



Constitution et analyse d'un corpus documentaire à partir d'Istex

Université de Paris Nanterre – 24 mars 2026

mathilde.huguin@inist.fr

Inist - CNRS



Programme & Objectifs

Recherche documentaire & Text and data mining

Mardis 17 et 24 mars de 9h30 à 12h30

1. Connaître le réservoir Istex
2. Savoir interroger le réservoir
3. Acquérir les bases pour manipuler l'outil de datavisualisation Lodex & des web services
4. Prendre du recul sur la constitution de corpus et la fouille de textes

[Istex Search](#)

[Lodex](#)



Documents utiles

Télécharger ce support et les fichiers utiles aux manipulations sur la page

<https://formation-nanterre.formation.lodex.fr/instance/support>

Programme



01

Introduction : le TDM &
Istex

02

Constitution d'un corpus
spécialisé

03

Manipulations

A grayscale photograph of a stack of books. The top book is open, showing its pages. To the right of the books, a portion of a laptop is visible, including its screen and keyboard area. The background is a solid dark gray.

1. Introduction : le TDM & Istex

Le TDM ?

([Cuxac, 2024](#))

« Toute technique d'analyse automatisée visant à analyser des textes et des données sous une forme numérique afin d'en dégager des informations, ce qui comprend, à titre non exhaustif, des constantes, des tendances et des corrélations »

(Ordonnance du 24 novembre 2021,
[ouvrirlascience.fr](https://www.ouvrirlascience.fr))

- Extraire de l'information
- Détecter des sentiments
- Construire des résumés automatiques
- Désambiguïser des lieux, des personnes
- Faire des systèmes de recommandations
- Détecter des « fake news »
- Trier des mails, des textes

Introduction : le TDM & Istex

Évolution massive de la quantité de publications

- En 2024, on estime à environ 5,14 millions le nombre d'articles savants publiés dans le monde (toutes disciplines), soit +2,06% par rapport à 2023 et +22,78% sur cinq ans environ (publishingstate.com)
- Des travaux plus récents montrent que la part de travaux jamais cités à 10 ans est autour de 18% toutes disciplines confondues (hors autocitations), avec de fortes variations selon les domaines ([Science.org](https://science.org), [Larivière & Gingras, 2009](#))

Évolution massive des techniques de TAL et d'IA

- Accompagnée par l'implication d'industriels (intérêt financier) : ex. chatGPT (OpenAI)
- Évolution de la puissance de calcul et de stockage (super ordinateur Jean Zay : 125,9 pétaflops, soit 125,9 millions de milliards d'opérations par seconde)



Introduction : le TDM & Istex

Évolution de la législation

- 2019 : directive européenne sur le droit d'auteur > exceptions au code de la propriété intellectuelle dans un cadre de recherche (article 3)
- 2021-2022 : transposition de la directive européenne en droit français (articles L122-5 et suivants et L342-3 et suivants)

Évolution des moyens pour la science ouverte

- 2018 : 1^{er} plan pour la science ouverte 5M/an
- 2021 : 2^{ème} plan national pour la science ouverte 15M/an

Introduction : le TDM & Istex

ISTEX TDM
Les services Istex pour la fouille de textes

Rechercher un web service

Tapez ici votre recherche, p.ex. : Classification **RECHERCHER**

 Éléments catalographiques
OALDocTypeClass
CLASSIFICATION DE DOCUMENTS
OPENALEX PAR TYPE DE DOCUMENT →

 Texte intégral
Grobid
EXTRACTION ET STRUCTURATION DE
PUBLICATION SCIENTIFIQUE AU
FORMAT PDF →

ISTEX TDM Factory
L'IA appliquée à vos corpus

Chargez vos données et découvrez les résultats
des services TDM

 Malgré les contrôles qualité que nous effectuons avant de mettre nos web services en production, les outils d'IA peuvent commettre des erreurs.
Nous vous recommandons de vérifier les informations importantes.


Traiter un article scientifique Commencer →


**Traiter un corpus
d'articles scientifiques** Commencer →

 Besoin d'aide

Introduction : le TDM & Istex

Exemple de traitements : [le WS catégories scientifiques Inist](#)

Classification supervisée : apprentissage sur des données déjà labellisées

- Input : l'Inist dispose d'un fond de documents labellisés suivant leur domaine scientifique
- Action : l'algorithme apprend seul à associer un document à un label
- Output : le programme associe à chacun des nouveaux documents présenté un label

Introduction : le TDM & Istex

```
[
  {
    "idt": "08-040289",
    "value": "Planck 2015 results. XIII. Cosmological parameters.We present"
  }
]
```

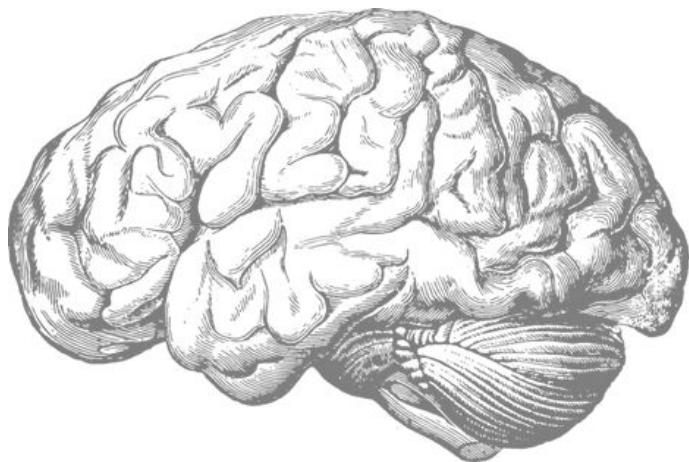
```
[{
  "idt": "08-040289",
  "value": [
    {
      "code": {
        "id": "001",
        "value": "Sciences exactes et technologie."
      },
      "confidence": 1.0000057220458984,
      "rang": 1
    },
    {
      "code": {
        "id": "001E",
        "value": "Terre, océan, espace."
      },
      "confidence": 0.9999549388885498,
      "rang": 2
    },
    {
      "code": {
        "id": "001E03",
        "value": "Astronomie."
      },
      "confidence": 1.0000100135803223,
      "rang": 3
    }
  ]
}]
```

A grayscale photograph of a stack of books. The top book is open, showing its pages. To the right, a laptop is partially visible, its screen dark. The background is a solid dark gray.

2. Constitution d'un corpus spécialisé

Cas d'usage | Requêtage
Téléchargement |
Exploration

Cas d'usage



Besoin : *recherche en collaboration avec des chercheurs en psychologie et en neurosciences pour constituer un thésaurus sur la mémoire humaine pour : indexer des publications ou des ressources ; uniformiser la terminologie du domaine ; répertorier les concepts issus de la recherche cognitive sur la mémoire humaine*

Méthodologie

- Vérifier la pertinence scientifique du corpus en collaboration avec les experts
- Affiner ou enrichir le corpus au moyen d'outils propres à Istex en vue d'une exploitation TDM
- Extraire la terminologie

Méthodologie



2 phases & 2 outils

1

**Pertinence
scientifique**

Istex Search : construction
et affinement requête,
extraction corpus v0

Lodex : examen de la
pertinence du corpus grâce aux
datavisualisations & aux
facettes

2

**Exploitabilité
TDM**

Istex Search : examen des
indicateurs techniques
pertinents

Requête

Requêtage

memory OR metarnesy OR metamemory OR
mémoire OR métamnésie OR métamémoire

Résultats (21-10-2024) : 1 701 374 doc.

