



มหาวิทยาลัยมหิดล  
Mahidol University

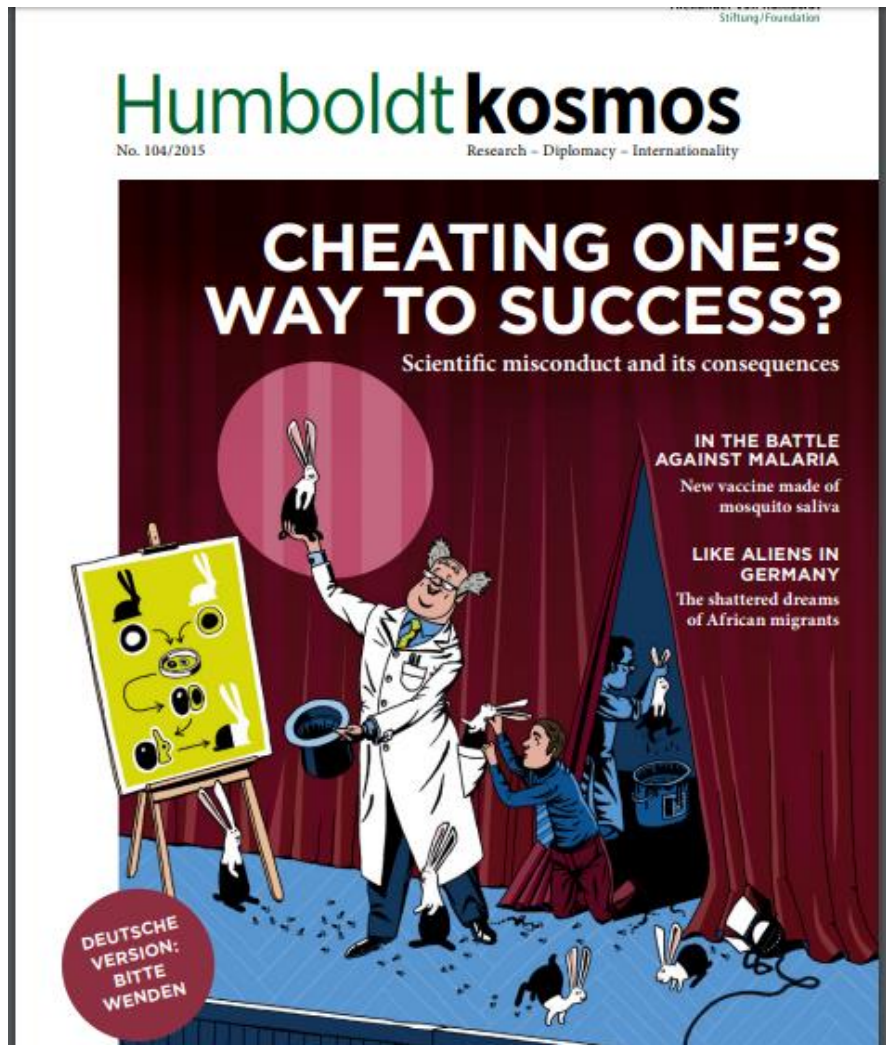
# Ethical Issues

Leena Suntornsuk

1 December 2021

# Scientific Ethics

*Science has its professional ethics, and without integrity, science cannot exist*

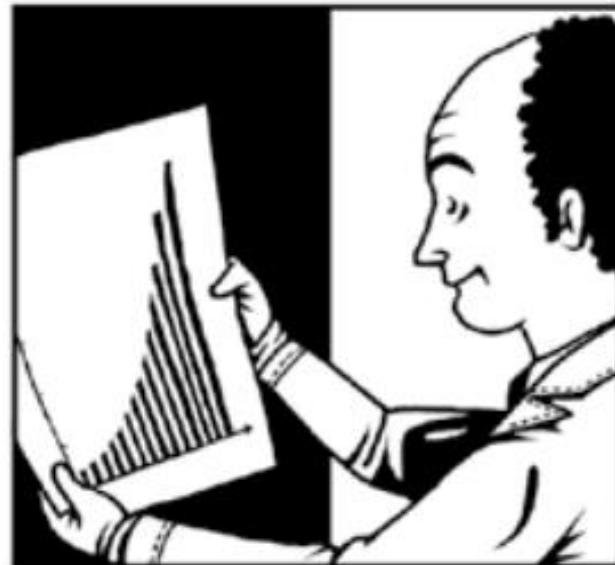


**Alexander von Humboldt**  
Stiftung/Foundation





**IT IS NATURAL  
THAT RESEARCHERS  
PREFER TO SHINE  
RATHER THAN ADMIT  
THEIR ERRORS  
ALTHOUGH FAILURE  
CAN ADVANCE  
SCIENCE.**





# Misconduct

## Misconduct that distorts scientific knowledge

- Fabrication
- Falsification

## Misconduct that misleads scientific community

- Plagiarism (guest, ghost authors)
- Duplicate publication
- Abuse of peer review process

**“FFP”**

# Misconduct

## Misconduct relating to human subjects

- Consent issue
- Exploitation issue

## Other issues

- Conflicts of interest
- Poor record keeping
- Fail to obtain necessary ethical approval

# Pitdown Man (1912)

- Report of hominid remains found in Sussex
- "Missing link"?
- Later shown to be skull of modern man and jawbone of orang-utan
- Fraud certain, but identity of culprit still uncertain
  - Charles Dawson?
  - Martin Hinton?



<http://tinyurl.com/dawsonhinton>



<http://tinyurl.com/pitdownskull>

✘ Fabrication



# Porton Down (1940s-60s)

- Series of experiments conducted at Porton Down, UK Government and military research centre
- Participants thought they were volunteering for trials to find things such as cure for common cold
- Actually exposed to LSD, sarin, mustard gas, etc
- 2008, MOD agreed to £3M payout to surviving veterans

- ☒ Consent
- ☒ Exploitation

Last Updated: Thursday, 31 January 2008, 17:02 GMT

 E-mail this to a friend

 Printable version

## Porton Down victims awarded £3m

The Ministry of Defence (MoD) is to award £3m in compensation to 360 veterans of Cold War experiments at the Porton Down research centre.

Defence minister Derek Twigg said: "The government sincerely apologises to those who may have been affected."



The government has not admitted liability

The money is "in full and final settlement" of claims and without admission of liability, Mr Twigg added.

Many of those given nerve agents in the trials at the Wiltshire complex have complained of life-long ill health.

The servicemen were often told they were helping to find a cure for the common cold.

