



Anna Berhidi

aberhidi@lib.sote.hu

Central Library of Semmelweis University, Budapest, Hungary

SHOULD ERA OF THE IMPACT FACTOR END IN HUNGARY?

AIMS

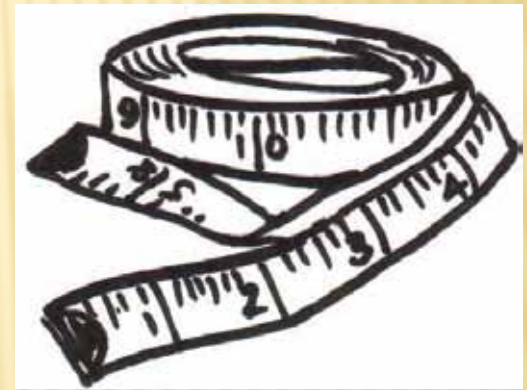
- ✘ To introduce briefly the situation of the Hungarian biomedical journals
 - + focusing on the scientometric novelties for example the expanse of Journal Citation Reports Web, Hirsch-index, Eigenfactor and SCImago Journal algorithms
- ✘ To express the differences and similarities between Impact Factor and other scientometric indicators

MATERIALS AND METHODS

- ✘ Behind the scientometric indicators
 - + well-designed, well-edited websites
 - + well-known databases (Web of Science, Journal Citation Reports; Scopus).
- ✘ Compare the biomedical journals by their performance based on the data from the aboved mention databases.

JOURNAL CITATION REPORTS WEB

- ✘ Main content:
 - + Impact Factor
- ✘ Enhanced content (e.g.):
 - + 5-year IF
 - + Eigenfactor
 - + Article Influence Score



Source: Design & Technology Clip Art 3.
[Internet]. Available from:
http://ngfl.northumberland.gov.uk/dtclip/textiles_alb/pages/tape%20measure.JPG.htm

H-INDEX OF JOURNALS

✘ H-index:

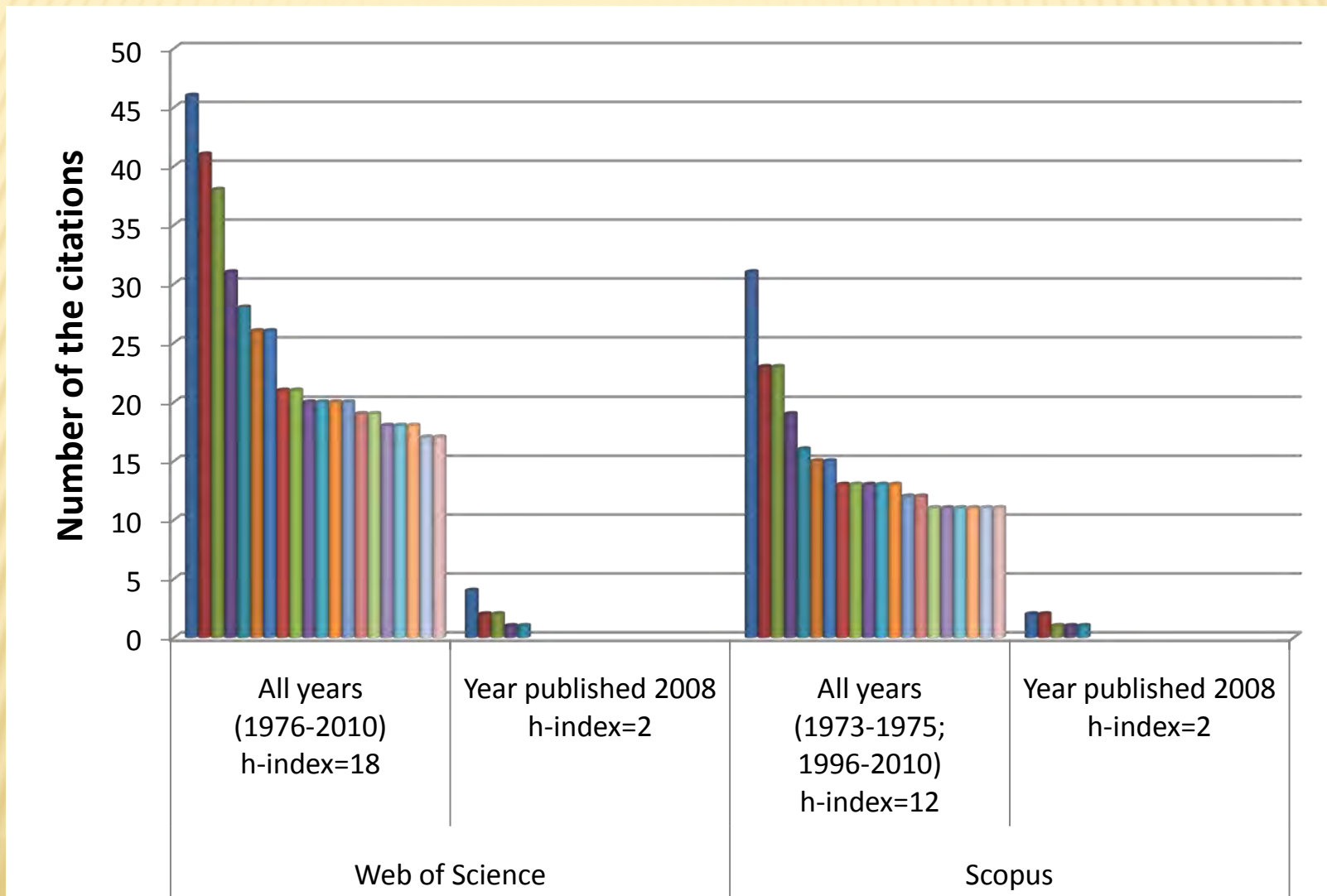
It was invented by Jorge Hirsch, an American physicist in 2005. The index of a researcher is H , if H number of his/her articles has been cited at least H times.

