



# Working with Cuneiform Texts

## Sunoikisis Digital Classics: Session 7

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# Overview

- Introduction: What is Cuneiform Writing?
- History of Research: The Discovery and Impact of Cuneiform Culture
- Cuneiform Writing: Scholarly Conventions of Copying and Editing
- (Digital) Resources for Studying Cuneiform
  - Databases and Platforms
  - Resources for Hittite
- The Cuneiform Digital Library Initiative
- Practical: Exercise



# Cuneiform Writing?

- In use c. 3400 BCE to 100 CE
- Used to write 11 different languages
- Predominantly used to write on clay
- Wide range of genres, vast majority administrative
- Estimate: c. 429.112 inscribed objects from known provenance



Stamped brick from the ziggurat at Ur, Iraq, c. 2100-2000 BCE Iraq  
([BM 137495](#))  
(© Trustees of the British Museum,)



Cylinder of Antiochus I Soter, Birs Nimrûd, Iraq, c. 250 BCE ([P498384](#))  
(© Trustees of the British Museum)

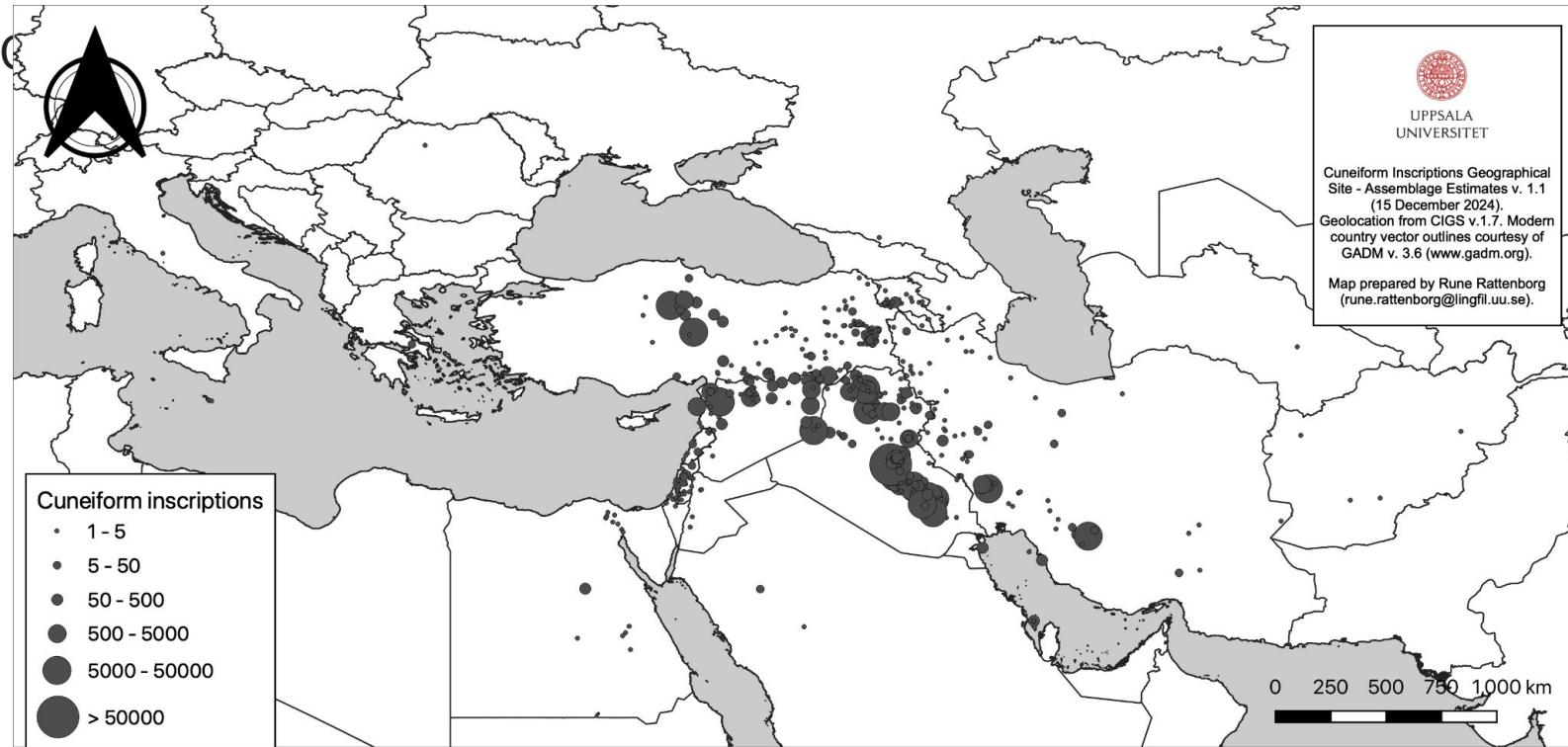


Inscribed cylinder seal,  
c. 1800 BCE ([P272869](#))  
(Cuneiform Digital Library Initiative)



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# Distribution of cuneiform inscriptions



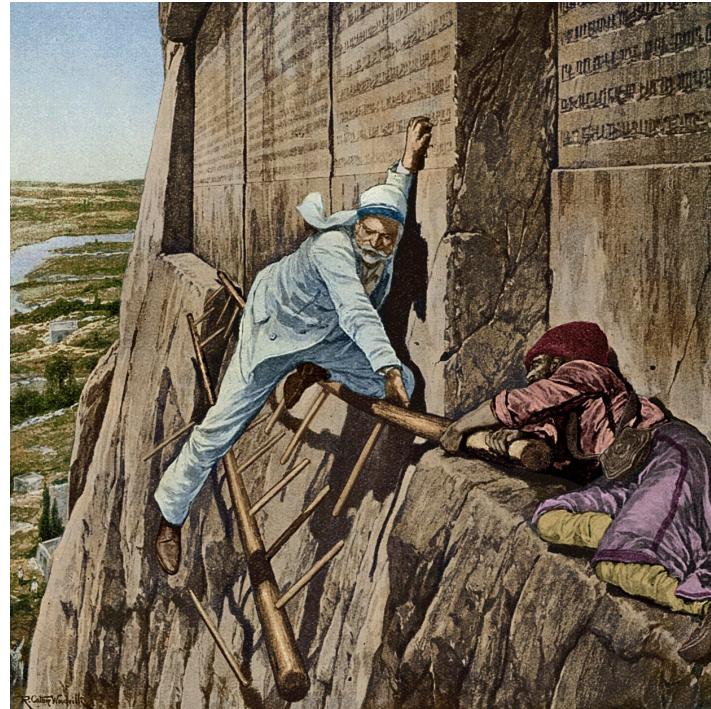
Point distribution map of ca. 430,000 cuneiform finds according to archaeological provenience  
(Smidt et al. 2024, [Fig. 1](#))



