



Traduction et
Interprétation
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*Conference Using Corpora in Contrastive and Translation Studies
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Cross-Linguistic Register Analysis in Specialised Discourse. A corpus-based investigation of denominal adjectives in LSP: the examples of medicine and earth sciences

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Introduction

*Conference Using **Corpora** in **Contrastive** and Translation Studies*

EN & FR

Language
use

Cross-Linguistic Register Analysis in Specialised Discourse. A **corpus-based investigation** of denominational adjectives in LSP: the examples of **medicine and earth sciences**

Noun phrase
modification

2 LSPs

An exploratory analysis



Outline

1. State of the art

- Registers, specialised discourse and context
- Noun phrase modification in EN & FR

→ *Question: Does noun phrase modification characterise specialised discourse?*

2. Methodology

- 8 subcorpora
- Methodological steps

3. Results

4. Conclusive remarks

1. State of the Art & Questions

- Register, specialised discourse and context
- Noun phrase modification in EN & FR

From a translational point of view...

Regulation **of cells**

Cell regulation

Cellular regulation



Noun phrase modification

- régulation **cellulaire**
- régulation **des cellules**

?

Chuquet & Paillard 1987

[complex noun phrases in translation → Kübler et al. 2018]

An example

Depending on the context:

Cancer mammaire

EXPERTS

><

Cancer du sein

NON-EXPERTS

Maniez 2009

An example

Depending on the context:

Cancer mammaire

EXPERTS

><

Cancer du sein

NON-EXPERTS

In EN?

In other specialised
domains?

In other registers?

Maniez 2009

Questions

Are specialised discourses characterised by a specific type of noun phrase modification sequences:

- In specialised EN as well?
- In other contexts / registers (EN-FR)?
- In other specialised domains (EN-FR)?

based on Maniez 2009

Register, degrees of specialisation and context

The context and the message receivers



LSP (Language for Specific Purposes)

Bowker & Pearson 2002

< “contextual-functional varieties of the ordinary language”

Garzone 2006 in Pignataro 2006

Register, degrees of specialisation and context

Degrees of specialisation:

- LSP is influenced by the context of communication
- Within each LSP : “a wide scope for variation in terms of degree of specialization”

Garzone 2006 in Pignataro 2012

Register, degrees of specialisation and context

“Popularizations target (...) a **wide reading public** and deal with specialized topics in a language close to general discourse and to the layman’s everyday experience. The purpose here is chiefly **informative** and seeks to extend the reader’s knowledge rather than develop a secondary conceptual system.”

→ *Recontextualization*

Gotti 2014: 17

Register, degrees of specialisation and context

- Degrees of specialisation are distinguished by their **context** of production and the **purpose / main function** of their texts

Gotti 2014

- **Register** (< Functional Linguistics)

Lee 2001, Biber & Conrad 2009

Register, degrees of specialisation and context

Register variation

= “functional or diaphasic variation determined by the situational context”

Neumann 2014: 2

→ Language is used in a particular way to fulfil communicational functions

Biber & Conrad 2009

Register Variation

Register → Language use

→ Contextual approach to ESP,
with a *Register Pattern Analysis*
(configuration of lexico-grammatical
and semantic patterns)

Gledhill & Kübler 2016

→ The norm of language use

Neumann 2016

Which types of noun phrase modification?

In French:

With an adjective or a prepositional phrase
(*de/des*)

Ex.: régulation cellulaire

régulation de la cellule / des cellules

In English:

With an adjective, a prepositional phrase (*of*) or a noun

Ex.: cellular regulation

regulation of the cell / cells

cell regulation

Biber et al. 2008

Denominal Adjectives

< *Relational adjectives*

- Morphology:
The majority of Den-Adj are derived from nouns
(>< *heart – cardiac*)
- Syntax:
Den-Adj cannot be used as predicates
- Semantics:
Both Den-Adj and the noun have the same meaning (*blood – bloody*)

Denominal Adjectives

➤ Discursive property:

- Den-Adj can be expressed with a P-P
Deléger & Cartoni 2009
- Do they characterise SPE, like they do in French?
Maniez 2009

2. Methodology

- 8 suborpora
- Methodological steps

Methodology

Corpus linguistics

= a methodological approach to study **language use**

Bowker & Pearson 2002

- To study language as a social phenomenon, based on actual data (R. de Beaugrande)
- **Functionalist** approach (J.R. Firth, M.A.K. Halliday, J. Sinclair)

Zanettin 2012

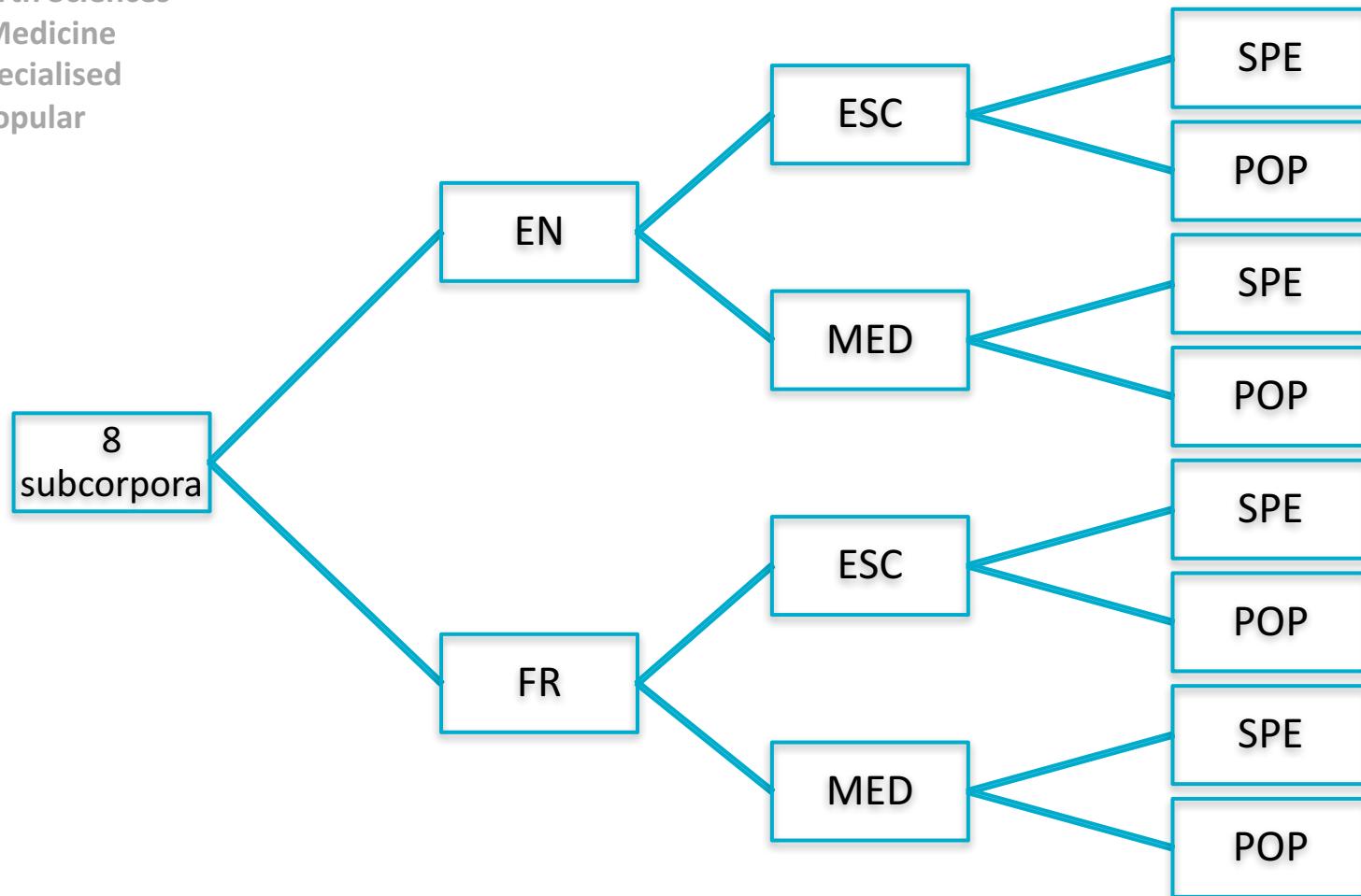
8 Subcorpora

ESC = Earth Sciences

MED = Medicine

SPE = specialised

POP = popular



Criteria of corpus compilation

SPE subcorpora	POP subcorpora
Introduction of research articles (EN) or PhD theses (FR)	Informative websites of specialised departments
Originals	Originals
Written by specialists	Written by specialists
30,000 words / subcorpus (120,000 words)	15,000 words / subcorpus (60,000 words)

Based on Bowker & Pearson 2002

ESC → *ocean + warming*

MED → *diabetes + gene*

Subcorpora

In order to be analysed, the corpora were:

- tagged with the tagger TagAnt© 
- downloaded in the concordancer AntConc©
(wild cards) 

by Laurence Anthony

AntConc©

AntConc 3.4.4m (Macintosh OS X) 2014

File Mar. 22:14

Corpus Files

- Al-Rubeaan.tagged.txt
- Allan.tagged.txt
- Asano.tagged.txt
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- Barna.tagged.txt
- Bhat.tagged.txt
- Buraczynska.tagged.txt
- Cakia.tagged.txt
- Chengli.tagged.txt
- Chidambaram.tagged.txt
- Chun.tagged.txt
- Coll.tagged.txt
- Goulielmos.tagged.txt