Explication de la requête

- Les mots sont recherchés dans tout le document (métadonnées, texte intégral, références bibliographiques, enrichissements)
- Insensibilité à la casse
- La syntaxe Lucene autorise 3 opérateurs booléens (AND, OR, NOT) et par défaut l'espace blanc équivaut à un OR

Requêtage

m?mor* mnesic metamne* m?tam?mor*
mémoire* mnési* mnémo* métamnési*

Résultats (21-10-2024) : 2 664 987 doc.

Explication de la requête

- Rechercher des variantes morphosyntaxiques et des dérivés des mots-clés grâce à la troncature (*)
- Mutualiser certains termes (é|e) grâce au joker (?)

Requêtage

ENFANCES
FAMILLES
GÉNÉRATIONS

Enfances Familles Générations

Revue interdisciplinaire sur la famille contemporaine

The COVID Families

La pandémie de
La pandemia de

McMillan, I. F., L. M. Armstrong et J. Langhinrichsen-Rohling. 2021. «Transitioning to parenthood during the pandemic: covid-19 related stressors and first-time expectant mothers' mental health», *Couple and Family Psychology: Research and Practice*, 10(3): 179-189.

McRae, C. S., N. C. Overall, A. M. E. Henderson, ... et V. T. Chang. 2021. «Parents' distress and poor parenting during a covid-19 lockdown: the buffering effects of partner support and cooperative coparenting», *Developmental Psychology*, 57(10): 1623-1632.

Meloche, K. 2022. *Les impacts des mesures sanitaires en contexte de la COVID-19 sur les personnes âgées vivant dans les centres d'hébergement de soins de longue durée au Canada (mémoire)*, École de service social, Université d'Ottawa.

Laurence Charton, Léoni Labrecque and Joseph Josy Lévy

Requêtage

Afrique

Afriques

New Stud
Garima E

Nouvelles étu
Garima

Sergey Kim

The study was financed by the project ANR EthioChrisProcess: Christianisation et interactions religieuses en Éthiopie (VIe-XIIIe s.), in 2019-2020, and IRIS Scripta-PSL. Histoire et pratiques de l'écrit, in 2020-2021 (<https://scripta.psl.eu/projets/lectures-liturgiques-et-usages-memoriels-des-manuscrits-des-evangiles-dabba-garima-ethiopie-vi-xvie-s/>). I warmly thank the project supervisors Anaïs Wion and Marie-Laure Derat for scientific advice and bibliographical help, as well as Alessandro Bausi for helping obtain reproductions of the Abba Garima Gospels and Nafisa Valieva for fruitful discussions. Special thanks go to Michael Gervers for giving permission to use his photographs of manuscripts and to Alexei Pentkovsky for consulting on liturgical matters. I am grateful to two anonymous reviewers who helped a lot to correct mistakes and elucidate the exposition.

Requêtage



Ren

Sociol
panar

Revue des mondes musulmans et de la

Romanciers, poètes, philosophes et historiens trouvent dans *al-Yawm al-sābi'* l'espace intellectuel de leur convergence, un lieu de médiation facilitateur de leurs échanges et de la circulation transnationale (à l'échelle du monde arabe) de leurs productions écrites. Nombreux sont ceux à y avoir tenu une rubrique pendant plusieurs mois ou années, l'une des plus mémorables étant celle du poète palestinien Mahmoud Darwich¹¹. Sa rubrique est d'ailleurs enrichie d'une correspondance littéraire qu'il entretient avec le poète palestinien Samih Al-Qasim, à partir du mois de mai 1986, et ce pendant deux années. Dans un registre lyrique, leurs échanges

Sociohistory of al-Yawm al-sābi': a pan-Arab magazine in exile (1984-1991)

التاريخ الاجتماعي لـ « اليوم السابع », مجلة عربية في المنفى (1991-1984)

Requêtage

title:(m?mor* mnesic metamne* m?tam?mor*
mémoire* mnési* mnémo* métamnési*)

Résultats (21-10-2024) : 85 689 doc.

Explication de la requête

- Cibler le champ interrogé
- Les noms de champs sont introduit par :

Requêtage



L'Atelier du Centre de recherches historiques

Revue électronique du CRH

Les thèses du CRH | 2022

Déposer les armes, prendre la parole. La lutte armée d'extrême gauche en Italie (1969-2015) : narrations autobiographiques, représentations historiques, controverses mémorielles

Thèse soutenue le 29 novembre 2022

Laying Down the Guns, Taking up Writing. Left-Wing Armed Struggle in Italy (1969 - 2015): Autobiographical Narratives, Historical Representations, Memorial Controversies

Lorenzo De Sabbata

Requêtage

```
title:(m?mor* mnesic metamne* m?tam?mor*  
mémoire* mnési* mnémo* métamnési*) AND  
categories.wos.raw:("2 - neurosciences" "2 -  
psychology" "2 - clinical neurology" "2 -  
psychology, biological" "2 - psychiatry" "2 -  
psychology, clinical" "2 - geriatrics &  
gerontology" "2 - gerontology" "2 -  
neuroimaging" "2 - behavioral sciences" "2 -  
psychology, experimental")
```

Résultats (21-10-2024) : 20 726 doc.

Explication de la requête

- Cibler les catégories scientifiques interrogées grâce au champ categories.wos.raw

Requêtage

ON MEMORY.¹

BY JAMES ROSS, M.D., LL.D.

THE subject for discussion to-night is "Memory," and I presume that we are supposed to enquire into its nature, its limitations from other modes of consciousness, its laws of action, its connection with cerebral activity, and its dissolution by disease. But memory is so intertwined with every other form of mental activity, with the feelings which accompany instinctive and acquired movements, with sensations, perceptions and conceptions, with reasoning, from the simplest to the most abstract, and even with the emotions and the will, that it is simply impossible to deal with it satisfactorily in the few moments at my disposal to-night. To treat this subject with even a moderate degree of adequacy would involve the writing of a complete system of psychology, and consequently in the few remarks I have to offer I will

My *first* proposition with regard to memory is that it is a mode of consciousness, and consequently to speak of unconscious memory is a contradiction in terms. If a psychical act or an impression on the organism is wholly unperceived it cannot afterwards be recalled as a memory.

My *second* proposition is that our primary knowledge of memory is obtained by means of introspection. This knowledge is no doubt greatly extended by objective observation of the actions of other organisms, but my guarantee that anyone except myself possesses memory

¹ Read at a meeting of the Neurological Society in December, 1890.

Requêtage

```
title:(m?mor* mnesic metamne* m?tam?mor*  
mémoire* mnési* mnémo* métamnési*) AND  
categories.wos.raw:("2 - neurosciences" "2 -  
psychology" "2 - clinical neurology" "2 -  
psychology, biological" "2 - psychiatry" "2 -  
psychology, clinical" "2 - geriatrics &  
gerontology" "2 - gerontology" "2 -  
neuroimaging" "2 - behavioral sciences" "2 -  
psychology, experimental") AND  
publicationDate:[2000 TO *]
```

Résultats (21-10-2024) : 13 158 doc.

Explication de la requête

- Limiter la recherche aux 20 dernières années grâce au champ `publicationDate`
- Utiliser un intervalle `[2000 TO *]`

A dark gray circular icon containing a white downward-pointing arrow and a horizontal bar below it, representing a download function.

