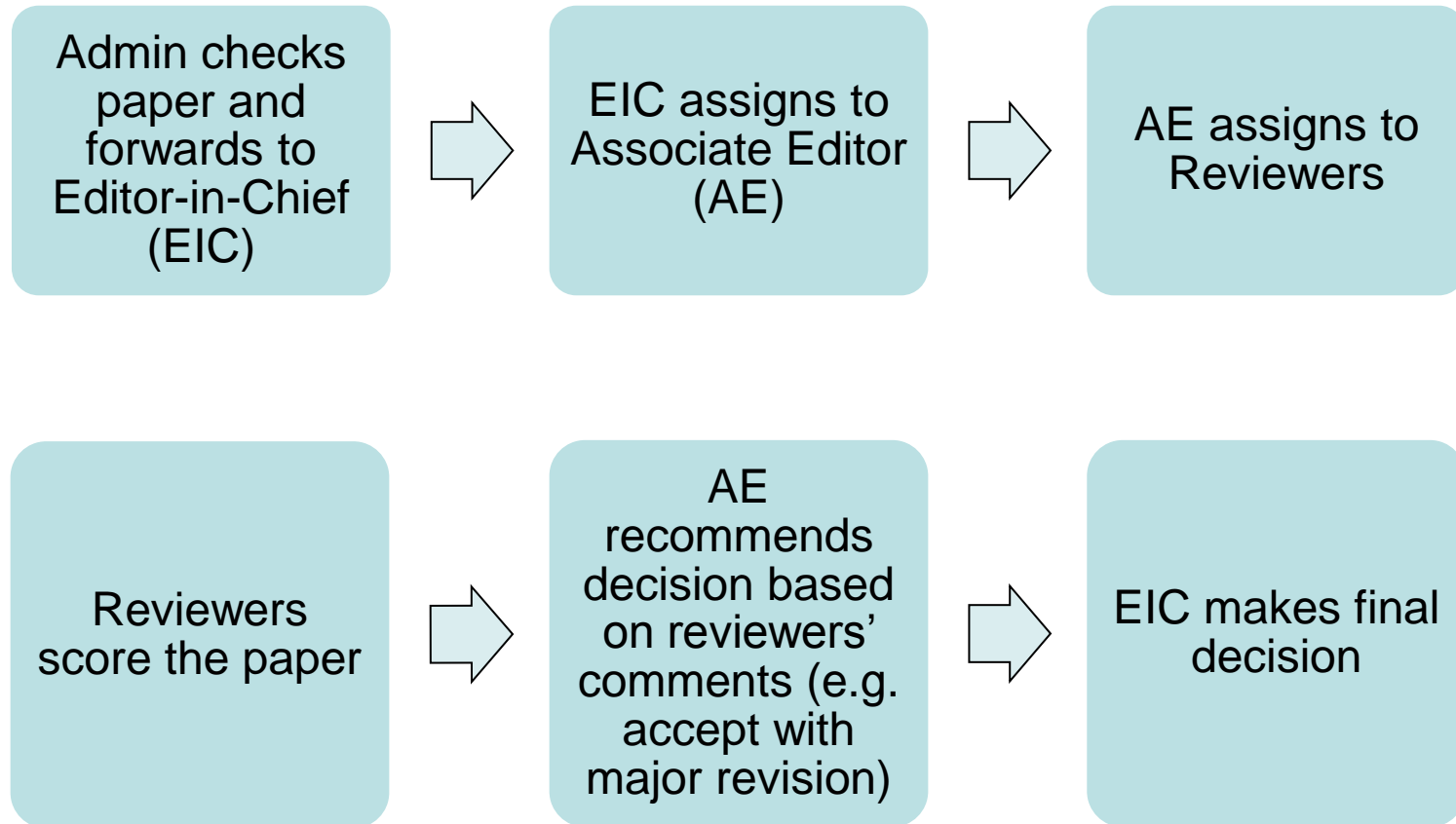
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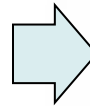