✘ H-index of journals:

The index of a journal is H , if H number of its articles has been cited at least H times.

H-INDEX OF ACTA ALIMENTARIA

THE ENGLISH-LANGUAGE HUNGARIAN JOURNAL IN WEB OF SCIENCE AND SCOPUS DATABASE



Publications in a descending order by their citations

APPEARANCE OF PAGE RANK AMONG THE OTHER INDICATORS

- ✘ Some new algorithms analyze the citation links between journals in iterative cycles in the same way as the Google PageRank algorithm:
 - + Eigenfactor
 - + SCImago



Source: Hariharan Y. How To Stop Your Blog From PageRank Dilution [Internet]. Available from: <http://www.techspikes.com/wp-content/uploads/2008/08/pagerank-algorithm.jpg>

EIGENFACTOR AND ARTICLE INFLUENCE SCORE

- ✘ The Eigenfactor algorithm was developed by Carl T. Bergstrom and his team at the biology department of Washington university. A website in connection with it was launched in 2007:
<http://www.eigenfactor.org/>
- ✘ Its source is Journal Citation Reports Web.
- ✘ Eigenfactor measures the prestige of journals and it examines the given journal's citation in the previous five years.
- ✘ Article Influence measures the influence of the articles.

SCIMAGO JOURNAL RANK AND SNIP

- ✘ The SCImago team consists of researchers from Spanish universities. The SCImago website was launched in December, 2007:
<http://www.scimagojr.com>
- ✘ Its source is Scopus database.
- ✘ SJR expresses the average number of weighted citations received in the given year by publications published in the journal in the three previous years.
- ✘ SNIP (Source Normalized Impact per Paper) corrects for differences in the frequency of citation across research fields. It developed by Henk Moed at University of Leiden.

RESULTS - DATA FROM DATABASES 1.

✘ Journal Citation Reports Web – 2008 Table I-III.

- + Impact Factor
- + Article Influence Score
- + 5-year IF
- + Eigenfactor Score



Source: Design & Technology Clip Art 3.
[Internet]. Available from:

http://ngfl.northumberland.gov.uk/dt/dtclip/textiles_alb/pages/tape%20measure.JPG.htm

TABLE I.

Hungarian biomedical journals in JCR Web 2008 - I.