Téléchargement

Téléchargement

```
title:(m?mor* mnesic metamne* m?tam?mor*  
mémoire* mnési* mnémo* métamnési*) AND  
categories.wos.raw:("2 - neurosciences" "2 -  
psychology" "2 - clinical neurology" "2 -  
psychology, biological" "2 - psychiatry" "2 -  
psychology, clinical" "2 - geriatrics &  
gerontology" "2 - gerontology" "2 -  
neuroimaging" "2 - behavioral sciences" "2 -  
psychology, experimental") AND  
publicationDate:[2000 TO *]
```

Téléchargement

Configurez votre téléchargement

USAGE PERSONNALISÉLODEXCORTEXTGARGANTEXT

☐ Texte intégral

- ☐ PDF
- ☐ TEI
- ☐ TXT
- ☐ CLEANED
- ☐ ZIP
- ☐ TIFF

☒ Métadonnées

- ☒ JSON
- ☐ XML
- ☐ MODS
- ☐ Annexes
- ☐ Couvertures

☐ Enrichissements

- ☐ multicat
- ☐ nb
- ☐ grobidFulltext
- ☐ refBibs
- ☐ teeft
- ☐ unitex

Trier par : pertinence & qualité ▼

Télécharger 13 158 / 13 158 TOUT

Format de l'archive : ZIP ▼ Compression : moyenne ▼

TÉLÉCHARGER

Lodex

Application web open-source dédiée aux données structurées qui permet de visualiser et d'enrichir ses données puis de les transformer en site web.

[EN SAVOIR PLUS](#)

Requête

```
title:(m?mor* mnesic metamn* m?tam?mor* mémoire* mnési* mnémo* métamnési*) AND categories.wos.raw:("2 - neurosciences" "2 - psychology" "2 - clinical neurology" "2 - psychology, biological" "2 - psychiatry" "2 - psychology, clinical" "2 - geriatrics &...
```

Requête brute complète

```
https://api.istex.fr/document?q=title:(m?mor* mnesic metamn* m?tam?mor* mémoire* mnési* mnémo* métamnési*) AND categories.wos.raw:("2 - neurosciences" "2...
```



Exploration du corpus V0

2 phases & 2 outils

1

**Pertinence
scientifique**

Istex Search : construction
et affinement requête,
extraction corpus v0

Lodex : examen de la
pertinence du corpus grâce aux
datavisualisations & aux
facettes