<http://tinyurl.com/portondown>

# Tuskegee Syphilis Study (1932-72)



<http://tinyurl.com/tuskegee11>

- Poor African-Americans with advanced syphilis recruited to trial to study their "bad blood"
- Deliberately untreated to see long-term effects of infection, even when treatments became available (e.g. Penicillin)
- Over 400 men (plus families) involved
- Breach of human rights

- ☒ Consent
- ☒ Exploitation
- ☒ (Racism)

# Eric Poehlman (1992-2002)



<http://tinyurl.com/poehlman>

- Research into ageing, menopause and Hormone Replacement Therapy, working primarily at Uni of Vermont
- Misconduct exposed by former lab technician Walter DeNino
- Pleaded guilty to falsifying 17 grant applications and fabricating data in 10 research papers
- 2006, first scientist jailed for fraud (also fined \$200K)

☒ Fabrication

☒ Falsification

# Andrew Wakefield (1998)

- Author on infamous Lancet paper linking autism with MMR vaccine
- Investigation for >2 years (ended May 2010) decided he was guilty of conflict of interest, both as recipient of money from lawyer looking for link to vaccine, and regarding company he set up looking to market test
- Highly selective reporting of data
- Unethical dealings with children

- ☒ Consent
- ☒ Exploitation
- ☒ Conduct of clinical trial
- ☒ Conflict of Interest (financial)



# Jon Sudbo (1993-2005)

- Research into prevention of oral cancer at Norwegian Radium Hospital, Oslo
- 2005 paper in *Lancet* raised almost instant accusation of fabrication as it included 900 patients from database that didn't exist at time cited
- Also found that second image in a 2001 NEJM paper just enlargement of first
- Eventually 15 papers (plus PhD) retracted

☒ Fabrication

☒ Falsification



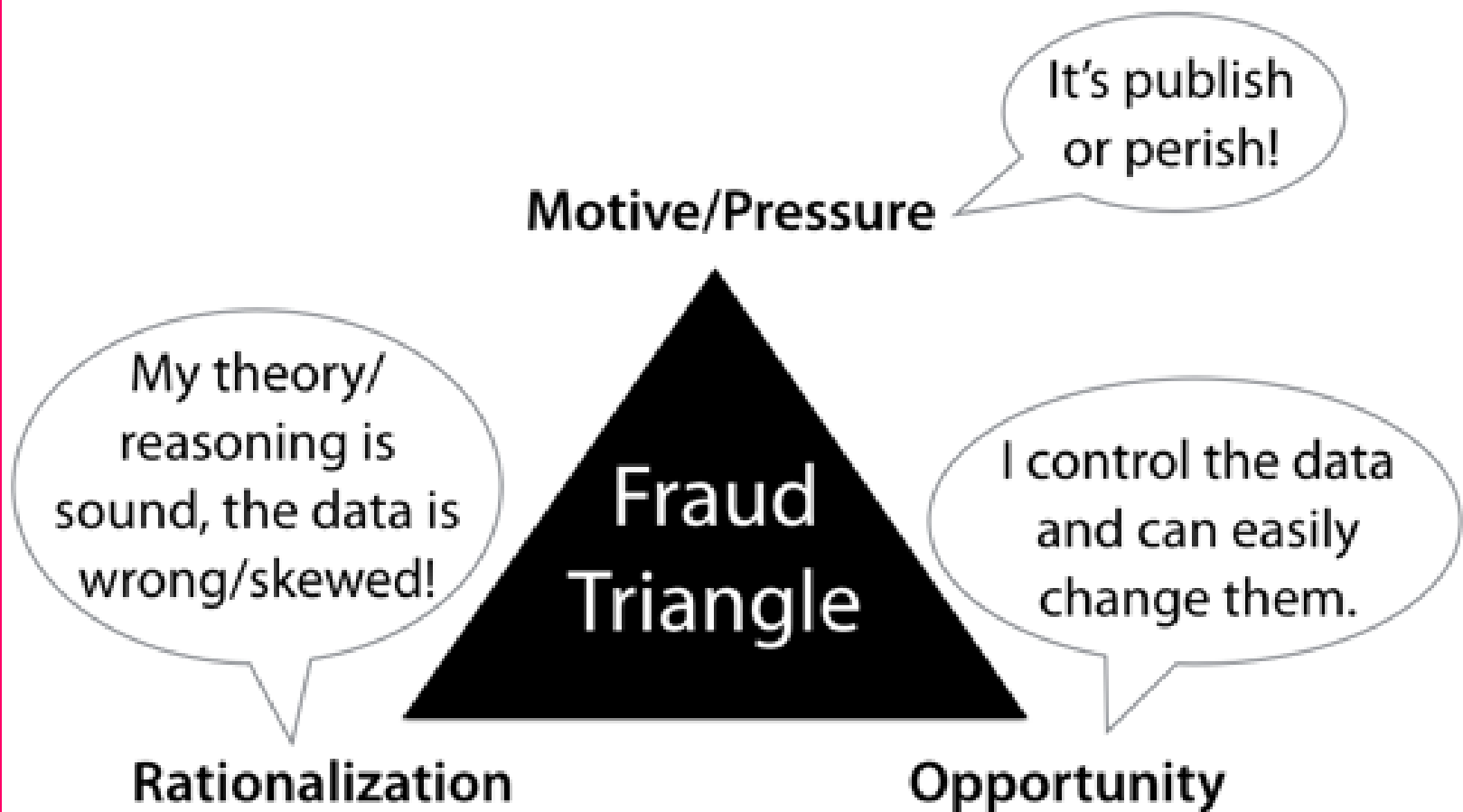
# Hwang Woo-Suk (2004-05)