# The Publishing Process

## Editorial Stage



**Author makes recommended changes and resubmits the article**



**When Editor is happy with final version of the article it is sent to the publisher**



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# The Publishing Process

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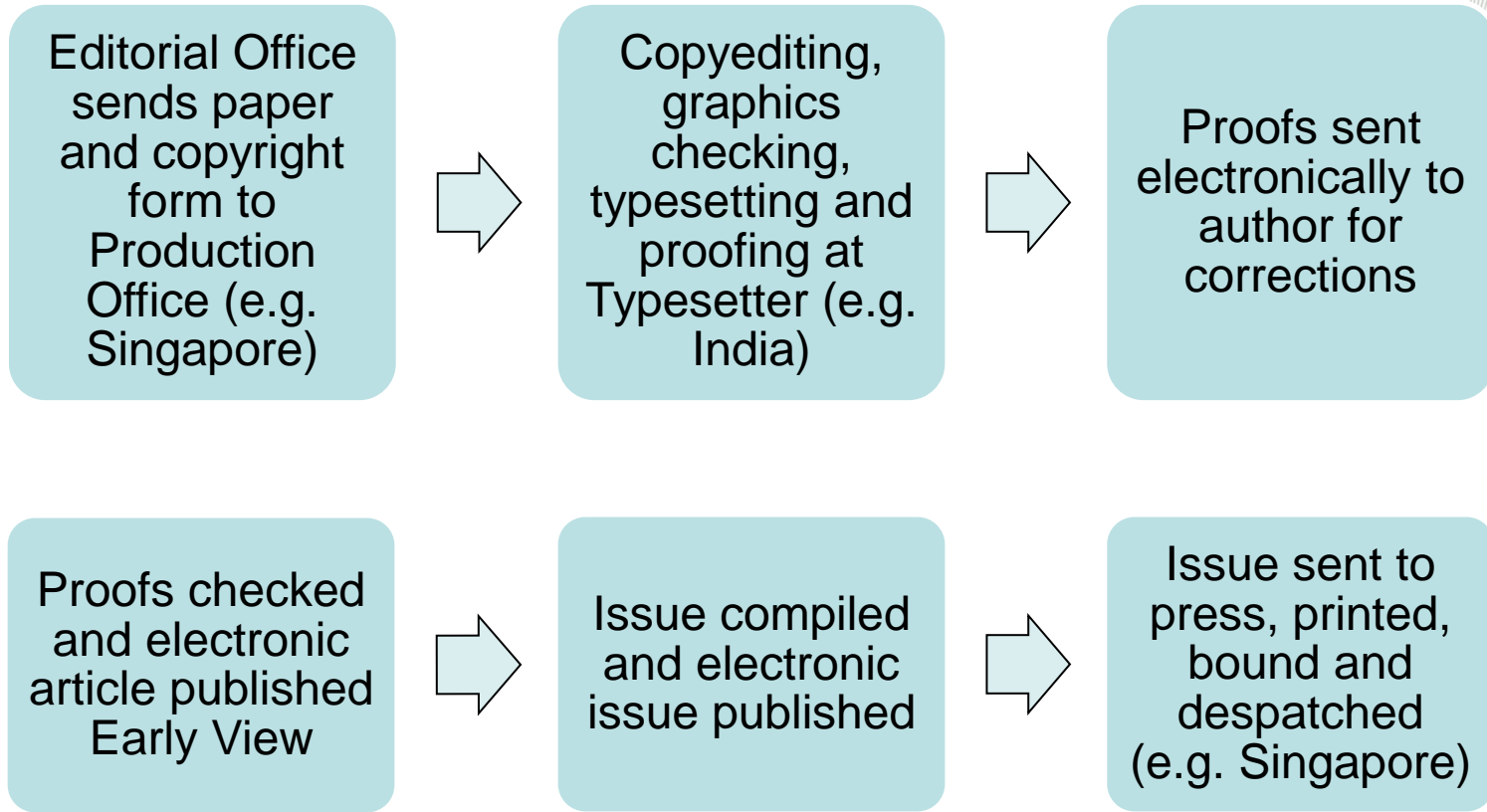
<http://www.writescienceright.com/> (€0.06 per word)