2

**Exploitabilité
TDM**

Istex Search : examen des
indicateurs techniques
pertinents

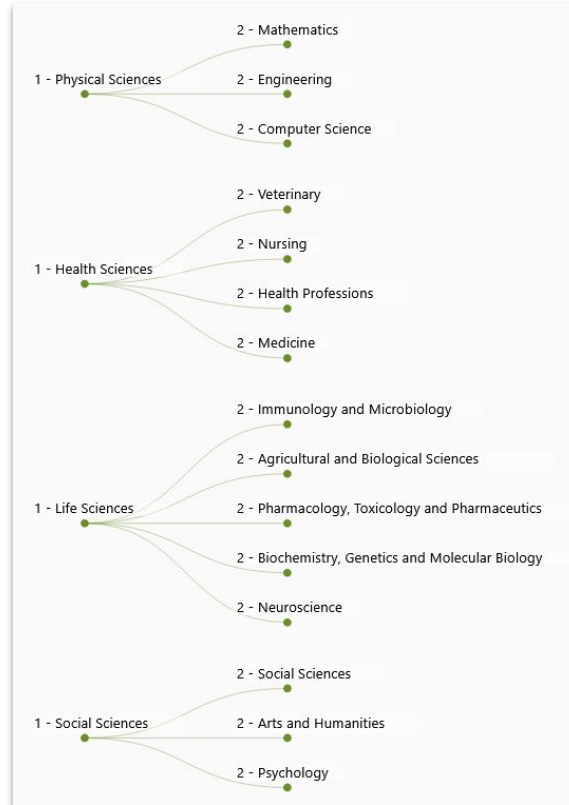
Exploration du corpus V0

Années de publication



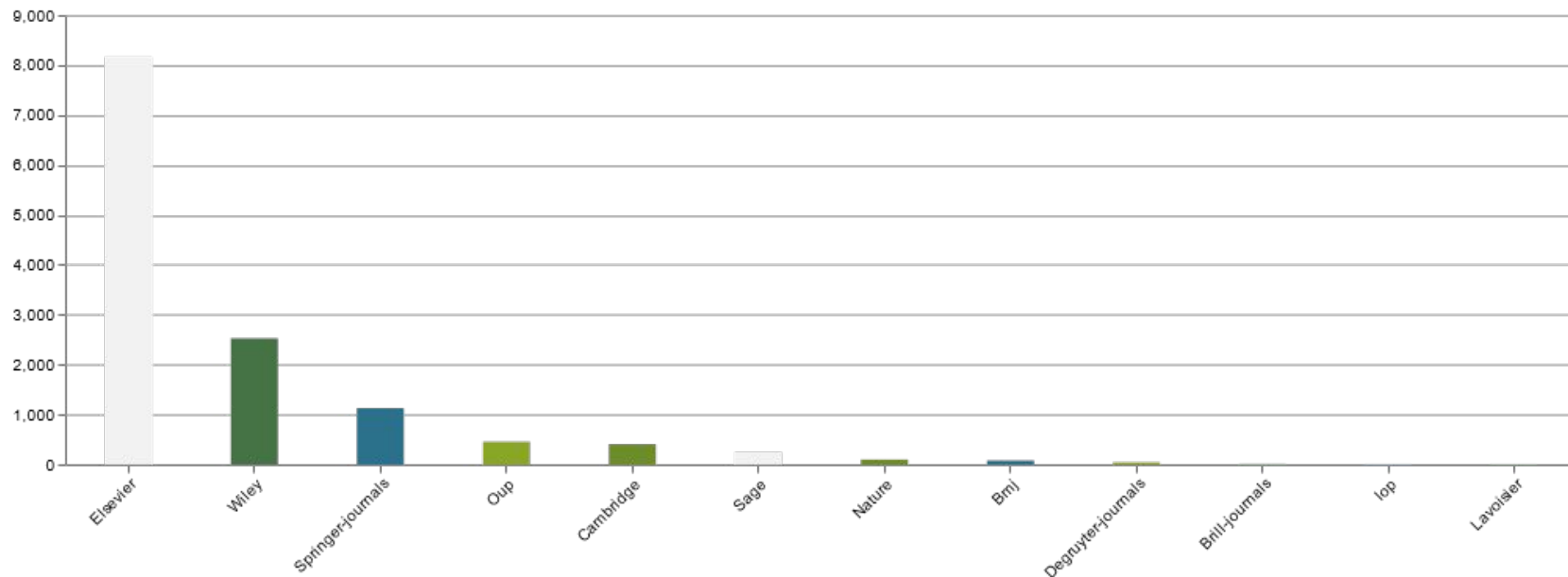
Exploration du corpus V0

Catégories
scientifiques
Scopus



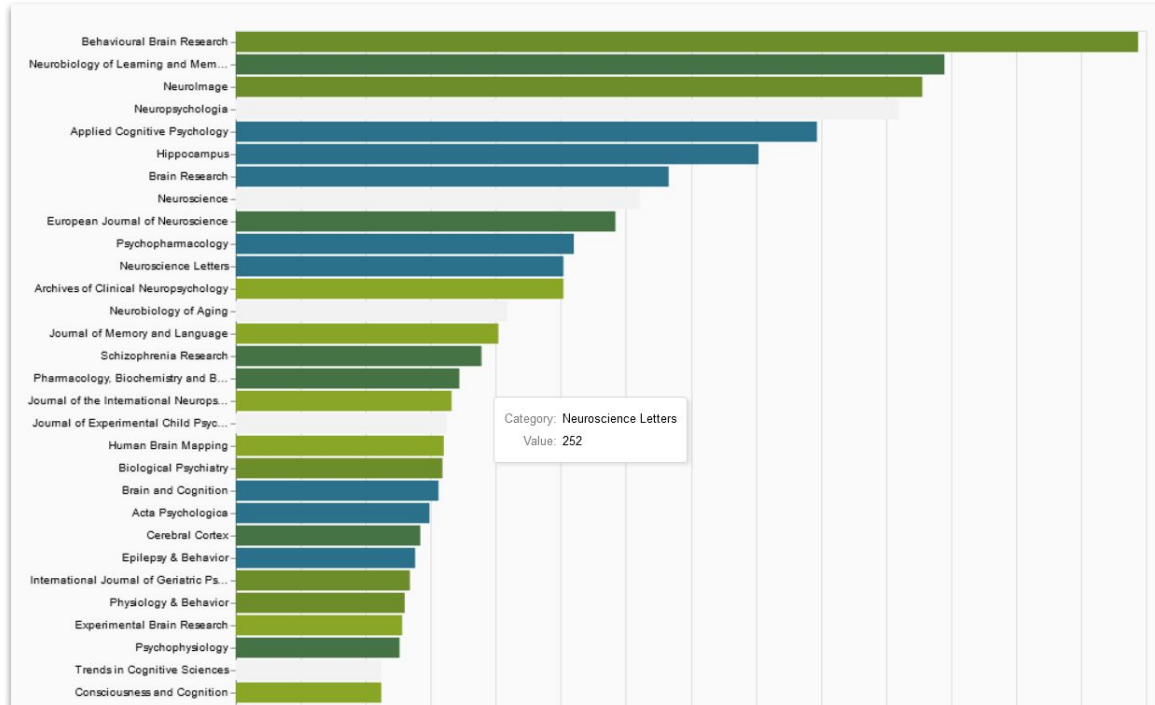
Exploration du corpus V0

Editeurs



Exploration du corpus V0

Revue (346)



Exploration du corpus V0

Revue d'éthologie

Revue / Monographie (3) ^

☐ exclure

animal|

VALEUR

COMPTER ↓

TOUT COCHER

☐ Animal Cognition 51

☐ Animal Behaviour 43

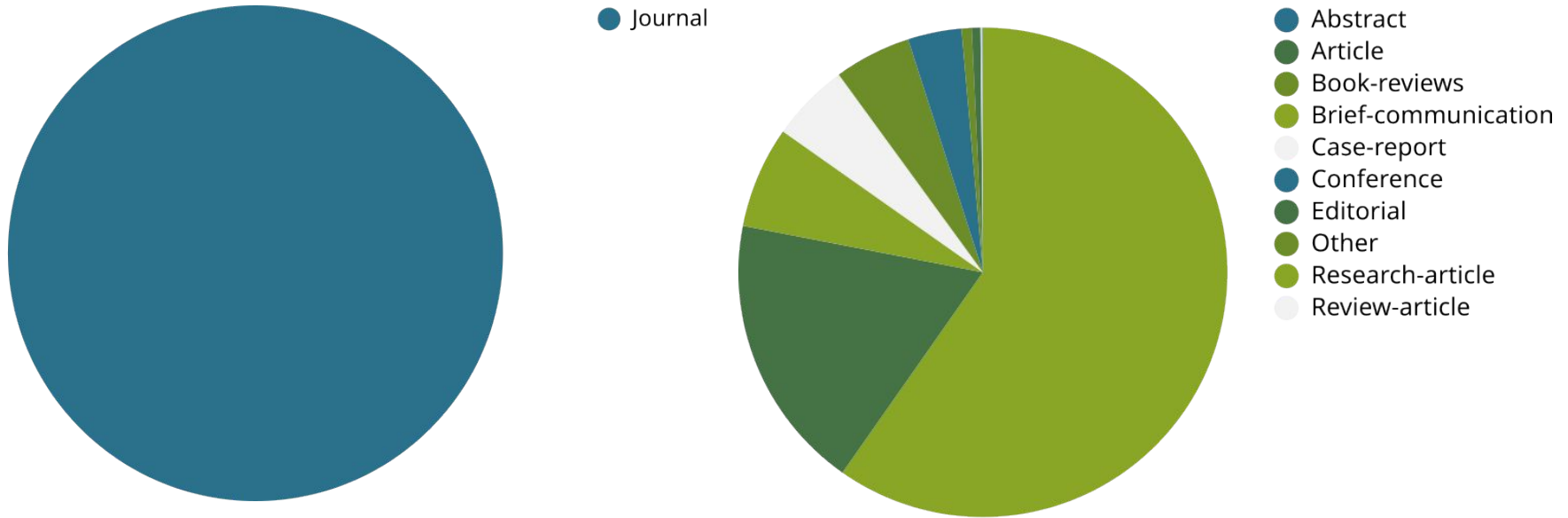
☐ Applied Animal Behaviour
Science 7

Showing 1 to 3 of 3



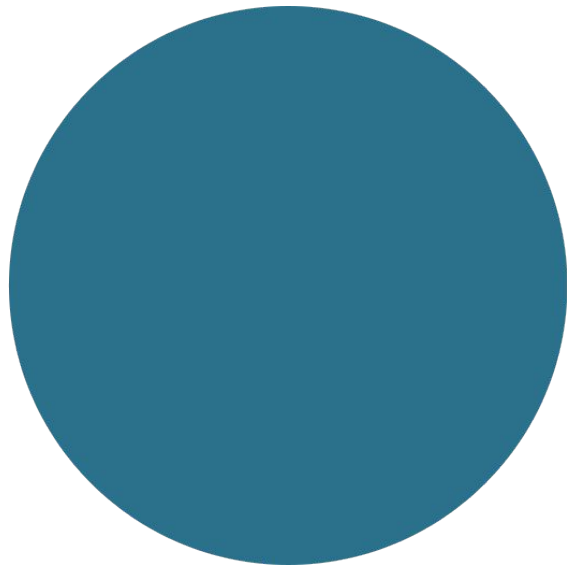
Exploration du corpus V0

Types de publication et de document

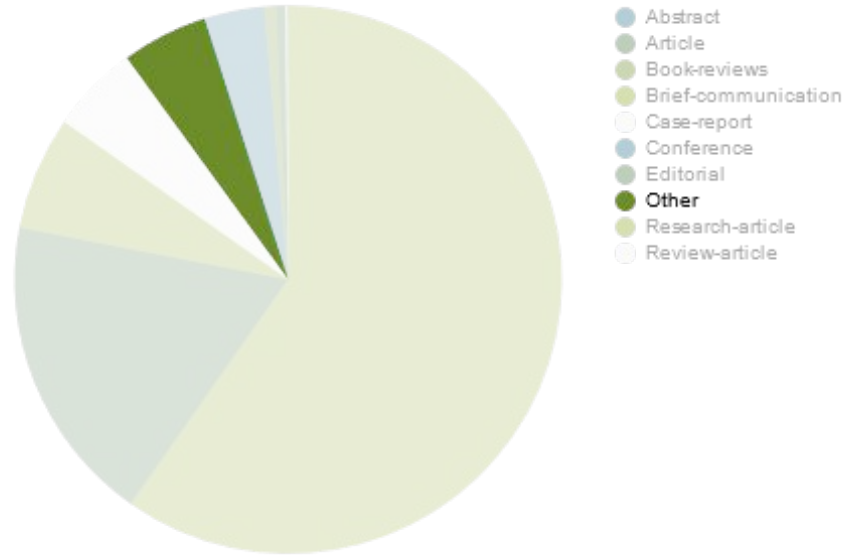


Exploration du corpus V0

Types de publication et de document



● Journal



Exploration du corpus V0

Types de publication et de document

Journal of the International Neuropsychological Society (2000), 6, 376–377.
Copyright © 2000 INS. Published by Cambridge University Press. Printed in the USA.