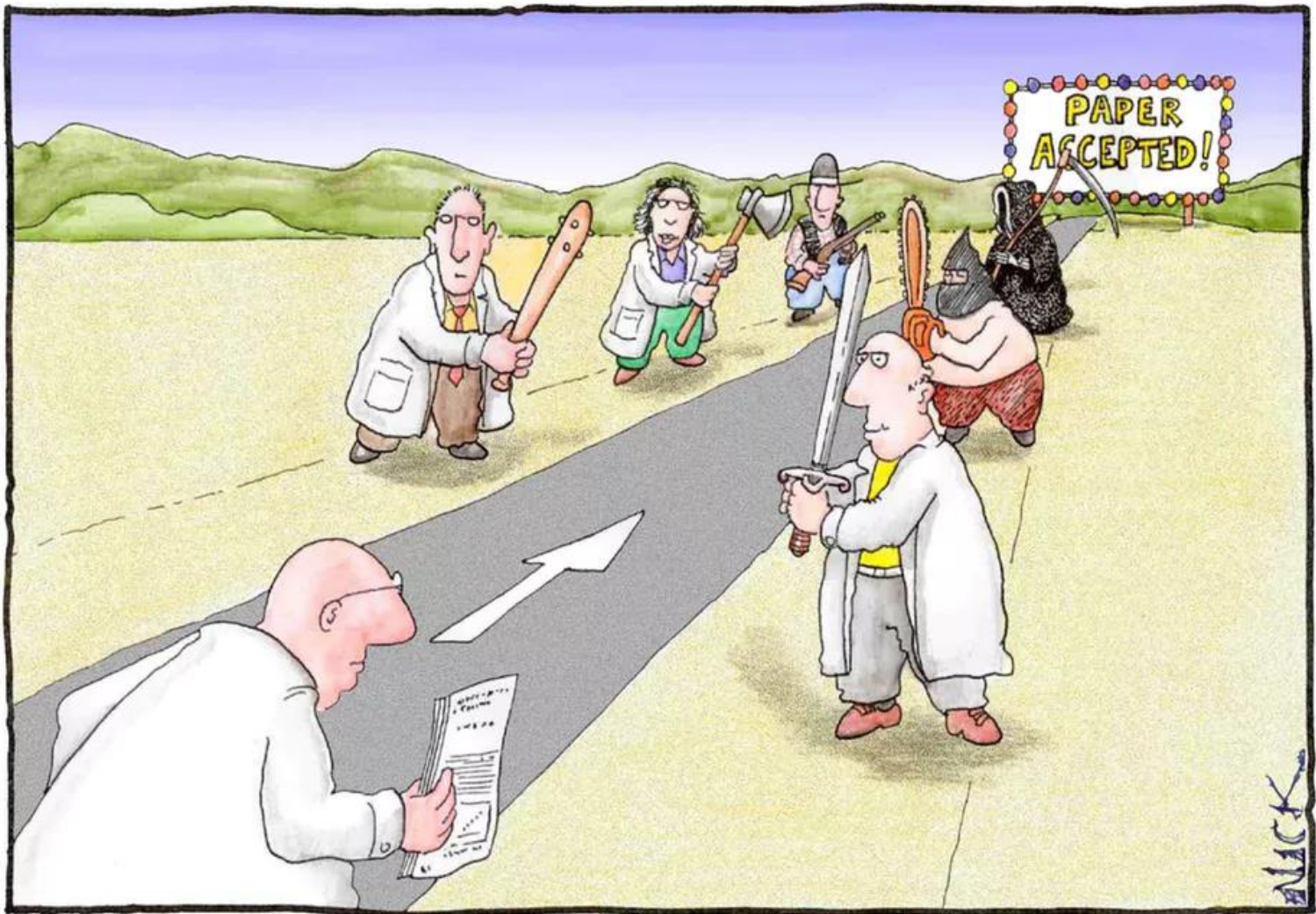
<http://tinyurl.com/hwang11>

- 2 landmark papers in *Science* reporting production of human embryonic stem cells via Somatic Cell Nuclear Transfer
- Data fabricated and falsified
- Also obtained human eggs for research by unethical means, including requiring female team members to superovulate
- Suspended prison sentence for embezzlement

- ☒ Fabrication
- ☒ Falsification
- ☒ Exploitation
- ☒ Embezzlement



Fraud Triangle (by Donald R. Cressey) adapted to Scientific Misconduct



Most scientists regarded the new streamlined peer-review process as "quite an improvement."





# Stimulus-triggered fate conversion of somatic cells into pluripotency

LETTER

RETRACTED

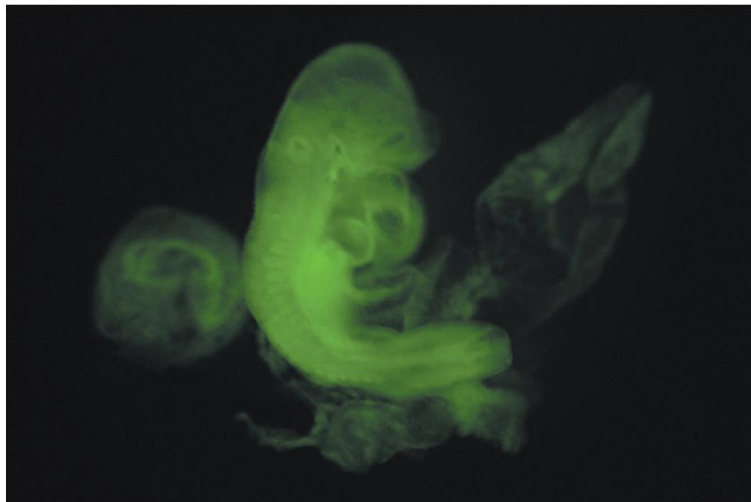
doi:10.1038/nature12969

## Bidirectional developmental potential in reprogrammed cells with acquired pluripotency

NEWS IN FOCUS

596 | NATURE | VOL 505 | 30 JANUARY 2014

© 2014 Macmillan Publishers Limited. All rights reserved



A mouse embryo injected with cells made pluripotent through stress, tagged with a fluorescent protein.

### Acid bath offers easy path to stem cells

*Just squeezing or bathing cells in acidic conditions can readily reprogram them into an embryonic state.*

Good  
Research  
Practices

Questionable  
Research  
Practices

Fabrication  
Falsification  
Plagiarism



'Ideal'

