

Invenio @ HGF JuSER

June 15, 2013 | Alexander Wagner |

Overview



- History
- Basic Usage
- Installation
- Backend

Invenio @ HGF

Part I: History

June 15, 2013 | Alexander Wagner

VDB and JUWEL

Publications database **VDB**:

- Centralized database of the scientific output
- > 62.000 entries from ≈ 13 years ($\approx +4800/a$)
- **Obligatory input**¹ (editors at each institute, crosschecked by ZB)

¹cf. Publication Guidelines

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- Basis for
 - Scientific Report
 - Evaluations
 - Publication lists (e. g. WWW)

¹cf. Publication Guidelines

Suchbegriff



MITARBEITERSUCHE | DEUTSCH | ENGLISH

Institutswe gwieser

Institut für Neurowissenschaften und Medizin
Strukturelle und funktionelle Organisation des Gehirns (INM-1)



AKTUELLES

FORSCHUNG

LEISTUNGEN

KARRIERE

ÜBER UNS

[INM-1](#) [Forschung](#) [Publikationen](#)

FORSCHUNG

[Architektonik und Hirnfunktion](#)[Multimodale Bildverarbeitung](#)[Modellierung kortikaler Systeme](#)[Genomic Imaging](#)[Publikationen](#)

SERVICE

[Ansprechpartner](#)[Mitarbeiter](#)[Publikationen](#)[Anfahrt](#)[Downloads](#)

Zeitschriftenbeiträge 2012

Amunts, K.; Zilles, K.

[Architecture and organizational principles of Brocas region](#)*Trends in cognitive sciences* **16**, 418 - 426 (2012) [10.1016/j.tics.2012.06.005]

Bis, J. C.; et, a.

[Common variants at 12q14 and 12q24 are associated with hippocampal volume](#)*Nature genetics* **44**, 545 - 551 (2012) [10.1038/ng.2237]

Boutros, N. N.; Gjini, K.; Eickhoff, S. B.; Urbach, H.; Pflieger, M. E.

[Mapping repetition suppression of the P50 evoked response to the human cerebral cortex](#)*Clinical neurophysiology* **00**, 00 (2012) [10.1016/j.clinph.2012.10.007]

In Print

Bzdok, D.; Laird, A.; Zilles, K.; Fox, P.; Eickhoff, S. B.

[An investigation of the structural, connectonal, and functional sub-specialization in the human amygdala](#)*Human brain mapping* (2012) [10.1002/hbm.22138]

Bzdok, D.; Schilbach, L.; Vogeley, K.; Schneider, K.; Laird, A. R.; Langner, R.; Eickhoff, S. B.

[Parsing the neural correlates of moral cognition: ALE meta-analysis on morality, theory of mind, and empathy](#)*Brain structure & function* **217**, 783 - 796 (2012) [10.1007/s00429-012-0380-y]

PUBLIKATIONEN INM-1

[Publikationen 2011](#)[Publikationen 2010](#)[Publikationen 2009](#)[Publikationen 2008](#)[→ Mehr](#)

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JUWEL:

- Berlin Declaration for **Open Access**
- Institutional repository (≈ 4500 full text files, $\approx +560/a$)

²cf. Publication Guidelines

Longitudinal deformation-based morphometry reveals spatio-temporal dynamics of brain volume changes in patients with corticobasal syndrome

→ Pieperhoff, Peter* ; → Ferrea, Stefano ; → Krause, Holger ; → Groiss, Stefan Jun ; → Elben, Saskia ; → Wojtecki, Lars ; → Zilles, Karl* ;
→ Amunts, Katrin* ; → Schnitzler, Alfons ; → Südmeier, M (Corresponding author)

2012

PLoS Lawrence, Kan.

Published in: → PLoS one 7 (7) e41873 - → [10.1371/journal.pone.0041873] → 

→ Pubmed ; →  Pubmed Central Fulltext ;
→ Web of Science (WOS) ; → Citing articles (WOS) ; → Related articles (WOS)

Report No.: FZJ-2012-00157

Abstract: Corticobasal syndrome (CBS) is a rare neurodegenerative disorder characterized by a progressive and asymmetric manifestation of cortical and basal-ganglia symptoms of different origin. The spatiotemporal dynamics of cerebral atrophy in CBS is barely known. This study aimed to longitudinally quantify the individual dynamics of brain volume changes in patients with CBS as compared

Contributing Institute(s):

- Strukturelle und funktionelle Organisation des Gehirns (INM-1)
- Zentralbibliothek (ZB)