In Memoriam

Laird S. Cermak, Ph.D.

June 24, 1942–November 4, 1999

Laird Cermak was to become President of INS in February 2000, taking over the responsibilities for leading a scientific society he loved and served for over a quarter of a century. In many ways he embodied the very values the INS has always hoped to promote in excellence of scholarship, keen interest in behavioral neurosciences, and an easy and reflexive interdisciplinary citizenship. His name has been synonymous with a distinctive line of intellectual inquiry in amnesia and memory mechanisms for as long as I have been in neuropsychology myself.

It now can be told that I was alerted to Laird's considerable intellectual talent even as a graduate student. I recall that my major Professor, Phillip Rennick, showed me the initial application for research support he was reviewing that Laird had made to the Veterans Administration in the early 1970s. "Read this really excellent grant, Ken," he said, "because this guy is really going to do some significant work." Given that Phil tended to view proposals as having fatal flaws usually no later than the literature review, I was impressed and learned with awe what moved Phil. Apparently many others have joined in Phil's appraisal and appreciation of a career of scholarly promise fulfilled. I know that I did from that day. Laird took a central faculty role in one of the most protean research groups in the history of neuropsychology.



À la mémoire de Betty Havens 9 octobre 1936 au 1^{er} mars 2005

Marcia Finlayson,¹ Neena Chappell,² and Lynn McDonald³

- 1 Université de l'Illinois à Chicago
- 2 Université de Victoria
- 3 Université de Toronto



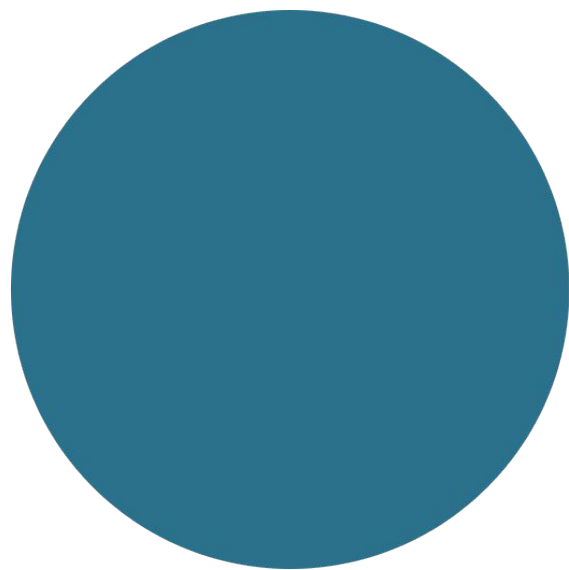
Lorsque Betty Havens est décédée, le 1^{er} mars au matin, la nouvelle s'est propagée rapidement que notre chère amie, collègue et mentor, celle qui nous avait toujours soutenus, était partie. Nombreux sont ceux à qui manqueront son rire chaleureux, ses répliques amusantes et ses petits clins d'œil. Nous sommes reconnaissants du privilège qui nous a été offert de partager une partie de son

Nous connaissons son engagement et son empressement constant à lutter pour les aînés et la gérontologie. Son intérêt envers la gérontologie était indiscutable, même à la toute fin, puisqu'elle lisait *The Gerontologist* dans son lit aux soins palliatifs.

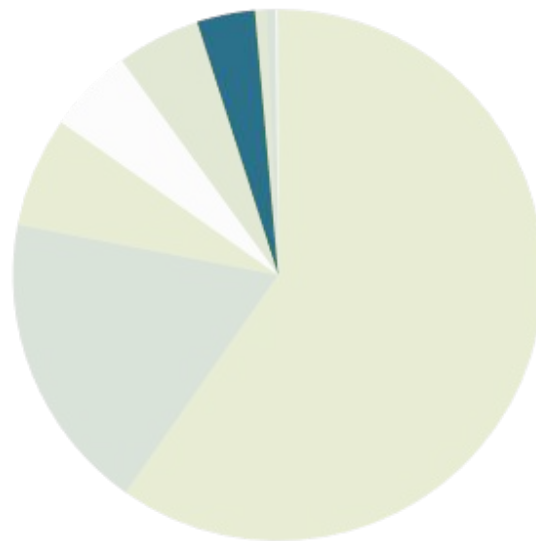
J'aimerais parler d'elle d'un point de vue plus personnel. Bien qu'elle n'était pas très démonstrative, elle soutenait sans aucune réserve les personnes en lesquelles elle croyait. Je me souviens très clairement de moments, pendant les premières années de ma carrière, où elle est venue me prendre par la main, lors de réunions du GSA, de l'ISA ou d'autres occasions, pour me présenter à Bernice Neugarten, à Matilda White Riley et à de nombreux autres grands spécialistes de la gérontologie: «Nous avons finalement l'un des grands de la gérontologie», disait-elle. Elle nous avait de

Exploration du corpus V0

Types de publication et de document



● Journal



- Abstract
- Article
- Book-reviews
- Brief-communication
- Case-report
- Conference
- Editorial
- Other
- Research-article
- Review-article

Exploration du contenu

Types de publication et de document

Proceedings of the NAASS 23rd Annual Meeting / The Spine Journal 8 (2008) 15-1915

1495

FDA DEVICE/DRUG STATUS: This abstract does not discuss or include any applicable devices or drugs.

doi:10.1016/j.spine.2008.06.343

P99. The Association Between Cervical Neck Pain and Health-related Quality of Life: A Cross-sectional Analysis
 Mana Reza, DC, MHS¹, Pierre Cole, DC, PhD², J. David Cassidy, DC, PhD, DrMedSci³, Linda Carroll, PhD², Centre of Research Expertise in Improved Disability Outcomes (CREDO), University Health Network, Department of Public Health Sciences, University of Toronto, Toronto, Ontario, Canada; ²Department of Public Health Sciences, School of Public Health, University of Alberta; Alberta Centre for Injury Prevention and Research, University of Alberta, Edmonton, Alberta, Canada

BACKGROUND CONTEXT: The literature suggests that physical and mental health related quality of life (HRQL) are worse for individuals with neck pain compared to those without neck pain. However, the strength of the association varies across studies. Discrepancies in study results may be attributed to the use of different definitions and measures of neck pain and differences in the selection of covariates used as control variables in the analyses.

PURPOSE: To examine the association between grades of neck pain severity and health-related quality of life.

STUDY DESIGN SETTING: Population-based, cross-sectional mailed survey.

PATIENT SAMPLE: We used data from the Saskatchewan Health and Back Pain Survey, a population-based cohort study of the distribution and determinants of spinal disorders in Saskatchewan, Canada. Saskatchewan is a Canadian province of approximately one million inhabitants with a universal health care system. The survey targeted Saskatchewan residents aged 20-69 years who held a valid Saskatchewan Health Services card on August 31, 1995.

OUTCOME MEASURES: The Medical Outcomes Study SF-36 standard English-Canadian version 1.0 was used to measure self-perceived general health status. This analysis used the physical component summary (PCS) and mental component summary (MCS) measures of the SF-36.

METHODS: The Saskatchewan Health and Back Pain Survey was mailed to 2184 randomly selected Saskatchewan adults and 1,131 returned the questionnaire. Neck pain was measured with the Chronic Pain Questionnaire and categorized into four increasing grades of severity. We measured HRQL with the SF-36 Health Survey and computed the physical and mental component summary scores. We built separate multiple linear regression models to examine the association between grades of neck pain and physical and mental summary scores while controlling for sociodemographic, general health and comorbidity covariates.