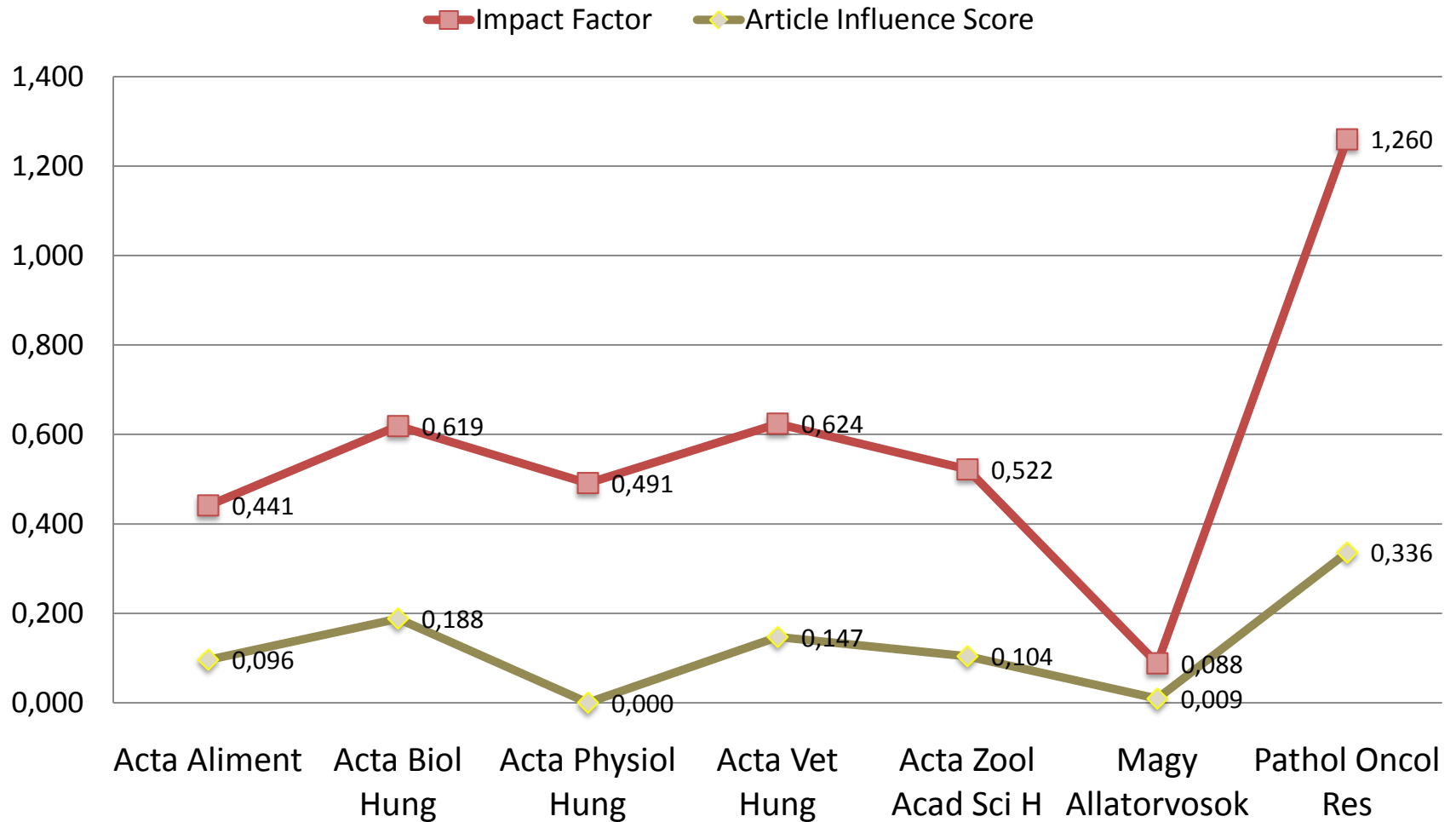


TABLE II.

Hungarian biomedical journals in JCR Web 2008 - II.

