

ANF TDM 2023

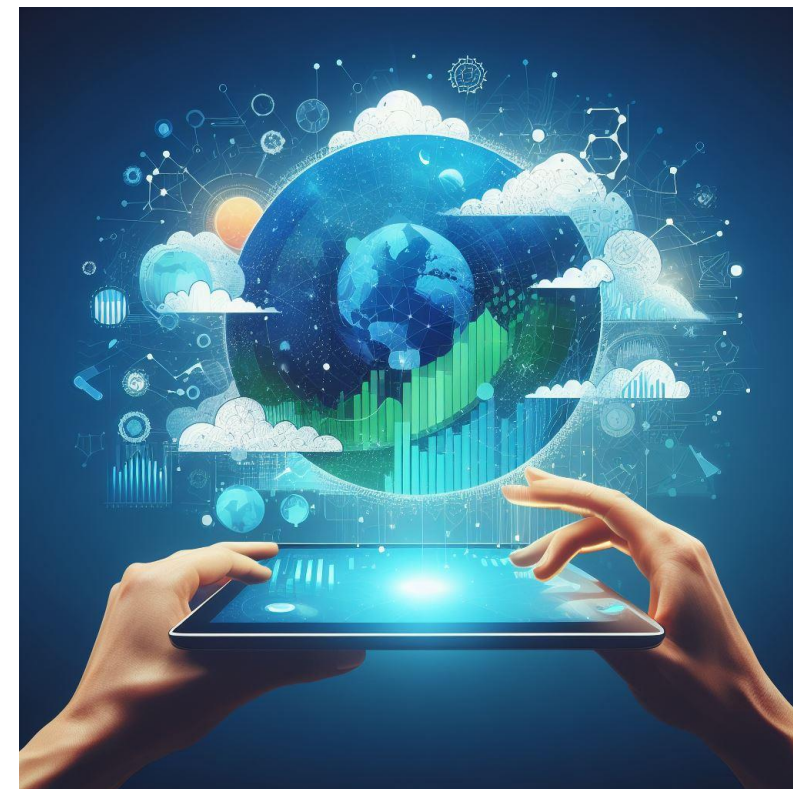
Exploration documentaire et extraction d'informations

# La constitution et l'exposition d'un corpus documentaire à partir des ressources Istex

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Généré avec l'IA Bing Image Creator

# Plan

## 1. Présentation d'Istex

Un peu d'ISToire  
Objectifs & Accès  
Quelques chiffres  
Chaîne de traitements  
Présentation des outils

## 2. Constitution de corpus

Cas d'usage *Mémoire*  
Méthodologie  
Requêtage  
Téléchargement  
Exploration & visualisation



# Présentation d'Istex

Initiative d'excellence en Information  
Scientifique et Technique

# Présentation d'Istex | Un peu d'ISToire

2011 - 2018

Istex est un projet (PIA) qui se donne comme objectif de construire une **bibliothèque numérique d'archives scientifiques**

2015

Ouverture de l'API en bêta-test (23M de publications)

Depuis 2019

Istex est un **service pour l'ESR** régulièrement alimenté par des nouvelles collections

2017 - 2018 | 2019 - ...

Istex bénéficie du plan de soutien à l'édition scientifique française et des acquisitions du GIS CollEx-Persée

2018

Création de l'outil de datavisualisation **Lodex** - Linked Open Data Experiment (*Gregorio et al., 2019*)

Depuis 2022

Istex est inscrit sur la liste des projets d'Infrastructures de Recherche (*Petitjean-Monnin et. al, 2022*)

# Présentation d'Istex | Objectifs & Accès

## Objectifs

- Acquérir massivement des archives scientifiques multilingues et multidisciplinaires
- Enrichir les données
- Mettre à disposition les données via une plateforme nationale



## Mode d'accès

- Métadonnées accessibles à tous
- Textes intégraux et enrichissements réservés à l'ESR (375 établissements adhérents)
- Lien avec des ENT, Google Scholar, Click & Read



**27,5M documents**

**41 collections**

**éditeurs**

**9 617 revues**

**437 306 monographies**

**700 ans de publications**

**51 langues**

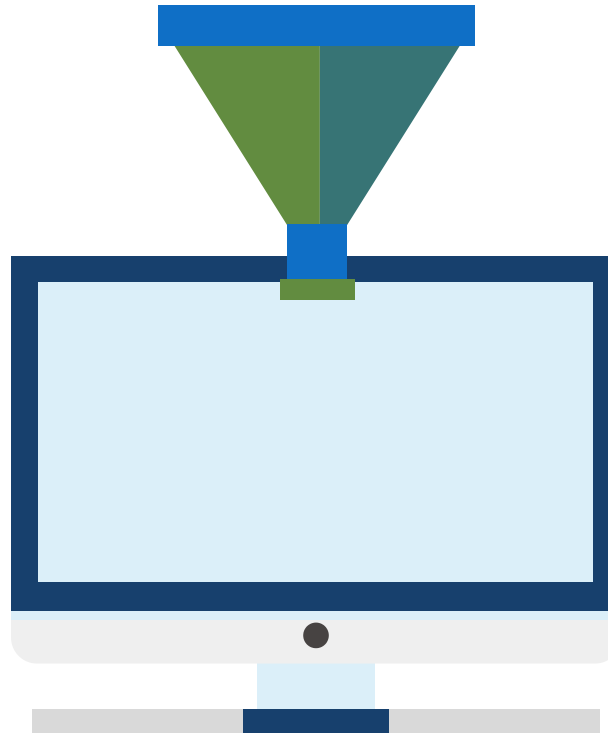
**\*Chiffres en date du 28 août 2023**

# Présentation d'Istex | Deux usages



## Une ressource documentaire

- Trouver des articles scientifiques
- Alimenter des bases documentaires



## Un matériau de recherche

- Constituer des corpus
- Faire de la fouille de textes ou du TDM (e.g. *Bordignon & Maisonobe, 2022 ; Bénard et. al, 2023 ; Huguin & Barreaux, 2023*)

# Présentation d'Istex | Chaîne de traitements

## Réception & Stockage



## Enrichissements

Entités nommées  
Structuration des PDF  
Catégories scientifiques  
Indexation  
(Unitex, Grobid, Nb, Multicat, Teeft)



## Standardisation & indexation

Océrisation  
Métadonnées MODS  
Textes intégraux TEI



## Textes intégraux, métadonnées et enrichissements

Téléchargeables  
massivement depuis l'API  
(JSON, TEI, MODS, XML, PDF, TXT)





