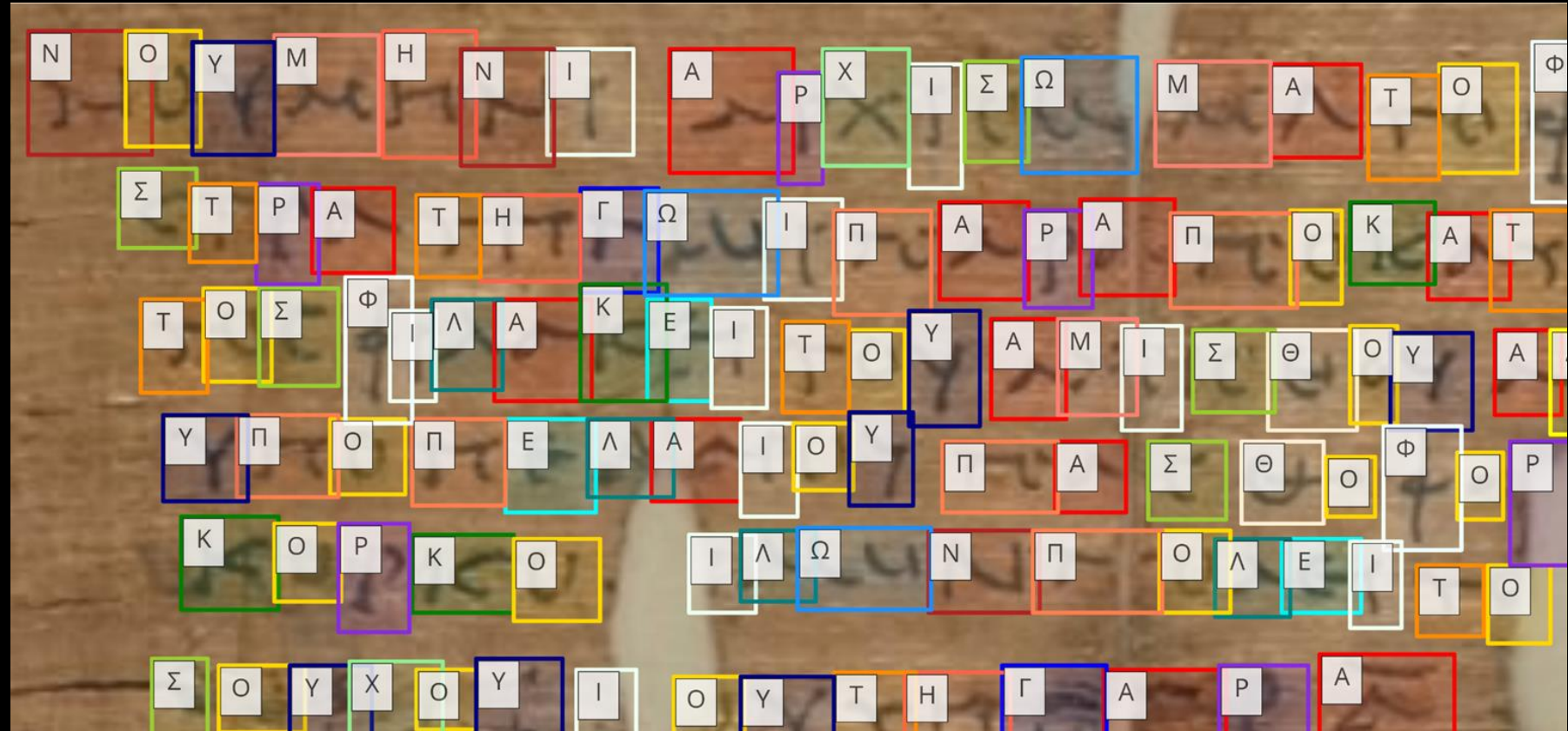


A variant to HTR:  
Detection and  
recognition  
of Greek characters  
on papyri



# A word of context

- A millennium of Greek in Egypt (end of 4th BCE - beginning of 8th CE)

# A word of context

- A millennium of Greek in Egypt (end of 4th BCE - beginning of 8th CE)
  - > large diversity of content, scripts, writing skills

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# A word of context

- A millennium of Greek in Egypt (end of 4th BCE - beginning of 8th CE)
  - > large diversity of content, scripts, writing skills
- Most of the time small, damaged, fragmented, variously digitized
- 80,000 texts already published,
  - no urge for HTR on unpublished pieces
  - > Rather than automatic detection, search for similar handwritings  
(same document, same writer, same style)