- Grau-Perez.tagged.txt
- Herrera-Lopez.tagged.txt
- Hornum.tagged.txt
- Hui.tagged.txt
- Hulme.tagged.txt
- Husain.tagged.txt
- Ide.tagged.txt
- Iorio.tagged.txt
- Jainandunsi.tagged.txt
- Johansson.tagged.txt
- Kankova.tagged.txt
- Kawabata.tagged.txt
- Kindt.tagged.txt
- Klein.tagged.txt
- Klotig.tagged.txt
- Kumar.tagged.txt
- Kyung-Won.tagged.txt
- Lie.tagged.txt
- Mannik.tagged.txt
- Mezghani.tagged.txt
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- Mir.tagged.txt
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- Palmer.tagged.txt
- Park.tagged.txt
- Pérez-Luque.tagged.txt
- Prabhanjan.tagged.txt
- Qian.tagged.txt
- Rahman.tagged.txt
- Rajput.tagged.txt
- Reynier.tagged.txt
- Riobello.tagged.txt
- Rivero-Gutierrez.tagged.txt
- Saredi.tagged.txt
- Schafer.tagged.txt
- Seong-Su.tagged.txt
- Shaoqing.tagged.txt
- Soleimanpour.tagged.txt
- Stephens.tagged.txt

Concordance Hits 229

Hit KWIC File

1 only_RB limited_VVN to_TO linkage_NN analysis_NN and_CC candidate_NN gene_NN studies_NNS .SENT Later_RBR on_RB ,_, GWAS_NP was_VBD used_VVN Al-Rubeaan_t

2 2D_NNS in_IN order_NN to_TO develop_VV Arab_NP Diabetes_NP Gene_NP Centric_NP Array_NP (_ ADGCA_NP)_ for_IN T2D_NN .SENT The_ Al-Rubeaan_t

3 glucose_NN metabolism_NN and_CC mutations_NNS of_IN the_DT glucokinase_NN gene_NN (_ GCK_NP)_ have_VBN been_VBN associated_VVN with_IN impaired_J Allan.tagged

4 _DT i_NP -cell-specific_JJ promoter_NN of_IN the_DT glucokinase_NN gene_NN has_VHZ been_VBN associated_VVN with_IN impaired_J glucose_NN tolle Allan.tagged