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# Discovery and decipherment

- Inscriptions forming part of local folk tradition across the Middle East since antiquity (c. 100 CE)
- Cuneiform artifacts reported by Western travelers from ca. 1600 CE
- First partial decipherment of Persian cuneiform in 1802 CE
- Full decipherment of Akkadian cuneiform by 1857 CE
- Significant growth of available corpus through excavations from late 19th century CE onwards

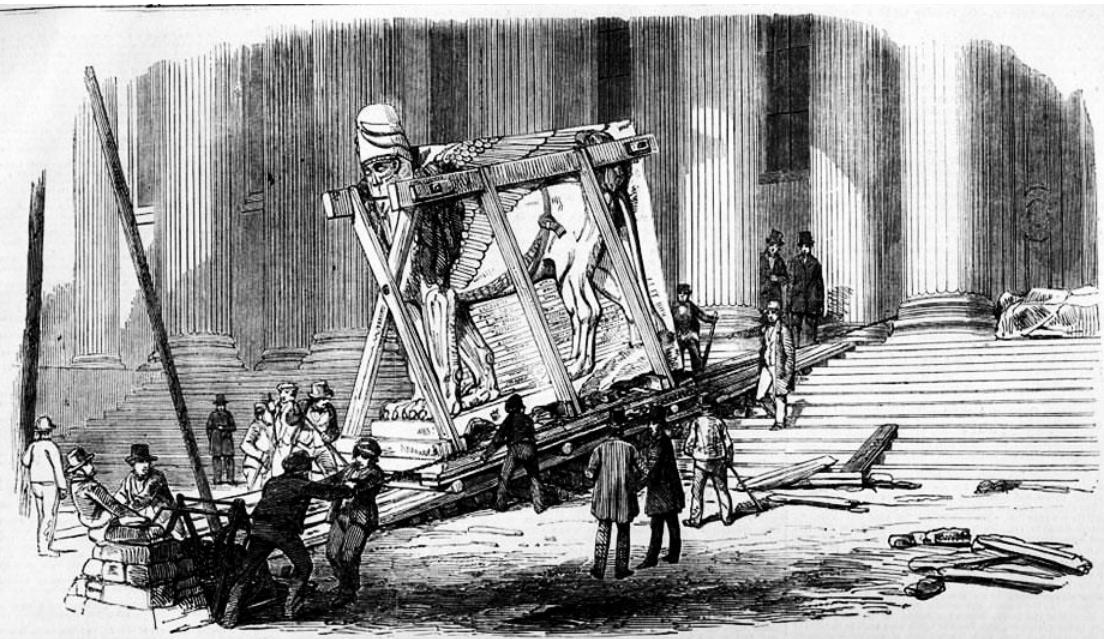


Rawlinson copying the trilingual Behistun inscription in western Iran, c. 1836  
(illustration by R.C. Woodville, 1920)



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# Impact and relevance



Assyrian sculptures arriving at British Museum  
(Illustrated London News, 28 February 1852)

- Archaeological discoveries of inscriptions predating the Old Testament and contradicting Biblical historical frameworks
- Historical horizon reaching back to 4th millennium BCE, several millennia before ancient Greek sources
- Diverse and extensive corpus with emphasis on social and economic organisation, as well as literature, religion and science

# Cuneiform Writing: Recording Artifacts



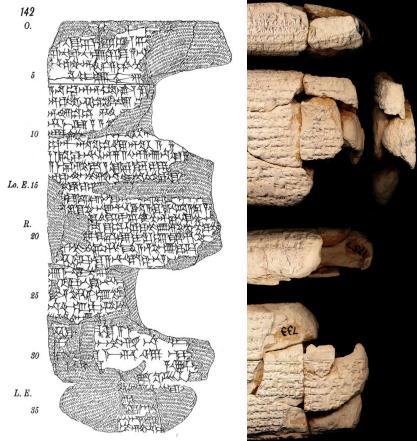
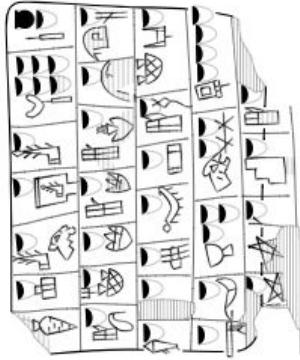
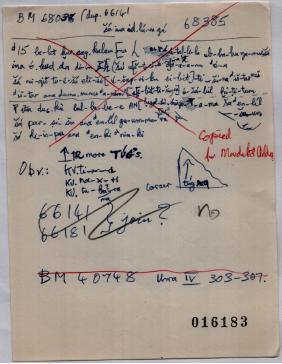
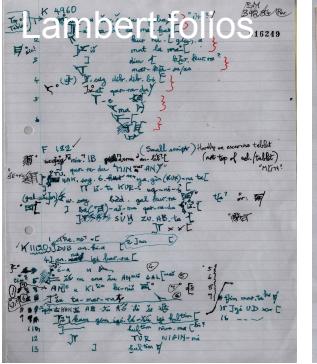
<https://hampshirearchivestrust.co.uk/news/hampshire-archives-trust-grants/digitising-registers-of-objects-acquired-by-hampshire-museums-from-the-19th-century-onwards>



A Guide for Documentation Work for Museums in Developing Countries, UNESCO March 2009  
[https://www.obs-traffic.museum/sites/default/files/ressources/files/EPA\\_Documentation\\_Museum\\_Collections.pdf](https://www.obs-traffic.museum/sites/default/files/ressources/files/EPA_Documentation_Museum_Collections.pdf)



# Cuneiform Writing: Recording Text



Robert K.  
Englund  
P000958  
(vector)

# Transliteration/ Transcription

87 (49-05-060)

- obv. i 1) 1 ur-ki
- 2) sag GIŠ.ŪH<sup>b</sup>
- 3) in-nu-KA
- 4) aša<sub>1</sub> na-na
- ii 1) asgab
- 2) ur-tilla
- 3) sukkal
- 4) su-du<sub>8</sub> in-DU

Ur-ki, a man/slave of Umma .... The field of Nana the leather-worker, Ur-tilla the *sukkal* put up as guarantee.