RESULTS: Our crude analysis suggests a gradient exists between the severity of grades and HRQL. Compared to individuals without neck pain, those with Grades III-IV neck pain had significantly lower physical (mean difference = -13.010, 95% CI = -16.4, -11.3) and mental (mean difference = -10.8, 100, 95% CI = -13.6, 8.1) HRQL. Controlling for covariates greatly reduced the strength of association between neck pain and physical HRQL, and accounted for the observed association between neck pain and mental HRQL.

P100. Shape Memory Metal Rods Tested in a Porcine Model: Single Rod Constructs Result in Greater Deformity at One Week
 Peter Newton, MD¹, Bart Yaszay, MD², Christine Farnsworth, MS³, Vidyutbar Upasani, MD⁴, Reid Chambers, BA⁵, Srang Hsuan Tsou, MD, PhD⁶, Paul Farkas, MS⁷, Rady Children's Hospital and Health Center, San Diego, CA, USA; ¹University of California, San Diego, CA, USA; ²DePuy Spine, Le Lucie, Switzerland

BACKGROUND CONTEXT: In the surgical treatment of spinal deformity, shape memory metal (Nitinol) rods can theoretically be approximated to a curved spine in their malleable, cooled state, then achieve spinal deformity correction as they return to their original shape with warming (straight in the coronal plane with a pre-contoured sagittal profile). A square cross-sectional rod profile may additionally allow deformity correction in the transverse plane when engaged in squared head pedicle screws. Single rod constructs, thought to be less constrained, may be able to achieve a greater deformity correction (clinically) a creation (experimentally), while dual rod constructs are likely more stable with less risk of implant failure.

PURPOSE: The purpose of this study was to determine the clinical feasibility and potential effectiveness of using single vs dual nitinol rod constructs by creating spinal deformity in an in vivo animal model.

STUDY DESIGN SETTING: In vivo animal study.

OUTCOME MEASURES: Deformity creation during single and dual rod groups.

METHODS: 10 mature Yucatan mini-pigs were instrumented with single (n=5) or dual (n=5) nitinol rod constructs (Figure 1A). The rods were instrumented straight at -15°C and allowed to return to their pre-contoured 90° coronal profile (twice the normal porcine lateral bending range of motion) after being warmed with a 41°C saline solution. Serial radiographs were obtained to follow deformity creation and compared between single and dual rod groups (p<0.05).

RESULTS: Scoliotic deformity creation was observed in both single and dual rod groups during the surgery (Figure 1B) and was not significantly different at the completion of the procedure (28°±5° vs 28°±4°, p=0.95). One week following rod placement, however, coronal deformity in the single rod group progressed to 42°±21°, which was significantly more than the dual rod group (33°±3°, p=0.002).

CONCLUSIONS: Pre-contoured (90° coronal curve), square cross-section shape memory metal rods successfully created coronal spinal deformity in all 10 animals. The less constrained single rod constructs resulted in greater deformity creation compared to dual rod constructs, at one-week post-op, with no evidence of implant failure/crowd pullout in either group. Nitinol rods may be useful in achieving spinal deformity correction that occurs both acutely during surgery and increases post-operatively over time.

Figure 1: A) Single and dual rod constructs. B) Coronal deformity for both groups (average ± SD) indicates statistical differences between groups (p<0.05).



710 CIRCADIAN RHYTHM DISTURBANCES IN ADVANCED DEMENTIA: DIAGNOSTIC SPECIFICITY

David G. Harper, McLean Hosp, Harvard Med Sch, Belmont, MA; Edward G. Sipes, Rhode Island Hosp, Brown Univ Sch of Medicine, Providence, RI; Ann C. McKee, E. Rogers Men Veterans Hosp, B U Sch of Medicine, Boston, MA; Andrew J. Salas, McLean Hosp, Harvard Med Sch, Belmont, MA; Patricia C. Harkin, Rachel L. Goldstein, McLean Hosp, Belmont, MA; Ludovic Velter, E. Rogers Men Veterans Hosp, B U Sch of Medicine, Bedford, MA

Many of the nosognostic symptoms of dementia (sleep disturbance, sundowning) may have their root in abnormalities of the circadian timing system. Previous studies have performed in this population, carrying a clinical diagnosis of probable Alzheimer's dementia, have shown that the phase of the circadian rhythm of temperature and activity is significantly delayed and that the amplitude is significantly reduced. We have since collected autopsy samples and made pathologically confirmed diagnoses on 38 patients who were enrolled in our original study to compare with 8 healthy controls. Patients were categorized for presence of Alzheimer's disease (AD), frontotemporal degeneration (FTD), including Pick's disease and corticobasal ganglionic degeneration, and dementia with Lewy bodies (DLB). Seventy-seven patients were given a final diagnosis of AD, 10 were given a final diagnosis of FTD and 1 was diagnosed with DLB. In addition, 4 AD patients were also diagnosed with DLB and 1 FTD patient received this diagnosis. Patients with dual diagnosis or an exclusive DLB diagnosis were excluded from further analysis. Patients with AD had a significantly delayed phase of their temperature and activity rhythms compared to controls, whereas patients with FTD had a temperature rhythm which was similar to controls but an activity rhythm characterized by dramatic phase advance and lowered goodness of fit. These results indicate that the rest-activity rhythm disturbances seen in AD and FTD may have a neurobiological underpinning. The origin and expression of these disturbances however appear to be distinct between the two diagnoses.

Phase of time of activity and temperature and activity goodness-of-fit

Diagnosis	T phase (hours)	Act phase (hours)	Goodness-of-fit
Controls	15.2 ± 0.7	11.6 ± 1.2	0.52 ± 0.04
AD	17.8 ± 0.4	16.9 ± 0.8	0.52 ± 0.01
FTD	15.9 ± 0.7	10.4 ± 1.2	0.38 ± 0.04

All values reported as means ± SE.

711 NEUROCHEMICAL AND BEHAVIORAL ALTERATIONS INDUCED BY SELECTED CENTRALLY ADMINISTERED CARBONYL-TERMINAL PEPTIDES OF B-ACTINOLYMPHOCYTOPOIETIN

Cheryl Huang Park, Se Heon Choi, Yun-Han Suk, Dept of Pharmacol., Coll of Med, Seoul National Univ., Seoul, South Korea

We have previously shown that the C-terminal fragment of CT of B-actinolympocytopenin (ACT) induced neurotoxicity in vitro and in vivo experiments. However, it is unclear whether neurochemical changes and learning and memory impairment induced by CT. To elucidate the in vivo neurotoxicity of CT, we examined behavioral changes using Morris water maze T days following a single intracerebroventricular injection of recombinant 105-120 amino acid CT (CT105-120) and PBS (control). We also quantified the changes in acetylcholine (ACh) levels of cortex and hippocampus. Mice that received CT105-120 showed significant decrease in ACh levels in cortex and hippocampus compared with saline treated group. Spatial learning and memory were impaired significantly by CT 105 in dose-dependent manner. These results suggest that learning and memory impairment induced by centrally administered CT 105 in some way related to neurochemical alteration.

712 EFFECTS OF CONTROL ON COGNITION AND EEG-PEF IN HEALTHY YOUNG AND OLD SUBJECTS

Oliver W. Hill, Antonio Corvini, Erad Knudt, Elvira I. Thome, Susan De Santis, Moni J. de Leon, NYU Sch of Medicine, New York, NY

Executive control levels are observed in most patients with Alzheimer's disease (AD). Previous cognitive studies in AD have shown that attentional control affected subjects in

new participants in the present placebo controlled double blind crossover study. Subjects received 0.5 mg/kg cortisol or placebo. Cognitive tests were administered before and at two time points (15 min, and 150 min) after cortisol administration. Cortisol impaired the recall of a word list (declarative memory) learned before the test in both age groups. Digit span (a measure of short-term memory) was impaired in young but not old subjects. The present results suggest that cortisol from declarative memory is especially sensitive to the disruptive effects of cortisol and that this effect occurs in both young and old subjects. Digit span is a measure of short-term memory, which is at least in part mediated by the frontal lobe is impaired by cortisol only in young subjects. Our findings suggest that during healthy aging the hippocampus, but not the frontal lobe, remains in sensitivity to the effects of cortisol. The cognitive findings predict that a cortisol challenge in young subjects during FTD/FTD should result in a reduction in hippocampal and frontal glucose metabolism. The data from the PET experiment in young subjects, which is currently in progress, will be presented at the meeting. Together these studies highlight the importance of endocrine and behavioral changes in the assessment of functional brain aging.

