



Responsible Authorship & Publication Practices

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IATP Lecture

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Responsible Publication Practices

- Authorship Requirements
- Acknowledgments
- Plagiarism and Self-Plagiarism
- Ethical Image Adjustments
- Advice from a Former Editor

Authorship Requirements

Major contributions to: **主な貢献者とは**

Conception & design of the study

試験の構想&デザイン

Analysis & interpretation of data

データの分析&解釈

Drafting or revising the manuscript for intellectual content

論文の作成あるいは修正の指導

In addition, all authors must give-

Final approval for publication

論文公表の最終許可

Unacceptable Authorship

Just providing the funding or general supervision of the research group alone **does not constitute authorship**
単に研究グループの資金提供あるいは総監督の場合は、著者としてあてはまらない

Coercion authorship by person in position of authority
権威のある先生による高圧的な著者

Honorary/Guest/Gift authorship
名誉的な／ゲスト的な／ギフト的な著者

As a gesture of respect

尊敬の念として

To add credibility

信用を付すために

Authorship Requirements

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論文公表の最終許可

Authorship

Each author should have participated sufficiently in the work to take **public responsibility** for what is published

論文公表に対する公的な責任を有するために、どの著者も研究に十分従事しているべきだ

All authors are accountable and responsible for the information reported in a paper

全ての著者は論文に報告された情報に対しては説明でき、責任を負うべきである

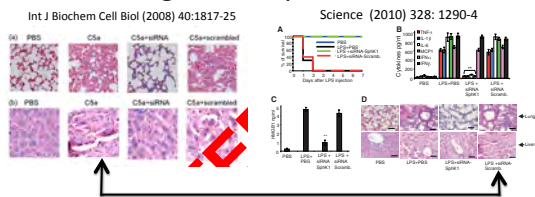
Acknowledgments

Person who provided purely technical help or writing assistance
 純粋に技術協力や執筆協力してくれた人物
 "Served as scientific advisor," "critically reviewed the study proposal," "collected data," "provided care for study patients"
 「科学的アドバイザーとしての協力」、「研究提案を批判的にレビューしてくれた人物」、「データ収集してくれた人物」、「対象患者のケアをした人物」
 Department chairperson who provided only general support
 一般的なサポートをした所属部署の長
 Financial and material support should also be acknowledged
 資金的及び物資的支援は謝辞にすべきである
 A person should never be acknowledged without their permission.
 本人の許可なしでは謝辞に記載すべきではない

Responsible Publication Practices

Read the original cited papers rather than relying on a published review paper
 公表された総説論文に頼るよりは、オリジナルの引用文献を読むこと
 Avoid plagiarism and self-plagiarism
 盗作や自己盗作は避けること
 Do not copy sentences from someone's published paper
 誰かの公表論文から文章をコピーしないこと
 Do not copy sentences or parts from one of your own previous published papers
 以前に公表した自分の論文から文章あるいはその一部をコピーしないこと
 Start each manuscript as a fresh start
 どの論文も再出発としてスタートすること

Scientific Fraud – Using the same image in two publications

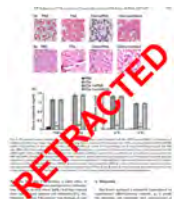


This can be considered a form of plagiarism involving images.
 これは画像の盗用と考えられる

Scientific Fraud Involving Figures

Int J Biochem Cell Biol (2008) 40:1817-25

Science (2010) 328: 1290-4



RETRACTION

Print date 26 July 2011

There are several problems with the Report "Tgβ1 regulates anti-inflammatory responses associated with endotoxin and polyinosinic-polycytidylic acid" by P. Paret et al. (2). Specifically, Figs. 2E and 4B contain images that were generated by author Paret for the current paper, but had been used in previous publications (see 1), all without her knowledge or consent. Images for Fig. 2E are displayed in Fig. 4B; images from other figures have been suggested and the validity of the data cannot be confirmed. Finally, sections of the text are omitted or identified in sections of 4B.

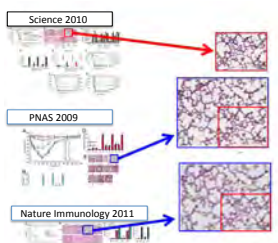
For these reasons, the authors below wish to retract the paper. Author Alicia J. Molander has not been available to sign the Retraction. The National University of Singapore has completed an investigation into the irregularities in this paper and has concluded that sole responsibility for the irregularities rests with author Alicia J. Molander.