The meaning of the tablet escapes us. Urki may have been a slave from Umma stolen in the field of Nana and Urtilla the *sukkal* may have put up the field as collateral in case the slave was not recovered.

Viasicato & Westenholz CUSAS

11

&P323386 = CUSAS 11, 087  
 #atf: lang sux  
 @tablet  
 @obverse  
 @column 1  
 1. 1(asz@c) ur-ki  
 2. sag umma{ki}  
 3. in-nu-KA  
 4. GAN2 na-na  
 @column 2  
 1. aszgab  
 2. ur-tilla2  
 3. sukkal  
 4. su-du8 in-de6  
 @reverse  
 \$ blank space

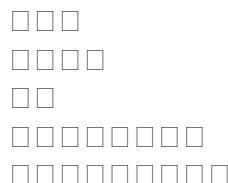
C-ATF

ORACC ATF with  
 lemmatisation

P100145 ->

#new_text=P100065						
# ID	FORM	SEGM	XPOSTAG	HEAD	DEPREL	
MISC						
o.1.1	1(u)	1(u)[ten]	NU	—	—	—
o.1.2	gin2	gig[unit]	N	—	—	—
o.1.3	ku3-babbar	kugbabbar	[silver]	N	—	—
o.2.1	iti	iti[month]	—	N	—	—
o.2.2	min-esz3-ta	Minesz[1]-ta	—	MN.ABL	—	—
o.3.1	u4	ud[day]	N	—	—	—
o.3.2	5(disz)-am3	5(disz)[one][-ak]-am	—	—	NU.GEN.COP-3-S	—
o.3.3	zal-la	zal[pass]-a	—	NF.V.PT	—	—
o.4.1	lugal-he2-gal2	Lugalhegal[1]	—	PN	—	—
o.5.1	in-la2-e-a	i-ni[-b]-la[weigh]-e-a	—	—	—	—
		FIN.L1.3-SG-NH-P.V.3-SG-A.SUB	—	—	—	—

CDLI-CoNLL with  
 lemmata and  
 morphology



# Translation

- Scholarly: more literal & less accessible
- Line or paragraph based
- based on a text or a the composite of a composition (literature, royal)

1. [pisan-dub-ba]

*en: Basket-of-tablets:*

2. gurum2#-ak

*en: inspections*

3. ug3-IL2

*en: of the porters,*

4. ugula sanga {d}nin-mar{ki}

*en: foremen, temple administrator of  
Ninmar,  
reverse  
blank space*

1. mu en {d}nanna masz-e i3-pa3

*en: year: "The en(-priestess) of Nanna  
by goat was found."*

P100145

1. dumu e2-dub-ba-a u4-ul-la-a

me-sze3 i3-du-de3-en

*en: Schoolboy, where have you been  
going so long?*

2. e2-dub-ba-a-sze3 i3-du-de3-en

*en: To the school I have been going.*

3. e2-dub-ba-a a-na-am3 i3-ak

*en: In school, what were you doing?*

4. dub-mu i3-szid ninda-ka-gub-mu

i3-gu7

*en: My tablet I recited, my lunch I ate;*

5. dub-mu i3-dim2 i3-sar i3-til-ma

*en: my tablet I prepared, wrote,  
finished,*

Edubba A Q000754



# Composite texts /Compositions

## Royal    Lexical    Literature    Scientific

1. an gal-ta ki gal-sze3 gesztu2-ga-ni na-an-gub

*en: From the great heaven she set her mind on the great below.*

2. dingir an gal-ta ki gal-sze3 gesztu2-ga-ni na-an-gub

*en: From the great heaven the goddess set her mind on the great below.*

3. {d}inanna an gal-ta ki gal-sze3 gesztu2-ga-ni na-an-gub

*en: From the great heaven Inana set her mind on the great below.*

4. nin-gu10 an mu-un-szub ki mu-un-szub kur-ra ba-e-a-e11

*en: My mistress abandoned heaven, abandoned earth, and descended to the under-*

5. {d}inanna an mu-un-szub ki mu-un-szub kur-ra ba-e-a-e11

*en: Inana abandoned heaven, abandoned earth, and descended to the underworld.*

6. nam-en mu-un-szub nam-lagar mu-un-szub kur-ra ba-e-a-e11

*en: She abandoned the office of en, abandoned the office of lagar, and descended to the underworld.*

P345106 obv. 5. {d}inanna an mu-un-szub [...] kur-ra ba-e-[...]

P268937 obv. 5. {d}inanna an# mu-un#-szub ki# mu#-un-szub kur-ra ba#-[...]

P267276 obv. 5. [{d}inanna an mu-un-szub ki mu-un-szub] kur#-ra ba-e-a-e11

P345344 obv. 4'. [...] mu [...] e#-a-e11

P345597 obv. 1'. [...] -szub# x x x [...]

CDLI Literary 000343, ex. 054 (P357189)

CDLI Literary 000343, ex. 055 (P469280)

CDLI Literary 000343, ex. 056 (P275002)

CDLI Literary 000343, ex. 057 (P252222)

CDLI Literary 000343, ex. 058 (P252223)

CDLI Literary 000343, ex. 001 (P264321)

CDLI Literary 000343, ex. 002 ? (P345778)

CDLI Literary 000343, ex. 003 (P269767)

CDLI Literary 000343, ex. 004 (P345106)

CDLI Literary 000343, ex. 005 (P280940)

CDLI Literary 000343, ex. 006 & 000736, ex. 058 & 000751, ex. 093 (P278032)

CDLI Literary 000343, ex. 007 (P345454)

Old Babylonian (ca. 1900-1600 BC) Sippar-Yahrurum (mod. Tell Abu Habbah)

Old Babylonian (ca. 1900-1600 BC) Sippar-Amnanum (mod. Tell ed-Der)

Old Babylonian (ca. 1900-1600 BC) Nippur (mod. Nuffar)

Old Babylonian (ca. 1900-1600 BC) uncertain (mod. uncertain)

Old Babylonian (ca. 1900-1600 BC) uncertain (mod. uncertain)

Old Babylonian (ca. 1900-1600 BC) Nippur (mod. Nuffar)