# Transkribus in 2020 (with T. Hodel and P. Koutroumpis)

Transkribus v1.10.0 (23\_01\_2021\_15:03) | Loaded doc: TRAIN\_CITlab\_Zenon Papyri\_duplicated... ID: 291227, Page 1, file: P.Cair.Zen.III.59377.jpg [Image Meta Info: (Resolution:72.0, w\*h: 573 \* 550)] [ current line: w\*h: 405 \* 35 ]

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Document ManagerUser Manager

VersionsJobs

Recent Documents...User activity

Collections:papyri (34759, Editor)Col-ID

DocumentsHTR Model Data

1-20 / 201 1

ID	Title	Pages	Uploader	Uploaded	Coll
2993...	TRAINING_VALIDATION_SET_gr...	2	tobias.hodel...	Mon Dec 23...	(pap
2967...	TRAINING_VALIDATION_SET_gr...	2	tobias.hodel...	Tue Dec 17 ...	(pap
2912...	TRAIN_CITlab_Zenon Papyri_du...	3	tobias.hodel...	Mon Dec 09...	(pap
2912...	TEST_CITlab_Zenon Papyri_dup...	1	tobias.hodel...	Mon Dec 09...	(pap
291...	TRAIN_CITlab_Zenon papyri_...	30	tobias.hod...	Mon Dec 0...	(pap
2912...	TEST_CITlab_Zenon papyri_dup...	2	tobias.hodel...	Mon Dec 09...	(pap
2912...	TRAIN_CITlab_Zenon archive_d...	30	tobias.hodel...	Mon Dec 09...	(pap
2912...	TEST_CITlab_Zenon archive_du...	2	tobias.hodel...	Mon Dec 09...	(pap
2304...	TRAINING_TESTSET_greek-pap...	2	tobias.hodel...	Sat Oct 19 1...	(pap
2245...	TRAINING_TESTSET_Humarec_...	1	tobias.hodel...	Tue Oct 08 ...	(pap
2217...	WORK_ON_THIS-ddbdp-p1_t2i...	500	tobias.hodel...	Thu Oct 03 ...	(pap
2104...	TRAINING_TESTSET_greek-pap...	1	tobias.hodel...	Sat Sep 14 0...	(pap
1941...	ddbdp-p1_t2i_3	500	tobias.hodel...	Sat Aug 10 ...	(pap
1780...	ddbdp-p1_t2i	239	tobias.hodel...	Sun Jun 30 ...	(pap
1780...	ddbdp-p1_t2i_2	500	tobias.hodel...	Sun Jun 30 ...	(pap
1579...	ddbdp P1 Imgs	500	tobias.hodel...	Thu May 02 ...	(pap
1389...	la_digitexx	2	tobias.hodel...	Thu Mar 21 ...	(pap
1313...	ddbdp p3 Images	564	tobias.hodel...	Thu Feb 28 ...	(pap
18972	TEST_CITlab_Humarec Greek M1	1	guenter	Tue May 09 ...	(CIT
18970	TRAIN_CITlab_Humarec Greek ...	35	guenter	Tue May 09 ...	(CIT

Doc-ID

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100Filter

4n904  
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ΥΠΕΡΜΕΝΙ... ΤΑ ΖΗΤΟΥ... ΤΟ ΑΛΛΟ ΕΓΧΡΙΣΤΟΣ ΚΑΙ  
ΙΣΚΑΒΕΛΑ... ΜΕΝΕΣΤΕΙ ΔΙΟΤΕΡΩΔΙΑ...  
ΜΕΝΕΝ... ΑΥΤΗ... ΣΥΝΕΛΕΞΕ... ΕΚΕΙΝΑ  
ΠΕΡΕ... ΚΑΙ... ΛΕΥ... ΤΟΥ  
ΧΕΡ... ΕΝ... ΧΟΡΗΓΕ... ΗΜΙΝ  
ΤΑ ΚΑΤ' ΤΗΝ ΣΥΝΓΡΑΦΗΝ... ΝΥΝ ΟΥΝ ΑΞΙΟΥΜΕΝ ΣΕ ΠΟΙΕΙΝ  
ΚΑΘΑΠΕΡ ΕΠΗΓΓΕΙΛΟΥ, ΩΣΤΕ ΚΑΙ ΠΡΟΔΑΝΙΖΕΙΝ(\*) ΗΜΙΝ·  
ΑΥΤΟΣ ΓΑΡ ΕΠΙΣΤΗ ΟΤΙ ΟΥΘΕΝ ΓΕΝΗΜΑ ΓΕΓΟΝΕΝ  
ΠΑΡΑ ΤΟ ΤΗΝ ΑΝΥΔΡΙΑΝ ΓΕΝΕΣΘΑΙ ΚΑΙ ΕΙΣ ΤΟΝ ΕΠΕΡ-  
ΧΟΜΕΝΟΝ ΧΡΟΝΟΝ ΠΕΠΟΝΗΚΕΝ. ΝΥΝ ΟΥΝ ΑΠΟΦΑΝΟΝ  
ΗΜΙΝ Θ' ΑΝ ΣΟΙ ΔΟΚῆΙ, ἵνα μὴ καταφθεῖν/ρωμεσθαι

