

Mikulášský seminář CMG a MM skupiny IHOK

Úvod - prof. MUDr. Roman Hájek, CSc.
předseda

26. 11. 2010
Hotel Santon, Brno

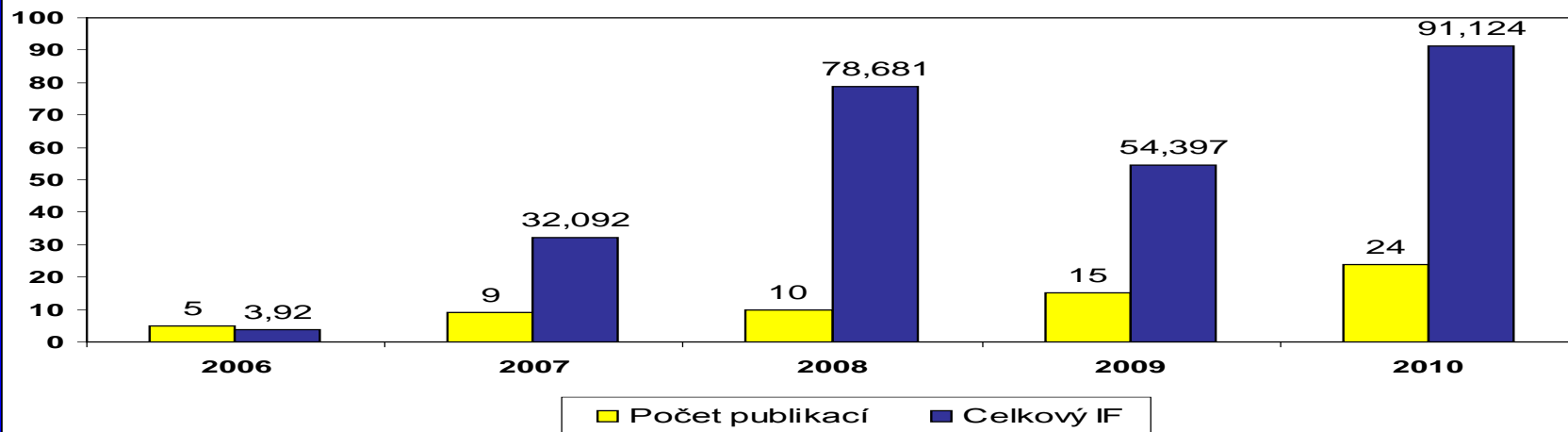
Publikace o MM v časopisech s IF - 2010

Periodikum	IF
J Clin Oncol (2x)	17,157
Leukemia	8,634
Haematologica	5,978
Brit J Haematol (2x)	4,478
Biol Blood Marrow Transplant	3,375
Clin Nucl Med	3,181
Ann Hematom (2x)	2,454
Leuk Res (2x)	2,39
Eur J Haematol	2,237
Leuk Lymphoma (2x)	1,939
Mol Biotechnol	1,669
Int J Hematol.	1,283
Neoplasma (6x)	1,179
Wien Klin Wochenschr	0,857
Celkový IF 2010 u 24 publikací	91,124

Publikace o MM v časopisech s IF – srovnání 2006 - 2010

	2006	2007	2008	2009	2010
Počet publikací	5	9	10	15	24
Celkový IF	3,92	32,092	78,681	54,397	91,124

Publikační činnost CMG v letech 2006-2010
MM v časopisech s IF



Jak jsme na tom ve srovnání se světem?

Mapping multiple myeloma research using author order and co-occurrence

Jens Peter Andersen^{1,2}, Conni Skrubbeltrang¹, Hans E. Johnsen³
¹ Medical Library, AHISIC, Aalborg Hospital, Aarhus University Hospital, 9000 Aalborg, Denmark
² Institute West, Royal School of Library and Information Science, 5220 Aalborg E, Denmark
³ Department of Hematology, Aalborg Hospital, Aarhus University Hospital, 9000 Aalborg, Denmark

Introduction

Bibliometric maps of co-author and co-citation networks are commonly employed for several investigative purposes, e.g. the mapping of research fronts or groups in a specific topic [1;2]. This study investigates if the addition of author orders provides additional information on research networks. This is carried out for multiple myeloma research, a growing research area with recently established formal networks.