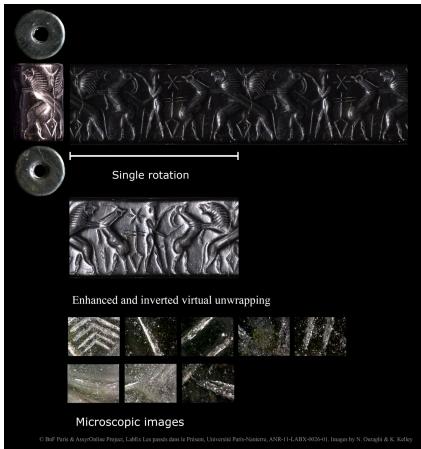
Old Babylonian (ca. 1900-1600 BC) uncertain (mod. uncertain)

Old Babylonian (ca. 1900-1600 BC) Nippur (mod. Nuffar)

Old Babylonian (ca. 1900-1600 BC) uncertain (mod. uncertain)



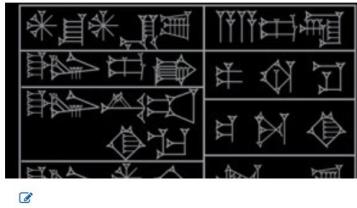
# Seals



## Seal impressions

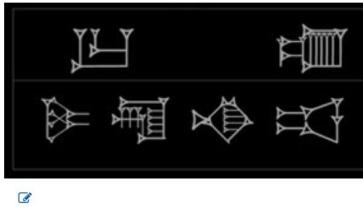
This artifact is a composite seal. See below of a list of its impression(s):

Impression	Provenience	Period	Date
JCS 52, 044 51 (P145845)	Puzriš-Dagan (mod. Drehem)	Ur III (ca. 2100-2000 BC)	Ibbi-Suen.01.07.10
MVN 08, 195 (P115585)	Puzriš-Dagan (mod. Drehem)	Ur III (ca. 2100-2000 BC)	Šu-Suen.09.11.18
MVN 15, 274 (P118539)	Puzriš-Dagan (mod. Drehem)	Ur III (ca. 2100-2000 BC)	Šu-Suen.02.06.00 ?,
Nisaba 30, 77 (P332387)	Puzriš-Dagan (mod. Drehem)	Ur III (ca. 2100-2000 BC)	Šu-Suen.08.08.28 ?
Nisaba 30, 78 (P332388)	Puzriš-Dagan (mod. Drehem)	Ur III (ca. 2100-2000 BC)	Šu-Suen.08.11.04
Orient 16, 053 46 (P124670)	Puzriš-Dagan (mod. Drehem)	Ur III (ca. 2100-2000 BC)	Šu-Suen.06.04.15 (t)
PDT 1, 0235 (P125651)	Puzriš-Dagan (mod. Drehem)	Ur III (ca. 2100-2000 BC)	Šu-Suen.09.09.01



SEAL OF AYAKALA, GOVERNOR OF UMMA

Seal of Ayakala, governor of Umma during the Third Dynasty of Ur (ca 2100-2000 BC) attested impressed on ca 1180 tablets.



SEAL OF UR-MES, FATTENER

Seal of Ur-Mes, fattener, attested impressed on ca. 310 tablets from Puzriš-Dagan during the Ur III period (ca 2100-2000 BC).



SEALS OF UR-NUNGAL

Two versions of the seal of Ur-Nungal, an accountant for the crown stationed at Umma. Ca. 262 tablets were impressed with the two versions, possibly re-carvings of this seal.



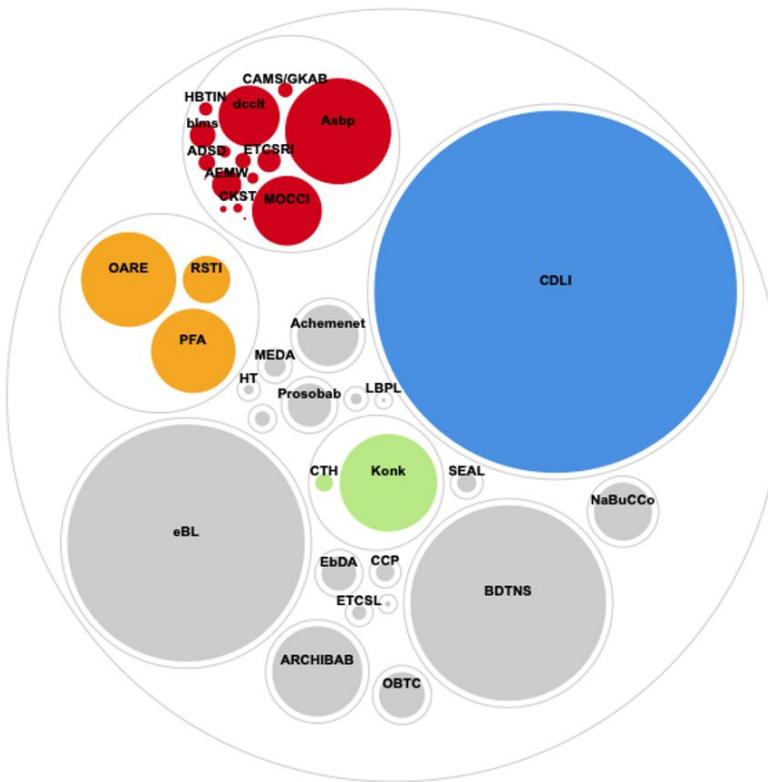
# Digital Resources for Cuneiform

- **Primary text repositories:** Basic online collections of cuneiform texts, their structure, data content, and state of completeness.
  - Cuneiform Digital Library Initiative (<https://cdli.mpiwg-berlin.mpg.de/>)
  - Open Richly Annotated Cuneiform Corpus ([www.oracc.museum.upenn.edu](http://www.oracc.museum.upenn.edu))
  - Database of Neo-Sumerian Texts ([www.bdtns.filol.csic.es](http://www.bdtns.filol.csic.es))
- **Derived digital text editions and grammars** Editing projects and case studies based digital resources, their relationship to primary collections, and their use within the research community.
  - Pennsylvania Sumerian Dictionary (<http://oracc.museum.upenn.edu/epsd2/>)
  - Electronic Text Corpus of Sumerian Literature (<http://etcsl.orinst.ox.ac.uk>)
- **Secondary initiatives:** Survey of current initiatives working with automation and machine-reading of cuneiform texts, 3D imaging technologies, and spatial data resources.
  - Ancient Records of Middle Eastern Polities ([www.armep.gwi.uni-muenchen.de](http://www.armep.gwi.uni-muenchen.de))
  - Ruprecht-Karls-Universität Heidelberg (<http://ipp.uni-hd.de/index.php?id=49>)
  - Creative Machines Lab ([www.creativemachineslab.com/cuneiforms.html](http://www.creativemachineslab.com/cuneiforms.html))