Research Program(s):

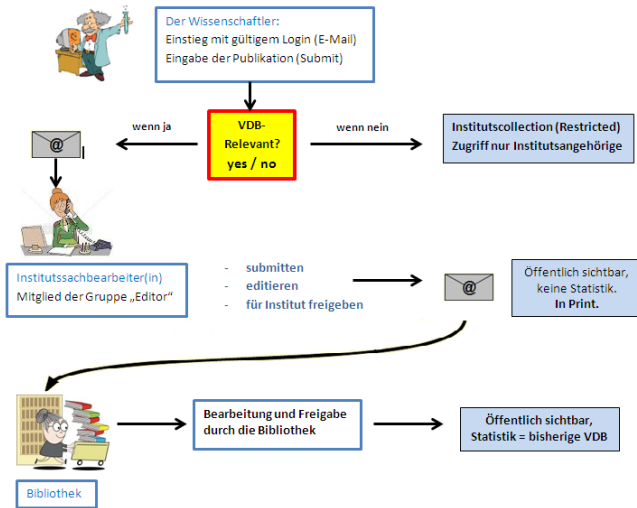
- 332 - Imaging the Living Brain (POF2-332) (Gesundheit)

Appears in the scientific report → 2012

Database coverage:

Due to reporting requirements: 3 step document flow

Due to reporting requirements: 3 step document flow



Thanks to H. Lexis

JuSER – Main features

- Import interfaces (improve data quality, ease up input)

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 - **Authors** (tell apart Meier and Meier)
 - Institutes
 - Journals
 - Projects (POF, EU, ...)
 - ...

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 - ...

... Users don't need to care about technical details ...

Collections

- [Publicationsdatabase](#): Publications from Jülich

Collections

- **Publicationsdatabase:** Publications from Jülich
- **Documents in Print:**
 - approved by institutes editor
 - not approved by the library
 - e. g. papers just available Online (missing bibliographic data e. g. pages, volume)

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- **OpenAccess repository JUWEL**
- **Institute Collections:**
 - Institutes **private** workspace
 - e. g. drafts, collected literature, journal clubs ...
 - Access for members of the institute only
- **Authorities**

JuSER



SEARCH

SUBMIT

PERSONALIZE

HELP

ADMINISTRATION

Search 128,357 records for:

any field

→ Search Tips :: → Advanced Search

Narrow by collection:

- ☒ → **Publications database** (64,428)
- ☒ → **Documents in print** (102)
- ☒ → **JUWEL** (2,583)
- ☒ → **Institute Collections** (56,073)
 - B (0) → BFC (0) → BR (0) → BSG (0) → DSB (0) → ETN (0) → F (0) → FA-ARTEC (0) → FD (0)
 - FGZ (0) → FS (0) → G (0) → GRS (0) → IAS (1,293) → IBG (5,945) → IBN (2,184) → IBOC (0)
 - ICS (6,201) → IEK (15,949) → IKM (0) → IKP (3,759) → IMET (19) → INB (2,982) → INM (3,894)
 - ITS (0) → JARA (0) → JCNS (1,992) → JSC (4,013) → JULAB (0) → KME (0) → M (0) → MOD (0)
 - N (0) → NIC (222) → O (0) → P (0) → PGI (11,089) → PTJ (0) → R (0) → REV (0) → S (0) → SL (0)
 - T (0) → TB (0) → UE (0) → UK (0) → US (0) → VB (1) → VS (0) → WTR (0) → ZAT (461) → ZB (394)
 - ZC (0) → ZCH (869) → ZEL (936)
- ☒ → **Authorities** (63,269)
 - Grants (15,266) → Institutions (2) → Institutes (437) → People (18,108) → Periodicals (29,391)
 - Publication types (35) → Statistics keys (25) → Controlled vocabulary (7)

Focus on:

- **Document types** (64,538)
 - Articles (17,733) → Books (7,429)
 - Events (75) → Other Resources (0)
 - Patents (2) → Presentations (43,026)
 - Reports (868) → Theses (2,138)
 - Unpublished (0)

QUICK LINKS

- Central Library
- Library Catalogue
- Literature Request
- Reading Room
- Publishing House
- Subject Information Portal
- Recent additions
- In Print

Institute Collections

JuSER can hold documents **beyond own publications**

Institute Collections

JuSER can hold documents **beyond own publications**

- **webbased** literature management
- document **exchange** at the institutes
- **centralized collection** of papers
- **easy export** to formatting tools (Bib_TE_X, EndNote)
- commenting (individual and in group)