713 ENERGY PROCESSES OF THE HUMAN BRAIN IN NORMAL AGING AND DEMENTIA OF ALZHEIMER'S TYPE

Vladimir Fedorov, Natalia Vladimirovna Petrovskaya, Brain Research Institute, Moscow, Russia; Olga Alexandrovna Petrova, Research Center of Mental Health, Moscow, Russia; Oleg Nikolai Oshin, Research Center of Mental Health, Tallin, Estonia

In normal aging energy expenditures and energy resources of the brain are decreased. In normal and pathological aging the intensification of energy processes in the brain is provided using the mechanisms similar to that in stress reaction. The aim of present study is the investigation of influence of stress-like mechanisms of getting energy on process of normal aging and the development of dementia of Alzheimer's type (DAT). In healthy subjects and patients with DAT electrophysiological and biochemical investigations were carried out. The electrophysiological examination included the registration of visual evoked potentials to the flash and DC potentials as characteristics of brain oxidative processes. The cortical level in elderly subjects and the level of lipid peroxidation were evaluated. There is significant correlation between the cortical level in peripheral blood and level of DC potentials in elderly subjects. In normal aging energy DC potential correlates with the subclinical exhibition of electrophysiological symptoms. In DAT patients the significant increase of DC potentials and less remarkable increase of cortical level are observed. The increase of the brain energy expenditures has a good correlation with the increase of the lipid peroxidation, the disappearance of late components of visual evoked potentials and other changes of electrophysiological characteristics, which accompany the progression. Thus the pathological way of intensification of energy processes are relevant for normal and pathological aging and their regulation is feasible target for prevention and therapies of DAT.

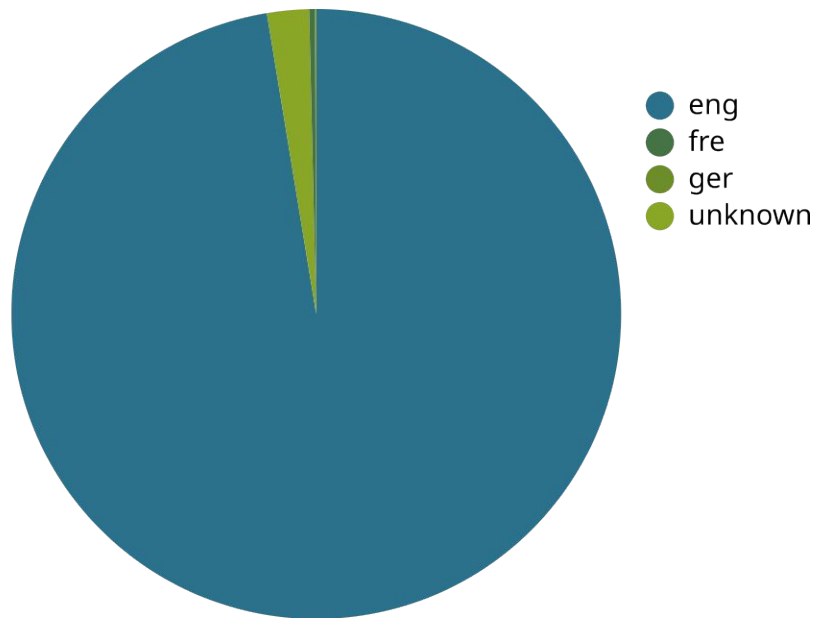
714 A DIFFERENTIAL MEMORY PROFILE IN PATIENTS WITH SUBJECTIVE MEMORY COMPLAINTS AND NORMAL MMSE SCORE: DEPRESSION OR COGNITIVE DECLINE?

Jaime Kulavick, Service of Neurology, 08023 Barcelona Spain; Anaïs Berthel, Pilar Chelvan, Ezer Gencic, Armando Estroff-Gonzalez

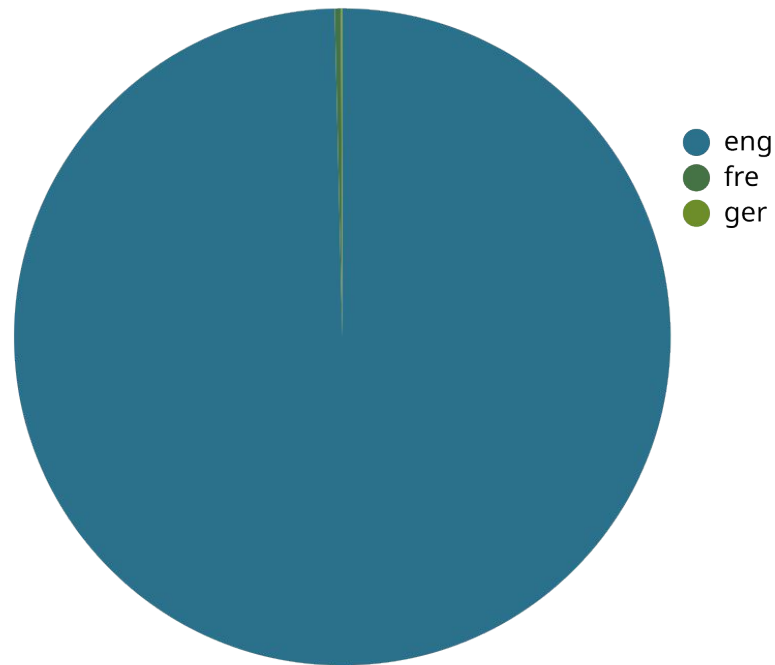
OBJECTIVE: To determine whether depressive symptoms influence particular aspects of memory performance in patients with subjective memory complaints. **BACKGROUND:** Individuals with subjective memory complaints, subjective memory complaints may predict dementia. Depressive symptoms may influence memory performance and a firm differential diagnosis between cognitive decline and depression is not available. Analysis of memory profile in depressed and non-depressed individuals with normal MMSE and subjective memory complaints can help distinguish particular aspects of memory performance that are most probably related to depressive symptoms. **DESIGN/METHODS:** Seventy-four individuals with subjective memory complaints, without antecedents of neurological illness (MMSE score > 26) were assessed with a comprehensive memory test battery and other cognitive functions, and the GDS-15, a sensitive indicator (greater than 50% of depressive illness). Fifty subjects were selected and memory performance was analyzed in two groups: Group 1: 26 subjects (1MM 11F) with MMSE score of 27-30 (mean 28.6) and GDS-15 (mean 5.8); Group 2: 24 subjects (1MM 10F) with MMSE score of 27-30 (mean 28.3) and GDS-15 (mean 19.3). There were no significant differences between groups on age (mean 65.6), years of education (mean 9.2), and

Exploration du corpus V0

Langues



Langues dans Istex (292 unknown)



Résultat du web service

Exploration du corpus V0

Bilan



01

Reviews

NOT host.title:("Animal Cognition"
"Animal Behaviour" "Applied Animal
Behaviour Science")