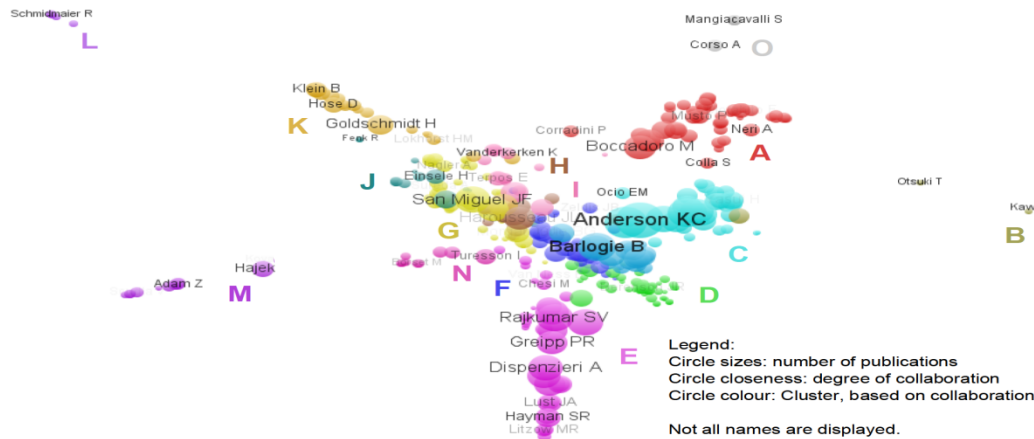
Multiple myeloma is a hematological malignancy of the plasma cells. Research in multiple myeloma has increased steadily over the past sixty years (based on PubMed), currently producing more than 1,000 research papers annually.

Methods & Materials

PubMed MEDLINE was used to retrieve metadata for 6,137 publications, all indexed with the MeSH term "Multiple Myeloma" and published during 2004-2009 inclusive. 19,387 author names were extracted from the records. Frequencies of publications, first-authorship and last-authorship were recorded for each author. In the health sciences, it is common to order the authors according to their contribution (descending order), however, the last author often plays a supervisory or senior role [3]. If this assumption is true, it should be possible to identify key researchers in the multiple myeloma research field based on publications and author orders.

Results

A bibliometric map was created using VosViewer [4]. Author-frequencies were used as an indication of size and co-occurrences were used for similarity. Only authors of 10+ papers were included. The map displays clusters of authors, based on degree of collaboration. Another map (not shown here) illustrated author order by colouring authors according to authorship order ratio (primary/last/other authors). Based on these maps, it is possible to identify research groups, key researchers, topics (using MeSH metadata) and publishing customs (e.g. differences between cluster C (strongly centered) and cluster K (broad collaboration)).



Cluster E - 427 papers
Leading researchers: Shover AJ, Barlogie B, Richardson PG, Hultcrantz M, Munshi NC, Ghahramani C, Pender K, Raju N
Research topics: Brain-derived neurotrophic factor; gene deletion; arsenicals

Cluster F - 368 papers
Leading researchers: Stewart AK, Gertz MA, Kumar S, Papanicolaou DA, Kyle RA, Greipp PR, Lacy MJ
Research topics: Tumor, osteoclast, neoplasia, genetic translocation, disease progression

Cluster G - 328 papers
Leading researchers: Lonial S, Tassan-Nappari A, Lonial S, Jagannath S, Hecolovici R, Orlowski HZ, Ghossein S, Singhal S, Stadtmaier EA
Research topics: Recurrence; drug resistance; neoplasms; survival analysis; disease-free survival

Cluster H - 320 papers
Leading researchers: San Miguel JF, Morgan GJ, Davies E, Kropf H, Rowan L, Garcia-Sanz R, Nattansila A
Research topics: Oral vs non-oral disease; residual neoplasms; immunophenotypes

Cluster I - 179 papers
Leading researchers: Hansson A, Facon T, Avez-Luesma H, Moreau P, Bataille H, Attal M, Lhote J, Attal M
Research topics: Antigen; CD40; proto-oncogene proteins; chromosome; chromosome deletion

Cluster J - 118 papers
Leading researchers: Gionti D, Einsele H, Engelhardt M, Bargou RC, Haderl J, Lentzsch S, Lentzsch U, Jallat C
Research topics: Osteoclasts; signal transduction; osteolysis

Cluster K - 180 papers
Leading researchers: Gosticinski H, Bonaventura P, Klein B, Lockwood HM, Hone D, Ho AD, Ferreri T, Haddad M
Research topics: HLA-A2 antigen; oligonucleotide array sequence analysis; gene expression profiling; venous thrombosis