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- **webbased** literature management
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- Institute collections require proper login
- Non-VDB relevant items do **not** show up on the webpage
- ZB does not care about usage

Invenio @ HGF

Part II: Basic Usage

June 15, 2013 | Alexander Wagner

Submit

- 1 Log in (LDAP based)
- 2 Select **Submit** from the main menu ( <http://juser.fz-juelich.de/submit>)
- 3 Select document type

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 - take care of the authors
 - Own publication? $\Rightarrow$ VDB-Relevant = yes

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 - “Postpone” (generates TEMPENTRY)

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Permissions & workflow: quite complex collection structure

Book

Import data ⓘ

VDB Relevant ⓘ

☐ yes ☐ no

Supported by FZJ-Employee ⓘ

☐ yes ☐ no

Institute(s) ⓘ

R&D Section ⓘ

Grant Name ⓘ

Report Number ⓘ

Author(s) ⓘ

Title ⓘ

Publication Year ⓘ

Language ⓘ

Conference name ⓘ

Acronym ⓘ

City ⓘ

Country ⓘ

Begin ⓘ

End ⓘ

ISBN ⓘ

Extent ⓘ

Edition ⓘ

Publisher ⓘ

Publisher's City ⓘ

Series ⓘ

Volume ⓘ

Abstract ⓘ

Additional Information ⓘ

Please upload your full text ⓘ

Durchsuchen...

Finish & Release

Postpone

Field designations

Red: mandatory for a full bibliographic description

Black: might not all apply

Blue: save manual work!

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Black: might not all apply

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Import data

... is always available and allows to fetch data from external or internal sources.

PS:  is the manual ([Wiki-based, german and english](#))

Import HowTo

- DOI: insert doi or dx.doi.org-url (e. g. 10.1016/j.physletb.2006.11.038)
-  pubmed : copy as displayed (e. g. PMID: 20923669)
-  arXiv.org : copy as displayed (e. g. arxiv:hep-ph/0610431)
- inspire: use URL
- own: recid: + record-Id or 037__a (e. g. recid:FZJ-2013-00499)
- ISBN: use the ISBN-field for this import

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Journal Article

VDB Relevant

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- inspire: use URL
- own: recid: + record-Id or 037__a (e. g. recid:FZJ-2013-00499)
- ISBN: use the ISBN-field for this import

Journal Article

Import data  VDB Relevant 

Institute(s) 

Grant Name 

Import data:

Ultra-precision engineering: from physics to manufacturing / Jiang, X. J. ; Philosophical transactions of the Royal Society of London / A 370 3831 - 3834 ; London : Soc., 2012 ; 10.1098/rsta.2012.0178 ;

Import

Discard

Duplicate entries

Import data: 

Architecture and organizational principles of Broca's region / Amunts, Katrin ; Trends in cognitive sciences 16 418 - 426 ; Amsterdam [u.a.] : Elsevier Science, 2012 ; 10.1016/j.tics.2012.06.005 ;

Potential duplicate record(s):

- [130491](#)

At [import via doi](#), [pmid](#), [arXiv](#)... JuSER

- can identify potential duplicates
- refuses the import
- shows links to the potential dupes

E. g. DOI Import

Journal Article

Import data ⓘ **VDB Relevant** + ⓘ ☒ yes ☐ no Supported by FZJ-Employee ⓘ ☐ yes ☐ no

Institute(s) ⓘ **R&D Section** ⓘ

Grant Name ⓘ

Author(s) ⓘ  **Title** ⓘ

Jiang, X. J. (Extern) Corresponding author	✓		✕
Shore, P. (Extern) Author	✓		✕
McKeown, P. (Extern) Author	✓		✕
Whitehouse, D. J. (Extern) Author	✓		✕
Ruffles, P. C. (Extern) Author	✓		✕

Ultra-precision engineering: from physics to manufacturing

Journal ⓘ Philosophical transactions of the Royal Society of London / A **DOI** ⓘ 10.1098/rsta.2012.0

Volume ⓘ 370 **Issue** ⓘ 1973 **Pages** ⓘ 3831 - 383

Publication Year ⓘ 2012 **Language** ⓘ

Conference name ⓘ **Acronym** ⓘ **City** ⓘ

Country ⓘ **Begin** ⓘ **End** ⓘ **Publisher** ⓘ Soc. **Publisher's City** ⓘ London

Abstract ⓘ

Most red fields are filled in already!

