

# Literature - Integrity in Scientific Research 2015

## 0. Games

- (on an individual basis) Go to: Website 'The Lab' and Play the Game!, US Dept. Of Health, Office of Research Integrity, <http://ori.hhs.gov/thelab>

- (for groups) Dilemmaspel, Erasmus University, to be ordered through Joyce Beekman, Department of Research Policy, [J.beekman@erasmusmc.nl](mailto:J.beekman@erasmusmc.nl)

## 1. Codes of Conduct on the web (Dutch and English):

*Erasmus MC Home > Beleid > Wetenschappelijke integriteit > Erasmus MC Research Codes: Academic Integrity, Intellectual Property, Patient data and biomaterial (Website contains information on METC, authorships, complaint procedure, notification, confidant, sponsoring, department action plan 2013-2015 etc.) Erasmus University:* [www.eur.nl/integriteitscode](http://www.eur.nl/integriteitscode)

- *Verenigde Nederlandse Samenwerkende Universiteiten (VNSU):* [www.vsnu.nl](http://www.vsnu.nl) wetenschappelijke integriteit <http://www.vsnu.nl/overzicht-wetenschappelijke-integriteit.html>
- The European Code of Conduct for Research Integrity endorsed by *European Science Foundation:* [http://www.esf.org/fileadmin/Public\\_documents/Publications/Code\\_Conduct\\_ResearchIntegrity.pdf](http://www.esf.org/fileadmin/Public_documents/Publications/Code_Conduct_ResearchIntegrity.pdf)
- Publication guidelines <http://publicationethics.org/resources/guidelines>
- *COPE is a forum for editors and publishers of peer reviewed journals to discuss all aspects of publication ethics:* [http://publicationethics.org/files/2003pdf12\\_0.pdf](http://publicationethics.org/files/2003pdf12_0.pdf)

## 2. Dutch concerns (find your own cases)

- Psychologist professor Stapel
- Doctor Poldermans tragedy
  - Don Poldermans and the Dutch Research Scandal <http://www.forbes.com/sites#/sites/larryhusten/2012/10/15/don-poldermans-and-the-dutch-research-scandal/>
  - Wikipedia: [http://en.wikipedia.org/wiki/Don\\_Poldermans](http://en.wikipedia.org/wiki/Don_Poldermans)
- KNAW, boekje (in Dutch) Wetenschappelijk onderzoek: dilemma's en verleidingen (2005)), als Pdf te downloaden, <https://www.knaw.nl/nl/actueel/publicaties/wetenschappelijk-onderzoek-dilemmas-en-verleidingen>

## 3. Philosophical and ethical perspectives

Stanford Encyclopedia of Philosophy: <http://plato.stanford.edu/entries/integrity/>

Ann Tenbrunsel, *Blind Spots: Why we fail to do what's right and what to do about it* (Princeton Univ Press, 2011)

Lynn Stout, *Cultivating Conscience: How good laws make good people* (Princeton Univ Press, 2011)

## 4. Bestsellers (books; also recordings on the web)

**Psychological perspective:**

Dan Ariely, *The (honest) truth about dishonesty; How we lie to everyone – especially to ourselves* (2013),

Dan Ariely, *Predictably irrational; The hidden forces that shape our decisions* (2010) - Critical voices from inside:

### **Medical perspective:**

Ben Goldacre, *Bad Science* (2009) and *Bad Pharma; How medicine is broken and how we can fix it* (2013)

### 5. A remarkable lecture:

William Deresiewicz, *Solitude and leadership: If you want others to follow, learn to be alone with your thoughts* (2009): <http://theamericanscholar.org/solitude-and-leadership/>

### 6. Some literatuur via PubMed

- D Fanelli, How many scientists fabricate and falsify research (PLOS 2009)
- Franklin G Miller et al., Professional integrity in clinical research (JAMA, 1998).  
*Deals with the investigator as clinician and as scientist, conflicting interests in the patient-physician relationship?*
- Raymond de Vries et al., Normal Misbehaviour: Scientists talk about the ethics of research (J Emp Res Hum Research Ethics, 2006)  
*Deals with everyday conduct, 'normal misbehaviours', much more common than the (relatively) rare cases of fraud, falsification, fabrication, and plagiarism*
- David B. Resnik et al., Misconduct versus human error and scientific disagreement (Accountability in Research, 2012)

*Deals with settling dispute through collegial discussion and dialogue.*

- Sergio Sismondo and Mathieu Doucet, Publication ethics and the ghost management of medical publication (Bioethics, 2010)  
*Deals with authorships, undertaken in the interests of marketing, showing significant pro-sponsor bias*
- Karen A Robinson et al., A systematic, examination of the citation of prior research in reports of RCTs (Annals of internal medicine, 2011).  
*Deals with unjustifiable trials, unnecessary risks for research subjects and wasted resources*
- Joel Lexchin, Those who have the gold make the evidence (Sci Eng Ethics, 2011) *Deals with biased outcomes in studies paid by the pharmaceutical industry*
- Michelle Roseman et al., Reporting of conflict of interests in meta-analysis of trials of pharmacological treatments (AMA, 2011)  
*Conclusion: high-impact biomedical journals, rarely reported conflicting interests*
- Margareth A Somerville, A postmodern moral tale: the ethics of research relationship (Nature, 2002)  
*Deals with the story of a whistleblower, doctor and investigator dr Nancy Olivieri (Toronto), who was insufficiently protected*

### 7. Experiences and opinions of doctoral students

- Nilstun T et al., Scientific dishonesty – questionnaire Sweden (JME, 2010)
- Hofmann B et al., Scientific dishonesty – a nationwide survey Norway (BMC Medical Ethics, 2013)

### 8. Websites

- Science in Transition
- Office of Research Integrity (ORI)

- Retraction Watch
- Nuffield Council of Bioethics (report: Research Culture)

9. (Recent) Concerns:

- John PA Ioannidis, Why most published research findings are false (2005)
- Bruce Alberts et al, Rescuing US biomedical research from its systemic flaws (2014)
- Tracy Vence, Current research system unsustainable (2014)
- Ian Chalmers et al, on Research waste (Series articles Lancet, 2014)
- FS Collins and LA Tabak, NIH plans to enhance reproducibility (Nature 2014)