Sloppy

Un-conscious bias

Conscious bias

Falsification

Fabrication

**VALID  
RESEARCH**

**honest**

**careful**

**rigorous**

**complete**

**logical**

**repeatable**

**INVALID  
RESEARCH**

**dishonest**

**deceitful**

**careless**

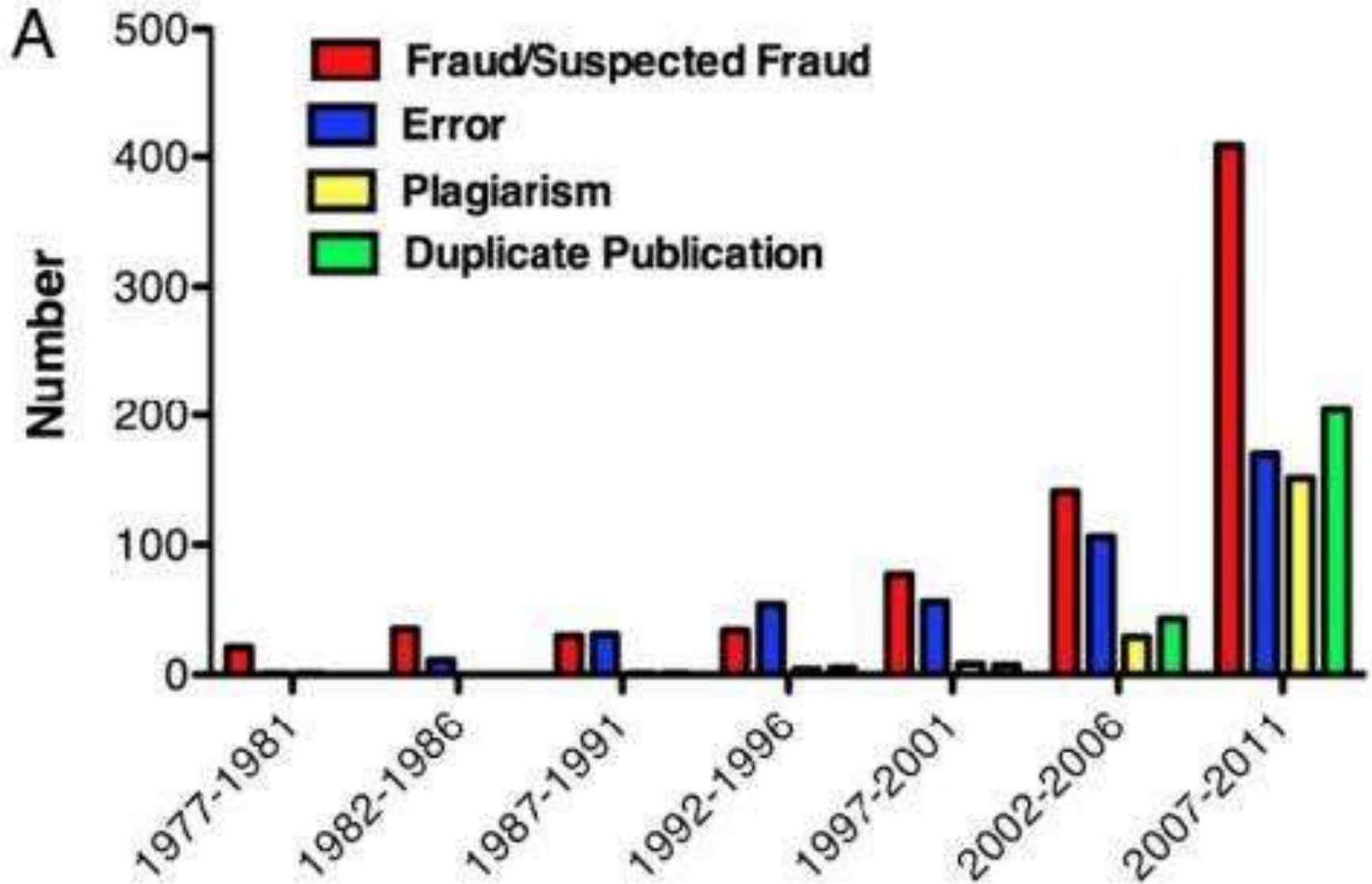
**superficial**

**incomplete**

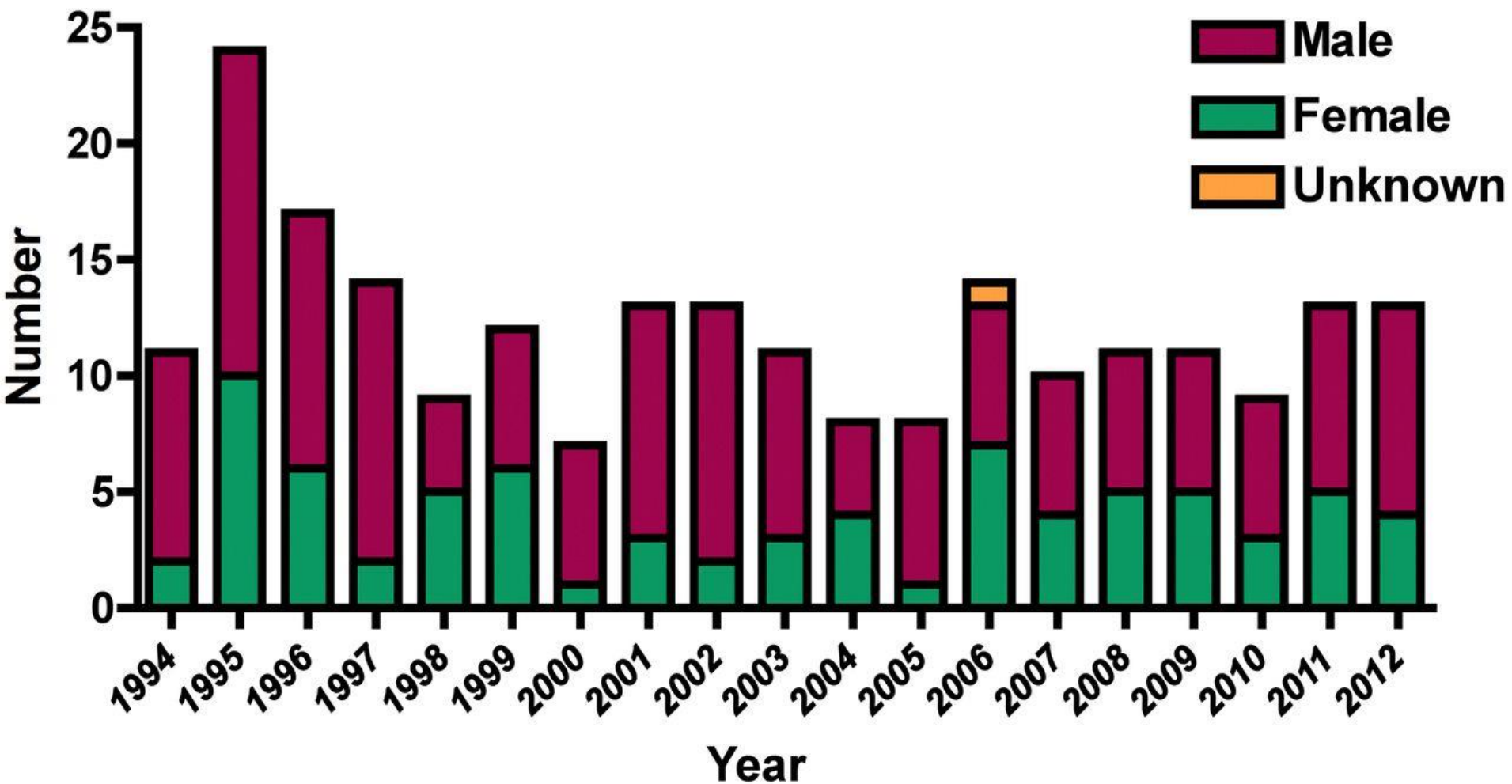
**wishful**

**unrepeatable**

# Rise in retraction for misconduct



[https://www.google.com/search?q=misconduct+in+science&source=lnms&tbm=isch&sa=X&ved=0CAgQ\\_AUoAmoVChMI7\\_DR5Oe2xwIVEAuOCh3RKQXG&biw=1600&bih=756#imgrc=NY-ILgV3qqQ-cM%3A](https://www.google.com/search?q=misconduct+in+science&source=lnms&tbm=isch&sa=X&ved=0CAgQ_AUoAmoVChMI7_DR5Oe2xwIVEAuOCh3RKQXG&biw=1600&bih=756#imgrc=NY-ILgV3qqQ-cM%3A)



Ferric C. Fang et al. mBio 2013; doi:10.1128/mBio.00640-12



# Did you know that....

- 70% of students admitted to cheating on exams
- 84% admitted to cheating on written assignments
- 52% had copied sentences from websites without citing the sources

# Did you know that....

- 51% of students did not believe cheating was wrong
- 95% of cheating students said that they had not been detected
- Almost 85% of students said cheating was necessary to get ahead



# The Most Misconduct in Scientific Writing



## Plagiarism

*Use of others' published and unpublished ideas or words (or other intellectual property) without attribution or permission, and presenting them as new and original rather than derived from an existing source.*

*Self-plagiarism refers to the practice of an author using portions of his or her previous writings on the same topic in another article, without specifically quoting or citing the self-plagiarised material.*

# Plagiarism

## (Prof. Sakamon Devahastin)

- Copying another person's idea or written work and claiming it as original
- Even one's own published writing is subject to copyright laws!
- Giving incorrect information about the source
- Changing words but copying the sentence structure without giving credit
- Copying so many words or ideas from a source, whether giving credit or not

**Editors ask reviewers to check for prior similar work.**

**SciFinder Scholar  
SciDirect  
Scopus  
Scirus**



**Self-plagiarism  
Duplication  
Plagiarism  
Fabrication  
Fraud  
Reviewer responsibility**

***Conflict of Interest : employment, research funding, ownership, patent, payment for lectures or travel, consultancies, non-financial support, etc. → Declare***

# Plagiarism detection tools

**eTBLAST** is a text similarity [search engine](#)

<http://etest.vbi.vt.edu/etblast3/>

Relevancy Threshold (Similarity ratio = 0.56). Entries above here have an unusual level of similarity

**Deja Vu:** a Database of Highly Similar Citations

<http://spore.vbi.vt.edu/dejavu/>

**iThenticate** - Identifies by color code identical sections from other papers, including the author's, gives word count

# Possible causes of plagiarism

- Excessive **competition** (“publish vs. perish”)
- **Reduced motivation** to learn and make original contribution to knowledge
- Lack of appropriate **role models** (ethical and professional)
- Deficiency in **language skills** (no excuse!)
- Massive **explosion in publication** (harder to detect!)