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- Personal contact (Editorial Office, Production Editor)

# The Publishing Process

## Production Stage





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# The Publishing Process

## Publication Stage



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### Early View

(Articles online in advance of print)

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#### Original Articles

##### Proteomic Analysis of Shear Stress-Mediated Protection from TIRF- $\alpha$ in Endothelial Cells (p)

Julie K. Freed, Andrew S. Greene  
Published Online: Apr 8 2010 9:16AM  
DOI: 10.1111/j.1549-8719.2010.00031.x

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##### Lymphatic Dysfunction, Not Aplasia, Underlies Milroy Disease (p)

Russell H. Mellor, Charlotte E. Hubert, Anthony W.B. Stanton, Naomi Tate, Victoria Akhras, Alberto Smith, Kevin G. Burnand, Steve Jeffery, Taina Mäkinen, J. Rodney Levick, Peter S. Mortimer  
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# The Publishing Process

## Publication Stage

DOI: 10.1111/j.1549-8719.2010.00031.x

### Proteomic Analysis of Shear Stress-Mediated Protection from TNF- $\alpha$ in Endothelial Cells

JULIE K. FREED AND ANDREW S. GREENE

Biotechnology and Bioengineering Center, Medical College of Wisconsin, Milwaukee, Wisconsin, USA

#### ABSTRACT

Previous studies have shown that physiological levels of shear stress can protect endothelial cells (ECs) from apoptotic stimuli. Here, we differentiate between acute and chronic shear stress and demonstrate the use of proteomic technologies to uncover mechanisms associated with protection of ECs. We hypothesized that changes in abundance of proteins associated with signaling cascade orchestrate shear stress-mediated protection from TNF- $\alpha$  when combined with shear prior to the exposure of apoptotic stimuli. Detection of cleaved caspase 3 by Western blot analysis confirmed chronic shear stress-mediated protection from TNF- $\alpha$  in the presence of the nitric oxide synthase inhibitor, LNMA (*N*<sup>G</sup>-monomethyl-L-arginine). Treatment with a *de novo* protein synthesis inhibitor, cycloheximide, had a protective effect. Isotopic-labeling experiments, coupled with LC-MS/MS (liquid chromatography-mass spectrometry) of isolated components of the TNF- $\alpha$  pathway revealed that phosphorylation of the NF- $\kappa$ B pathway, was increased (60%) in sheared ECs. This result was confirmed through Western blot analysis. Our data suggest that phosphorylation of proteins is required for protection from TNF- $\alpha$  in ECs chronically exposed to shear stress and that CARD9 is a candidate protein in this response. *Microcirculation* (2010) 17, 1–12. doi: 10.1111/j.1549-8719.2010.00031.x