5 nt_NN mutation_NN in_IN the_DT tRNAleu_NN (_ UUR_NP)_ mitochondrial_JJ gene_NN at_IN nucleotide_NN 3243_CD has_VHZ been_VBN associated_VVN with_IM Allan.tagged

6 IN chromosome_NN 3._CD The_DT interval_NN contains_VVZ Il21_NP ,_, the_DT gene_NN for_IN murine_JJ IL-21_NP ,_, making_VVG Il21_NP a_DT positional_ Asano.tagged

7 a_DT positional_JJ as_RB well_RB as_IN functional_JJ candidate_NN gene_NN for_IN type_NN 1_CD diabetes_NN .SENT In_IN this_DT study_ Asano.tagged

8 subjects_NNS to_TO identify_VV sequence_NN variants_NNS of_IN the_DT gene_NN .SENT We_PP also_RB searched_VVD for_IN informative_JJ variants_NN Asano.tagged

9 also_RB searched_VVD for_IN informative_JJ variants_NNS of_IN the_DT gene_NN for_IN the_DT receptor_NN for_IN IL-21_NP ,_, IL21R_NP . Asano.tagged

10 _NNs belong_VVP to_TO type_VV 1_CD of_IN the_DT reg_NN gene_NN family_NN ,_, which_WDT is_VBZ a_DT multigene_JJ family_NN and_ Banchuin.tag

11 [_SYM 1_CD -_NN 3_CD]_SYM .SENT The_DT reg_NN (_ regenerating_VVG)_ gene_NN as_VBD originally_RB isolated_VVN from_IN the_DT rat_NN regenerati Banchuin.tag

12 contained_VVD a_DT homologue_NN of_IN the_DT rat_NN reg_NN gene_NN ,_, encoding_VVG a_DT 166_CD amino-acid_JJ protein_NN ,_, which_WDT Banchuin.tag

13 complete_JJ nucleotide_NN sequence_NN determination_NN of_IN human_JJ reg_NN gene_NN as_VHZ shown_VVN that_IN/that it_PP spans_VVZ approximately_RB 3.6 Banchuin.tag

14 band_NN 2p12_JJ [_SYM 5_CD]_SYM .SENT This_DT human_JJ reg_NN gene_NN was_VBD renamed_VVN reg1h_NN when_WRB a_DT novel_JJ Banchuin.tag

15 _VBD renamed_VVN reg1h_NN when_WRB a_DT novel_JJ human_JJ gene_NN was_VBD isolated_VVN [_SYM 3_CD]_SYM .SENT The_DT novel_JJ human_ Banchuin.tag

16 was_VBD isolated_VVN [_SYM 3_CD]_SYM .SENT The_DT novel_JJ human_JJ gene_NN ,_, reg1i_NP ,_, also_RB composed_VVN of_IN 6_CD exons_NNS ,_, encod Banchuin.tag

17 the_DT kidney_NN [_SYM 3_CD ,_, 4_CD]_SYM .SENT Human_JJ reg1h_NN gene_NN as_VBD found_VVN to_TO encode_VV several_JJ molecular_JJ forms_ Banchuin.tag

18 4_CD ,_, 6_CD]_SYM .SENT The_DT role_NN of_IN the_DT reg_NN gene_NN and_CC the_DT reg_NN protein_NN have_VHP been_VBN associated_ Banchuin.tag

19 lithostathine_NN ,_, a_DT protein_NN derived_VVN from_IN the_DT reg_NN gene_NN ,_, could_MD possibly_RB be_VB involved_VVN in_IN pancreatic_JJ lit Banchuin.tag

20 ,_, 2011_CD ;:_ Zhou_NP et_NP al_NP .SENT ,_, 2012_CD)_) .SENT The_DT gene_NN interaction_NN which_WDT is_VBZ called_VVN epistasis_NN might_ Barna.tagged