# Typical cases

- Inadequate paraphrasing of original work
- Simultaneous submission of manuscript for possible publication
- Re-submitting rejected manuscripts without making any changes
- Including well known professor's name and affiliation in a manuscript without permission

# Consequences

- **Blacklist** from editors
- **Complaints** sent to the university
- **Barred** from research and research supervision and from holding any administrative position at the university

# How to Avoid

- Be ethical
- Give credit where it is due
- Work harder and smarter
- Don't take short cuts
- Improve language skills
- Be ethical



# Selected cases

- **Chemical & Engineering News**
  - 70 papers during 2004-2007
  - 25 journals in 3 years
  - Self-plagiarism
  - Four paper of the same work to four journals
  - Claimed to use advanced instrument not available
  - Charging students fee to award them degrees

Athiporn Doomkaew<sup>1</sup>  
 Brompoj Pruthiwanasan<sup>1</sup>  
 Leena Suntornsuk<sup>1,2</sup>

<sup>1</sup>Department of Pharmaceutical Chemistry, Faculty of Pharmacy, Mahidol University, Bangkok, Thailand

<sup>2</sup>Center of Excellence for Innovation in Drug Design and Discovery, Faculty of Pharmacy, Mahidol University, Bangkok, Thailand

Received March 21, 2014

Revised March 21, 2014

Accepted April 5, 2014

## Research Article

# Simultaneous analysis of metformin and cyanoguanidine by capillary zone electrophoresis and its application in a stability study

A capillary zone electrophoresis method was established for stability study of metformin (MET). MET and cyanoguanidine (CGN; a major degradation product) were well separated (with a resolution of 38.9) in 40 mM citrate buffer (pH 6.7) using a fused-silica capillary with an effective length of 60 cm and an inner diameter of 50  $\mu\text{m}$ , injection at 50 mbar for 5 s at 30°C with an applied voltage of 15 kV and diode array detection at 214 nm. Method validation showed good linearity ( $r^2 > 0.99$ ), precision (%RSDs < 1.98%), and accuracy (%recovery between 98.3 and 100.9%). Limits of detection and quantification were < 30 and 100  $\mu\text{g/mL}$ , respectively. The method was robust upon alteration of pH and voltage (%RSDs < 1.99%). Stability profiles of metformin from 11 stress conditions and the degradation kinetics could be established, using the simple capillary zone electrophoresis system. A mechanism for the degradation of MET was also proposed. MET was stable in neutral hydrolysis, but degraded under alkaline hydrolysis and oxidation. Under both conditions, CGN was quantified as the degradation product. An assay of MET in raw material and tablets showed that content of the drugs in all samples met the requirements of pharmacopoeias and CGN was not detected.

**Keywords:** Cyanoguanidine / Capillary zone electrophoresis / Metformin / Stability studies

DOI 10.1002/jssc.201400310

J. Sep. Sci. 2014, 37, 1687–1693

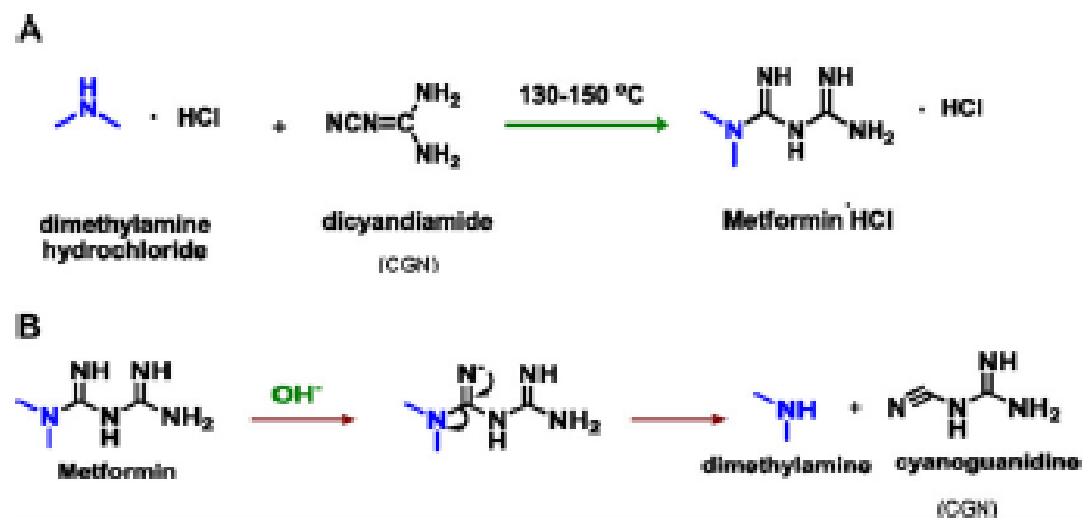


Figure 1. (A) A synthesis of MET and (B) proposed mechanism for the formation of CGN during the forced degradation of MET in alkaline hydrolysis.

**Organic Process R&D editorial (C&ENews, Feb 24, 2003, p. 31):**

**Authors deliberately don't cite competitor's work**

**Hope reviewers don't find out is competition**

**May also neglect to mention own work.**

**Only one reason: the work is similar to a previous publication.**

**This is self-plagiarism!**

The authors have disregarded the extensive research work spent on the extraction of the actual compounds from tissues that have been carried out during the recent decades....



**Reject**



The submitted paper focuses on the detection of catechol derivatives using a laccase modified electrode. The work is similar to several other papers from this group. The appears to be hastily put together both from the perspective of how it is written and from the depth of the science. Therefore, because of the lack of novelty and the difficulty the reader has in understanding the manuscript.

## Don't copy

**Preconcentration with membrane cell and adsorptive polarographic determination of cyanides in air, Analytica Chimica Acta, 382 (1999) 283.**

**Preconcentration with membrane cell and adsorptive polarographic determination of phenols in air, Talanta, 53 (2000) 517.**

## Don't copy

Preconcentration with membrane cell and adsorptive polarographic determination of **formaldehyde** in air, **Talanta**, **57** (2002) 317. **Received 12 Dec. 2001**, revised 31 Dec. 2001.