Istex.fr



Site général, vitrine du possible

Data



**Informations sur les données Istex**  
(collections, enrichissements) & corpus

Démonstrateur



**Interface d'interrogation de l'API Istex**

Istex-DL



**Outil de téléchargement de corpus**  
connecté à l'API

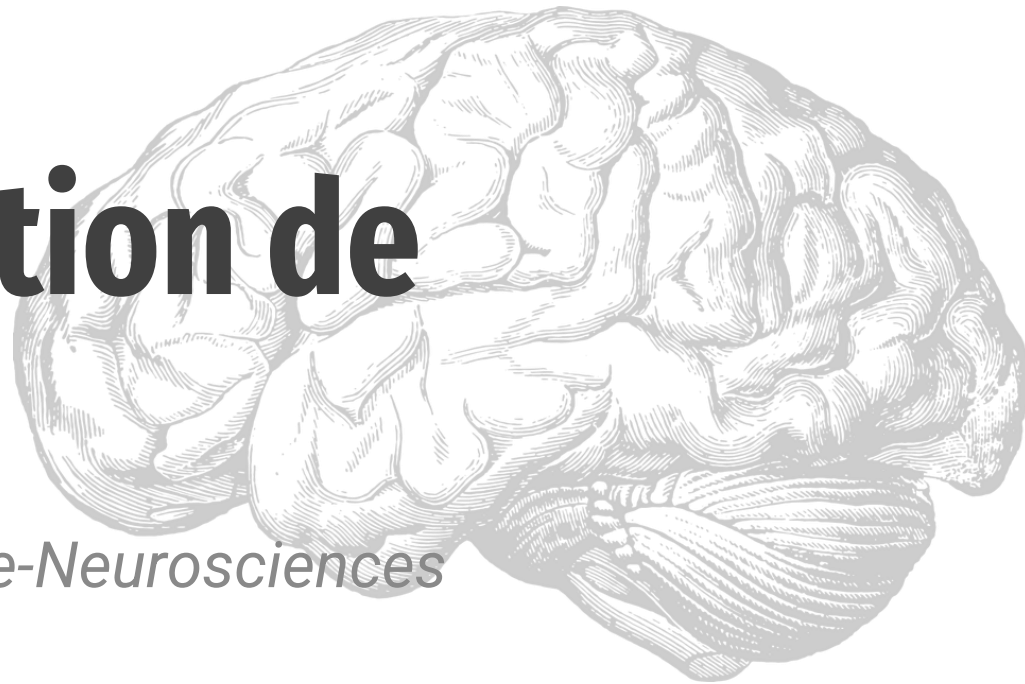
Lodex

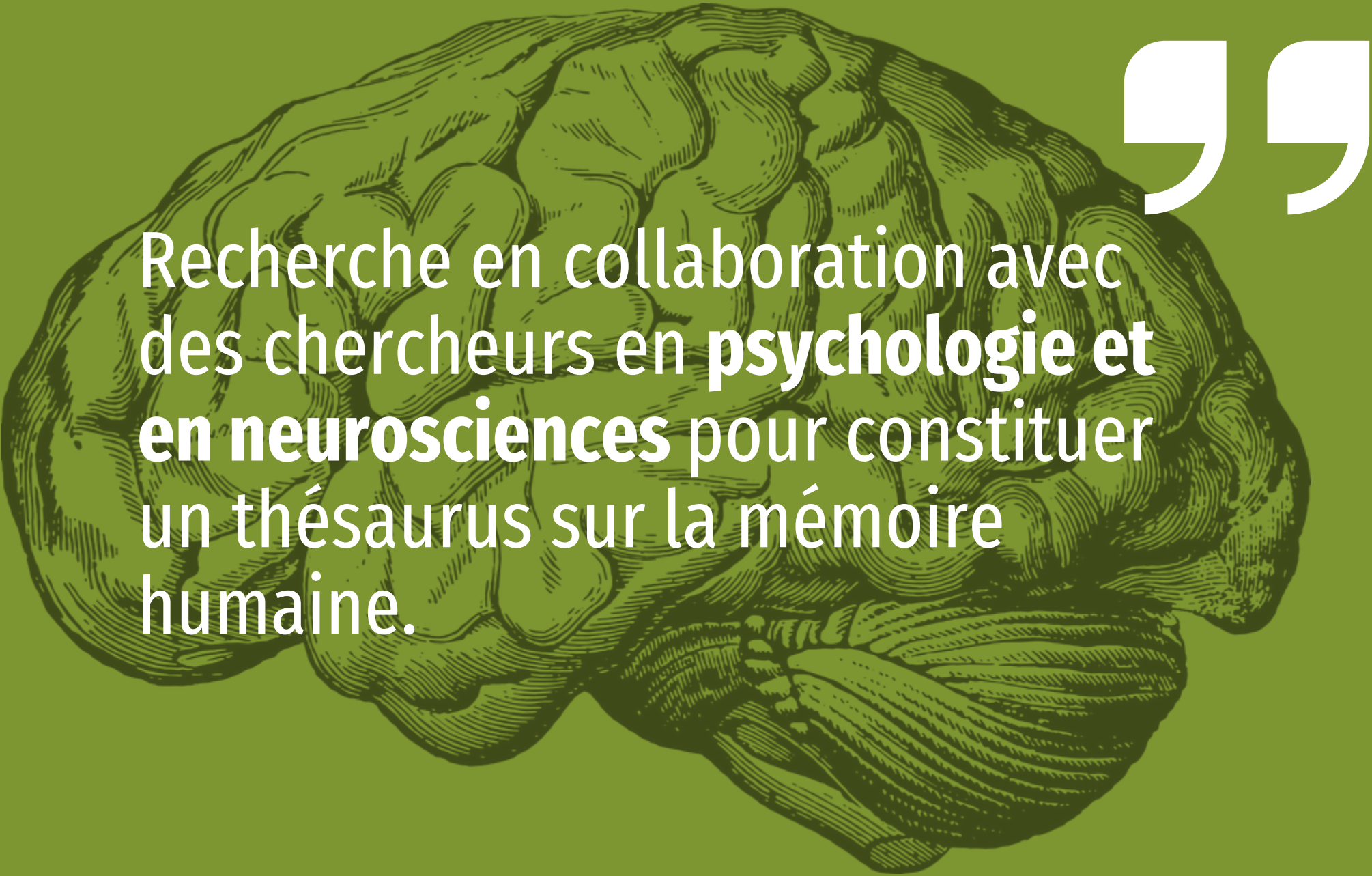


**Outil de création de sites web**  
(sémantisation et visualisation de données)

# Constitution de corpus

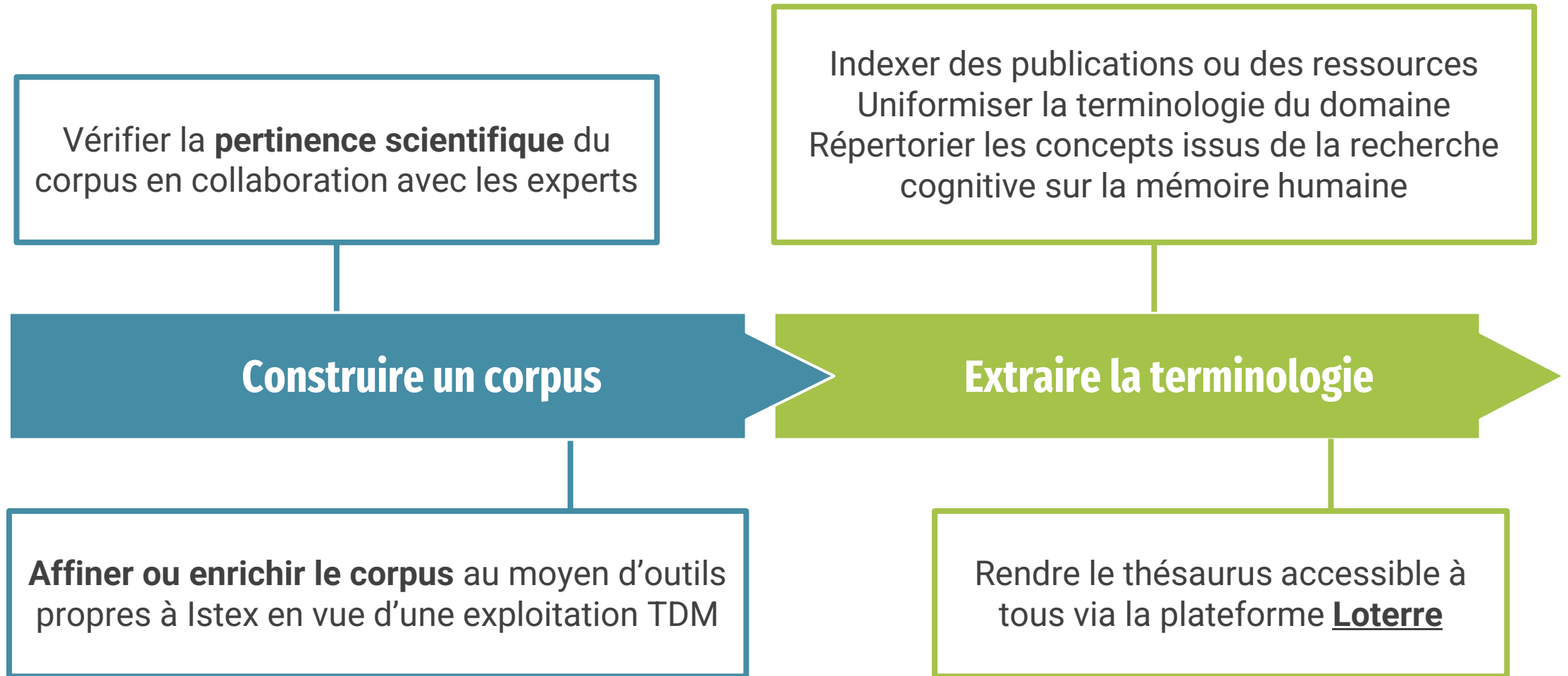
Le corpus *Mémoire-Neurosciences*





Recherche en collaboration avec des chercheurs en **psychologie et en neurosciences** pour constituer un thésaurus sur la mémoire humaine.

# Constitution de corpus | Cas d'usage

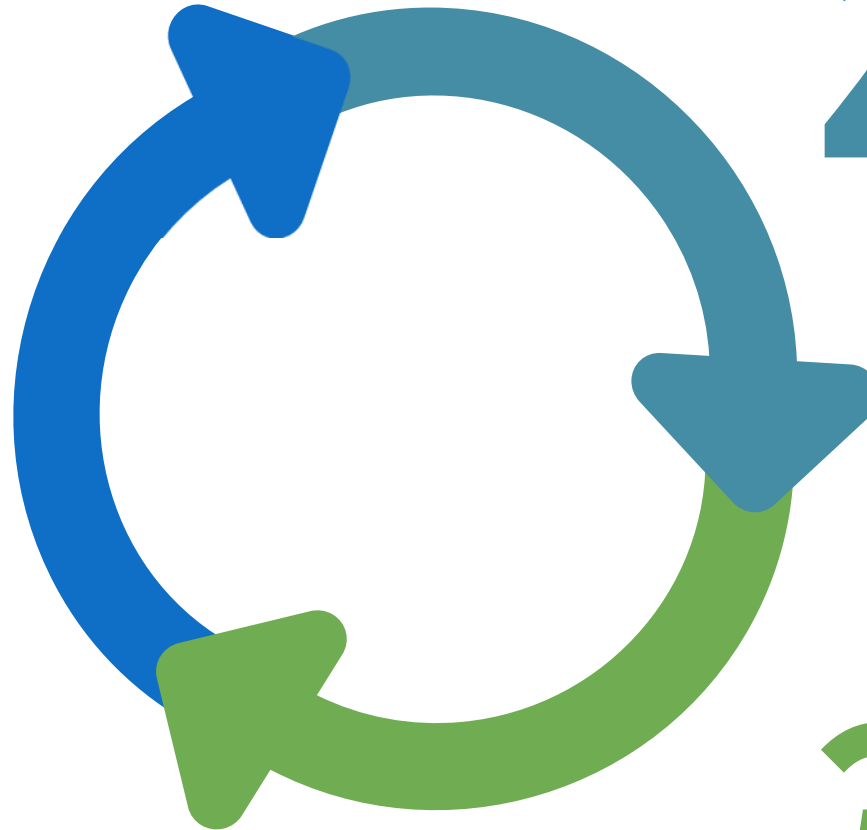


# Constitution de corpus | Méthodologie itérative

(De Salabert & Barreaux, 2020)

**API Istex**  
Interrogation & exploration de l'API grâce au démonstrateur

1



2

**Istex-DL**

Téléchargement des données au format approprié

3

**Lodex**

Visualisation et exploration du corpus

# 1 API Istex

Interrogation & exploration de l'API  
grâce au démonstrateur

# Constitution de corpus | Le démonstrateur

<https://demo.istex.fr>

Bienvenue sur le démonstrateur IStEX

[En savoir plus](#)

mémoire

Requête `https://api.istex.fr/document/?q=m%C3%A9moire&facet=corpusName[*]&size=10&rankBy=qualityOverRelevance&output=*&stats`

Affinage des résultats :

Corpus

- Corpus
- Type de publication 392
- Date de publication 521
- Langue 157
- Types d'enrichissement 759
- Catégorie WOS 120
- Catégorie Science-Metrix 332
- Catégorie Scopus 090
- Catégorie Inist 034
- Qualité
- droz 1851

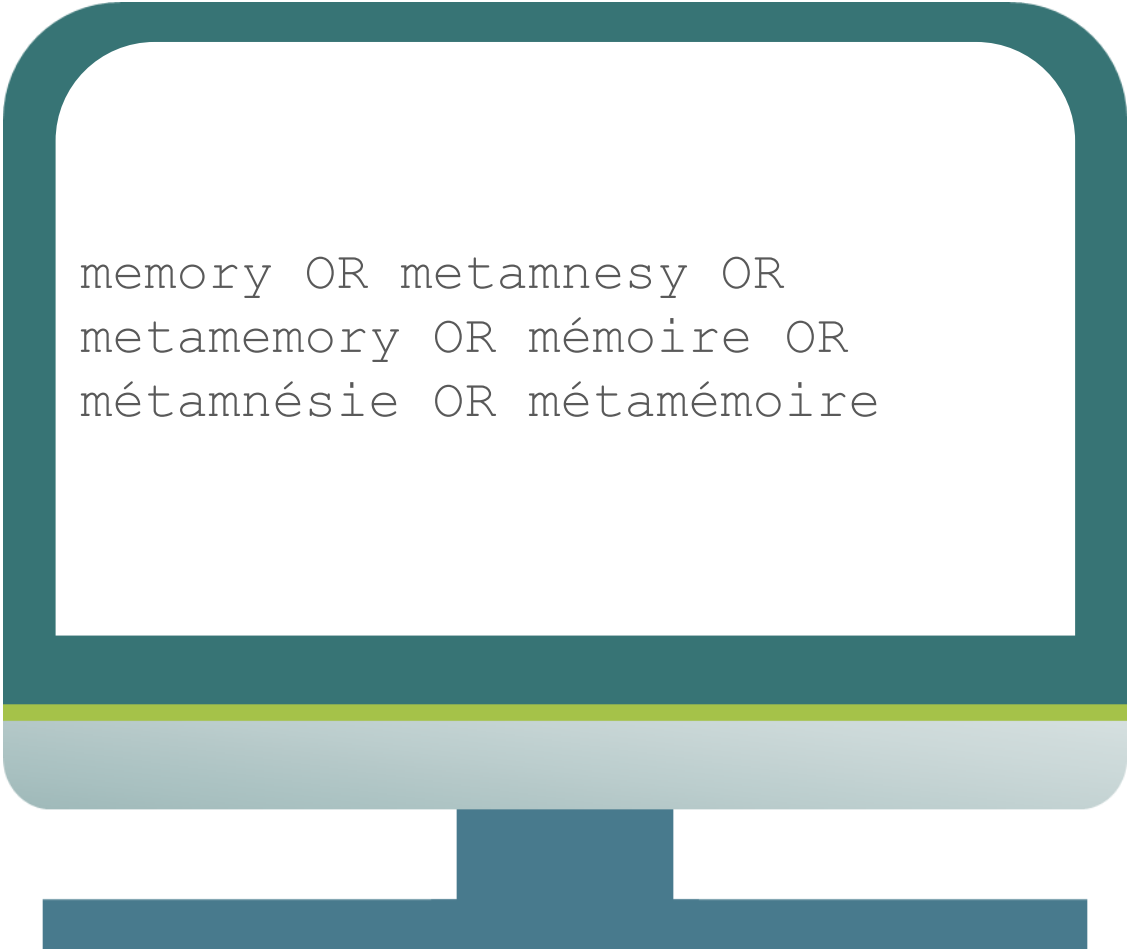
Résultats : 72921 (152 ms)   1 / 7293

### La vie mentie de Michel del Castillo

Dans cet article, je vise à élucider les rapports au lieu culturel espagnol dans un roman de la production tardive de Michel del Castillo (né en 1933), La vie mentie (2007). Il s'agit d'étudier les thématiques de la mémoire du passé et de la culture de l'Espagne. J'aborde deux visions de la culture : culture « atavique » et culture...