Alexander Wagner

Authors

Upon import

authors are a mere **guesses** by the system. **Check them!**

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- : confirm the guess
- : correct a wrong guess
- : remove an entry
- : clear the whole list

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authors are a mere **guesses** by the system. **Check them!**

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- : clear the whole list

- Associate only authors that show an **email address/institute**
- If unsure, leave them red

Author input and association

Author input and association

Author(s) ⓘ

Drexler, Ei (Extern) Corresponding author	✓		×
Voss, B (Extern) Author	✓		×
Amunts, K -> Amunts, K. [P:(DE-Juel1)VDB26] Author	✓		×
Schneider, F -> Schneider, Florian (: f.schneider@fz-juelich.de / JCNS-FRM-II) Author	✓		×
Habel, U -> Habel, U. [P:(DE-Juel1)VDB525] Author	✓		×

Note: ZB covers publication costs if the *corresponding author* is from Jülich.

Author input and association

Author(s) ⓘ

Drexler, Ei (Extern) Corresponding author	✓		✕
Voss, B (Extern) Author	✓		✕
Amunts, K -> Amunts, K. [P:(DE-Juel1)VDB26] A			
Schneider, F -> Schneider, Florian (: f.schneider@juelich.de / JCNS-FRM-II) Author			
Habel, U -> Habel, U. [P:(DE-Juel1)VDB525] Aut			

Edit author: ⓘ

Author ▼

Edit Author:

Amunts, K

Institution:

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Drexler, Ei (Extern) Corresponding author ✓ ⓘ

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Habel, U -> Habel, U. [P:(DE-Juel1)VDB525] Aut ✓ ⓘ

Edit author: ⓘ

Author

Amunts, K

Institution:

Edit author: ⓘ

Author

Corresponding author

Editor

Collaboration Author

Gutachter

Gastherausgeber

Gefierter

Illustrator

Redakteur

Rezensent

Serienherausgeber

Übersetzer

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Drexler, Ei (Extern) Corresponding author	✓	✕
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Edit author: ⓘ

Author

Amunts, K

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Amunts, K

Institu

Author

Edit Author:

Amunts, K

Amunts, K (Extern)

Amunts, K -> Amunts, Katrin (FZJ: k.amunts@fz-juelich.de / INM-1)

Amunts, K -> Amunts, K [P:(DE-Juel1)VDB105393]

Amunts, K -> Amunts, K. [P:(DE-Juel1)VDB26]

OK

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Author(s) ⓘ

Drexler, Ei (Extern) Corresponding author ✓ ⓘ

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Amunts, K -> Amunts, K. [P:(DE-Juel1)VDB26] A

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Edit author: ⓘ

Author

Amunts, K

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Amunts, K

Institu

Author

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Amunts, K

Amunts, K (Extern)

Amunts, K -> Amunts, Katrin (FZJ: k.amunts@fz-juelich.de / INM-1)

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OK

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Edit author: ⓘ

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Amunts, K

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OK

Own publications

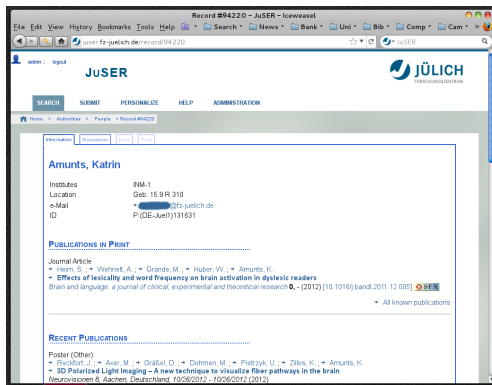
Author association

allows easy extraction of **individual** and **exact** publication lists.

Own publications

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Record #94220 - JuSER - Iceweasel

File Edit View History Bookmarks Tools Help Search News Bank Uni Bib Comp Cam

juSER fz-juelich.de/record/94220

admin: logout

JuSER

SEARCH SUBMIT PERSONALIZE HELP ADMINISTRATION

Home Authorities People Record #94220

Information Discussion View Print

Amunts, Katrin

Institutes IM-1
 Location Geb. 15.9 R 310
 e-Mail fz-juelich.de
 ID P.(DE-Juel1)131631

PUBLICATIONS IN PRINT

Journal Article
 • Hiem, S.; • Wehnelt, A.; • Grande, M.; • Huber, W.; • Amunts, K.
 • Effects of lexicality and word frequency on brain activation in dyslexic readers
 Brain and language: a journal of clinical, experimental and theoretical research 0, - (2012) [10.1016/j.bandl.2011.12.005] OPEN

• All known publications

RECENT PUBLICATIONS

Poster (Other)
 • Pielkfort, J.; • Auer, M.; • Gräßel, D.; • Dohmen, M.; • Pietrzyk, U.; • Zilles, K.; • Amunts, K.
 • 3D Polarized Light Imaging - A new technique to visualize fiber pathways in the brain
 Neurovisionen & Aachen, Deutschland, 10/06/2012 - 10/06/2012 (2012)

Claim work (required only once!)