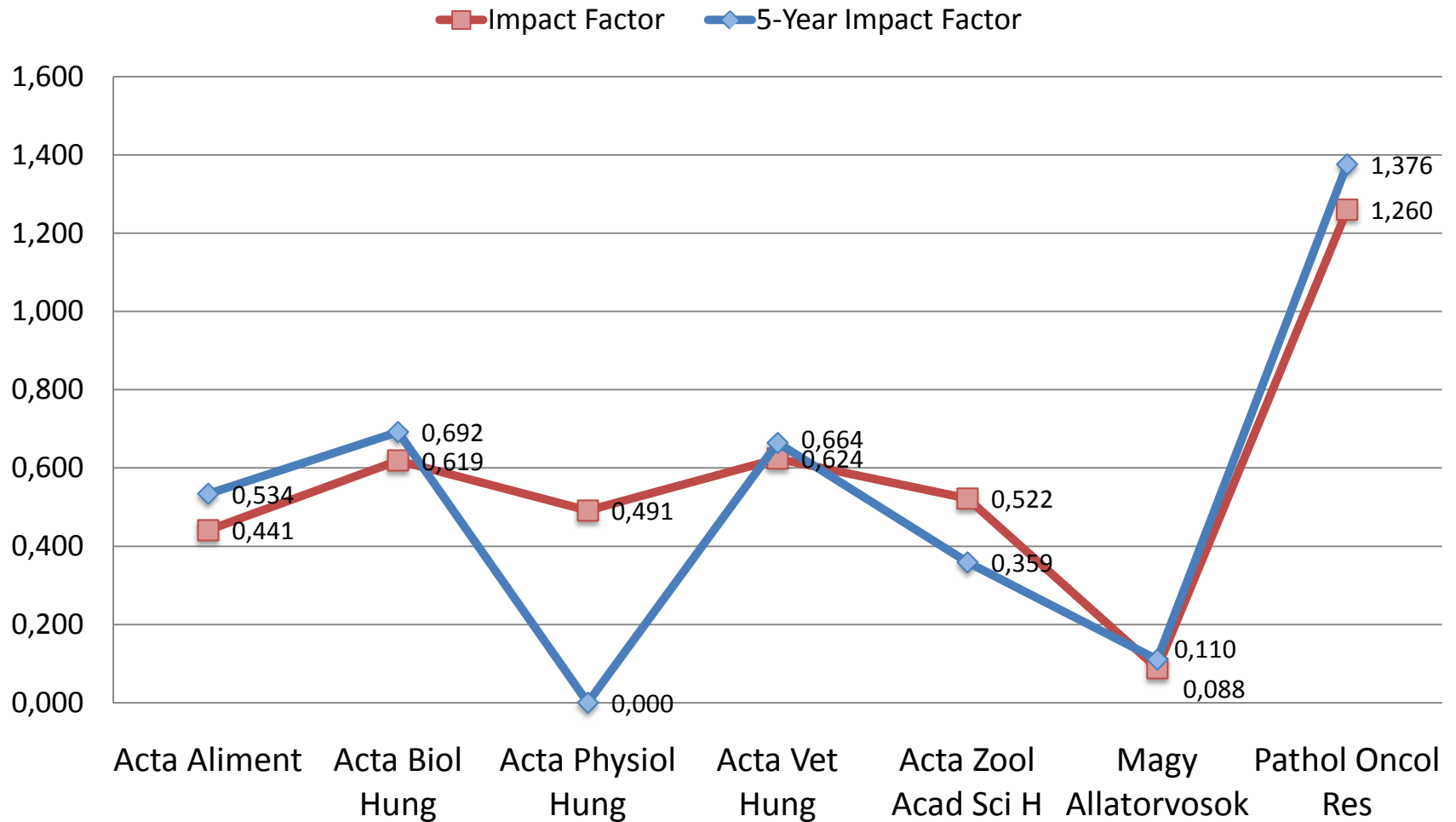