Fulltext      
Metadata    
Enrichments

# Constitution de corpus | Requête 1



```
memory OR metannesy OR  
metamemory OR mémoire OR  
métamnésie OR métamémoire
```

## Description

- Liste de mots-clés anglais/français
- Coordonnés par l'opérateur booléen OR
- Insensibilité à la casse mais sensibilité aux diacritiques

## Résultats

- **1 634 300** documents

## Problèmes

- L'opérateur OR équivaut à un espace
- Silence (*mémoires, mémorisation, mémoriser...*)



# Constitution de corpus | Requête 2

```
m?mor* mnesic metanne*  
m?tam?mor* mémoire* mnési*  
mnémo* métannési*
```

## Description

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

## Résultats

- **2 578 670** documents

## Problèmes

- Bruit

# Constitution de corpus | Bruit



## Enfances Familles Générations

Revue interdisciplinaire sur la famille contemporaine

40 | 2022

Familles au temps de la COVID-19

---

### The COVID-19 Pandemic: Global Impacts on Families

*La pandémie de COVID-19 : quelles répercussions sur les familles ?*

*La pandemia de COVID-19: ¿qué impacto tiene en las familias?*

Laurence Charton, Léoni Labrecque and Joseph Josy Lévy

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Mauss, M. 1923. « Essai sur le don. Forme et raison de l'échange dans les sociétés archaïques », *L'Année sociologique*, 1: 30-186.

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.



# Constitution de corpus | Bruit



**Afriques**

Débats, méthodes et terrains d'histoire

13 | 2022

Varia

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## New Studies of the Structure and the Texts of Abba Garima Ethiopian Gospels

*Nouvelles études sur la structure et les textes des évangiles éthiopiens d'Abba Garima*

Sergey Kim

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*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.*

# Constitution de corpus | Bruit



**Revue des mondes musulmans et de la Méditerranée**

152 | 2022

La presse (en) arabe publiée hors de l'aire arabophone

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## Sociohistoire d'*al-Yawm al-sābi'* : une revue panarabe en exil (1984-1991)

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

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

Aya Khalil

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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 Darwich<sup>11</sup>. 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 fraternels donnent à voir une intimité troublante qui remémore le pays natal et dit les déchirements de l'exil. L'événement littéraire que constitue cette relation épistolaire est de ceux qui contribuent de manière significative à la notoriété de la revue, du fait de l'important capital symbolique des poètes. Ramenée au contexte de la première intifada et aux négociations que conduisait Yasser Arafat pour la création d'un État palestinien, la correspondance entre M. Darwich et S. Al-Qasim participe efficacement à la légitimation des revendications palestiniennes.

# Constitution de corpus | Requête 3

```
title:(m?mor* mnesic metanne*  
m?tam?mor* mémoire* mnési*  
mnémo* métannési*)
```

## Description

- Cibler le champ interrogé *title*, les noms de champs sont introduit par :

## Résultats

- **81 827** documents

## Problèmes

- Bruit

# Constitution de corpus | Bruit



**L'Atelier du Centre de recherches historiques**  
Revue électronique du CRH  
Les thèses du CRH | 2022

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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**

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# Constitution de corpus | Requête 4

```
title:(m?mor* mnesic metanne*  
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")
```

## Description

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

## Résultats

- **19 725** documents

## Problèmes

- Bruit



# Constitution de corpus | Bruit

## ON MEMORY.<sup>1</sup>

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 presume largely upon the knowledge of psychology, which must be more or less common to the members of this Society. The laws of the association of ideas, for example, bear a most important relation to the acquirements of memory, but as I have nothing new to add to what is already known of these laws, it will be unnecessary for me to give formal expression to them here.

me to give formal expression to them here.

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

<sup>1</sup> Read at a meeting of the Neurological Society in December, 1890.

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36

ON MEMORY.

is an indirect conclusion from the observation of the exercise of the faculty in my own mind. I may also say that memory is an undecomposable mode of consciousness; in other words it cannot be analysed into elements which do not presuppose the existence of that which has to be explained. Now our primary knowledge of memory being subjective, and the faculty being an elementary and primary mode of consciousness, the term memory cannot be correctly employed in the explanation of complex objective phenomena. It has been said, for example, that the cicatrix left by an old wound constitutes a memory of the original injury, or that the persistence of this cicatrix shows that the tissue which enters into its formation has a memory of reproducing its like. In this connection we have heard of such an expression as "memory in disease." It might as



# Constitution de corpus | Requête 5

```
title:(m?mor* mnesic metanne*  
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 *]
```

## Description

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

## Résultats

- **12 178** documents

# 2 Istex-DL

Téléchargement des données au format  
approprié grâce à Istex-DL pour *Istex*  
*Download*

# Constitution de corpus | Istex-DL

<https://dl.istex.fr>

The screenshot displays the Istex-DL web interface for corpus constitution, organized into three main steps:

- 1. Requête**: This section allows users to specify the corpus. It features a search bar with the query "brain AND language:fre" and a dropdown menu set to "0" for the number of documents. Below the search bar, there are radio buttons for "Par pertinence & qualité" (selected), "Par pertinence", and "Aléatoirement".
- 2. Usage**: This section offers four usage options, each with a "Choisir cet usage" button:
  - Usage personnalisé**: Labeled "DOC" and "TDM".
  - Lodex**: Labeled "TDM", described as "Analyse graphique / Exploration de corpus".
  - CorText**: Labeled "TDM", described as "Plateforme d'outils / Analyse multidimensionnelle".
  - GarganText**: Labeled "TDM", described as "Plateforme collaborative / Exploration graphique de corpus textuels".
- 3. Téléchargement**: This section includes a "Niveau de compression" dropdown set to "Compression moyenne" and a "Format de l'archive" section with radio buttons for "ZIP" (selected) and "TAR.GZ". A "Télécharger" button is located at the bottom.

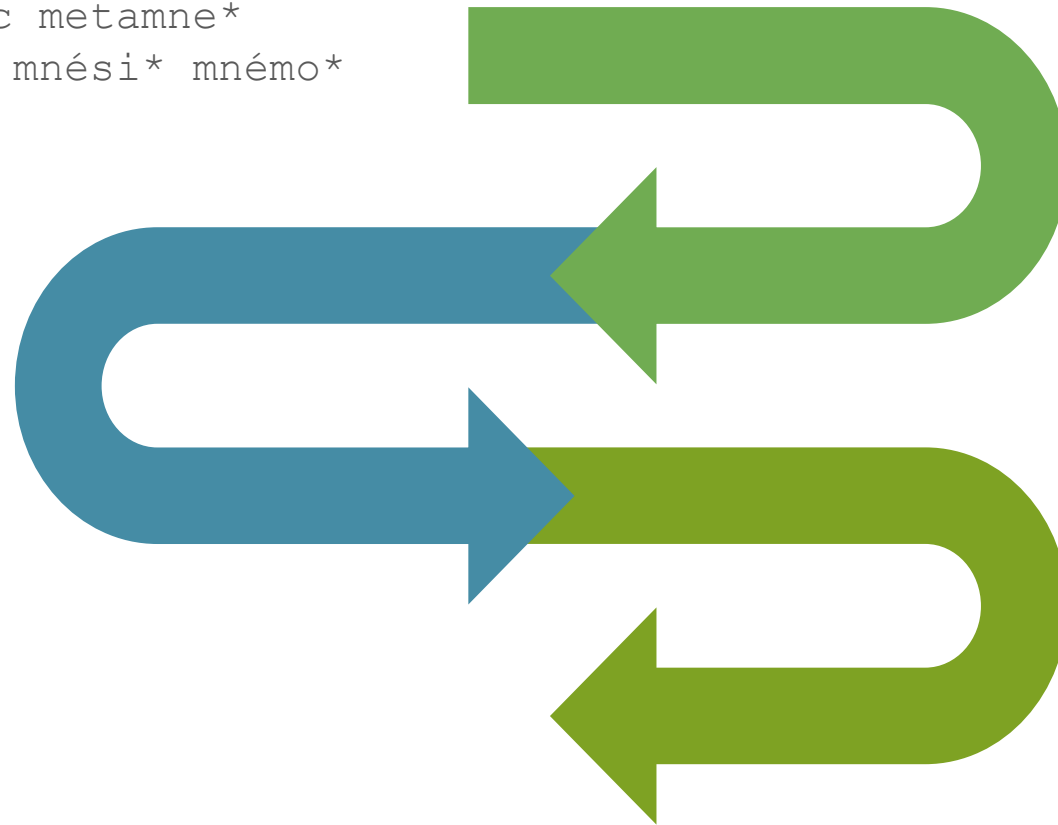
# Constitution de corpus | Istex-DL

## Un téléchargement en 3 étapes

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

### Format

Sélectionner le format ou choisir directement l'outil de TDM utilisé



### Requête

Copier-coller la requête dans la fenêtre équation booléenne

### Téléchargement

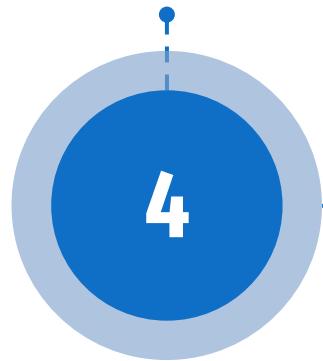
Choisir le taux de compression

# Constitution de corpus | Istex-DL

## Modes de requête

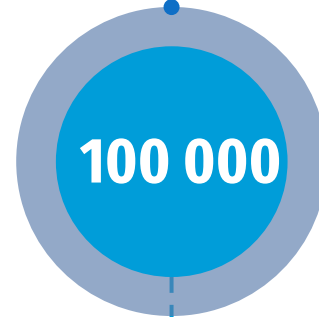
Equation booléenne  
Liste d'identifiants  
Import de fichier  
Recherche assistée

**Formats**  
PDF, TXT, TEI, ...



## Téléchargement massif

Jusqu'à 100 000 documents



## Passerelles

Lodex  
GarganText  
CorText



# 3 Lodex

Visualisation et exploration du corpus  
dans Lodex pour *Linked Open Data*  
*EXperiment*

# Constitution de corpus | Lodex



**Transformer ses données en site web**

À partir de différents formats de données (CSV, JSON, TXT...)