1-4

τε ἐργάσασθαι ἡμᾶς καὶ ἄλλην πλέω τοῦτου

1-5

χέρσον γεγενῆσθαι παρὰ τὸ μὴ σε χορηγεῖν ἡμῖν

1-6

τὰ καλ' τὰ/ τὴν συγγραφὴν —, νῦν οὖν ἀξιοῦμέν σε ποιεῖν

1-7

καθάπερ ἐπηγγείλου, ὥστε καὶ προδανίζειν(\*) ἡμῖν·

1-8

αὐτὸς γάρ ἐπίστη ὅτι οὐθέν γένημα γεγονόςεν

1-9

παρὰ τὸ τὴν ἀνυδρίαν γενέσθαι καὶ εἰς τὸν ἐπερ-

1-10

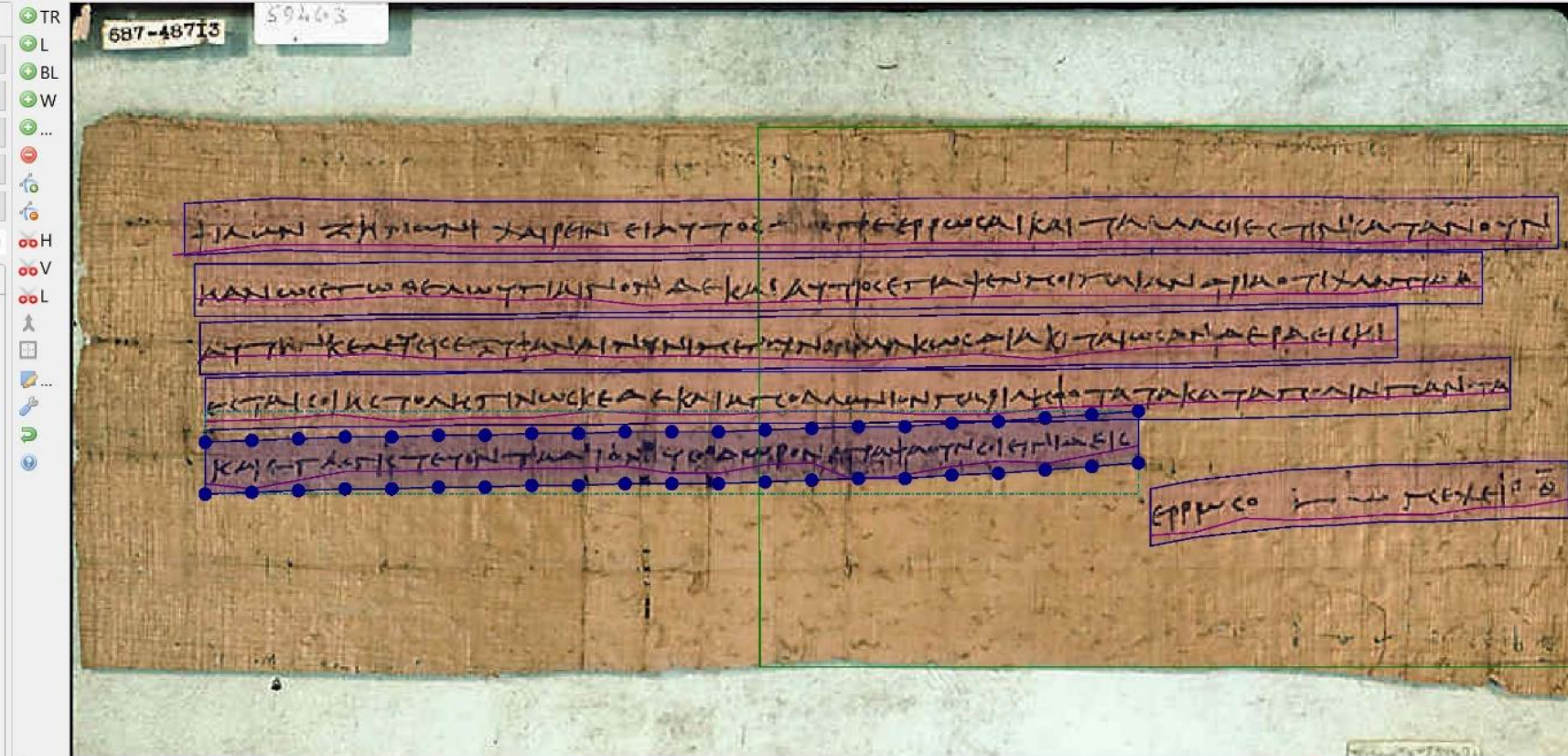
χόμενον χρόνον πεπόνηκεν. νυνὶ οὖν ἀπόφανον