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# Digital Resources for Cuneiform Studies



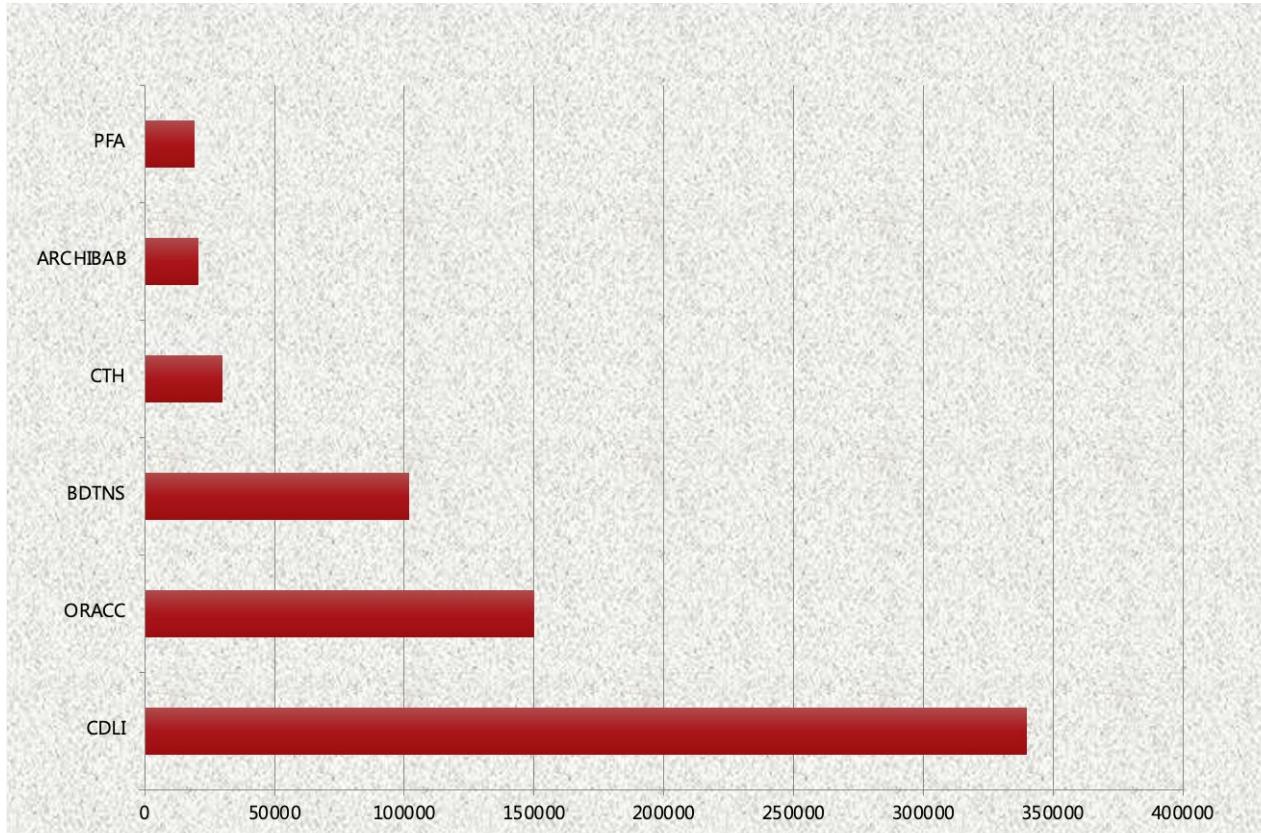
A circle cluster visualisation  
of forty digital text repositories in  
cuneiform studies, with size of circle  
indicating number of records in repository.  
Chart made using [RAWGraphs v.1](#).

(from Rattenborg, Pagé-Perron  
and Anderson, in preparation)