**Explorer ses données**

À l'aide de graphiques, facettes et au travers de données complémentaires



**Enrichir ses données**

Grâce à un catalogue de web-services



**Aligner ses données**

Avec des données similaires ou connexes



**Exporter ses données**

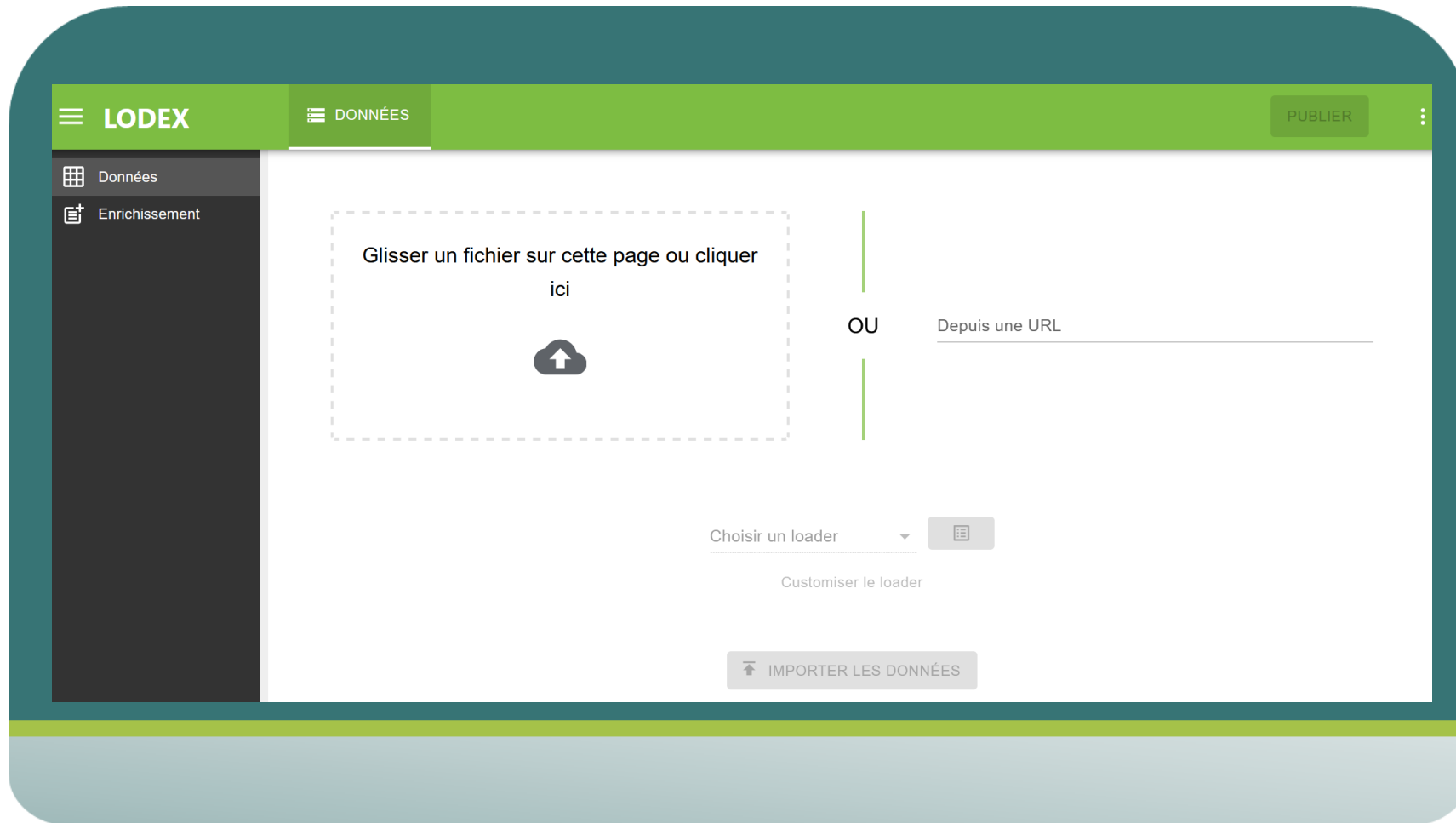
En formats classiques ou du web sémantique



**Attribuer des identifiants pérennes**

ARK

# Constitution de corpus | Lodex





# Constitution de corpus | Lodex

The screenshot displays the LODEX web application interface. At the top, there is a green navigation bar with the 'LODEX' logo, a menu icon, and tabs for 'DONNÉES' and 'AFFICHAGE'. A 'DÉPUBLIER' button is visible on the right. A left sidebar contains options for 'Données', 'Enrichissement', and 'Ressources cachées'. The main content area shows a table with columns for 'uri', 'Titre', 'Auteur(s)', 'Affiliation(s)', 'Revue ou m...', 'Auteur(s) monog...', and 'ISSN'. The table lists several research entries with their respective URIs, titles, authors, affiliations, and ISSN numbers.

uri	Titre	Auteur(s)	Affiliation(s)	Revue ou m...	Auteur(s) monog...	ISSN	e-
"ark:/67375/6H6-0VNV	"Consolidation of temp	["H. Griessenberger",]	["Laboratory for Sleep	"Biological Psychology	[]	"0301-0511"	
"ark:/67375/6H6-2X51	"Brain imaging correla	["Elisabeth A. Wilde",]	["Physical Medicine a	"International Journal	[]	"0167-8760"	
"ark:/67375/6H6-12C8	"P3 response during s	["Mehmet Ergen", "Ero	["Department of Phys	"International Journal	[]	"0167-8760"	
"ark:/67375/6H6-SCKI	"A frequency band an	["Kimberly Cuevas", "V	["Department of Psyc	"International Journal	[]	"0167-8760"	
"ark:/67375/6H6-F4DN	"Blood CADPS2ΔExor	["Kotaro Hattori", "Haru	["Department of Ment	"Biological Psychology	[]	"0301-0511"	
"ark:/67375/6H6-PG7L	"Contextual recognitio	["Márcio Silveira Corrê	["Neurobiology and D	"Biological Psychology	[]	"0301-0511"	
"ark:/67375/6H6-8M0\	"Working memory of s	["Nicoletta Savini", "Me	["Department of Neur	"International Journal	[]	"0167-8760"	
"ark:/67375/6H6-WTX	"Prefrontal, parietal ar	["Jan Van Hecke", "Thc	["CAPRI Collaborative	"Biological Psychology	[]	"0301-0511"	

# Constitution de corpus | Visualisation du corpus

<https://memoire-tdmv1.formation.lodex.fr>

The screenshot shows a web page for the 'Mémoire-Neuroscience' corpus. At the top left is the title 'Mémoire-Neuroscience' in green, and at the top right is the CNRS logo. Below the title is the subtitle 'Psychologie et neurosciences de la mémoire'. A central image of a human brain is shown on the left, with a caption 'Image par Colleen de Pixabay.' below it. To the right of the brain is a paragraph of text describing the corpus's purpose: 'Le corpus *Mémoire Neuroscience* contient des publications *lstex* relatives à la mémoire d'un point de vue cognitif. Son but est de permettre la construction d'une terminologie bilingue (français/anglais) standardisée afin d'indexer des publications ou des ressources et d'uniformiser la terminologie du domaine. Il permettra de répertorier les concepts issus de la recherche cognitive sur la mémoire humaine (systèmes et processus mnésiques, effets empiriques, troubles de la mémoire, méthodes d'étude et mesures, théories et modèles)'. Below this text is a section titled 'Quelques chiffres' (Some figures) which contains three statistics: 'Documents' (12 178), 'Auteurs' (36 096), and 'Mots' (95 452 471). Each statistic is accompanied by a small icon: a document for documents, a group of people for authors, and a letter 'T' in a box for words.

## Mémoire-Neuroscience

Psychologie et neurosciences de la mémoire

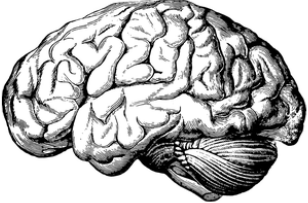





Image par Colleen de Pixabay.

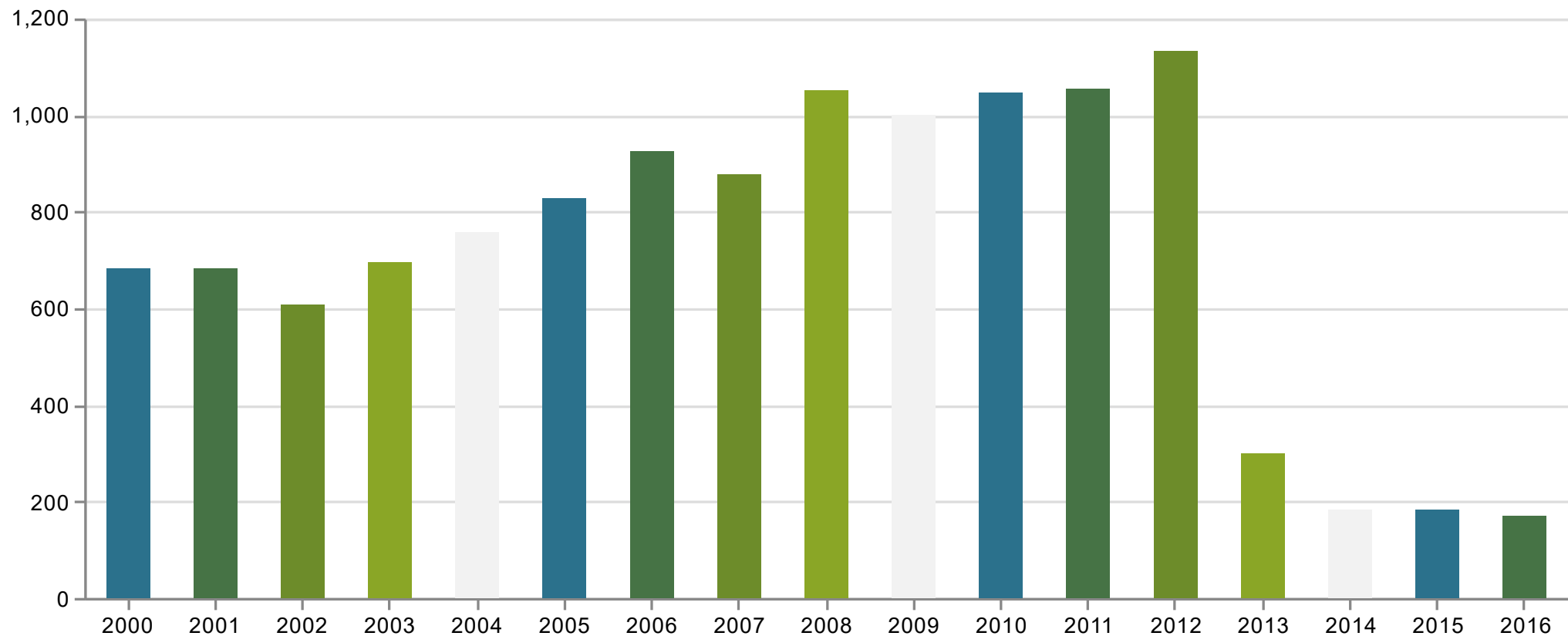
Le corpus *Mémoire Neuroscience* contient des publications *lstex* relatives à la mémoire d'un point de vue cognitif. Son but est de permettre la construction d'une terminologie bilingue (français/anglais) standardisée afin d'indexer des publications ou des ressources et d'uniformiser la terminologie du domaine. Il permettra de répertorier les concepts issus de la recherche cognitive sur la mémoire humaine (systèmes et processus mnésiques, effets empiriques, troubles de la mémoire, méthodes d'étude et mesures, théories et modèles).