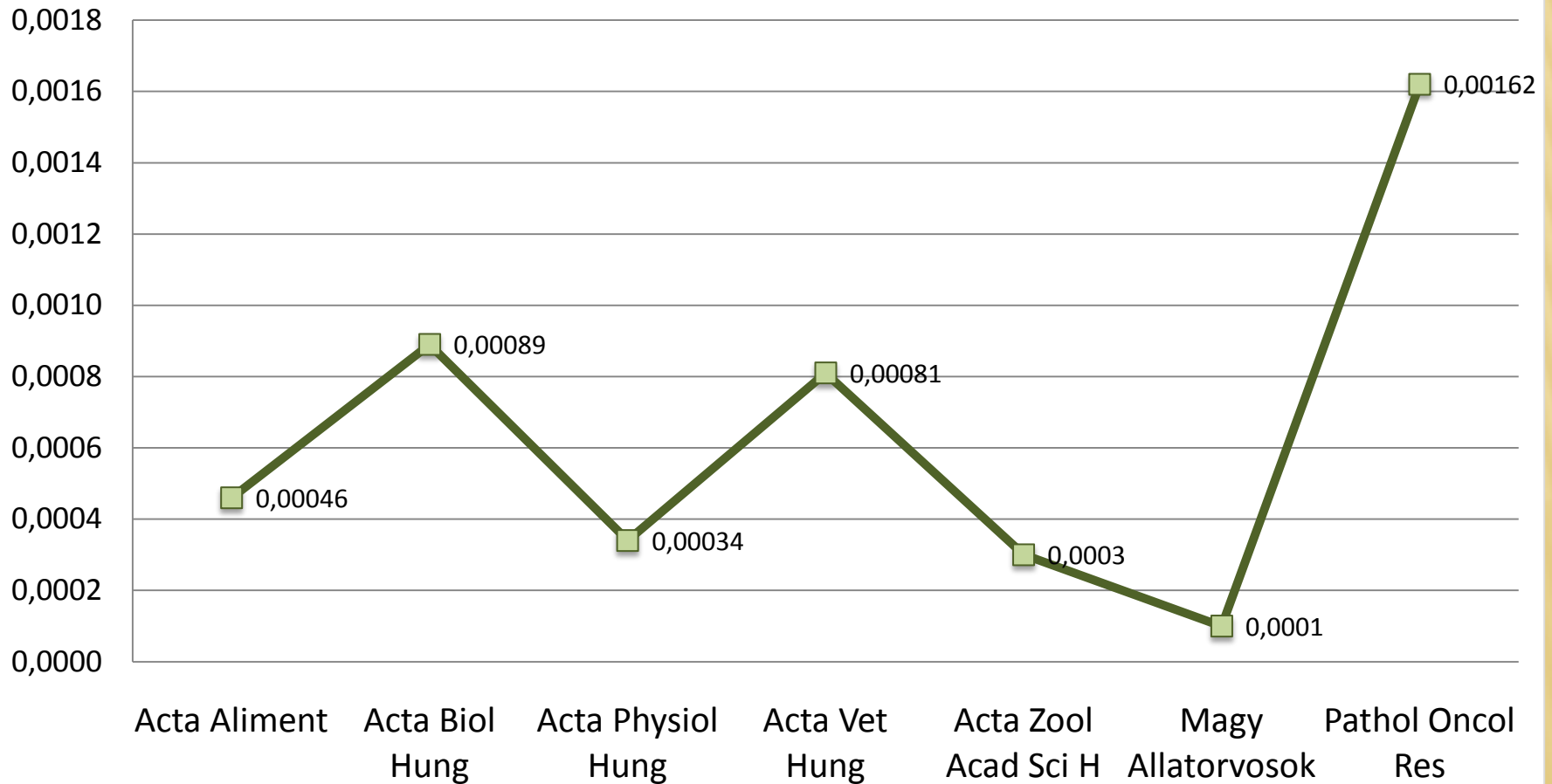