Preconcentration with membrane cell and adsorptive cathodic stripping voltammetric determination of **aniline** in air, **Indian Journal of Chemistry**, **41A** (2002) 2310. **Received 3 Sept., 2001**, revised 10 May 2002

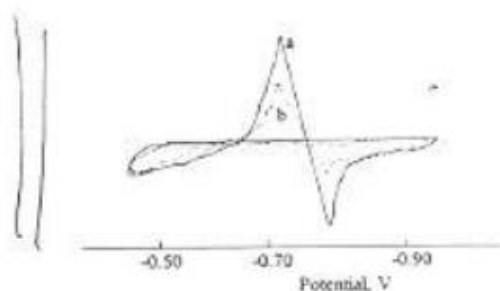


Fig. 4—Derivative cyclic voltammograms:  $1.0 \times 10^{-4}$  mol/L aniline, 0.0010 mol/L HCl, 0.0030 mol/L  $\text{NaNO}_2$ , 0.0025 mol/L  $\text{Na}_2\text{SO}_4$ , 0.0060% HCHO, 0.0060% Triton X-100, scan rate of 100 mV/s; (a) First scan; (b) Second and repetitive scans.

Aniline paper

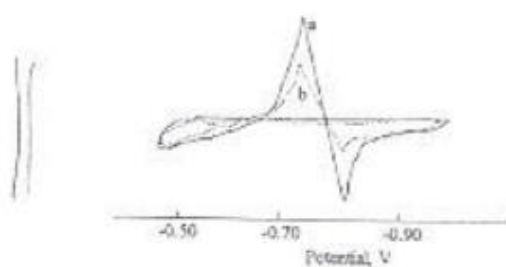


Fig. 5. Derivative cyclic voltammograms: pH 5.7,  $1.0 \times 10^{-4}$  M formaldehyde;  $2.0 \times 10^{-3}$  M DNPH, 0.010 M NaCl, 0.0010% Tween-80; scan rate of 100  $\text{mV s}^{-1}$ ; (a) First scan; (b) Second and repetitive scans.

Formaldehyde  
paper

# Don't self-plagiarize

I think there is no originality in this work. My opinion is that the authors often change journals to increase the number of their papers. I compare this report to some papers found in Science Direct: .....

.....There are many similarities with this manuscript. The titles and keywords are mixed to have the same objective. Different paragraphs are not original.....



# Don't send the same work to two different journals

## Additional Editor's comments:

I have received one review on this paper which recommends rejection (review attached). Whilst awaiting the second review I noticed a paper by the same authors which had recently been published:

Determination of trace lead, cadmium and mercury by on-line column enrichment followed by RP-HPLC as metal-tetra-(4-bromophenyl)-porphyrin chelates. xxx Talanta xx (200x) xxx-xxx

I have compared the Talanta paper with the manuscript submitted to Analytica Chimica Acta and I was astounded to see that they are virtually identical. It therefore appears that the authors have submitted the same work to two journals and were prepared to see it published in both. If true, this is an outrageous and totally unacceptable action.

*"Although too large for attaching to a rat, the size of the remote unit expedited circuit construction, modification and testing" (Garris)*

"As the **unit** was too large for attaching to a rat, the size of the remote unit expedited circuit construction, modification and testing"  
(submitted manuscript)

## Plagiarism

*"A 14.7456MHz crystal enables an ADC rate of 100 KS/s and 460 Kbaud serial communication with the third component of the **remote** unit, telemetry." (Garris)*

"14.7456 MHz crystal enables an ADC rate of 100 KS/s and 460 Kbaud serial communications with the third component of the **moving** unit, telemetry" (submitted manuscript)



## Coated graphite-epoxy ion-selective electrode for the determination of chromium(III) in oxalic medium

S. Khalil<sup>a,\*</sup>, A.A. Wassel<sup>b</sup>, F.F. Belal<sup>c</sup>

<sup>a</sup> Department of Chemistry, Faculty of Science, Fayoum, Cairo University, Fayoum Branch, 63514-Fayoum, Egypt, Saudi Arabia

<sup>b</sup> National Organization For Drug Control & Research, Giza, P.O. Box 29, Cairo, Egypt, Saudi Arabia

<sup>c</sup> Faculty of Pharmacy, King Saud University, Riyadh, Saudi Arabia

Received 25 June 2003; received in revised form 7 October 2003; accepted 31 October 2003

ANALYTICAL LETTERS, 30(3), 417–427 (1997)

### COATED GRAPHITE-EPOXY ION-SELECTIVE ELECTRODE FOR THE DETERMINATION OF IRON(III) IN OXALIC MEDIUM

**KEY WORDS:** iron(III) ion-selective electrode, coated graphite-epoxy conductor electrode, potentiometry, PVC.

Marcos Fernando de Souza Teixeira, Alexandre Zambon Pinto and  
Orlando Fatibello-Filho\*

Laboratório de Química Analítica, Departamento de Química, Centro de Ciências Exatas e de Tecnologia, Universidade Federal de São Carlos, Caixa Postal 676-13560-970-São Carlos-SP, Brazil.

## Abstract

A coated graphite-epoxy chromium(III) ion-selective electrode, based on the ion-pair between  $[\text{Cr}(\text{oxalate})_3]^{3-}$  anion and tricaprylmethylammonium cation (Aliquat 336) in a poly(vinylchloride) (PVC) matrix is constructed. A thin membrane film of this ion-pair, dibutylphthalate (DBP) in PVC was deposited directly onto a Perspex<sup>®</sup> tube containing a graphite-epoxy conductor substrate attached to the end of a glass tube. The effect of membrane composition (ion-pair, DBP and PVC), oxalate concentration, pH and some cations and anions upon the electrode response is investigated. The electrode shows a linear anionic response to E vs.  $\log [\text{Cr}^{3+}]$  in the chromium(III) concentration range from  $2.9 \times 10^{-6}$  to  $10^{-2} \text{ mol l}^{-1}$ , and a slope of  $-18.7 \pm 0.5 \text{ mV dec}^{-1}$ , at pH working range of 2–8 and  $0.3 \text{ mol l}^{-1}$  oxalate concentration. Variation in the potential of about  $\pm 2 \text{ mV}$  was observed during a working day of 7–8 h. The response time was less than 5 s and the life time of this electrode was superior to 1 year (over 1500 determinations by each polymeric membrane), with a practical detection limit of  $2.1 \times 10^{-6} \text{ mol l}^{-1}$ . Application of this electrode for chromium(III) determination in some food materials and various types of plants is described.  
© 2003 Elsevier B.V. All rights reserved.

*Keywords:* Chromium(III) ion-selective electrode; Coated graphite-epoxy conductor electrode; Potentiometry; PVC

## Analytical Letters

### ABSTRACT

A coated graphite-epoxy iron(III) ion-selective electrode, based on the ion-pair between  $[\text{Fe}(\text{oxalate})_3]^{3-}$  anion and tricaprylmethylammonium cation (Aliquat 336) in a poly(vinylchloride) (PVC) matrix is constructed. A thin membrane film of this ion-pair, dibutylphthalate (DBPh) in PVC was deposited directly onto a Perspex<sup>R</sup> tube containing a graphite-epoxy conductor substrate attached to the end of a glass tube. The effect of membrane composition (ion pair, DBPh and PVC), oxalate concentration, pH and some cations and anions upon the electrode response is investigated. The electrode shows a linear anionic response to E vs.  $\log [\text{Fe}^{3+}]$  in

## Talanta

### 1. Introduction

Since the development by Ross [1] of the first liquid membrane electrode sensitive to the calcium cation, much progress has been made. Moody et al. [2,3] replaced the thick layer of liquid exchanger material supported by a dialysis membrane (cellulose acetate) by a thin polymeric film of poly(vinylchloride) (PVC), thus significantly decreasing the high resistance and relatively long response of that electrode. Several electrodes were constructed for various cations, anions and organic compounds.