### Quelques chiffres

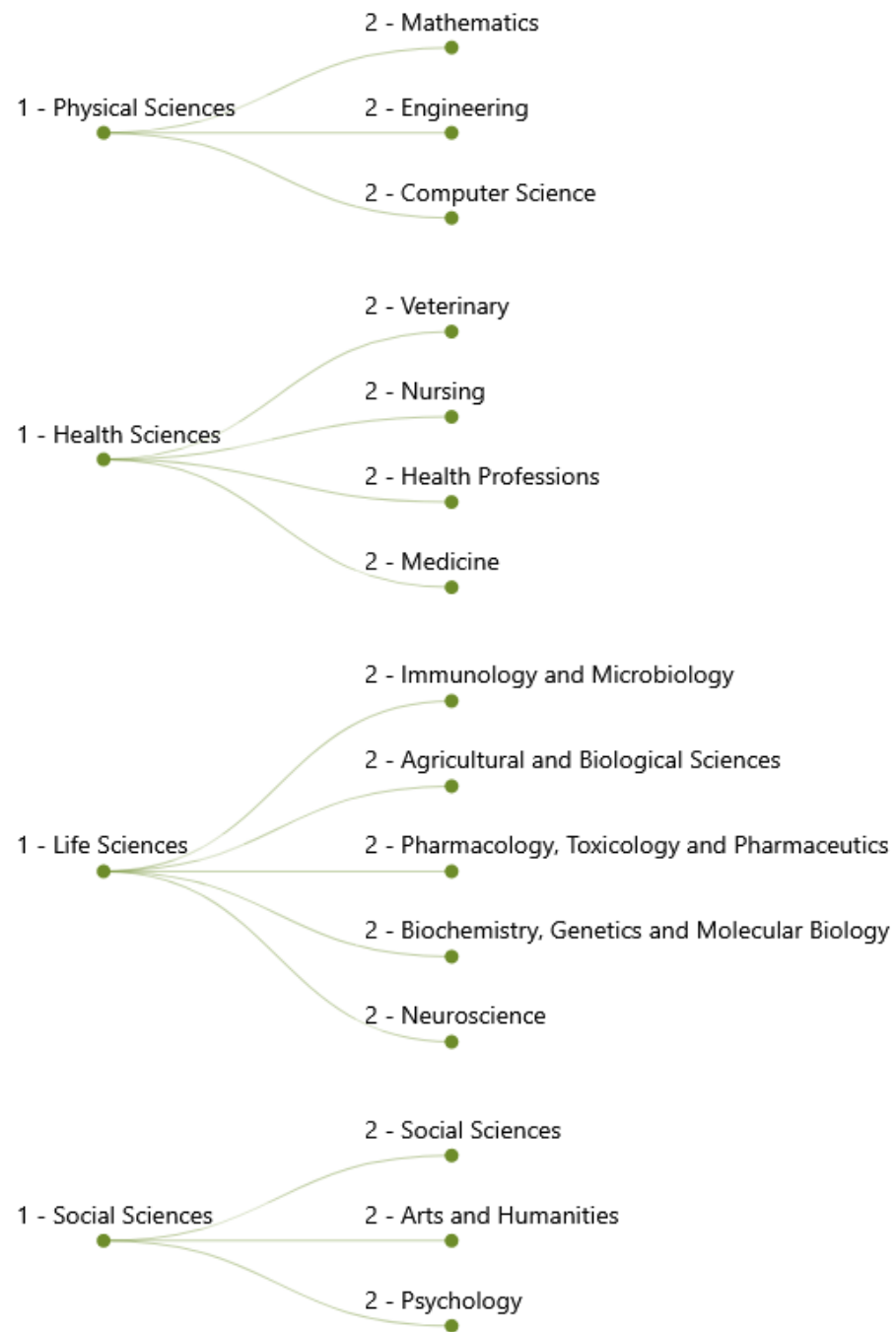
 Documents	 Auteurs	 Mots
12 178	36 096	95 452 471

# Constitution de corpus | Exploration du corpus

## Années de publication

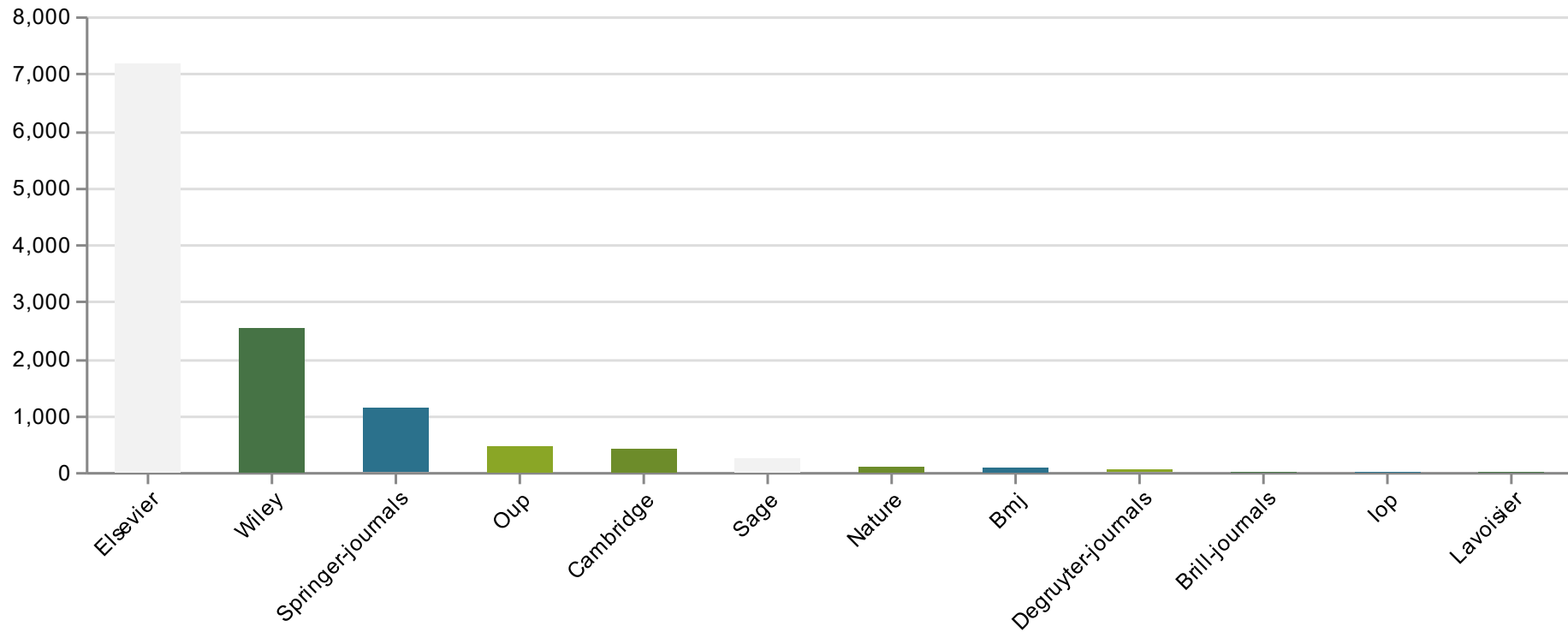


# Catégories Scopus



# Constitution de corpus | Exploration du corpus

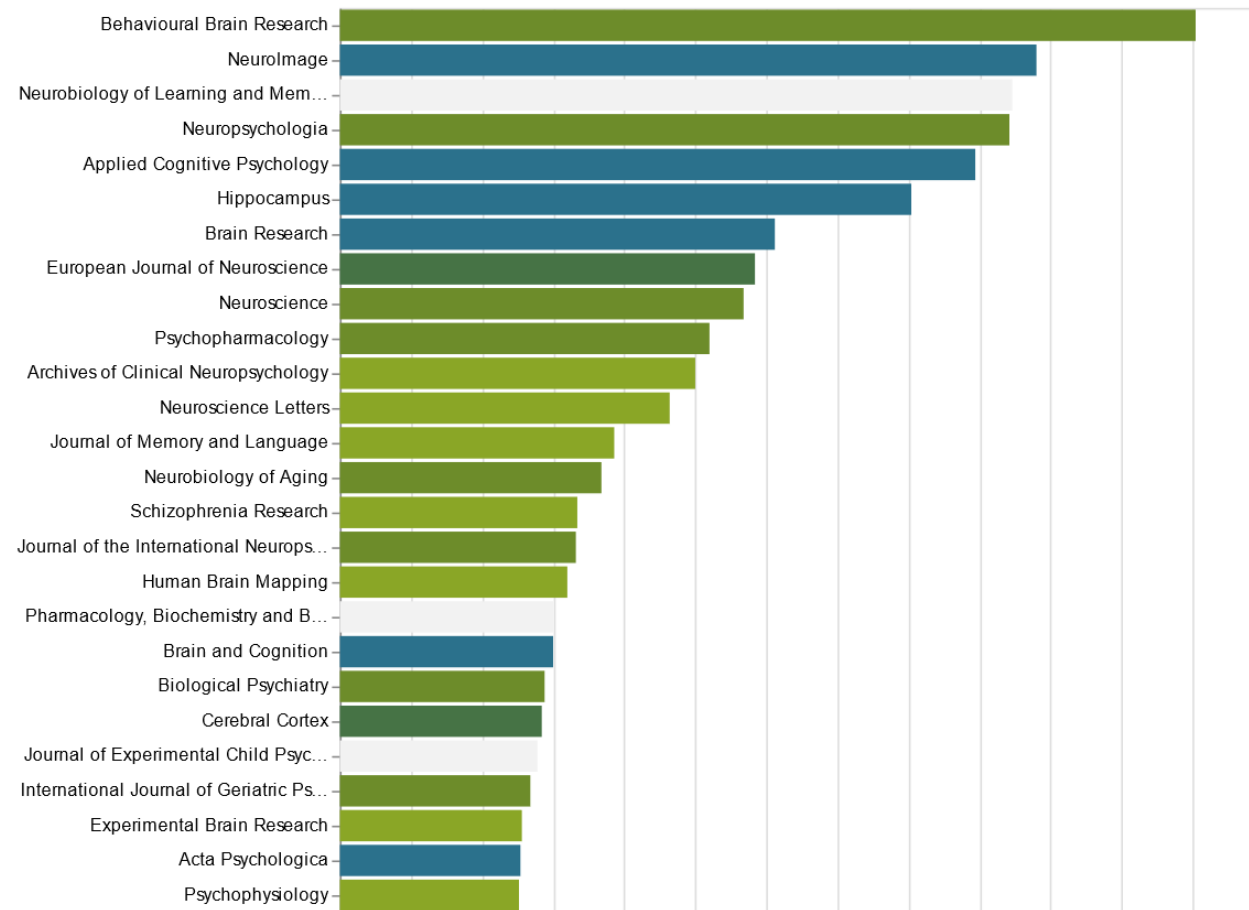
## Éditeurs





# Constitution de corpus | Exploration du corpus

## Revue



# Constitution de corpus | Exploration du corpus

## Revue d'éthologie

Revue / Monographie (3) ^

exclure

animal

VALEUR ↑ COMPTER

TOUT COCHER

- |   |    |
|---|----|
| <input type="checkbox"/> Animal Behaviour                 | 39 |
| <input type="checkbox"/> Animal Cognition                 | 51 |
| <input type="checkbox"/> Applied Animal Behaviour Science | 7  |



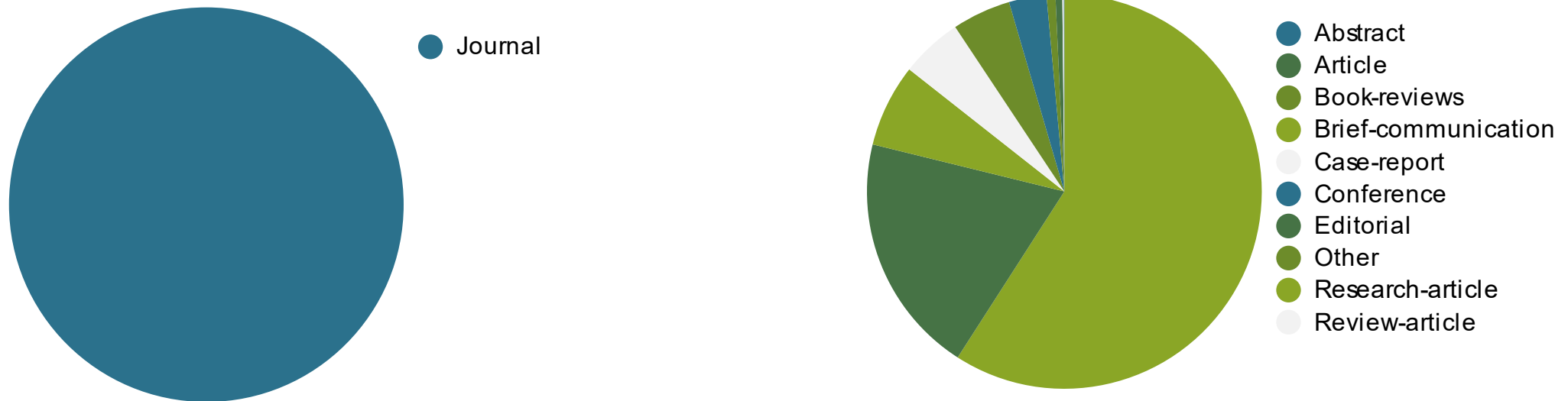
VOLUME 265 AUGUST 2023 ISSN 0168-1501





# Constitution de corpus | Exploration du corpus

## Types de publication et types de document



# Constitution de corpus | Exploration du corpus

*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. His intellectual contributions were sustained and of high



## À la mémoire de Betty Havens 9 octobre 1936 au 1<sup>er</sup> mars 2005

Marcia Finlayson,<sup>1</sup> Neena Chappell,<sup>2</sup> and Lynn McDonald<sup>3</sup>

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



Lorsque Betty Havens est décédée, le 1<sup>er</sup> 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 clin d'œil. Nous sommes reconnaissants du privi-

lège qui nous a été offert de partager une partie de son existence.