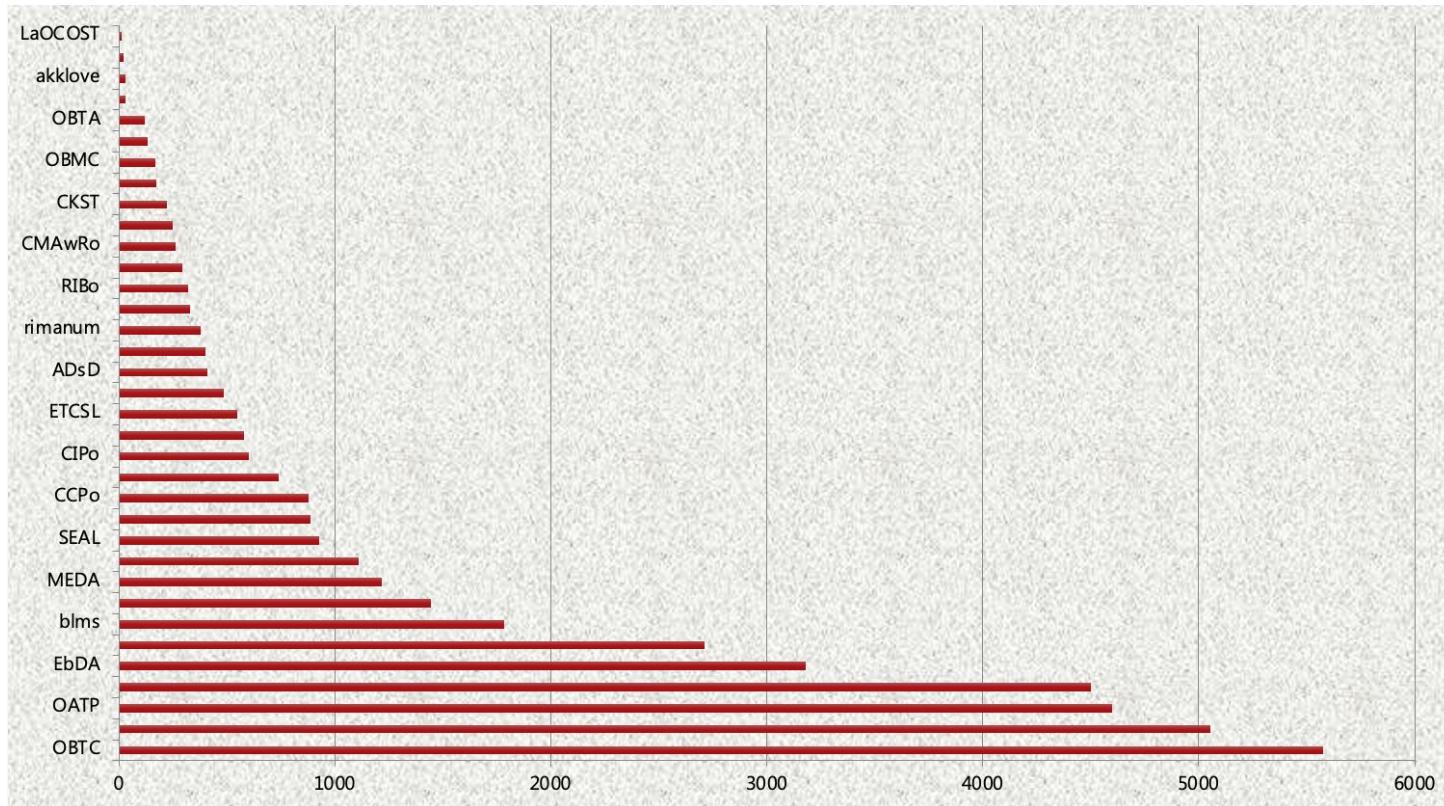


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# Digital Repositories – Size



# Digital Repositories – Size



# Largest Platforms

- Largest Platforms:
  - Cuneiform Digital Library (CDLI), c. 360 000 texts
  - Oracc (Open Richly Annotated Cuneiform Corpus), c. 150 000 texts (in various subprojects)
- Focus:
  - making texts available (CDLI: photos & handcopies; ORACC: transliteration and translation)
  - transliterations (& translation)
  - Metadata (provenience, dating, genre...)



# Hittite Resources

## Content

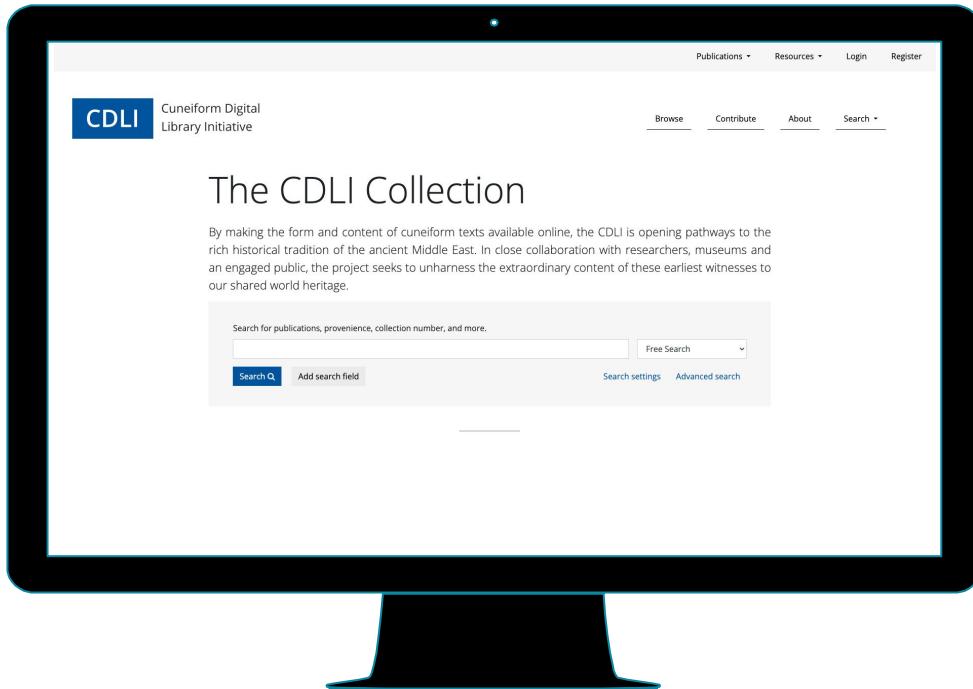


# Cuneiform Digital Library Initiative (CDLI)

- Launched in 2002
- Database of cuneiform inscriptions
- International cooperation
- Open access and not-for-profit
- Freely editable by registered users



<https://cdli.ucla.edu/>



The screenshot shows the CDLI website interface. At the top, there is a navigation bar with links for 'Publications', 'Resources', 'Login', and 'Register'. Below the navigation bar, a large heading reads 'The CDLI Collection'. A descriptive paragraph explains the project's mission: 'By making the form and content of cuneiform texts available online, the CDLI is opening pathways to the rich historical tradition of the ancient Middle East. In close collaboration with researchers, museums and an engaged public, the project seeks to unharness the extraordinary content of these earliest witnesses to our shared world heritage.' Below this text is a search bar with the placeholder 'Search for publications, provenience, collection number, and more.' and a 'Free Search' button. There are also links for 'Search settings' and 'Advanced search'.

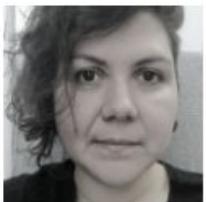
# Community and users

Directorship, administrators, and traffic

Pagé-Perron, Émilie

Co-Director

University of York



Dahl, Jacob L.