TABLE III.

Hungarian biomedical journals in JCR Web 2008 - III.

■ Eigenfactor Score



RESULTS - DATA FROM DATABASES 2.

✘ Scopus & SJR – 2008 Table IV-V.

- + SJR
- + SNIP
- + H-index



Source: Design & Technology Clip Art 3.
[Internet]. Available from:

http://ngfl.northumberland.gov.uk/dt/dtclip/textiles_alb/pages/tape%20measure.JPG.htm

TABLE IV.

Hungarian biomedical journals in Scopus - I.

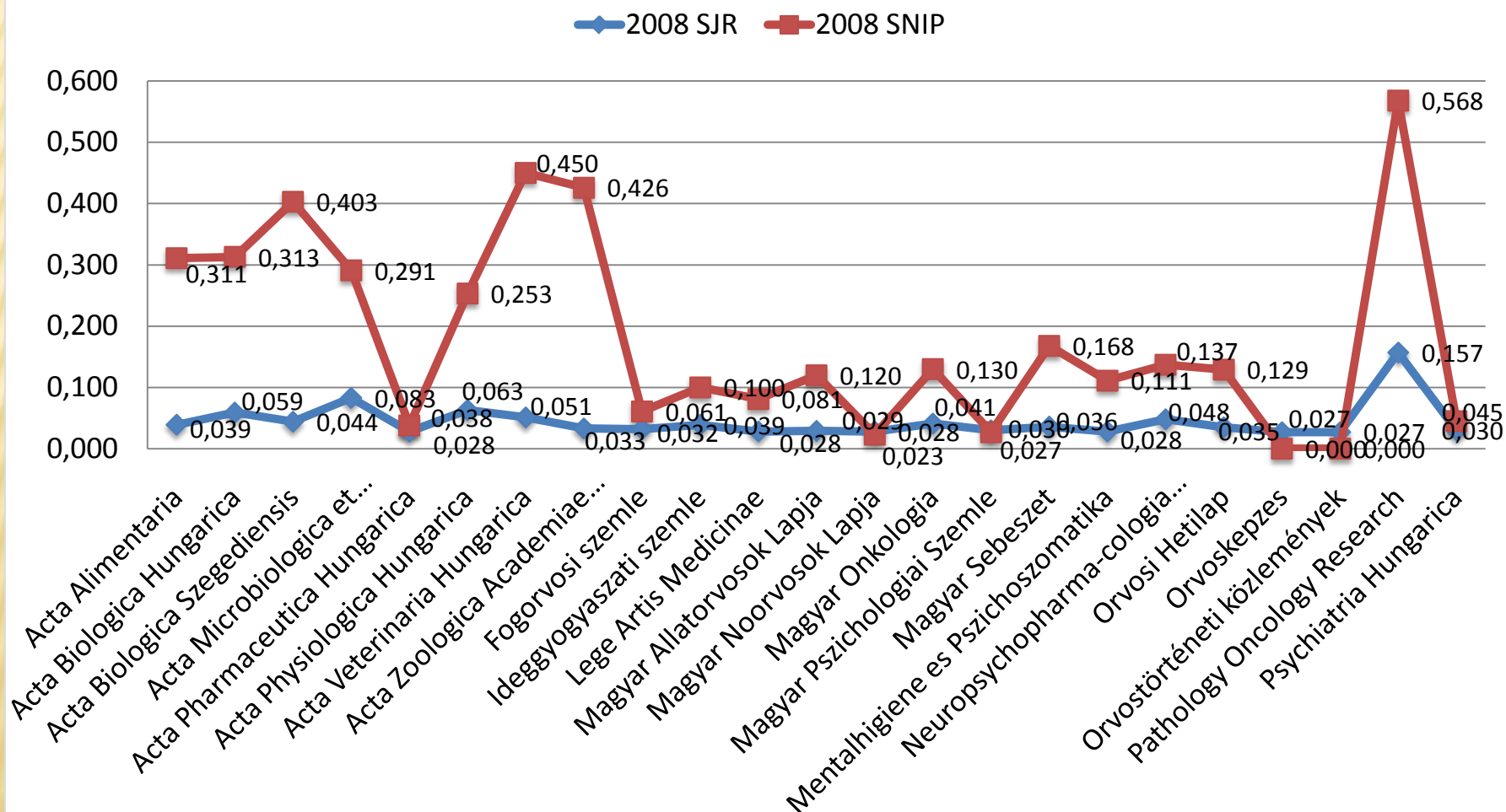
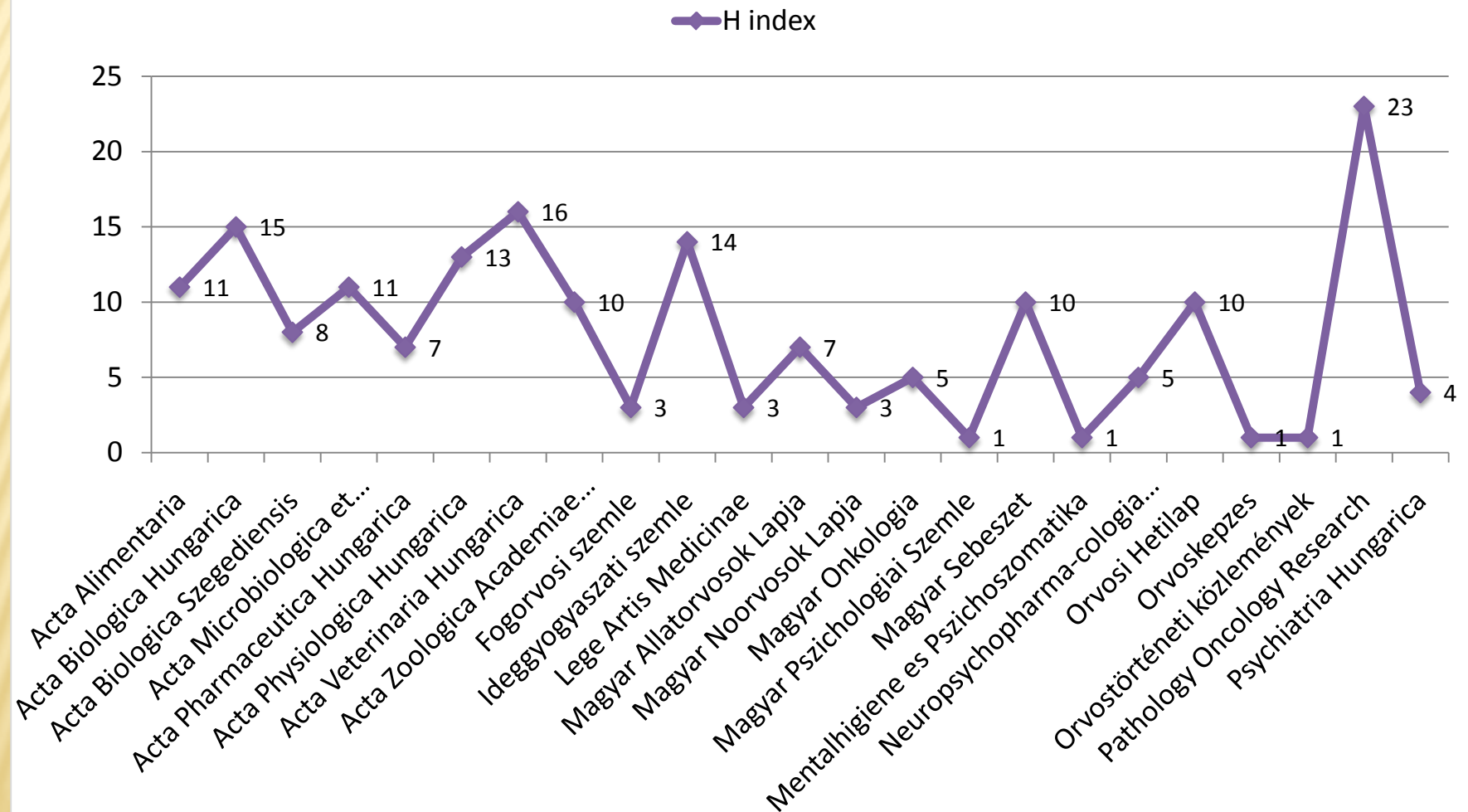


TABLE V.

Hungarian biomedical journals in Scopus - II.



DISCUSSION

Hungarian journals need...

- ✘ To strengthen their qualities (e.g.):
 - + abstracts in English
 - + peer-reviewed articles
 - + regular appearance
- ✘ To be indexed in more international bibliographic databases
- ✘ To be published on-line and in bilingual (Hungarian and English)
- ✘ To use Hungarian „indicators”, e.g. *Publication Points* in the Doctor Schools of some Hungarian universities

CONCLUSIONS

- ✘ In Hungary the dominance of Impact Factor can be linked to two points of view:
 - + Performance of journals
 - + Performance of individuals (doctors, researchers, etc.)
- ✘ That is the main problem. The other scientometrics indicators can become its alternatives. Or the only possibility?

THANK YOU FOR YOUR ATTENTION!

- ✘ IF or not IF? That was the question.
- ✘ Any other questions?

Anna Berhidi
aberhidi@lib.sote.hu



Source: Academic Peer Advising [Internet].
http://www.williams.edu/dean/AcademicPeerAdvisingSite/APA_Site_Profiles.htm