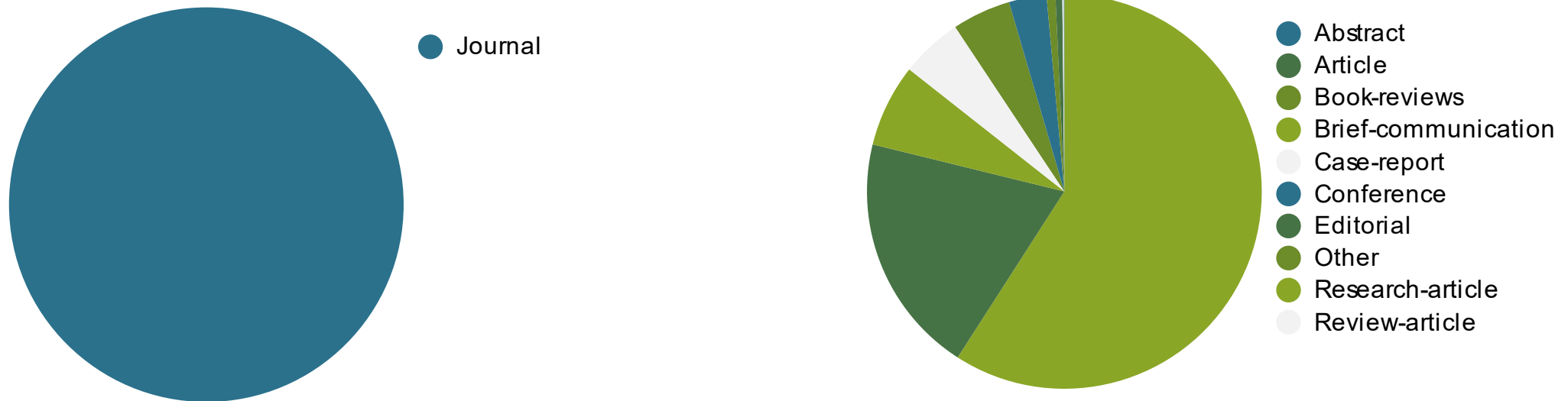
La vie de Betty avait de nombreuses facettes, mais relativement peu d'entre nous ont vraiment eu la chance de connaître et d'apprécier pleinement tout ce qu'elle avait à offrir. Nous espérons qu'en participant à cette cérémonie à sa mémoire ainsi qu'en mettant en commun nos divers souvenirs au sujet de Betty et de son travail, nous pourrions permettre aux autres de

Nous connaissons son engagement et son empressément 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 au Manitoba » disait-elle. Elle rayonnait de fierté; sa chaleur était palpable. Son intérêt très poussé pour la pratique et ma réceptivité envers la recherche appliquée constituaient une combinaison parfaite, bien que le monde de la recherche ne soit pas encore prêt à encourager de telles recherches multidisciplinaires axées sur le monde réel. Elle considérait l'université comme son lieu de travail le moins approprié; le gouvernement constituait la base à

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## Types de publication et types de document



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Proceedings of the NASS 23rd Annual Meeting / The Spine Journal 8 (2008) 1S-191S

149S

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

doi:10.1016/j.spinee.2008.06.343

**P99. The Association Between Prevalent Neck Pain and Health-related Quality of Life: A Cross-sectional Analysis**  
 Mana Rezaei, DC, MHS<sup>1</sup>, Pierre Côté, DC, PhD<sup>1</sup>, J. David Cassidy, DC, PhD, DrMedSc<sup>1</sup>, Linda Carroll, PhD<sup>2</sup>, <sup>1</sup>Centre of Research Expertise in Improved Disability Outcomes (CREIDO), University Health Network; Department of Public Health Sciences, University of Toronto, Toronto, Ontario, Canada; <sup>2</sup>Department 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 (HRQoL) 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 HRQoL 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 neck pain and HRQoL. Compared to individuals without neck pain, those with Grades III-IV neck pain had significantly lower physical (mean difference=-13.9/100; 95% CI=-16.4,-11.3) and mental (mean difference=-10.8/100; 95% CI=-13.6,-8.1) HRQoL. Controlling for covariates greatly reduced the strength of association between neck pain and physical HRQoL, and accounted for the observed association between neck pain and mental HRQoL.

**P100. Shape Memory Metal Rods Tested in a Porcine Model: Single Rod Constructs Result in Greater Deformity at One Week**  
 Peter Newton, MD<sup>1</sup>, Bart Yaszy, MD<sup>1</sup>, Christine Farnsworth, MS<sup>1</sup>, Vidyadhar Upasani, MD<sup>2</sup>, Reid Chambers, BA<sup>1</sup>, Seung Hwan Yoon, MD, PhD<sup>1</sup>, Paul Firkins, MS<sup>3</sup>, <sup>1</sup>Rady Children's Hospital and Health Center, San Diego, CA, USA; <sup>2</sup>University of California, San Diego, San Diego, CA, USA; <sup>3</sup>DePuy Spine, Le Locle, 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) / 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.

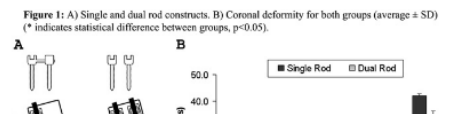
**STUDY DESIGN/ SETTING:** In vivo animal study.

**OUTCOME MEASURES:** Deformity creation between 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°±6° vs 28°±4°, p=0.95). One week following rod placement, however, coronal deformity in the single rod group progressed to 42°±1°, 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/screw 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.



## 710 CIRCADIAN RHYTHM DISTURBANCES IN ADVANCED DEMENTIA: DIAGNOSTIC SPECIFICITY

David G Harper, McLean Hosp, Harvard Med Sch, Belmont, MA; Edward G Stopa, Rhode Island Hosp, Brown Univ Sch of Medicine, Providence, RI; Ann C McKee, E N Rogers Mem Veterans Hosp, B U Sch of Medicine, Boston, MA; Andrew Sartin, McLean Hosp, Harvard Med Sch, Belmont, MA; Patricia C Harlan, Rachel L Goldstein, McLean Hosp, Belmont, MA; Ladislav Volker, E N Rogers Mem Veterans Hosp, B U Sch of Medicine, Bedford, MA

Many of the noncognitive symptoms of dementia (sleep disturbance, sundowning) may have their root in abnormalities of the circadian timing system. Previous studies we 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). Twenty-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 chronobiological underpinning. The origin and expression of these disturbances however appear to be distinct between the two diagnoses.

Diagnosis	T phase (hours)	Act phase (hours)	Goodness-of-fit
Controls	15.2 ± 0.7	13.6 ± 1.2	0.52 ± 0.04
AD	17.9 ± 0.4	16.9 ± 0.8	0.52 ± 0.03
FTD	15.9 ± 0.7	10.4 ± 1.2	0.38 ± 0.04

All values reported as means ± S.E.

## 711 NEUROCHEMICAL AND BEHAVIORAL ALTERATIONS INDUCED IN MICE BY CENTRALLY ADMINISTERED CARBOXYL-TERMINAL FRAGMENT OF β-AMYLOID PRECURSOR PROTEIN.

Cheol Hyoung Park, Se Hoon Choi, Yoo-Hun Suh, Dept of Pharmacol., Coll of Med., Seoul National Univ., Seoul South Korea

We have previously shown that the C-terminal fragment (CT) of β-amyloid precursor protein (APP) 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 7 days following a single intracerebroventricular injection of recombinant 105-amino acid CT (CT105; 342 and 685 pmol) to mice. We also quantified the changes in acetylcholine (ACh) level of cortex and hippocampus. Mice that received CT105 revealed significant decrease in ACh level in cortex and hippocampus compared with saline treated group. Spatial learning and memory was impaired significantly by CT 105 in dose-dependent manner. These results suggest that learning and memory impairment induced by centrally administered CT 105 is in some way related to neurochemical alteration.

## 712 EFFECTS OF CORTISOL ON COGNITION AND FDG-PET IN HEALTHY YOUNG AND OLD SUBJECTS

Oliver T Wolf, Antonio Convit, Emad Kandil, Elissa L Thorne, Susan De Santi, Mary J de Leon, NYU Sch of Medicine, New York, NY

Elevated cortisol levels are observed in most patients with Alzheimer's disease (AD). Previous cognitive studies in young subjects reported cortisol related reductions in

men participated in the present placebo controlled double blind crossover study. Subjects received 0.5 mg/kg cortisol or placebo iv. 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 treatment 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 retrieval 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 a measure of short-term memory, which is at least in part mediated by the frontal lobes is impaired by cortisol only in young subjects. Our findings suggest that during healthy aging the hippocampus, but not the frontal lobes, retains its sensitivity to the effects of cortisol. The cognitive findings predict, that a cortisol challenge in young subjects during FDG-PET 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 challenges in the assessment of functional brain aging.

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

Vitaly Feodor Fokin, Natalia Vasilievna Ponomareva, Brain Research Institute, Moscow Russia; Olga Aleksandrovna Pavlova, Research Ctr of Mental Health, Moscow Russia; Oleg Nikolai Orlow, Research Ctr 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 of brain is provided using the mechanisms similar to that in stress reactions. 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 characteristic of brain oxidative processes. The cortisol level in peripheral blood and the level of lipid peroxidation were evaluated. There is significant correlation between the cortisol level in peripheral blood and level of DC potentials in elderly subjects. In normal aging average DC potential correlates with the subclinical exhibition of psychopathological symptoms. In DAT patients the significant increase of DC potentials and less remarkable increase of cortisol 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 progress of the disease. Thus the pathological ways of intensification of energy processes are essential for normal and pathological aging and their regulation is feasible target for prevention and therapeutics of DAT.

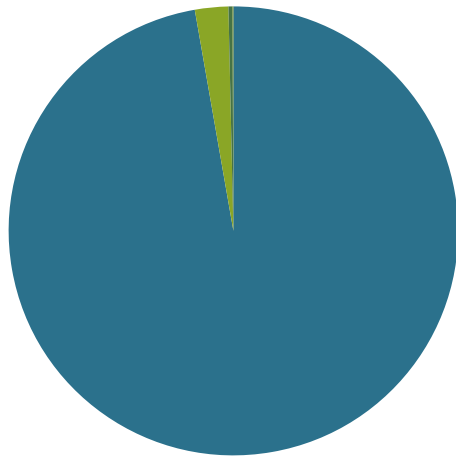
## 714 A DIFFERENTIAL MEMORY PROFILE IN PATIENTS WITH SUBJECTIVE MEMORY COMPLAINTS AND NORMAL MMSE SCORE: DEPRESSION OR COGNITIVE DECLINE?