Co-Director

University of Oxford



Lafont, Bertrand

Co-Director

Centre National de la  
Recherche Scientifique,  
Paris



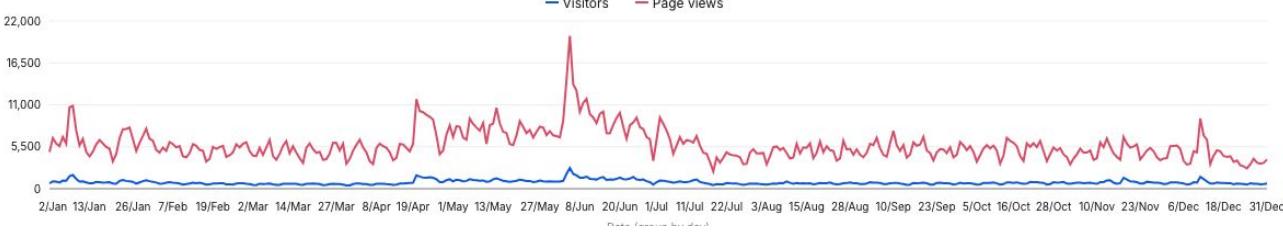
Renn, Jürgen

Co-Director

Max-Planck-Institut für  
Geoanthropologie

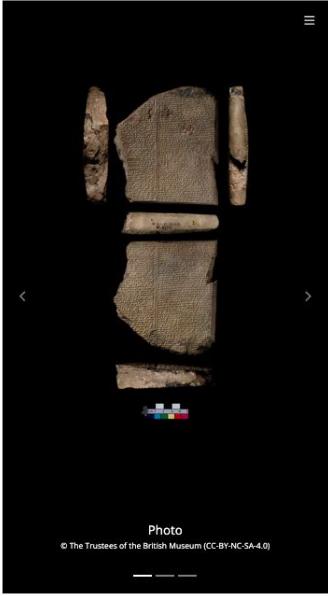


- 210,000 visitors (2024)
- 2,000,000 page views (2024)
- 4 directors
- 5 database administrators
- 420 registered users
- 12,000 edits submitted (2024)



MAX-PLANCK-GESELLSCHAFT

# Artifacts



## Gilgamesh II 124ff, (P273210)

Literary tablet excavated in Nineveh (mod. Kuyunjik), dated to the Neo-Assyrian (ca. 911-612 BC) period and now kept in British Museum, London, UK

Export artifact ▾

History ▾

Edit ▾

MUSEUM COLLECTION(S)  
British Museum, London, UK

MUSEUM NUMBER  
BM —

PERIOD  
Neo-Assyrian (ca. 911-612 BC)

PROVENIENCE  
Nineveh (mod. Kuyunjik)

ARTIFACT TYPE  
Tablet

MATERIAL(S)  
Clay

GENRE / SUBGENRE(S)  
Literary (Gilgamesh Epic 11 (witness))

LANGUAGE(S)  
Akkadian

MEASUREMENTS  
—

WITNESS  
—

Collections

Physical Information

Text Information

Related publications

Identifiers

# النحوص المسمارية

- +380,000 records
- +140,000 texts with photographs
- +85,000 texts with drawings
- catalogue data
  - material
  - artifact type
  - language
  - genre
  - dating
  - provenience
- +150,000 texts with transliterations
- +5,000 texts with translations



# Proveniences

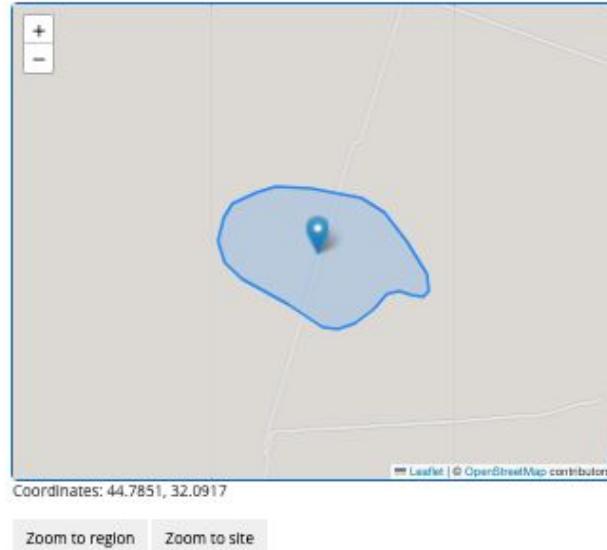
Indexing inscriptions by archaeological site

Provenience: Marad (mod. Wanna-wa-Sadum)

History

Edit

Region	Southern Mesopotamia
Related artifacts	59 artifacts
<b>ANCIENT PLACE</b>	
Marad	
<b>LOCATION</b>	
Tall Sadūm	
<b>Name</b> <b>Language</b>	
تل سعدوم	ar
<b>Resource</b> <b>Link</b>	
OpenStreetMap Nodes	3377362692
GeoNames	6788812
Geomapping Landscapes of Writing	MRD



Geomapping  
Landscapes  
of Writing



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- +700 records
- location
- name(s)
- associated texts
- publications
- external links
  - Geonames
  - OpenStreetMap
  - Wikidata

# Collections

Indexing inscriptions by museum collection

Collection: National Museum of Iraq, Baghdad, Iraq

Edit

## Information

Link	<a href="https://www.theiraqmuseum.com/index.html">https://www.theiraqmuseum.com/index.html</a>
Related artifacts	24829 artifacts

## Names

Name	Language
Iraq Museum	en
المتحف العراقي	ar

## Linked data

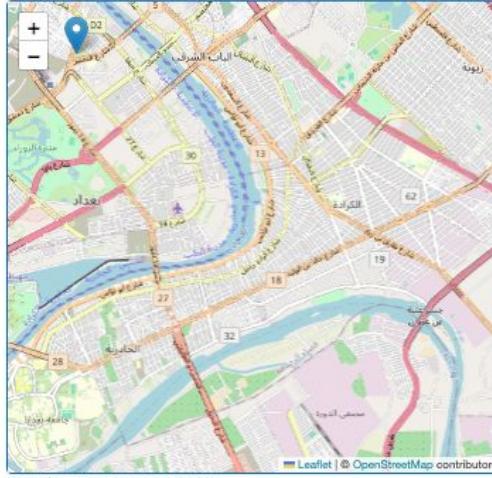
Resource	Link
Wikidata	<a href="#">Q521251</a>
OpenStreetMap Nodes	<a href="#">7973082344</a>
English Wikipedia	<a href="#">Iraq_Museum</a>

## Photo copyright

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Owner	
License	

## Location



## Administrative regions

Country	Iraq IRQ
Region	Baghdad IRQ.10_1
District	Adhamiya IRQ.10_1_1

"National Museum of Iraq, Baghdad, Iraq - Collections." Cuneiform Digital Library Initiative. February 23, 2025. <https://cdli.mpiwg-berlin.mpg.de/collections/1100>.



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# Publications

## Linking inscriptions to a central bibliography

### Publications

From this page you can access the bibliography relating to cuneiform artifacts and to some entities such as provenances and periods. Use the search function provided to filter out the publications of your choice and browse below using the pager.