Cluster L - 22 papers
Leading researchers: Schramm R, Emmersch B, Baumann P, Straka C
Research topics: Drug synergism; apoptosis

Cluster M - 76 papers
Leading researchers: Haak H, Skutella V, Adam Z, Poup L, Vrbeska J, Baczovsky J, Kropf M, Budzar T
Research topics: Paraproteinemia; neoplasms staging; flow cytometry; disease progression

Cluster N - 99 papers
Leading researchers: Durand M, Waage A, Gahrn J, Johnsen HE, Sundan A, Turetskii I, Bannarsreeni T, Knudsen LM
Research topics: Hepatocyte growth factor; cell movement; in situ hybridization

Cluster O - 27 papers
Leading researchers: Conzi A, Mangiagavalli S
Research topics: NA

Cluster A - 326 papers
Leading researchers: Boccadoro M, Paganini A, Danmacco A, Cava M, Neri A, Raza V, Gaurani N, Yalcin A
Research topics: Endothelial cells; osteoclasts; immunoglobulin isotypes; salvage therapy

Cluster B - 176 papers
Leading researchers: Inada Y, Murakami H, Aiba M, Kawano MM, Shimazaki C, Matsumoto T, Kizaki M, Tanizaki M
Research topics: Phosphorylation; osteoclasts; kappa B proteins; cell division

Cluster C - 319 papers
Leading researchers: Anderson KC, Richardson PG, Hultcrantz M, Munshi NC, Ghahramani C, Pender K, Raju N
Research topics: Insulin like growth factor I; stromal cells; proteasome endopeptidase complex; protease inhibitors

Cluster D - 288 papers
Leading researchers: Barlogie B, Shaughnessy JD Jr, Triel G, Crowley J, Anasetti E, Zangari M, Durie BG, Yancov S
Research topics: Gene expression profiling; stauronolone; oligonucleotide array sequence analysis; osteoclasts