Jaime Kulisevsky, Service of Neurology, 08025 Barcelona Spain; Anuncia Boltes, Pilar Otermer, Ester Gonzalez, Armando Estevez-Gonzalez

**OBJECTIVE:** To determine whether depressive symptoms influence particular aspects of memory performance in patients with subjective memory complaints. **BACKGROUND:** In individuals with otherwise normal MMSE, subjective memory complaints may predict dementia. Depressive symptoms, however, 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 more probably linked to depressive symptoms. **DESIGN/METHODS:** Seventy-three nondemented subjects with subjective memory complaints, without antecedents of neurologic illness and MMSE score > 26 were assessed with a comprehensive memory battery and other cognitive functions, and the GDSS, a sensitive indicator (greater than 90%) of depressive illness. Fifty subjects were selected and memory performance was analyzed in two groups. Group-1: 26 subjects (13M:13F) with MMSE score of 27-30 (mean 28.6) and GDSS < 10 (mean 5.8). Group-2: 25 subjects (11M:14F) with MMSE score of 27-30 (mean 28.3) and GDSS > 14 (mean 19.5). There were no significant differences between groups on age (mean 65.6), years of education (mean 8.2) and

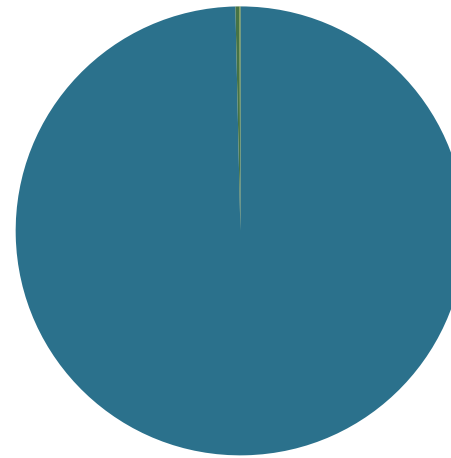
# Constitution de corpus | Exploration du corpus

## Langues



● eng  
● fre  
● ger  
● unknown

## Langues issues du web-service



● eng  
● fre  
● ger

# Constitution de corpus | Bilan



01

**Reuves**

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



02

**Types de  
documents**

```
NOT title:("in  
memoriam" "à la mémoire  
de") NOT genre:abstract
```



03

**Langues**

```
NOT language:ger
```



```
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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 *]
```

Corpus v1

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m?tam?mor* mémoire* mnési* mnémo*
métamnési*) AND categories.wos.raw:("2
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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
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Behaviour" "Applied Animal Behaviour
Science") NOT title:("in memoriam" "à
la mémoire de") NOT genre:abstract NOT
language:ger
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Corpus v2

# Constitution de corpus | Téléchargement V2

<https://dl.istex.fr>

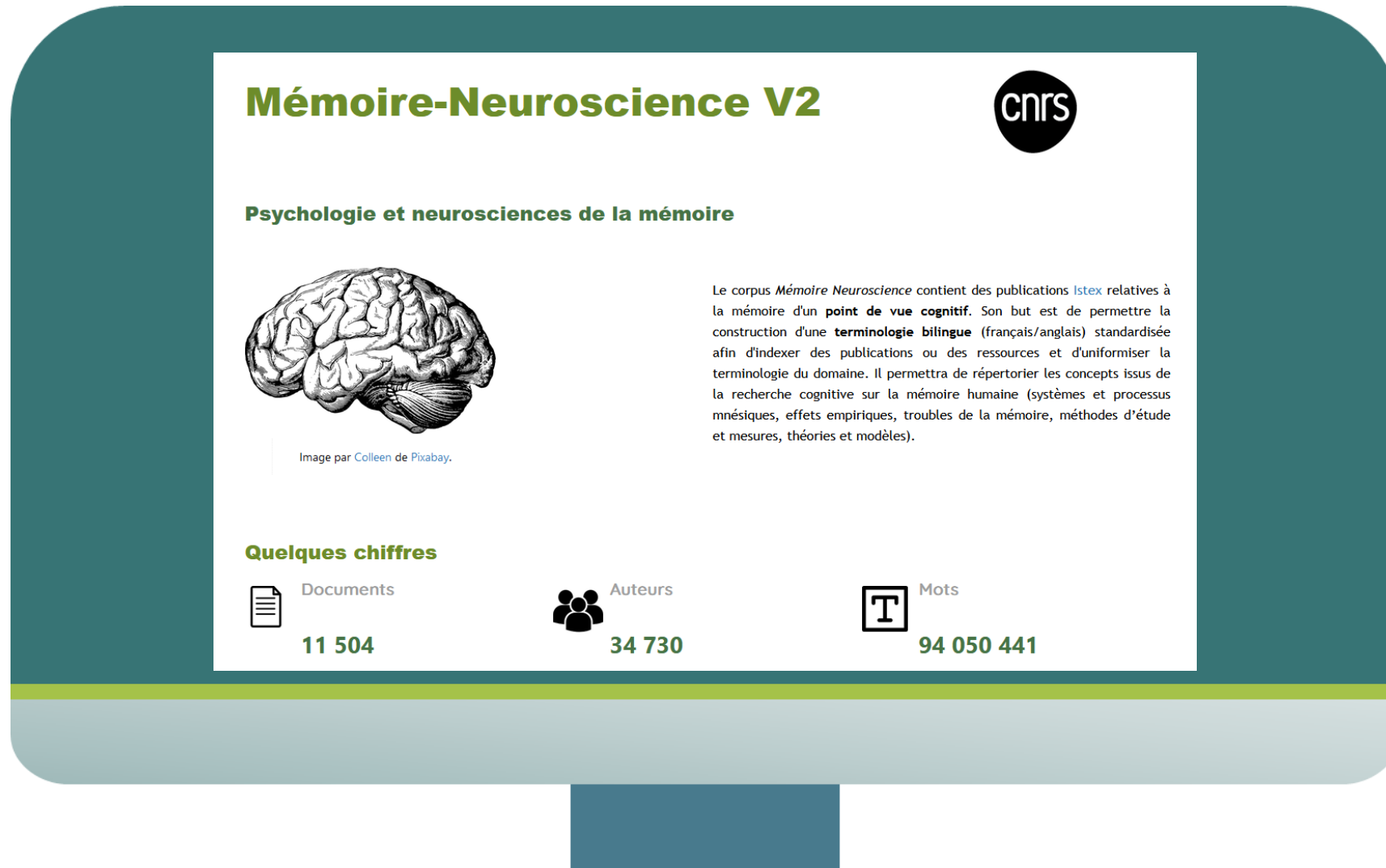
The screenshot displays the DL.ISTEX V2 web interface for corpus constitution and download, organized into three main steps:

- 1. Requête**: This section allows users to define their search criteria. It includes tabs for 'Equation booléenne' (selected), 'Liste d'identifiants', 'Import de fichier', and 'Recherche assistée'. A search box contains the query 'brain AND language:fre'. Below the search box, there is a control for the number of documents (set to 0) and radio buttons to select document classification criteria: 'Par pertinence & qualité' (selected), 'Par pertinence', and 'Aléatoirement'.
- 2. Usage**: This section presents four usage options, each with a 'DOC' or 'TDM' label and a 'Choisir cet usage' button:
  - Usage personnalisé** (DOC)
  - Lodex** (TDM): Analyse graphique / Exploration de corpus
  - CorText** (TDM): Plateforme d'outils / Analyse multidimensionnelle
  - GarganText** (TDM): Plateforme collaborative / Exploration graphique de corpus textuels
- 3. Téléchargement**: This final step allows users to choose the download format. It includes a dropdown for 'Niveau de compression' (set to 'Compression moyenne') and radio buttons for 'Format de l'archive': 'ZIP' (selected) and 'TAR.GZ'. A 'Télécharger' button is located at the bottom of this section.




# Constitution de corpus | Visualisation du corpus V2

<https://memoire-tdmv2.formation.lodex.fr>



## Mémoire-Neuroscience V2



### Psychologie et neurosciences de la mémoire

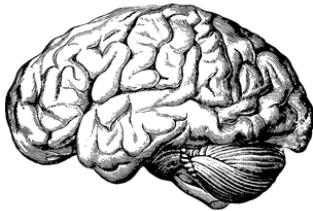





Image par Colleen de Pixabay.

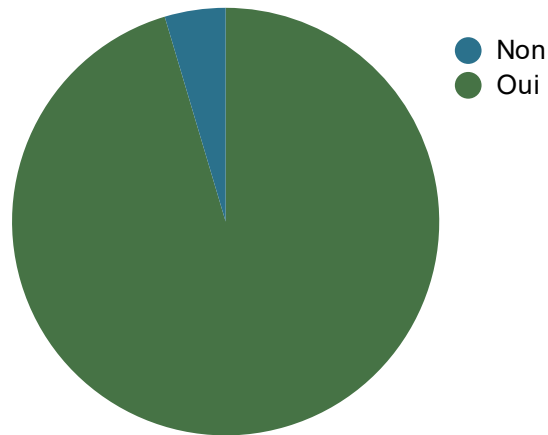
Le corpus *Mémoire Neuroscience* contient des publications [Istex](#) relatives à la mémoire d'un **point de vue cognitif**. Son but est de permettre la construction d'une **terminologie bilingue** (français/anglais) standardisée afin d'indexer des publications ou des ressources et d'uniformiser la terminologie du domaine. Il permettra de répertorier les concepts issus de la recherche cognitive sur la mémoire humaine (systèmes et processus mnésiques, effets empiriques, troubles de la mémoire, méthodes d'étude et mesures, théories et modèles).

#### Quelques chiffres

 Documents	 Auteurs	 Mots
11 504	34 730	94 050 441

# Constitution de corpus | Exploration du corpus v2

## Présence d'un résumé



### Constat

- **530** documents n'ont pas de résumé (5%)

### Procédures & outils

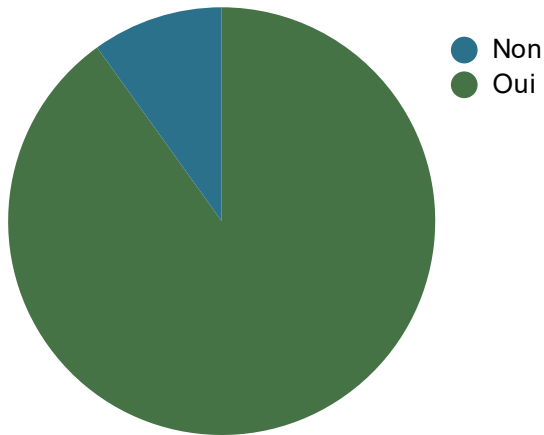
- **Teeft** : indexation non supervisée pour extraire les termes les plus spécifiques d'un contenu scientifique
- **GarganText** : plateforme collaborative d'exploration graphique de corpus

### Requête révisée

AND abstract:\*

# Constitution de corpus | Exploration du corpus v2

## Présence de texte nettoyé



### Constat

- 1 141 documents n'ont pas de texte nettoyé (10%)

### 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

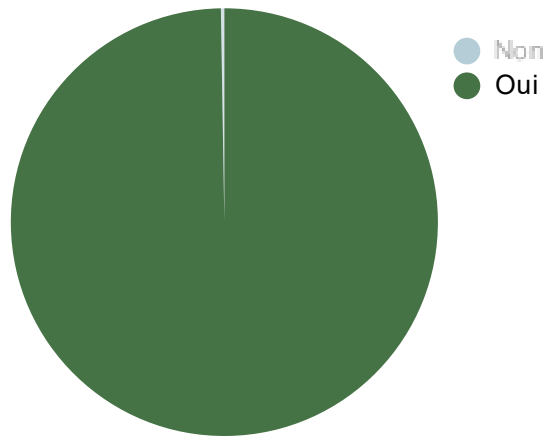
### Requête révisée

AND

```
qualityIndicators.tdmReady:true
```

# Constitution de corpus | Exploration du corpus v2

## Présence de PDF texte



### Constat

- **30** documents n'ont pas de PDF texte (0,3%), potentiellement de type PDF image