PRINCIPAL FRAUDS: "CALCULATED" LINE LENGTHS, LINE SPACES, "NEW WORDS/WORDS," "NUMBER OF WORDS/WORDS," "DIFFERENCE BETWEEN WORDS/WORDS"

Department of Physiology, National University of Singapore, 117577 Singapore; Department of Chemistry, National University of Singapore, 117570 Singapore; National Institute of Environmental Health Sciences, 2875 National Lakeshore Dr., Durham, NC 27709, USA; Department of Chemistry, National University of Singapore, 117570 Singapore; National Institute of Environmental Health Sciences, 2875 National Lakeshore Dr., Durham, NC 27709, USA

References
 1. Paret P, et al. Science 2010; 328: 1290-4.
 2. Paret P, et al. Int J Biochem Cell Biol 2008; 40: 1817-25.
 3. Paret P, et al. Proc Natl Acad Sci U S A 2008; 105: 10000-4.
 4. Paret P, et al. J Biol Chem 2008; 283: 10000-4.

Scientific Fraud Involving Figures



Papers **RETRACTED**
 from all 3 journals

3つすべての雑誌から論文
 が撤回された

Responsible Publication Practices

Disclosure of Conflict of Interest

Identify the institutional/funding organization

The order of authorship should reflect each co-authors contribution to the manuscript

著者の順番は、その人物の論文・研究への貢献度を反映すること

Abuses of Publication Practices

Redundant/Duplicate Publications

Publishing virtually the same research results in multiple journals
同じ研究結果を多数のジャーナルに事実上公表すること
Simultaneous submission of same paper to different journals
同じ論文を異なるジャーナルに同時に投稿すること
Results published as **"least publishable units"** – papers just detailed enough to get published but do not tell the full story
「最低限の公表可能な内容」として公表される研究結果
— 公表できるだけの内容が盛り込まれているが、フルストーリーが記載されていない論文である

Photomanipulation in the 1860's



Lincoln's head on John Calhoun's body

(original)

Photomanipulation in the 1860's



Photo by famed photographer Mathew Brady showing General Sherman posing with his generals. General Francis P. Blair (far right) was added to the original photograph.

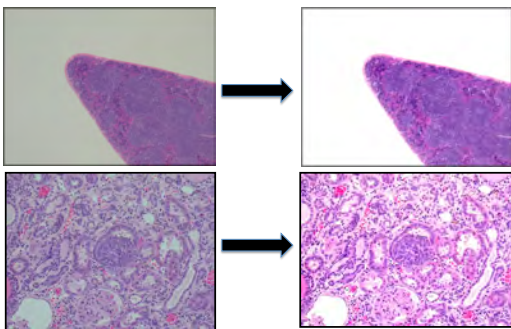
(original)