1-11

ἡμῖν θ' ἂν σοι δοκῇ, ἵνα μὴ καταφθεῖν/ρωμεσθαι



ID	Title	Pages	Uploader	Uploaded	Coll
3778...	TEST_CITlab_Zenon archive_dip...	2	imarthot@y...	Thu Apr 30 ...	(pap
<b>377...</b>	<b>TRAIN_CITlab_Zenon archive...</b>	<b>30</b>	<b>imarthot@...</b>	<b>Thu Apr 30...</b>	<b>(pa</b>
3704...	TRAIN_CITlab_Zenon papyri_di...	4	imarthot@y...	Thu Apr 16 ...	(pap
2993...	TRAINING_VALIDATION_SET_gr...	2	tobias.hodel...	Mon Dec 23...	(pap
2967...	TRAINING_VALIDATION_SET_gr...	2	tobias.hodel...	Tue Dec 17 ...	(pap
2912...	TRAIN_CITlab_Zenon Papyri_du...	3	tobias.hodel...	Mon Dec 09...	(pap
2912...	TEST_CITlab_Zenon Papyri_dup...	1	tobias.hodel...	Mon Dec 09...	(pap
2912...	TRAIN_CITlab_Zenon papyri_du...	30	tobias.hodel...	Mon Dec 09...	(pap
2912...	TEST_CITlab_Zenon papyri_dipl...	2	tobias.hodel...	Mon Dec 09...	(pap
2912...	TRAIN_CITlab_Zenon archive_d...	30	tobias.hodel...	Mon Dec 09...	(pap
2912...	TEST_CITlab_Zenon archive_du...	2	tobias.hodel...	Mon Dec 09...	(pap
2304...	TRAINING_TESTSET_greek-pap...	2	tobias.hodel...	Sat Oct 19 1...	(pap
2245...	TRAINING_TESTSET_Humarec_...	1	tobias.hodel...	Tue Oct 08 ...	(pap
2217...	WORK_ON_THIS-ddbdp-p1_t2i...	500	tobias.hodel...	Thu Oct 03 ...	(pap
2104...	TRAINING_TESTSET_greek-pap...	1	tobias.hodel...	Sat Sep 14 0...	(pap
1941...	ddbdp-p1_t2i_3	500	tobias.hodel...	Sat Aug 10 ...	(pap
1780...	ddbdp-p1_t2i	239	tobias.hodel...	Sun Jun 30 ...	(pap
1780...	ddbdp-p1_t2i_2	500	tobias.hodel...	Sun Jun 30 ...	(pap
1579...	ddbdp P1 lmg	500	tobias.hodel...	Thu May 02 ...	(pap
1389...	la_digitexx	2	tobias.hodel...	Thu Mar 21 ...	(pap
1313...	ddbdp p3 lmg	564	tobias.hodel...	Thu Feb 28 ...	(pap
18972	TEST_CITlab_Humarec Greek M1	1	guenter	Tue May 09 ...	(CIT
18970	TRAIN_CITlab_Humarec Greek ...	35	guenter	Tue May 09 ...	(CIT



- 1-1 φίλων·ζηνωνι·χαιρειν·ειαυτοστοστεερρωσαικαιταλλασοιεστινκατανουν
- 1-2 ηανωσεγωθελωσυγαινονδεκαιαυτοσεγραψενμοιμαιανδριαοτιχλαμυδα
- 1-3 αυτηνκελευεισεξυφαναινυνιμενουνμαλακωσδιακитайωσανδεραεισιη
- 1-4 εσταισοιηστοληγινωσκεδεκαιαπολλωνιονπαριληφοτατακαταπολινπαντα
- 1-5 καιεγλογιστευονταδιονυσοδωρονεγραψαουνκοεινιδεις
- 1-6 ερρωσο··λδ·μεχειρ·θ

Isabelle Marthot-Santaniello and Tobias Hodel, “Papyri, Handwritten Text Recognition, and Text Processing. State of the Art and Outlook – Approaches to a digital paleography”, Proceedings of the international workshop [In the Name of the Rose Searching for Unknown, Lost, and Forgotten Ancient Texts](#), Rome, September 30-October 1, 2021  
Forthcoming publication