### Procédures & outils

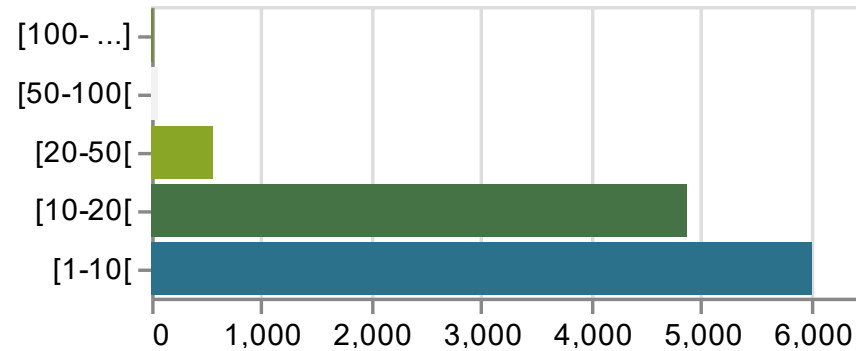
- Transformer le PDF en texte avant l'intégration dans l'outil souhaité

### Requête révisée

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# Constitution de corpus | Exploration du corpus v2

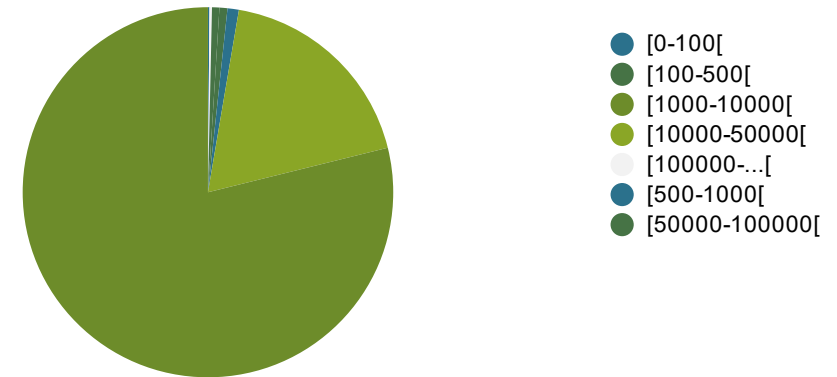
## Nombre de pages du PDF



### Constat

- 11 documents comportent plus de 100 pages (0,1%)
- 25 documents possèdent plus de 100 000 mots (0,2%)

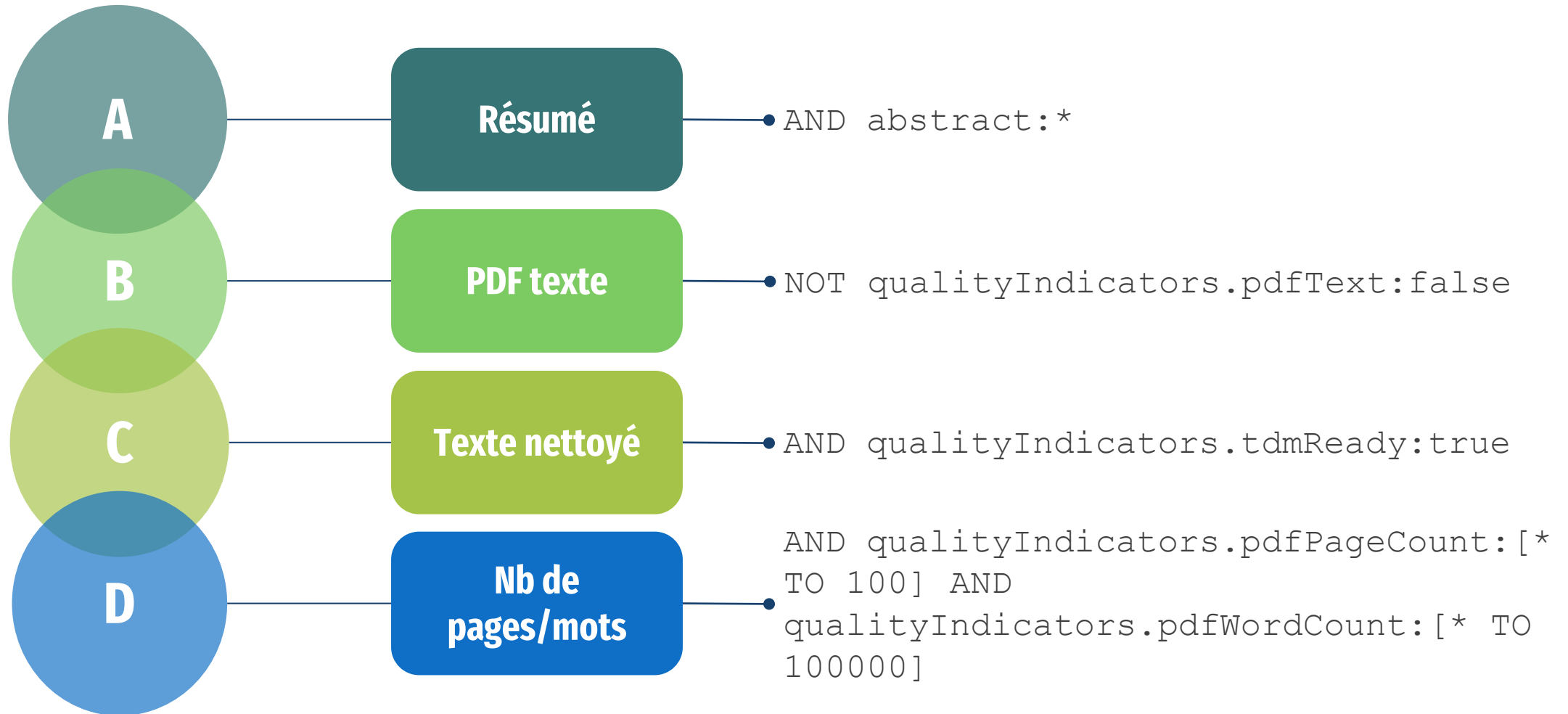
## Nombre de mots du PDF



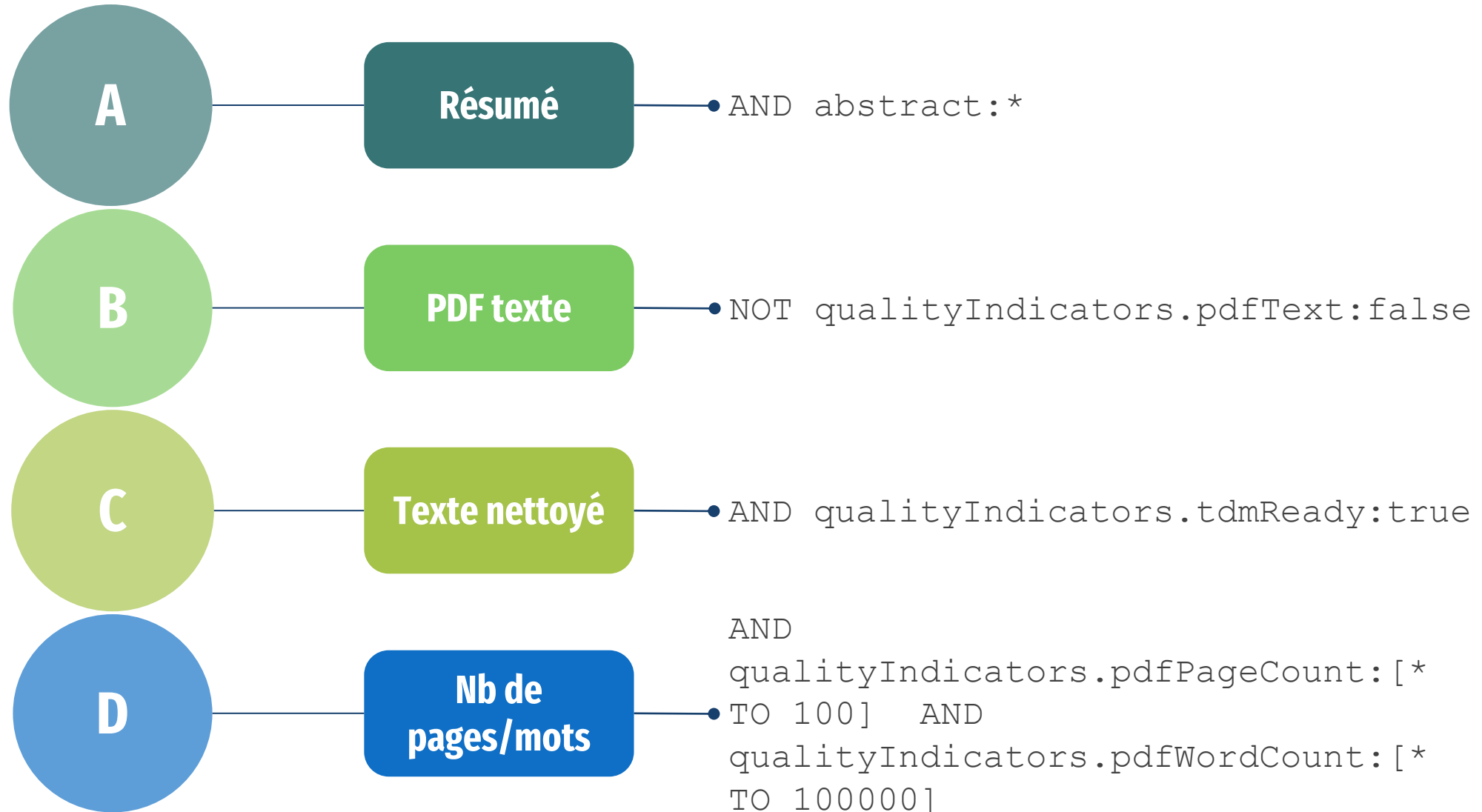
### Requête révisée

```
AND  
qualityIndicators.pdfPageCount:[* TO 100]  
AND  
qualityIndicators.pdfWordCount:[* TO 100000]
```

# Constitution de corpus | Approche globale



# Constitution de corpus | Approche hybride



# Conclusion



# Conclusion

## Istex

- Réservoir de plus de 27,5M de publications multilingues et multidisciplinaires
- Données apprêtées pour le TDM (enrichies, multi-formats)
- À venir : Elsevier 2013, EDP Sciences 2022

## Outils dédiés au TDM

- Istex-DL permet de télécharger massivement des documents pour concevoir facilement un corpus
- Lodex offre de visualiser son corpus, pour l'explorer, l'affiner et l'enrichir
- À venir : une nouvelle version d'Istex-DL



ISTEX

# Adresses utiles



## Se connecter

Istex : <http://www.istex.fr>

Démonstrateur Istex : <http://demo.istex.fr>

Application Istex-DL : <https://dl.istex.fr>

Données Istex : <https://data.istex.fr>

Infos Lodex : <https://lodex.inist.fr>

Objectif TDM : <https://objectif-tdm.inist.fr>

## S'authentifier

Vérifier ses droits d'accès : <https://api.istex.fr/auth>

# Documentation & Tutoriels



## Se documenter

Documentation Usage TDM d'Istex : <https://doc.istex.fr/tdm>

Documentation API Istex : <https://doc.istex.fr/api>

Documentation LODEX : <https://lodex.inist.fr/docs>

## Se former

Tutos API Istex & Istex-DL : <https://istex-tutorial.data.istex.fr>

Tutos LODEX : <https://user-tutorials.lodex.inist.fr>

# Informations & Contact



## Se tenir informé

Article d'actualité : <https://www.istex.fr/category/actualites/>

Plateforme X : @ISTEX\_Platform

## Chercher de l'aide / Contribuer à l'amélioration

Via le formulaire : <https://www.istex.fr/contact/>

Via la liste : [contact@listes.istex.fr](mailto:contact@listes.istex.fr)

Liste de discussion (publique) : [users@listes.istex.fr](mailto:users@listes.istex.fr)