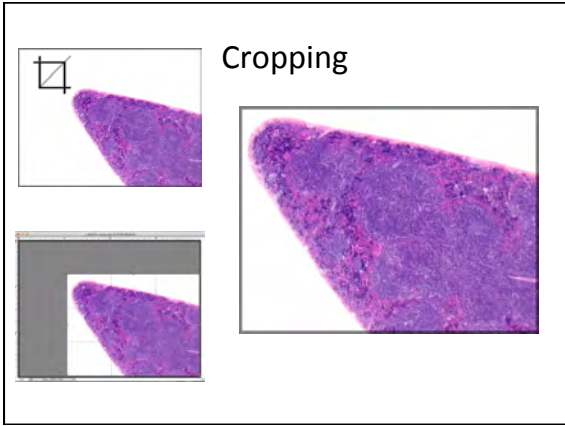


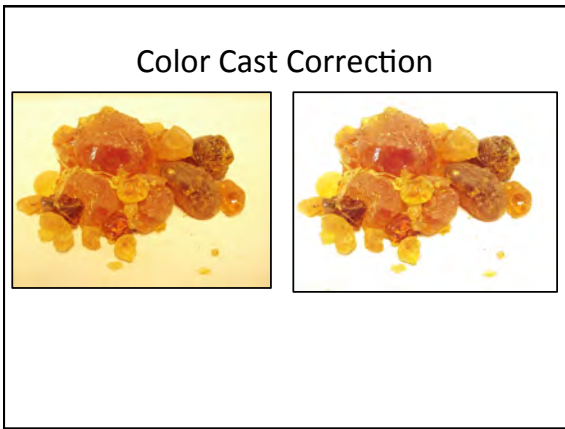
Some Ethical Adjustments

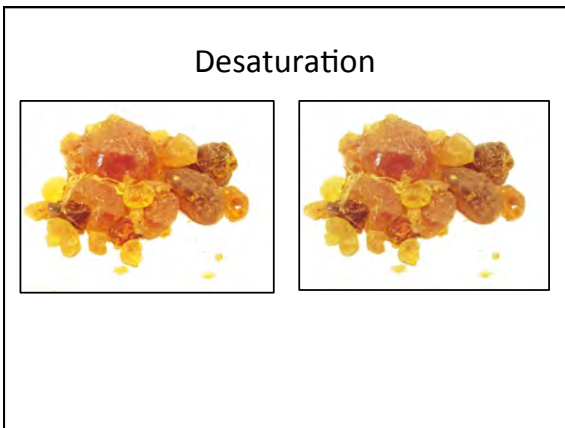
- White balance
- Cropping & straightening
- Adjusting uneven illumination
- Color correction
 - Color cast
 - Desaturation
- Sharpening is (questionable)
- Adjust size & format
- Convert color to grayscale
- Remove background dust
- Change background
- Adjust gamut for output
 - RGB to CMYK

White Balance

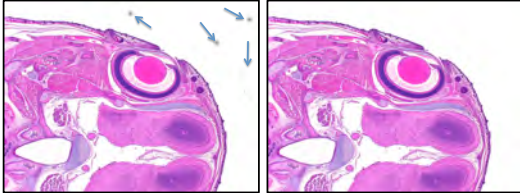








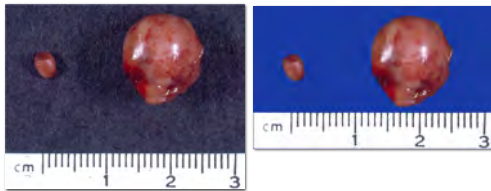
Remove Background Dust



Dust and tissue floaters can be removed from the background but DO NOT REMOVE if present on the actual tissue.

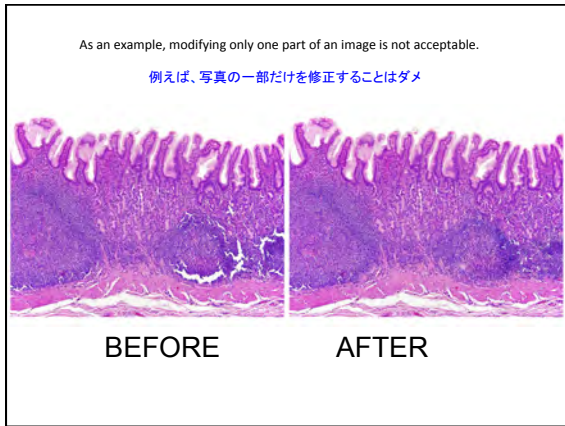
背景にあるゴミや組織片は取り除いてもかまわないが、組織の上にあるものは取り除くことはダメ

Changing Background Color




Unacceptable Image Adjustments

- No air brushing
- No alteration of diagnostic features
- No cloning
- No healing brush or content aware procedures
- Don't create a collage of images and represent it as a single image
- Don't set total number of pixels to exceed what was in the original image





Forensic Programs for Detecting Alterations to Images



Tampered Region Localization of Digital Color Images Based on JPEG Compression Noise

Wu Wang, Jing Dong, and Tieniu Tao
 National Laboratory of Pattern Recognition,
 Institute of Automation, Chinese Academy of Sciences,
 P.O. Box 2729, Beijing, P.R. China, 100190
 (wang_jing, tao)@nlpr.ia.ac.cn

(IWDW'10 Proceedings of 9th International Conference on Digital Watermarking
 Pages 120-133, Springer-Verlag, Berlin 2011)

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A perceptual metric for photo retouching
 Eric Kee and Hany Farid¹
 Department of Computer Science, Dartmouth College, Hanover, NH 03755
 Edited by Brian A. Wandell, Stanford University, Stanford, CA, and approved October 19, 2011 (received for review July 5, 2011)

(PNAS Dec. 2011 Vol. 108 no. 50 pp 19907-19912)

Image Adjustment Guidelines

The final image should be an accurate representation of what you actually observed
 最終の画像は実際に観察した的確な描写であるべきだ