Dataset “Ground-Truthed Data Set of Zenon Papyri for Handwritten Text Recognition” <https://zenodo.org/records/6565706>

# EGRAPSA team

- Olga Serbaeva Saraogi (DH)
- Lavinia Ferretti (Papyrology)
- Giuseppe de Gregorio (Computer Science)
- Pedro Garcia-Baro (Papyrology)
- Dinh Dung Van (Computer Science)



READ: Research Environment for Ancient Documents  
(O. Serbaeva, S. White)

**Isabelle**  
E: Isabelle  
V: Users  
A: Isabelle (Work in progress)

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PP

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60242 [3s] - P\_Laur\_IV\_128r

60242\_P\_Laur\_IV\_128r

- Word List
- Structures
- Paleography
- Syntax
- Translation
- Chayā

**EDIT**

Link segment Save polygon

Replace polygon Select polygons

Delete segment Off

Auto Link

Link by number 139 Seg. Number

**VIEW**

Numbers

P\_Laur\_IV\_128r

**60242\_P\_Laur\_IV\_128r** [epidoc]

**Iliad.5.159** (ΕΝΘ') ΥΙΑΣ ΠΡΙΑΜΟΙΟ ΔΥΩ ΛΑΒΕ Δ(ΑΡΔΑΝΙΔΑΟ)  
**Iliad.5.160** (ΕΙΝ) ΕΝΙ ΔΙΦΡΩ ΕΟΝΤΑΣ ΕΧΕΜΜ(ΟΝΑ ΤΕ ΧΡΟΜΙΟΝ ΤΕ.)  
**Iliad.5.161** (ΩΣ ΔΕ) ΛΕΩΝ ΕΝ ΒΟΥΣΙ ΘΟ(Ρ)ΩΝ Ε(Ξ ΑΥΧΕΝΑ ΑΞΗ)  
**Iliad.5.162** (ΠΟΡΤΙ)ΟΣ ΗΕ ΒΟΟΣ ΞΥΛΟΧΟΝ ΚΑΤΑ (ΒΟΣΚΟΜΕΝΑΩΝ ,)  
**Iliad.5.163** (ΩΣ Τ)ΟΥΣ ΑΜΦΟΤΕΡΟΥΣ ΕΞ (ΙΠΠΩΝ ΤΥΔΕΟΣ ΥΙΟΣ)  
**Iliad.5.164** (ΒΗCΕ) ΚΑΚΩΣ ΑΕΚΟΝΤΑΣ (,) Ε(ΠΕΙΤΑ ΔΕ ΤΕΥΧΕ' ΕCΥΛΑ -)  
**Iliad.5.165** (ΙΠΠΟΥC) Δ(') ΟΙC ΕΤΑΡΟΙCΙ ΔΙΔΟ(Υ ΜΕΤΑ ΝΗC ΕΛΑΥΝΕΙΝ.)  
**Iliad.5.166** (ΤΟΝ Δ') ΙΔΕΝ ΑΙΝΕΙ(ΑC ΑΛΑΠΑΖΟΝΤΑ CΤΙΧΑC ΑΝΔΡΩΝ ,)  
**Iliad.5.167** (ΒΗ Δ' ΙΜ)ΕΝ (ΑΝ) ΤΕ Μ(ΑΧΗΝ ΚΑΙ ΑΝΑ ΚΛΟΝΟΝ ΕΓΧΕΙΑΩΝ)  
**Iliad.5.168** (ΠΑΝΔΑΡΟΝ) ΑΝΤΙ(ΘΕΟΝ ΔΙΖΗΜΕΝΟC ΕΙ ΠΟΥ ΕΦΕΥΡΟΙ -)

**Papyri.info** [sign in](#)

Browse: DDbDP HGV APIS DCLP Authors TM Number

or Search: [Data](#) [Bibliography](#)

**Trismegistos 60242 - LDAB 1501**

☒ metadata  
☒ TM data ☒ DCLP data

☒ text  
☒ transcription

[open in editor](#)