References:
 [1] Tijssen KJW. A scientometric cognitive study of neural network research: Expert mental maps versus bibliometric maps. *Scientometrics* 1993;28(1):111-36
 [2] Calero C, Buter R, Valdés CC, Noyons E. How to identify research groups using publication analysis: an example in the field of nanotechnology. *Scientometrics* 2006;66(2):365-76
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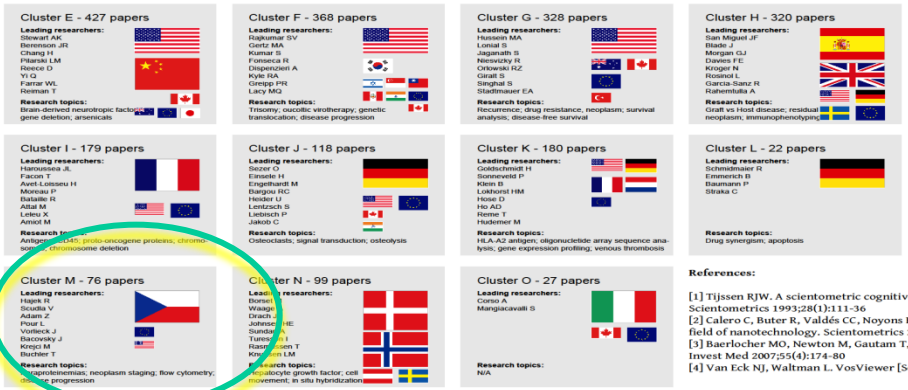
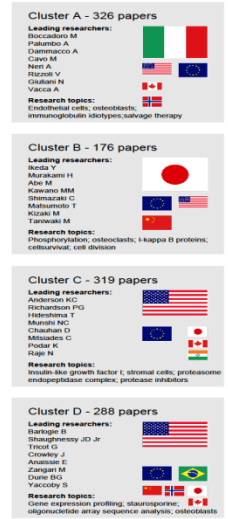
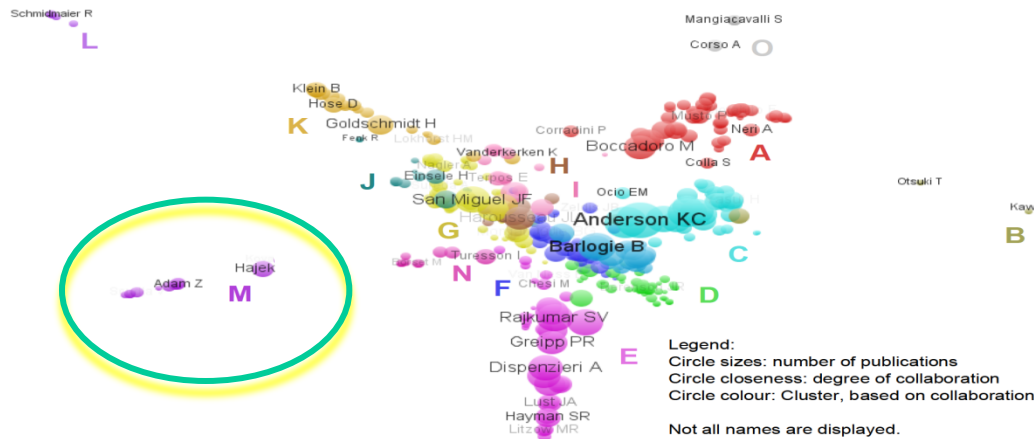
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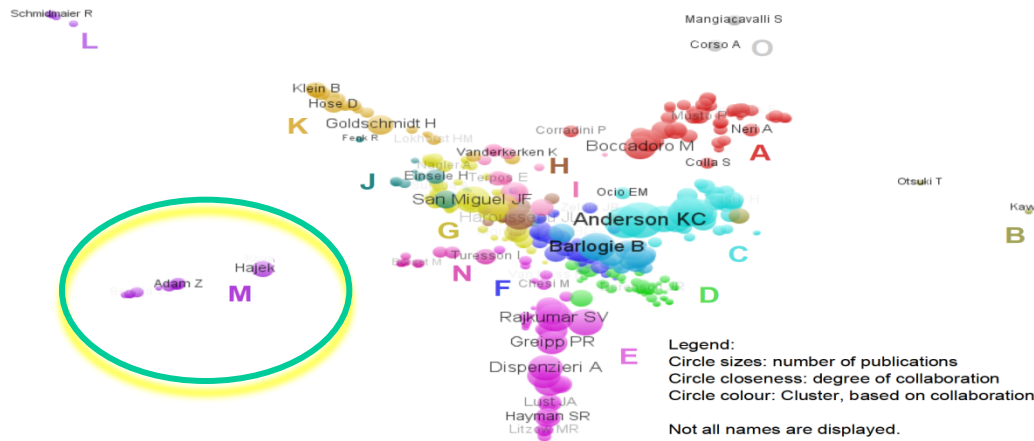
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Cluster A - 326 papers
 Leading researchers: Boccadoro M, Danmacco A, Cava M, Neri A, Ricca V, Gaurani N, Yalcin A
 Research topics: Endothelial cells, osteoblasts, immunoglobulin isotypes, salvage therapy

Cluster B - 176 papers
 Leading researchers: Iida Y, Murakami H, Aiba M, Kawano MM, Shimazaki C, Matsumoto T, Kizaki M, Taniguchi M
 Research topics: Phosphorylation, osteoblasts, I-kappa B proteins, cell division

Cluster C - 319 papers
 Leading researchers: Anderson KC, Richardson PG, Hultcrantz M, Munshi NC, Chhabra D, Mikhaies C, Pudar K, Raju N
 Research topics: Insulin like growth factor I, stromal cells, proteasome, endopeptidase complex, protease inhibitors

Cluster D - 288 papers
 Leading researchers: Barlogie B, Shaughnessy JD Jr, Tricot G, Crowley J, Anasetti E, Zangari M, Durie BG, Yancov S
 Research topics: Gene expression profiling, stauronolone, oligonucleotide array sequence analysis, osteoblasts

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 Research topics: Tumor, osteoclast, neoplasm, genetic translocation, disease progression

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 Research topics: Polycytle growth factor, cell movement, in situ hybridization

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 Leading researchers: Corio A, Mangiavacchi S
 Research topics: NA



References:
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 [4] Van Eck NJ, Waltman L. VosViewer [Software] 2010. <http://www.vosviewer.com/>

13. z 15
ve světě

7. z 9
v EU

Děkuji za pozornost



Dovolujeme si Vás pozvat na

IX. národní workshop Mnohočetný myelom a roční setkání České myelomové skupiny

15.–16. dubna 2011
Hotel Galant, Mikulov

Informace budou průběžně
zveřejňovány na
www.nucleus.cz/mm