02

**Types de
documents**

NOT title:("in mémoriam" "à la
mémoire") NOT genre:abstract



03

Langues

NOT language:ger

Révision de la requête

Suppression de 578 documents

```
title:(m?mor* mnesic metamne* m?tam?mor*
mémoire* mnési* mnémo* métamnési*) AND
categories.wos.raw:("2 - neurosciences" "2 -
psychology" "2 - clinical neurology" "2 -
psychology, biological" "2 - psychiatry" "2 -
psychology, clinical" "2 - geriatrics &
gerontology" "2 - gerontology" "2 -
neuroimaging" "2 - behavioral sciences" "2 -
psychology, experimental") AND
publicationDate:[2000 TO *]
```

```
title:(m?mor* mnesic metamne* m?tam?mor* mémoire*
mnési* mnémo* métamnési*) AND categories.wos.raw:("2
- neurosciences" "2 - psychology" "2 - clinical neurology" "2 -
psychology, biological" "2 - psychiatry" "2 - psychology,
clinical" "2 - geriatrics & gerontology" "2 - gerontology" "2 -
neuroimaging" "2 - behavioral sciences" "2 - psychology,
experimental") AND publicationDate:[2000 TO *] NOT
host.title:("Animal Cognition" "Animal Behaviour"
"Applied Animal Behaviour Science") NOT title:("in
mémoriam" "à la mémoire") NOT genre:abstract NOT
language:ger
```

Exploitabilité TDM

2 phases & 2 outils

1

**Pertinence
scientifique**

Istex Search : construction
et affinement requête,
extraction corpus v0

Lodex : examen de la
pertinence du corpus grâce aux
datavisualisations & aux
facettes

2

**Exploitabilité
TDM**

Istex Search : examen des
indicateurs techniques
pertinents

Exploitabilité TDM

Résumé



Constat

- 6 % des documents n'ont [pas de résumé](#)

Procédures / outils

- Teeft : indexation non supervisée pour extraire les termes les plus spécifiques d'un contenu scientifique
- GarganText : plateforme collaborative d'exploration graphique de corpus

Requête AND abstract:*

Exploitabilité TDM

Texte nettoyé



Constat

- 10 % des documents n'ont pas de texte nettoyé ([texte brut](#) vs [texte nettoyé](#))

Procédures / outils

- CorText : outil d'analyse et d'exploitation de corpus textuels (script Terms extraction)
- TermSuite : outil d'extraction terminologique et d'alignement de termes multilingues
- Bibliothèque Python (gensim)
- Concordancier (Sketch Engine)

Requête AND `qualityIndicators.tdmReady:true`

Exploitabilité TDM

PDF texte



Constat

- Tous les documents ont un PDF texte (vs type [PDF image](#))

Procédures / outils

- Transformer le PDF en texte avant l'intégration dans l'outil souhaité ([tesseract](#))

Requête AND qualityIndicators.pdfText:true

Exploitabilité TDM

Nombre de pages / mots

Constats

- 25 documents possèdent plus de 100 000 mots
- 11 documents possèdent plus de 100 pages

Requêtes

AND qualityIndicators.pdfPageCount:[* TO 100]

AND qualityIndicators.pdfWordCount:[* TO 100000]



The screenshot shows a modal dialog box with a light gray header containing the title "NOMBRE DE MOTS DU PDF" and a small upward-pointing arrow icon. Below the header, the text "Nombre de mots (106 179 à 161 114)" is displayed. Underneath, there are two input fields: the first contains "106 179" and the second contains "161 114", with a small "à" symbol between them. At the bottom of the dialog, there is a wide button labeled "APPLIQUER" and a smaller button with a close icon (an 'X' inside a square).

Exploitabilité TDM

Bilan





À vous !

Exercice 1 : construire une requête Istex

☐ **Étape 1 :** Se rendre sur Istex Search.

☐ **Étape 2 :** Rechercher les formes anglaises *refugee* et *asylum seeker*.

Pour une aide sur la syntaxe des requêtes consulter les Astuces de recherche  (à droite dans Istex Search).

☐ **Étape 3 :** Limiter le bruit et le silence.

☐ **Étape 4 :** Répondre aux contraintes scientifiques et techniques.

Quelle est la taille de votre corpus ?

Exercice 1 : construire une requête Istex

```
(title:(refugee* "asylum seeker" "asylum seekers") subject.value:(refugee* "asylum seeker" "asylum seekers")) AND genre.raw:"research-article" AND publicationDate:[2000 TO *] AND abstract:* AND language:eng
```

Exercice 2 : chargement des données et création du site Lodex

- ☐ Étape 1 : Télécharger le corpus.
- ☐ Étape 2 : Importer le corpus dans Lodex.
- ☐ Étape 3 : Importer le modèle.
- ☐ Étape 4 : Modifier un champ existant dans Lodex.

ISTEX Formation
Correction du TP

Corpus Réfugié-es

Étude des réfugié-es politiques et climatiques



Image issue de [Pixabay](#).

Le corpus *Réfugié-es* sert de base à une recherche en sociologie. Son objectif est de fournir un matériau de recherche pour analyser les **mouvements des réfugié-es à travers le monde** à travers la littérature scientifique. Il offre de distinguer la part de documents traitant des réfugié-es climatiques et des réfugié-es politiques et d'identifier leur origine géographique.

Date de création	Structure	Nombre de documents
24/03/2026	Université de Paris Nanterre	1713

Exercice 3 : Premiers pas vers le TDM

☐ **Étape 1** : Extraire les mots-clés des résumés via le web service Teeft.

☐ **Étape 2** : Créer un diagramme en barres.

☐ **Étape 3** : Créer une nouvelle facette Mots-clés.

Combien de documents comportent le terme *asylum seekers* et *environmental refugees* ?

The screenshot displays a web interface for searching and filtering documents. On the left, a sidebar contains filters for 'Mot-clé d'auteur-ice', 'Catégorie Inist', and 'Mots-clés des résumés (85)'. The 'Mots-clés des résumés' section is expanded, showing a list of keywords with checkboxes and a count. The keyword 'asylum seekers' is selected and highlighted in blue. On the right, the main area shows '146 ressources trouvées sur un total de 1713'. Three document snippets are visible, each with a title, abstract, and publication details (PLOS ONE, 2016 or 2020).

Mots-clés des résumés (85)	VALEUR	COMPTER
☐ exclude		
☐ asylum		
☒ asylum seekers		146
☐ asylum		145
☐ asylum-seekers		5
☐ asylum seeker		3

146 ressources trouvées sur un total de 1713

Health Assessment and the Right to Health in Sweden: Asylum Seek...
Background Swedish law entitles asylum seekers to a voluntary health assessment and to "health care that cannot be postponed". The last expression suggests, however, restrictions on the entitlement, and what it m...
PLOS ONE 2016

Adult Asylum Seekers from the Middle East Including Syria in Centr...
Background Forced displacement related to persecution and violent conflict has reached a new peak in recent years. The primary aim of this study is to provide an initial overview of the acute and chronic health care problems of...
PLOS ONE 2016

Sexual violence against migrants and asylum seekers. The experienc...
Objectives Sexual violence can have a destructive impact on the lives of people. It is more common in unstable conditions such as during displacement or migration of people. On the Greek island of Lesbos, Médecins Sans...
PLOS ONE 2020

Exercice 4 : Cartographie

- ☐ **Étape 1** : Récupérer les noms de lieux mentionnés.
- ☐ **Étape 2** : Uniformiser les noms de lieux pour créer une cartographie.
- ☐ **Étape 3** : Créer une carte en fonction des pays mentionnés dans les articles.



Exercice 5 : Premier précalcul

□ **Étape 1** : Extraction des thématiques du corpus.