The originally captured image (before any adjustments) should be preserved
 修正前のオリジナルの撮影画像は保存しておくべきだ

Keep a record of all image adjustments.
 すべての調整に関して記録を残しておくこと

Image Adjustment Guidelines

- Adjustments should be made on a copy of the originally captured image.
 修正はオリジナルの撮影画像のコピーで実施すべきだ
- The journal editor or reviewers may ask to see the original unaltered image.
 雑誌のエディターやレビュアーは修正のないオリジナルの画像の確認を要求するかもしれない
- You may indicate changes to images in the Materials & Methods or in the Figure Legends
 論文の「Materials & Methods」や「Figure Legends」の項目に、画像の修正について簡単に述べてもかまわない

Sample Statements for Materials & Methods or Figure Legends

- “Images were individually adjusted in Adobe Photoshop including white balance, contrast adjustment, density correction, and/or decreased color saturation.”
- “Image(s) adjusted in Adobe Photoshop to remove background dust.”
- “Image(s) was adjusted to correct for uneven illumination or to correct vignette.”

Advice from an Editor

Does the paper have a message?

その論文はメッセージが込められているか？

Can you express that message in three sentences?

あなたはそのメッセージを3つの文で表現できるか？

Does the paper contain something new and interesting?

その論文には何か新しいことや興味を引かれることが盛り込まれているか？

The Paper Should Tell a Story

Beginning – Why you did the study

初め — なぜ研究を実施したか

Middle – What you did

中間 — 何を行ったか

End – What you found and why it matters

終わり — 何を見つけて、なぜそれは重要か

Introduction

Orient the reader

読者を中心に据える

Make the reader want to read the paper

読者に論文を読みたいようにさせる

Keep it short

短くすること

Methods

Don't repeat details published elsewhere

他で公表された詳細を繰り返さないこと

Provide enough information so someone can repeat your study

第三者があなたの研究を再現できるように十分な情報を提供すること

Results

Present in logical order

論理的な順番で提示すること

Provide a clear explanation

明確な説明をすること

Statistics – ask for professional advice

統計 — 専門家のアドバイスを求めること

Discussion

One point per paragraph

ひとつの段落にひとつのポイントを記載する

5 or 6 paragraphs

5あるいは6段落がベスト

Structure of the Discussion

State principal findings

主要な所見を述べること

Indicate strengths & weaknesses of your paper

あなたの論文の強み・弱みを示すこと

Indicate why your work is important

あなたの研究がなぜ重要なのかを示すこと

Finish with unanswered questions and proposals for future studies

答えのない質問や将来の研究への提案で締めくくること

Abstract

- Divide the abstract into **Background**, **Methods**, **Results**, and **Conclusions** (some journals require these subcategories)

References

Keep the list of references short (some journals have a maximum size limit)

引用文献リストは短くすること(文献数の上限がある雑誌もある)

Be sure you have read the papers and quote them correctly

自分自身で論文を読んで、正しく引用すること

Some of the scientists you cite may end up reviewing your paper for the journal

あなたが引用した論文の著者が、あなたの論文のレビューをするかもしれない

Illustrations

The eye rules the brain

目は脳を規定する

A good illustration can communicate the message at a glance

よいイラストは一目でメッセージを伝えることができる

Papers without visual content tend to be ignored

視覚的内容のない論文は無視される傾向がある

1.Editing Your Paper – Remove

Adjectives – as many as possible

形容詞 – 可能な限り多く

Soft qualifiers (e.g., slightly more, somewhat less, etc.)

柔軟な修飾語(例えば、わずかに多く、幾分少なく、など)

2-Editing Your Paper – Remove

Any word that can be removed without changing the meaning of the sentence

文の意味が変わらないで削除できる単語

Any sentence that can be removed without changing the meaning of the paragraph

段落の意味が変わらないで削除できる文

If your paper is not 25% shorter, start over again.

もし、あなたの論文が25%短くならないのなら、もう一度最初からやり直すこと

Incubate Your Manuscript

Put in a drawer at room temperature for 2 weeks

室温で2週間引き出しに入れること

Get a glass of wine or a cold beer and read your paper

一杯のワインや冷えたビールを手にして、あなたの論文を読むこと

It will not be as good as you thought!

それはあなたが考えたほど良いものではないだろう

Thank You for your attention
and
Good Luck with your manuscripts.



Thanks to Dr. Katsuhiko Yoshizawa for Japanese translations.