[Export Publications](#) ▾

Search					
Search	Reset	BibTeX Key	Authors	Designation	Reference
		1921KUB1	KUB 01	1921. Keilschrifturkunden Aus Boghazkoi.	<a href="#">Edit</a>
		1922KUB2	KUB 02	1922. Vol. 2. Keilschrifturkunden Aus Boghazkoi.	<a href="#">Edit</a>
		1922KUB04	KUB 04	1922. Vol. 4. Keilschrifturkunden Aus Boghazkoi.	<a href="#">Edit</a>
		1922KUB5	KUB 05	1922. Vol. 5. Keilschrifturkunden Aus Boghazkoi. Berlin.	<a href="#">Edit</a>
		1922KUB6	KUB 06	1922. Keilschrifturkunden Aus Boghazkoi.	<a href="#">Edit</a>
		1923KUB7	KUB 07	1923. Vol. 7. Keilschrifturkunden Aus Boghazkoi.	<a href="#">Edit</a>
		1923KUB08	KUB 08	Nd. Vol. 8. Keilschrifturkunden Aus Boghazkoi.	<a href="#">Edit</a>
		1923KUB9	KUB 09	1923. Vol. 9. Keilschrifturkunden Aus Boghazkoi.	<a href="#">Edit</a>
		1939KUB33	KUB 33	Nd. Vol. 33. Keilschrifturkunden Aus Boghazkoi.	<a href="#">Edit</a>
		2024-TCDUJ	Smedt, Gustav Ryberg	COLB 2024:1	Smedt, Gustav Ryberg. 2024. "An Old Babylonian Ur3 Text from the National Museum of Denmark." Cuneiform Digital Library Bulletin 2024 (1).
		5875	Shahri-i Sokhta I	Nd.	

- +20,000 records
- linked authors and editors
- linked journals
- URL or DOI to free version
- associated cuneiform texts

Further on NABU 2001/7: an administrative tablet from the 3rd Dynasty of Ur

Entry type		article	Cite this Publication	
BibTeX Key	Designation	Rattenborg_Arbell2014	Chicago	APA
	Authors	Rattenborg, Rune Arbell, Troels Pank	Rattenborg, Rune Arbell, Troels Pank	
	Editors			
	Journal	NABU, Nouvelles Assyriologiques Brèves et Utilitaires		
	Series			
	URL			

#### RELATED ARTIFACTS

[Full search results](#)

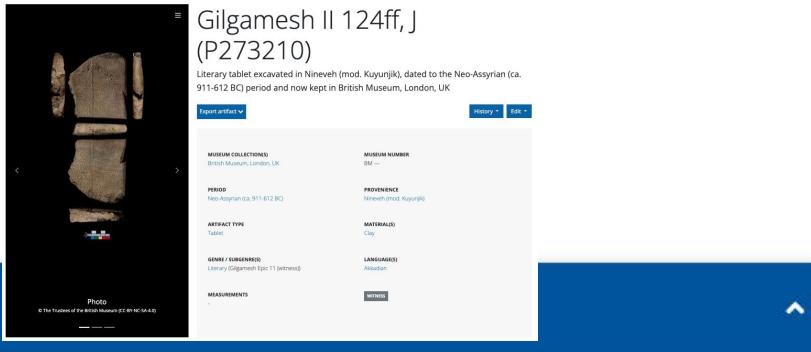
Identifier	Designation	Museum Collections	Period	Provenience	Artifact Type	Publication Type	Exact Reference	Publication Comments
P200934	NABU 2001/007		Ur III (ca. 2100-2000 BC)	Girsu (mod. Tello)	tablet	history		



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# External resources

## External Resources



Gilgamesh II 124ff, J  
(P273210)

Literary tablet excavated in Nineveh (mod. Kuyunjik), dated to the Neo-Assyrian (ca. 911-612 BC) period and now kept in British Museum, London, UK.

MUSEUM COLLECTIONS: British Museum, London, UK

PERIOD: Neo-Assyrian (ca. 911-612 BC)

ARTIFACT TYPE: Tablet

GENRE / SUBGENRE: Literary (Gilgamesh Epic 11 (witness))

MEASUREMENTS:

MUSEUM NUMBER: BM 124

PROVENIENCE: Nineveh (mod. Kuyunjik)

MATERIAL(S): Clay

LANGUAGE(S): Akkadian

WITNESS:

Consult this artifact as presented on the website of collections and projects:

[Electronic Babylonian Library \(K.3375\)](#)

[Electronic Babylonian Library \(Rm.616\)](#)

[Ancient Records of Middle Eastern Polities \(P273210\)](#)

[Ashurbanipal Library Project \(P273210\)](#)

[The British Museum Collection \(W\\_K-3375\)](#)

"Gilgamesh II 124ff, J Artifact Entry." (2005) 2023. Cuneiform Digital Library Initiative (CDLI). September 9, 2023. <https://cdli.ucla.edu/P273210>.

- Linking to +200 external databases
- +400,000 external links to cuneiform inscriptions
- Museums, collections, libraries
- Assyriology and archaeology databases



# Exercises Part 1: Search workflows

- Use the standard search function
  - <https://cdli.mpiwg-berlin.mpg.de/search>
  - stone, something else
- Search for artifacts from the collections index
  - <https://cdli.mpiwg-berlin.mpg.de/collections/>
  - Liagre Böhl -> then click on Related artifacts link
- Search for artifacts from the regions index
  - <https://cdli.mpiwg-berlin.mpg.de/regions/>
  - Choose a region -> choose a provenience -> then click on Related artifacts link
- Search for artifacts from the publications index
  - <https://cdli.mpiwg-berlin.mpg.de/publications/>
  - “Molina” -> click on Molina2005Nisaba9 -> Click on Full search results



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# Exercises Part 2: Download catalogue data

- Download the catalogue data of a corpus of 1000 entries or less and open the file in your preferred application for working with tabular data (Excel, OpenRefine, etc.)



# Exercises Part 3: Visualise data

- Review your downloaded search results and evaluate the different types of information contained in the table
- Visualise the dataset by cross-referencing at least two types of entities
  - provenience and period
  - provenience and material
  - material and object type
  - object type and genre
  - ....and so on
- Create a visualisation using either charts, graphs or maps



# Exercises Part 4: Complex data sets (optional)

- Produce visualisations from published static data sets:
- For a social network, see for example [A Social Network of the Prosopography of the Neo-Assyrian Empire](#)
- For a linguistic network, see for example [ANEE Lexical Networks v.2.0](#)
- Check out other datasets from the session [Resources](#)



# Contact us!

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