Canonical URI: <http://papyri.info/dclp/60242>

**DCLP/LDAB Data [xml]**

**Title** TM 60242  
**Work** Homerus, Ilias  
**Content catalogue** Homerus; Ilias 05.159-168  
**16711.** Martin L. West, *Studies in the Text and Transmission of the Iliad.*, (München 2001). 473 b  
**Fragments** Florence, Biblioteca Medicea Laurenziana PL 72  
**Support Material** papyrus  
**Date** 1 - 99 [\[More from the period between 1 CE and 99 CE\]](#)  
**Origin** Found: Egypt; written: Egypt [\[More from Found: Egypt; written: Egypt\]](#)  
**Form and Layout** papyrus roll (columns: 0, pagination: 0)  
**Script Type** formal round  
**Genre** poetry; epic  
**Culture** literature  
**Religion** classical  
**Images** [psi-online.it/.../plaur](http://psi-online.it/.../plaur)  
**Print Illustrations** ZPE 18 (1975), pl. Xb; P.Laur. 4, pl. XCVII; cd-ROM, Papiiri letterari della Bibl. Medicea Laurenziana  
**Availability** © Digital Corpus of Literary Papyri. This work is licensed under a [Creative Commons Attribution 3.0 License](#).

# READ built on Turfan and not Leiden conventions

60242\_P\_Laur\_IV\_128r [\[epidoc\]](#)

**Iliad.5.159** (ΕΝΘ') ΥΙΑΣ ΠΡΙΑΜΟΙΟ ΔΥΩ ΛΑΒΕ Δ(ΑΡΔΑΝΙΔΑΟ)  
**Iliad.5.160** (ΕΙΝ) ΕΝΙ ΔΙΦΡΩ ΕΟΝΤΑΣ ΕΧΕΜΜ(ΟΝΑ ΤΕ ΧΡΟΜΙΟΝ ΤΕ.)  
**Iliad.5.161** (ΩΣ ΔΕ) ΛΕΩΝ ΕΝ ΒΟΥΣΙ ΘΟ(Ρ)ΩΝ ΕΞ ΑΥΧΕΝΑ ΑΞΗΙ  
**Iliad.5.162** (ΠΟΡΤΙ)ΟΣ ΗΕ ΒΟΟΣ ΞΥΛΟΧΟΝ ΚΑΤΑ (ΒΟΣΚΟΜΕΝΑΩΝ ,)  
**Iliad.5.163** (ΩΣ Τ)ΟΥΣ ΑΜΦΟΤΕΡΟΥΣ ΕΞ (ΙΠΠΩΝ ΤΥΔΕΟΣ ΥΙΟΣ)  
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**Iliad.5.165** (ΙΠΠΟΥ)C Δ(') ΟΙC ΕΤΑΡΟΙCΙ ΔΙΔΟ(Υ ΜΕΤΑ ΝΗΑC ΕΛΑΥΝΕΙΝ.)  
**Iliad.5.166** (ΤΟΝ Δ') ΙΔΕΝ ΑΙΝΕΙ(ΑC ΑΛΑΠΑΖΟΝΤΑ CΤΙΧΑC ΑΝΔΡΩΝ ,)  
**Iliad.5.167** (ΒΗ Δ' ΙΜ)ΕΝ (ΑΝ) ΤΕ Μ(ΑΧΗΝ ΚΑΙ ΑΝΑ ΚΛΟΝΟΝ ΕΓΧΕΙΑΩΝ)  
**Iliad.5.168** (ΠΑΝΔΑΡΟΝ) ΑΝΤΙ(ΘΕΟΝ ΔΙΖΗΜΕΝΟC ΕΙ ΠΟΥ ΕΦΕΥΡΟΙ ·)

**DCLP transcription: 60242 [\[xml\]](#)**

[έν]θ' υἱ(·)ας Πριάμοιο δύω λάβε Δ[αρδανίδαο]  
[εἰ]ν ἐνὶ δίφρῳι ἐόντας Ἐχέμμο[νὰ τε Χρομίον τε].  
[ὥς δ]ὲ λέων ἐν βουσί θορῶν ἐξ αὐχένα ἄξιι  
[πόρτ]ιος ἡὲ βοὸς ξύλοχον κάτα [βοσκομενάων],  
5 [ὥς τ]οὺς ἀμφοτέρους ἐξ ἱ[ππων Τυδέος υἱὸς]  
[βῆσε] κακῶς ἀέκοντας, ἔ[πειτα δὲ τεύχε' ἐσύλα]:  
[ἵππο]υς δ' οἷς ἐτάροισι δίδο[υ μετὰ νῆας ἐλαύνειν].  
[τὸν] δ' ἴδεν Αἰνεῖ[ας ἀλαπάζοντα στίχας ἀνδρῶν],  
[βῆ δ' ἵ]μεν [ἄν] τε μ[άχην] καὶ ἀνὰ κλόνον ἐγχειάων  
10 [Πάνδαρον] ἀντί[θεον διζήμενος εἴ που ἐφεύροι]