## Analytical Letters

### INTRODUCTION

Since the development by Ross<sup>1</sup> of the first liquid membrane electrode sensitive to the calcium cation, much progress has been made. Moody and Thomas<sup>2,3</sup> replaced the thick layer of liquid exchanger material supported by a dialysis membrane (cellulose acetate) by a thin polymeric film of poly(vinylchloride) (PVC), thus significantly decreasing the high resistance and relatively long response of that electrode. Several electrodes were constructed for various cations, anions and organic compounds.

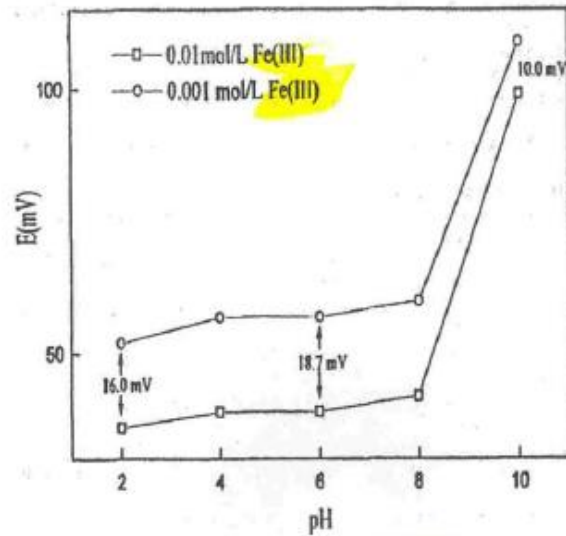


Fig. 1. Effect of pH on the response of the chromium(III) ion-selective electrode for chromium(III) concentration of: (○)  $1 \times 10^{-3}$  and (□)  $1 \times 10^{-2} \text{ mol l}^{-1}$  in  $0.3 \text{ mol l}^{-1}$  oxalate, at  $25.0^\circ\text{C}$ .

Analytical Letters

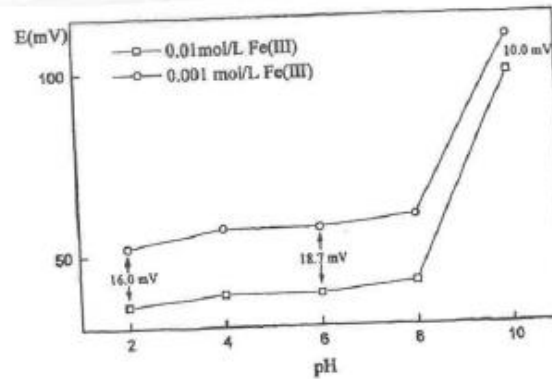



Figure 1: Effect of pH on the response of the iron (III) ion-selective electrode for iron (III) concentration of: ○○○ :  $1 \times 10^{-3}$  and □□□ :  $1 \times 10^{-2} \text{ mol/L}$  in  $0.3 \text{ mol/L}$  oxalate, at  $25.0^\circ\text{C}$ .

# Retraction

“ In science, a retraction of a published scientific article indicates that the original article should not have been published and that its data and conclusions should not be used as part of the foundation for future research. The most common reasons for the retraction of articles are scientific misconduct including plagiarism, serious errors, and duplicate/concurrent publishing (self-plagiarism). The retraction may be initiated by the editors of the journal, or by the author(s) of the papers (or their institution).”

<https://en.wikipedia.org/wiki/Retraction>

# The Bad published and perished!!!



the echoes issuing from the flaws to be detected. Therefore, it cannot be cancelled by classical time averaging or matched band-pass filtering techniques.

Many signal processing techniques have been utilized for signal-to-noise ratio (SNR) improvement in ultrasonic NDT of highly scattering materials. The most popular one is the split spectrum processing (SSP) [1–3], because it makes possible real-time ultrasonic test for industrial applications providing quite good results. Alternatively to SSP, wavelet transform (WT) based denoising/detection methods have been proposed during recent years [4–8], yielding usually to higher improvements of SNR at the expense of an increase in complexity. Adaptive time-frequency analysis by basis pursuit (BP) [9,10] is a recent technique for decomposing a signal into an optimal superposition of elements in an over-complete waveform dictionary. This technique and some other related techniques have been successfully applied to denoising ultrasonic signals contaminated with gain noise in highly scattering materials [11,12], as an alternative to the WT technique, the computational cost of the BP algorithm being the main drawback.

In this paper, we propose a novel matching pursuit-based signal processing method for improving SNR in ultrasonic NDT of highly scattering materials, matching pursuit and compressive sensing. Matching pursuit is used instead of BP to reduce the complexity. Despite its iterative nature, the method is fast enough to be real-time implemented. The performance of the proposed method has been evaluated with MATLAB computer simulation and experimental results, even when the input SNR (SNR<sub>in</sub>) is lower than 6dB (the level of echo to noise ratio) and the clutter is above the level of the echoes.

doi:10.1016/j.sigpro.2005.07.019 Cite or Link Using DOI  
Copyright © 2005 Elsevier B.V. All rights reserved.

**RETRACTED: Matching pursuit-based approach for**

Available online 24 August 2005.

This article has been retracted at the request of the Editor-in-Chief and Publisher. <http://www.elsevier.com/locate/withdrawalpolicy>.

Reason: This article is virtually identical to the previously published article: “A matching pursuit algorithm for SNR improvement in ultrasonic NDT”, *Independent Nondestructive Testing*, volume 38 (2005) 453–458, authored by N. ...

- Retracted articles are *not* removed from “the literature!”
  - They are replaced by a Retraction Note and a “Tombstone article”
  - The reason of retraction will always be visible

2. Matching pursuit

Matching pursuit was introduced by Mallat and Zhang [13]. Let us suppose an approximation of the ultrasonic backscattered signals  $s[n]$  as a linear expansion in terms of functions  $g_i[n]$  chosen from an over-complete dictionary. Let  $H$  be a Hilbert

space. We define the over-complete dictionary as a family  $D = \{g_i, i=0, 1, \dots, I\}$  of vectors in  $H$ , such as  $\|g_i\| = 1$ .

The problem of choosing functions  $g_i[n]$  that best approximate the analyzed signal  $s[n]$  is computationally very complex. Matching pursuit is an iterative algorithm that offers sub-optimal solutions for decomposing a signal in terms of expansion functions chosen from a dictionary, where  $l^1$  norm is used as the approximation metric because of its mathematical non-linearity. When a well-designed dictionary is used in the matching pursuit, the non-linear nature of the algorithm leads to compact and sparse solutions.