21 2011_CD ;:_ Zhou_NP et_NP al_NP .SENT ,_, 2012_CD)_) .SENT The_DT gene_NN interaction_NN which_WDT is_VBZ called_VVN epistasis_NN might_MD ex Barna.tagged

22 may_MD be_VB dependent_JJ on_IN other_JJ genetic_JJ variations_NNS (_ gene_NN gene_NN interactions_NNS)_ and_CC environmental_JJ factors_NNS (_ Barna.tagged

23 _MD be_VB dependent_JJ on_IN other_JJ genetic_JJ variations_NNS (_ gene_NN gene_NN interactions_NNS)_ and_CC environmental_JJ factors_NNS (_ Barna.tagged

24 gene-gene_NN interactions_NNS)_ and_CC environmental_JJ factors_NNS (_ gene_NN environment_NN interactions_NNS)_ .SENT To_TO address_VV this_DT is Barna.tagged

25 gene-gene_NN and_CC gene-environment_NN interactions_NNS such_JJ as_IN logi Barna.tagged

26 gene_NN and_CC gene-environment_NN interactions_NNS such_JJ as_IN logistic_ Barna.tagged

27 gene_NN environment_NN interactions_NNS such_JJ as_IN logistic_JJ regression_M Barna.tagged

28 gene_NN and_CC gene-environment_NN interaction_NN in_IN case-control_N Barna.tagged

29 gene_NN and_CC gene-environment_NN interaction_NN in_IN case-control_NN stu Barna.tagged

30 gene_NN and_CC gene-environment_NN interaction_NN in_IN case-control_NN stu Barna.tagged

Search Term Words Case Regex **Search Window Size** 75

gene" Advanced Start Stop Sort

Kwic Sort Level 1 1R Level 2 2R Level 3 3R

Clone Results

Total No. 66
Files Processed

AntConc©

AntConc 3.4.4m (Macintosh OS X) 2014

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- Schäfer_tagged.txt
- Seong-Su_tagged.txt
- Shaoqing_tagged.txt
- Soleimanipour_tagged.t
- Stephens_tagged.txt

Concordance Hits 54

Hit KWIC

1 _NN belong_VVP to_TO type_VV 1_CD of_IN the_DT reg_NN
 2 2011_CD ;:_ Zhou_NP et_NP al_NP ..SENT _,, 2012_CD)_) ..SENT The_DT gene-
 3 _JJ site_NN of_IN action_NN for_IN the_DT TCF7L2_NP
 4 ?2001_CD)_) ..SENT Inherited_JJ defects_NNS in_IN the_DT human_JJ MUTYH_NP
 5 _NN factor_NN for_IN T2DM_NP by_IN decreasing_VVG the_DT
 6 _NN ,_, we_PP hypothesized_VVD that_IN/that the_DT novel_JJ MUTYH_NP
 7 most_RBS likely_JJ to_TO be_VB informative_JJ for_IN susceptibility_NN
 8 and_CC coworkers_NNS reported_VVD the_DT role_NN of_IN IL-18_NP
 9 study_NN to_TO clarify_VV the_DT association_NN of_IN IL-18_NP
 10 dose-stimulated_JJ insulin_NN secretion_NN ,_, reduced_VVN preproinsulin_NN
 11 autoimmune_JJ diseases_NNS ,_, less_CC is_VBZ known_VVN about_IN the_DT
 12 the_DT gene_NN region_NN immediately_RB centromeric_JJ of_IN this_DT
 13 _IN type_NN 1_CD diabetes_NN might_MD be_VB determined_VVN by_IN
 14 ,_, and_CC may_MD yield_VV potential_JJ targets_NNS for_IN manipulating_VVG
 15 _NN mediated_VVN by_IN apoE_NN ..SENT Studies_NNS involving_VVG both_DT
 16 _TO chromosome_NN 11_CD ,_, where_WRB it_PP exists_VVZ in_IN a_DT
 17 loss_NN of_IN insulin-mediated_JJ down-regulation_NN of_IN apoCIII_NN
 18 in_IN HepG2_JJ cells_NNS transfected_VVN with_IN an_DT apoCIII_NP
 19 _VVN with_IN an_DT apoCIII_NP gene_NN promoter_NN -NN reporter_NN
 20 construct_NN would_MD predict_VV that_DT impaired_JJ suppression_NN of_IN
 21 assessed_VVD the_DT relationship_NN between_IN apoCIII_NN levels_NNS and_CC
 22 the_DT chance_NN of_IN identification_NN of_IN the_DT appropriate_JJ
 23 transport_NN and_CC metabolism_NN ,_, protein_NN synthesis_NN ,_, and_CC
 24 receptor_NN [(SYM LAIR_NP])SYM ...) [(SYM 6_CD])SYM ..SENT The_DT KIR_NP
 25 Here_RB ,_, we_PP use_VVP cDNA_NN microarrays_NNS to_TO analyze_VV
 26 _JJ phenomenon_NN but_CC that_IN/that early_JJ changes_NNS in_IN
 27 assumed_VVN these_DT SNPs_NP cause_NN changes_NNS in_IN CDKAL1_JJ
 28 smaller_JJR effect_NN was_VBD identified_VVN in_IN the_DT insulin_NN
 29 element_NN (_(VDRE_NP)) found_VVD in_IN the_DT human_JJ insulin_NN