- 1 Log in
- 2 Navigate to: **Authorities / People** (<http://juser.fz-juelich.de/collection/People>)
- 3 Search for own name (e. g. 'Hofmann, D')
- 4 Note the IDs in question (e. g. P: (DE-Jue11)VDB63458 and P: (DE-Jue11)129471)
- 5 Open details and check the records found by the link
All known publications (below the list of recent publications)
- 6 notify juser@fz-juelich.de
(e. g. if the above two people are the same, we need both ids to join them)

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All known publications (below the list of recent publications)
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(e. g. if the above two people are the same, we need both ids to join them)

To search own publications use `aid:` and own ID in quotes (“”)

e. g. `aid:“P: (DE-Juel1)133794”`

Want only first authorships? Use `fai` instead of `aid`.

Invenio @ HGF

Part III: Installation

June 15, 2013 | Alexander Wagner

Repositories @ HGF

Roll out and disaster recovery

the **same code** on at least 5 different instances and **keep it consistent** by avoiding manual configuration.

Repositories @ HGF

Roll out and disaster recovery

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- git: `cds-invenio` (centrally kept at DESY)

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 - overlay for our instances (our additions)
 - our patches (no replacements!)
 - directory structure like `/opt/invenio`
 - setup routines for roll-out (e. g. collections, roles, doctypes...)
 - instances configs

InstallInvenio

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sets up the **whole instance** at each partner in the proper layout including all **global** (hgf) and **local** configs

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- allows setup of an **identical** test environment

Invenio @ HGF

Part IV: Backend

June 15, 2013 | Alexander Wagner

HGF “specifics”

Broad areas of research

some **INVENIO**-HEP-specifics just don't work

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- Normalize all you can get
 - to be handled by users & librarians, not programmers
 - vitally important: Authorities

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Every unwritten line of code is a good line of code!

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- People e. g. authors

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 - entries are real people, not names (distinguish Wagner, A. and Wagner, A.)
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- **Grants** (money-like aggregates)
 - horizontal as well as vertical connections
 - different types (POF (HGF-specific), EU, DFG, ...)
 - flexibly extensible by **librarians**
 - visibility in websubmit depending on instance

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- invisibly enrich data from the backend (e. g. IDs, DDC, statistics keys...)

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Handling

Add hidden fields for all visible fields and do the fancy stuff there.
Pass on string encoded JSON structures.

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Expose records in **JSON** structures to JavaScript

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- innerrecordlinks: return from the backend (e. g. 536__ and 913__)

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Goal

Implement ORCID linkup with automagic registration/fetching

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Upon journal association: keys → bibliographic records

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- generate structures outputs (for spreadsheet, literature management)

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In principle

... all queries can be done in the Webfrontend

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- OAI-Harvesting for BASE and friends

Next Steps

- Upgrade from 1.0 to 1.1 or, more likely, 1.2 (fix OAI Server!)
- Feed Google Scholar (how?)
- Get pending instances online:
 - RWTH Aachen
 - MLZ
- At Jülich: implement crossharvesting (RWTH ↔ FZJ ↔ MLZ)
- Add workflow for “vita” (workflows for special collections)

Next Steps

- Upgrade from 1.0 to 1.1 or, more likely, 1.2 (fix OAI Server!)
- Feed Google Scholar (how?)
- Get pending instances online:
 - RWTH Aachen
 - MLZ
- At Jülich: implement crossharvesting (RWTH ↔ FZJ ↔ MLZ)
- Add workflow for “vita” (workflows for special collections)

Continually refactor/check code to get ready to give back

Project partners



Deutsches Elektronensynchrotron, Zentralbibliothek



Forschungszentrum Jülich, Zentralbibliothek



GSI Helmholtzzentrum für Schwerionenforschung, Bibliothek + Kern-IT



RWTH Aachen, Hochschulbibliothek



Maier-Leibniz-Zentrum, Garching

Questions?



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