In each step of the iterative procedure, vector  $g_i[n]$  which gives the largest inner product with the analyzed signal is chosen. The contribution of this vector is then subtracted from the signal and the process is repeated on the residual. At the  $m$ th iteration the residue is:

$$r^m[n] = \begin{cases} s[n] & m=0, \\ s[n] - \sum_{i=0}^{m-1} a_{i,m} g_i[n] & m \neq 0, \end{cases} \quad (1)$$

where  $a_{i,m}$  is the weight associated to optimum atom  $g_i[n]$  at the  $m$ th iteration.

The weight  $a_{i,m}^*$  associated to each atom  $g_i[n] \in D$  at the  $m$ th iteration is introduced to compute all the inner products with the residual  $r^m[n]$ :

$$a_{i,m}^* = \frac{\langle r^m[n], g_i[n] \rangle}{\langle g_i[n], g_i[n] \rangle} = \frac{\langle r^m[n], g_i[n] \rangle}{\langle g_i[n], g_i[n] \rangle} = \langle r^m[n], g_i[n] \rangle \quad (2)$$

The optimum atom  $g_{i,m}[n]$  (and its weight  $a_{i,m}$ ) at the  $m$ th iteration are obtained as follows:

$$g_{i,m}[n] = \underset{g_i[n] \in D}{\operatorname{argmax}} |\langle r^m[n], g_i[n] \rangle|^2 = \underset{g_i[n] \in D}{\operatorname{argmax}} |\langle r^m[n], g_i[n] \rangle| \quad (3)$$

The computation of correlations  $\langle r^m[n], g_i[n] \rangle$  for all vectors  $g_i[n]$  at each iteration implies a high computational effort, which can be substantially reduced using an updating procedure derived from Eq. (1). The correlation updating procedure [13] is performed as follows:

$$\langle r^{m+1}[n], g_i[n] \rangle = \langle r^m[n], g_i[n] \rangle - a_{i,m} \langle g_i[n], g_i[n] \rangle \quad (4)$$

Signal Processing  
Volume 86, Issue 5, May 2006, Pages 962–970

Publishing Connect  
Partnering with the Research Community



## **RETRACTED:** Long-Term Quality of Life After Lung Resection

*Thoracic Surgery Clinics, .... 2008*


- This article has been **retracted** at the **request** of the **Editor-in-Chief**.

**Reason:** significant portions of this article (605 words, 7 paragraphs) were copied verbatim from an article published in *Chest* without attribution

# sciencedirect.com

- 670 articles found as: retracted at the request of the Editor (all journals)
- 13 articles found as: retracted at the request of the Editor (Talanta)

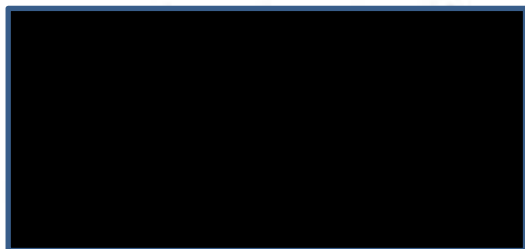
# Action against violation

Dear Dr. 

Very serious allegations of plagiarism have been made against you for publishing without reference, studies by Kaneko et al (see attached). These allegations have been made to the Editors of Analytical Chemistry, Analitica Chimica Acta, Talanta and Chemistry Letters.

Such allegations, if not answered satisfactorily, will result in you being blacklisted by most of the world's major Analytical journals. I believe an answer to these charges is essential.

Sincerely yours,



# Don't try to fool the editors

## Suggested Reviewers

1. Professor Munetaka Oyama,  
Division of Research Initiatives,  
Kyoto University, Japan.

E. Mail: [oyama@iic.kyoto-u.ac.jp](mailto:oyama@iic.kyoto-u.ac.jp)

Thank you very much for your reviewer invitation.  
After opening the contents, I have found that I am a  
co-author of this paper. So, I cannot referee the  
paper.

Sincerely yours,  
Munetaka Oyama

# Don't try to fool the editors

Some authors will submit a rejected paper some time later

Hope the editor doesn't notice and will have it reviewed again

Dear [REDACTED]

As I indicated in an earlier mail - I have seen this paper before. I therefore enclose my report (Analyst) together with the new one in an attachment to this mail.

Not so much has been changed in this paper. Maybe the language has improved a bit (revision probably still needed - English is not my mother tongue so I should be careful here). Still there is no explanation how the determinands migrate, what kind of charge they have, etc., why, why? It would be so simple to include. Did they not understand my previous report???

I cannot follow the logic behind this paper. The problem seems to be an artificial one - the real samples, on the other hand, offer a separation and quantification problem that would be possible to solve thereby making the paper more valuable.

Dear [REDACTED]

I received the attached review on manuscript PH901 for Anal Chim Acta. The reviewer comments about seeing something very similar for Talanta. Are you able to check into this to see if there is duplication of the Talanta manuscript?

Best regards,

[REDACTED]

Dear [REDACTED]

Yes, we have seen this paper, and rejected it, so the author is recycling it. Attached is the review we received.

Best regards,

[REDACTED]

## คำถามที่พบบ่อย

คำถาม 1: การทำสิ่งใดบ้างที่เข้าข่ายผิดจริยธรรมในการเผยแพร่ผลงานวิจัย?

คำถาม 2: บทความที่ลงเอกสารประชุมวิชาการ conference proceeding ไปแล้ว สามารถนำไปส่งวารสารได้อีกหรือไม่?

คำถาม 3: ประโยคที่ปรากฏในบทความเดิมแล้วนำมาใช้ในบทความใหม่ ถือเป็น การซ้ำซ้อนหรือไม่?

คำถาม 4: รูปภาพ หรือกราฟที่ปรากฏในบทความที่เผยแพร่ไปแล้ว สามารถนำมาใช้ในบทความใหม่ได้อีกหรือไม่?

คำถาม 5: งานวิจัยที่เคยเผยแพร่เป็นภาษาไทยแล้ว สามารถแปลเป็นภาษาอังกฤษแล้วเผยแพร่เป็นบทความใหม่ได้หรือไม่?

## คำถามที่พบบ่อย

คำถาม 6: การละเมิดสิทธิความเป็นผู้พิมพ์ (Authorship) คืออะไร?

คำถาม 7: วารสารที่ระบุว่า มี impact factor แสดงว่าอยู่ในฐานข้อมูล ISI ใช่หรือไม่?

ตอบ: การเช็ควารสารอยู่ใน ISI หรือไม่ทำได้ที่ <http://ip-science.thomsonreuters.com/cgi-bin/jrnlst/jloptions.cgi?PC=D> ส่วนการเช็ควารสารอยู่ใน Scopus หรือไม่ทำได้ที่ <http://www.scimagojr.com/journalsearch.php>

คำถาม 8: วารสารใน Beall's list คืออะไร? การส่งผลงานไปตีพิมพ์ในวารสารใน Beal's list จะส่งผลอย่างไร?

คำถาม 9: การนำงานวิจัยที่ทำไว้ขณะเรียนปริญญาโทและเอกหรือที่ทำงานเดิม มาทำต่อ และเขียนบทความเผยแพร่ สามารถทำได้หรือไม่?

คำถาม 10: กรณีใดที่ผลการวิจัยต้องได้รับการรับรองจริยธรรมการวิจัยในมนุษย์ จึงสามารถใช้เผยแพร่ในบทความได้?



# Q & A

