PhD Thesis projects - Collaboration, publishing, ethical issues

Mikko Hupa
Åbo Akademi
Åbo Akademi Publications 2014-2016

<table>
<thead>
<tr>
<th></th>
<th>2016 *</th>
<th>2015</th>
<th>2014</th>
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<tr>
<td>All publications</td>
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<td>Jufo 1-3 publications</td>
<td>864</td>
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* Preliminary information
### JUFO Publications 2016

#### Numbers

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Universitetens finansieringsmodell 2017-

**Utbildning 39%**
- Genomslagskraft
  - andelen högre högskoleexamina 13%
  - andelen lägre högskoleexamina 6%
  - studiepoäng i öppen universitetsundervisning, fristående studier, specialiseringsutbildning 2%
- sysselsatta personer 2%

**Forskning 33%**
- Genomslagskraft
  - publikationer 13%
    - referee-publikationer: publikationsforum nivå 3 (koefficienten 4), nivå 2 (3), nivå 1 (1) ja nivå 0 (0,1)
    - andra publikationer (koefficienten 0,1)
  - konkurrensutsätt forskningsfinansiering 9%
    - varav internationell forskningsfinansiering 3%
    - varav övrig forskningsfinansiering 6%

**De övriga målen för utbildnings- och vetenskapspolitiken 28%**
- Genomslagskraft
  - strategibaserad finansiering 12%
- specifik bransch 9%
  - konstområden, teknik, naturvetenskaper, medicin
- landsomfattande uppgifter 7%
  - (landsomfattande uppgifter, övningskolor, nationalbiblioteket)

**Internationalisering**
- högskolaexamina som avlågts av utlänningar 1%
- internationellt studentutbyte 2%
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\[
4000 \text{ Eu} \times 1622 = 6,4 \text{ M Eu}
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Questions about Publishing

- Why to write publications - To be or not to be?
- Where to publish - Types of publications
- What to include - “Publishable unit, PU”
- With whom - Team work & joint authorship
Why to write publications?

- Only by international publications you become part of the development of scientific knowledge
Why to write publications?

- Only by international publications you become part of the development of scientific knowledge

- Any finding not published internationally will be made again - until they are finally published by someone
Questions about Publishing

- Why to write publications - To be or not to be?
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Where to publish?

- Theses - Monographies*
- Project reports
- Conference papers, proceedings books
- Non-refereed journals
- Journals with referee system
Journals with referee system

- papers reviewed by unidentified colleagues
- quality approved by scientific community
- archived and easily accessible

- reviewer comments very useful (don’t give up after first rejection!)
- the only right place for new results
- JUFO!
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Publishable Unit

- Research projects often bring plenty of results.
- Journals prefer short, focused papers
- Project reports seldom suitable
- Learn to think in terms of “Publishable Units”
- Plan PU’s already in your project plan
- Be flexible to new ideas of PU’s
Novel measuring systems may be good PU’s

One good measurement campaign gives material for several PU’s (Part 1, 2 etc.)

Combining new results with previous may make a nice new PU
Questions about Publishing

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Team work: Diversity makes the difference

How does this population of beetles work?

http://undsci.berkeley.edu/article/socialsideofscience_02
Team work: Diversity makes the difference

So what do you think?

Well, how about if we tried...

Another way to look at it is...
Team work: Diversity makes the difference

So what do you think?

Well, how about if we tried...

Another way to look at it is...

...which is all because of their idiotic policies on –

Wait a minute. Cool down. Let's just stick to what the data tell us.
Authorship Question

Important issue, may easily cause confusion/problems.

Should you include anyone who:

- writes or revises parts of the paper?
- contributes substantially to the work?
- can take responsibility for a part of the paper?
- can defend the entire paper?
- is a good friend?
ÅA - Authorship Agreement

- Conception
- Design
- Acquisition of material
- Analysis of material
- Interpretation of material

- Drafting of the article
- Revising the article
- Final approval (all)
- Other (specification below)
Order of Authors – Practices Differ

Recommendation for PhD’s:

Main author, others, most responsible author

= PhD Student, MSc Student, Coach, Supervisor(s)

Main author writes first draft!
Authorship Question

- Agree at an early stage - do not be shy (and stick to the agreement!)
- Be active, initiate collaborative papers. Fun!
RESEARCH MISCONDUCT

• Fabrication
• Falsification (misrepresentation)
• Plagiarism
• Misappropriation

DISREGARD FOR THE RESPONSIBLE CONDUCT OF RESEARCH

• denigrating the role of other researchers in publications, such as neglecting to mention them
• reporting research results and methods in a careless manner
• inadequate record-keeping and storage of results and research data
• Self-plagiarism (publishing the same research results multiple times ostensibly as new and novel results)
• misleading the research community in other ways
Coming together is a beginning; keeping together is progress; working together is success.

Henry Ford
Innovator and Founder of Ford Motor Co.