File

Banchuin_tagg
 Buraczynska_
 Huimeitagge
 Huimeitagge
 Huimeitagge
 Huimeitagge
 Jainandunsi
 Johansson_tc
 Johansson_tc
 Kawabata_tag
 Kindt_tagged
 Klein_tagged
 Palmer_tagge
 Park_tagged.
 Rahman_tagge

Search Term Words Case Regex
 Advanced

Search Window Size 75

Kwic Sort

Level 1 1R Level 2 2R Level 3 3R

Total No. 66
Files Processed

Clone Results

Steps of analysis

1. Listing the 10 most frequent nouns and the 10 most frequent adjectives

Ex.: *heart(s)* ; *coastal*

2. Matching the corresponding adjective or noun (< dictionaries)

Ex.: *heart(s)* → *cardiac* ; *coastal* → *coast(s)*

3. Analysing their use in the 3 possible types of sequences (< frequencies)

Ex.: x *heart(s)* and y *cardiac* in z type(s) ; x *coastal* and y *coast(s)* in z type(s)

4. Comparing their use

Steps of analysis

- Terms which are not “fixed”

Ex.: *Pacific Ocean*



- Words in second position in the sequence

Ex.: *ocean circulation*

- Terms without prefixes; no compounds

Ex.: *~~deep-sea~~ plastic*

- Use of “of” – “de / des”

3. Results

Results

List of analysed nouns*: :

- ❖ **ESC:** *ocean, climate, sea, region, water, larva, heat, fish, atmosphere, environment, tropics, coast, physiology, season, east, oxygen, reef, coral, ice, industry, solar, chemistry, volcano, biology*
- ❖ **MED:** *diabetes, gene, allele, cell, chromosome, risk, region, mouse, protein, genome, pancreas, mitochondrion, kidney, vessel, centromere, heart, therapy, indigene, molecule, Europe, statistics, science*

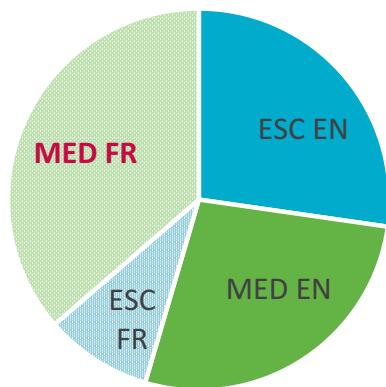
- ❖ **ESC:** *mer, eau, océan, aérosol, glace, zone, atmosphère, région, climat, sédiment, sable, chaleur, continent, géologie, écosystème, gaz, planète, période, science, tropique, homme, monde, pôle, terre*
- ❖ **MED:** *diabète, insuline, vie, cellule, risque, souris, glycémie, gène, origine, pancréas, aliment, muscle, environnement, monde, hormone, sang, risque, poids, thérapie, vaisseau, biologie*

* Corresponding adjectives are implied for each noun.