KEY WORDS: endothelium, shear stress, apoptosis, proteomics

#### INTRODUCTION

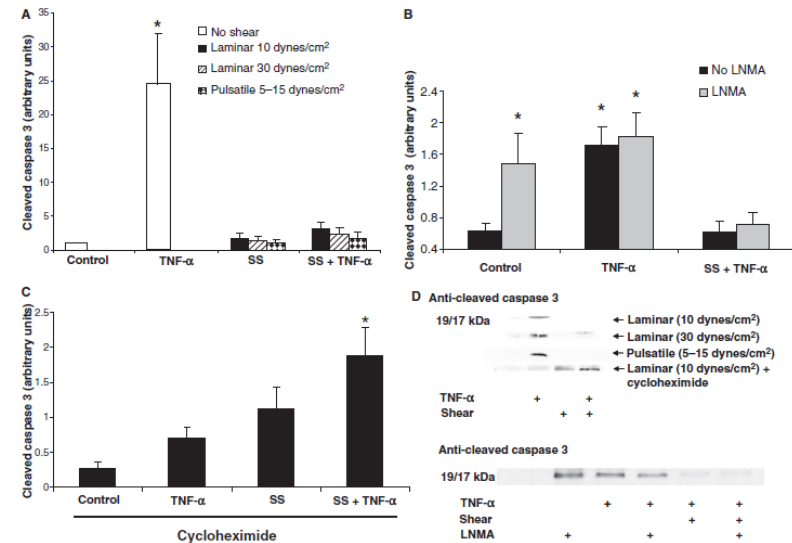
Maintenance of the vascular endothelium is a tightly regulated process. The balance of pro- and anti-angiogenic factors dictates whether an

endothelial cell, by the exposure, has been deranged. This immediate shear-induced response to TNF- $\alpha$  stimuli of NO have been shown to be protective in endothelial cells by the

Final accepted typeset version of article

Proteomics of Shear Stress-Mediated Protection  
J.K. Freed and A.S. Greene

5



**Figure 1.** (A) Quantitative densitometry comparing cleaved caspase 3 and poly(ADP-ribose)-polymerase (PARP) protein levels in nontreated control cells, cells treated with 10 ng/mL of TNF- $\alpha$  for 12 hours, cells exposed to shear for 18 hours (10 dynes/cm<sup>2</sup>), and cells first exposed to shear (10 dynes/cm<sup>2</sup> for 18 hours) then treated with 10 ng/mL of TNF- $\alpha$  for 12 hours (mean  $\pm$  SEM,  $n = 5$ ). (B) Cells treated with 1 mM LNMA and 10 ng/mL TNF- $\alpha$  for 12 hours, cells treated with 10 ng/mL of TNF- $\alpha$  for 12 hours, cells treated with 1 mM LNMA and 10 ng/mL TNF- $\alpha$  for 12 hours

# The Publishing Process

## Publication Stage

Publication enhancements to add value to the article:

- Podcasts/ video casts
- Supplementary material
- Editor/author/reviewer commentaries
- Linking between articles (e.g. With editorials)
- Linking to sister sites (e.g. Correspondence sites, blogs, spin-off publications)

# The Publishing Process

## Post-Publication Activities

- Indexing (e.g. PubMed)
- Subscriptions, licences, philanthropic deals
- E-alerts
- Marketing and promotion
- Downloads
- Citation
- Rights and permissions
- Virtual issues created
- Reprints sold

# Ethics

- Plagiarism
- Redundant publication
  - Detected with software
  - Take care with referencing
  - Consult editor
- ‘Salami slicing’: same study used across more than one article
- Transparency
  - Conflicts of Interest
  - Registering Clinical Trials
  - Respecting Confidentiality
  - Protecting Research Subjects
- Authorship
  - Contribution forms, funding, statements

# Copyright

I

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- benefit to the public good
- impact of the research and researchers
- cheaper route to dissemination of research
- development of online technology

- **Routes to open access publication:**

- Open access journals – pay to publish or free
- Freely accessible subject-based or institutional repositories
- Subscription journals with pay-to-publish option to allow the article to be freely available and posted on repositories

- **Considerations:**

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- Dissemination: consortia and developing world agreements
- Communication: journal brands, print version
- Sustainability of publishing model

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Alexandra Smith, Eve Roman, Debra Howell, Richard Jones, Russell Patmore, Andrew Jack

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DOI: 10.1111/j.1365-2141.2009.08010.x

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Dic(17;18)(p11.2;p11.2) is a recurring abnormality in chronic lymphocytic leukaemia associated with aggressive disease (p 754-759)

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Published Online: Dec 16 2009 11:38PM

DOI: 10.1111/j.1365-2141.2009.08007.x

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