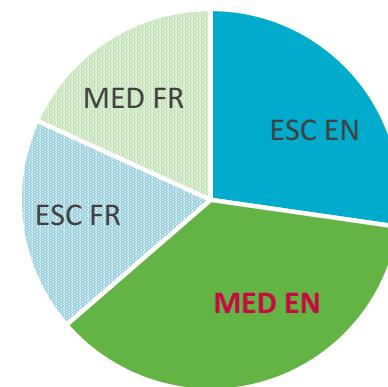
Results

- Den-Adj are used in SPE and POP in EN and FR

SPE



POP



Results

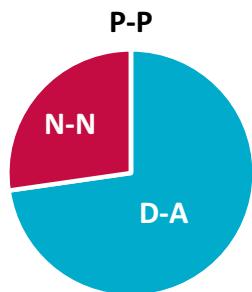
- When both Den-Adj and Nouns are in a subcorpus (< preferences)

ESC SPE	EN	Adj. > Noun
	FR	Adj. = Noun
ESC POP	EN	Adj. > Noun
	FR	Noun > Adj.
MED SPE	EN	Adj. = Noun
	FR	Noun > Adj.
MED POP	EN	Adj. > Noun
	FR	Noun > Adj.

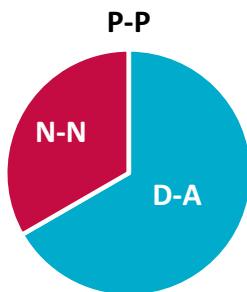
Results

- When both Den-Adj and Nouns are in a subcorpus (< preferences)

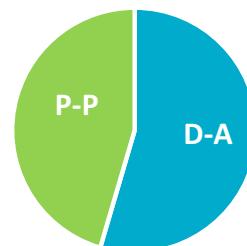
ESC SPE EN



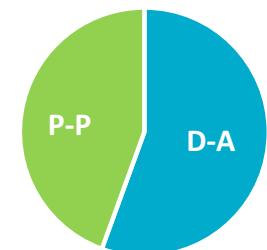
ESC POP EN



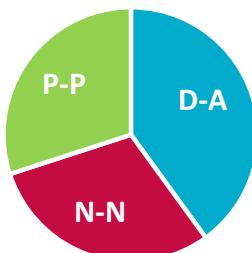
ESC SPE FR



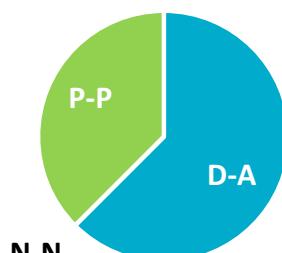
ESC POP FR



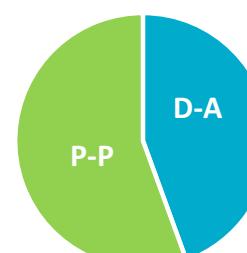
MED SPE EN



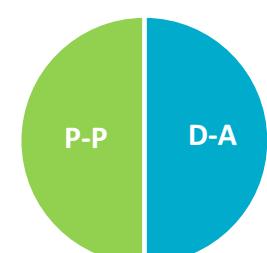
MED POP EN



MED SPE FR



MED POP FR



4. Conclusive remarks

Conclusions

An exploratory analysis with those conclusive remarks:

- Den-Adj. are used in each subcorpus
- Analysis (< frequencies):
 - In EN: **D-A** > N-N, P-P (except in MED SPE)
 - In FR: **P-P** > D-A (except in ESC SPE)
- When both are in subcorpora (< preferences):
 - In EN: **D-A** > N-N + P-P (except in MED SPE)
 - In FR: **P-P** > D-A (except in ESC SPE)

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Thank you for your attention