-----

## Apparatus

△ 1. υἱας papyrus





# PalEx2

TM:

60214 [6] ▼

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P\_11645\_R\_001.jpg ▼



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☐ Δ

☐ E

Z

☒ H

☐ BaseType

☐ bt1

☐ bt2

☐ bt3

☐ bt4

☐ bt5

☐

FootMarkType

☐ ft1

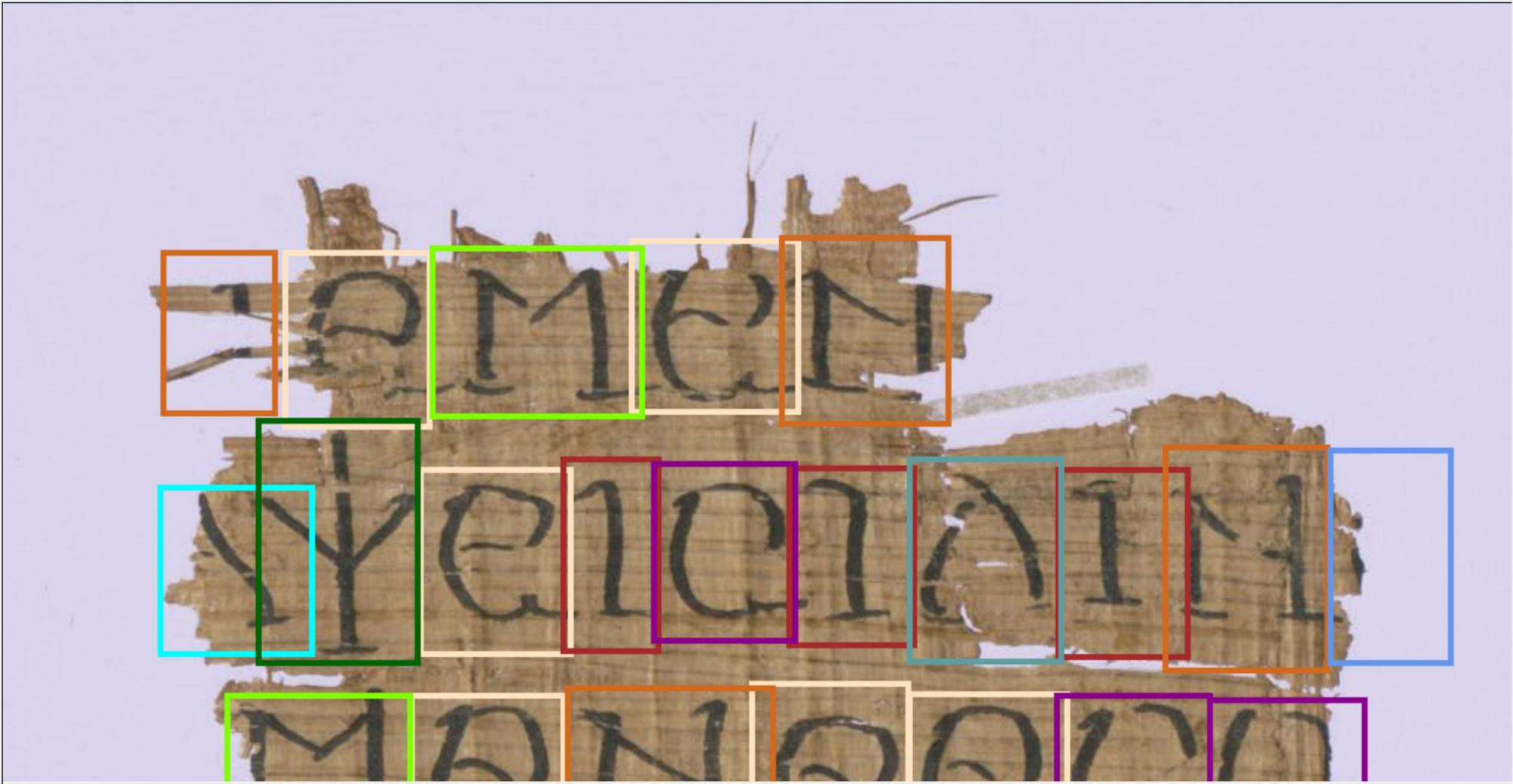
☐ ft2

☐ ft3

☐ ft4

Viewer

Explorer





# PalEx2

TM:

60214 [6] ▾

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P\_11645\_R\_001.jpg ▾



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☒ E

Z

☐ H

☐ **BaseType**

☒ bt1

☐ bt2

☐ bt3

☐ bt4

☐ bt5

☐

☐ **FootMarkType**










☐ ft1

☐ ft2

☐ ft3

☐ ft4

Viewer Explorer

Categories	BaseType	
	bt1	
A		
E	         	



ω\_60468\_bt1\_Ilia  
d.2.20.25.png



ω\_60468\_bt1\_Ilia  
d.2.22.22.png



ω\_60471\_bt1\_Ilia  
d.15.441.1.png



ω\_60475\_bt1\_Ilia  
d.17.87.38.png



ω\_60476\_bt1\_Ili  
AD.22.6.29.png



ω\_60476\_bt1\_Ili  
AD.22.7.33.png



ω\_60476\_bt1\_Ili  
AD.22.8.32.png



ω\_60476\_bt1\_Ili  
AD.22.45.6.png



ω\_60476\_bt1\_Ili  
AD.22.51.9.png



ω\_60476\_bt1\_Ili  
AD.22.57.3.png



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ω\_60479\_bt1\_Ilia  
d.1.578.9.png



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d.12.283.10.png



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d.12.290.17.png



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d.5.117.12.png



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d.11.43.22.png



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d.11.49.26.png



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d.11.51.15.png



ω\_60701\_bt1\_Ilia  
d.11.51.24.png



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d.5.558.35.png



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d.5.571.25.png



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d.5.575.23.png



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d.5.577.23.png



ω\_60732\_bt1\_Ilia  
d.5.598.13.png



ω\_60732\_bt1\_Ilia  
d.5.773.25.png



ω\_60732\_bt1\_Ilia  
d.5.775.24.png



ω\_60732\_bt1\_Ilia  
d.5.824.5.png



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d.8.175.22.png



ω\_60764\_bt1\_Ilia  
d.8.175.38.png



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d.8.177.30.png



ω\_60764\_bt1\_Ilia  
d.8.314.13.png



ω\_60764\_bt1\_Ilia  
d.8.314.19.png



ω\_60764\_bt1\_Ilia  
d.8.319.4.png



ω\_60812\_bt1\_Ilia  
d.8.110.3.png



ω\_60812\_bt1\_Ilia  
d.8.112.1.png



ω\_60812\_bt1\_Ilia  
d.8.115.2.png



ω\_60812\_bt1\_Ilia  
d.8.116.5.png



ω\_60842\_bt1\_Ilia  
d.5.487.4.png



ω\_60842\_bt1\_Ilia  
d.5.487.6.png





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## ICDAR2023 Competition on Detection and Recognition of Greek Letters on Papyri



# The 17th International Conference on Document Analysis and Recognition

August 21-26, 2023 — San José, California, USA



185 images from 136 different manuscripts of Homer's *Iliad*, covering the millennium between the 3<sup>rd</sup> c. BCE and the 7<sup>th</sup> c. CE

Published September 22, 2024 | Version Competition Dataset  
with Answers

Dataset

Open

# "ICDAR2023 Competition on Detection and Recognition of Greek Letters on Papyri" Dataset

Marthot-Santaniello, Isabelle (Project leader)<sup>1</sup> ; Serbaeva, Olga (Data manager)<sup>2</sup> ;

White, Stephen (Researcher)<sup>3</sup> ; Agolli, Selaudin (Other)<sup>2</sup> ; Seuret, Mathias (Researcher)<sup>4</sup> ;

Carrière, Guillaume (Researcher) ; Rodriguez-Salas, Dalia (Researcher)<sup>4</sup> ;

Christlein, Vincent (Researcher)<sup>4</sup>

Show affiliations

## Dataset description of the “ICDAR2023 Competition on Detection and Recognition of Greek Letters on Papyri”

Prof. Dr. Isabelle Marthot-Santaniello, Dr. Olga Serbaeva

2024.09.16



# GlyFix

GlyFix is a powerful tool designed to simplify and streamline the management of AI-generated annotations.

You can test GlyFix:

<http://86.119.46.108/>

You can download some annotated papyri:

<https://drive.switch.ch/index.php/s/T0nW3MXnTT6mCwu>



Scan Me



## Create a New Project

New Project

## Preloaded Projects

Project ID	Project Name		
10003	P.Oxy_bizantino.pap	Load	Delete
10006	latino_murale.pap	Load	Delete
10009	eng.pap	Load	Delete
00006	TM065795_Derveni_UNESCO_greece_derveni_papyrus_amth2.pap	Load	Delete
00002	TM062931_TimotheusPersae_crop2.pap	Load	Delete
00000	TM065797_The_Curse_of_Artemisia_Fragment_WDL4310.pap	Load	Delete
00003	TM062931_TimotheusPersae_crop3.pap	Load	Delete



## Viewer&Corrector

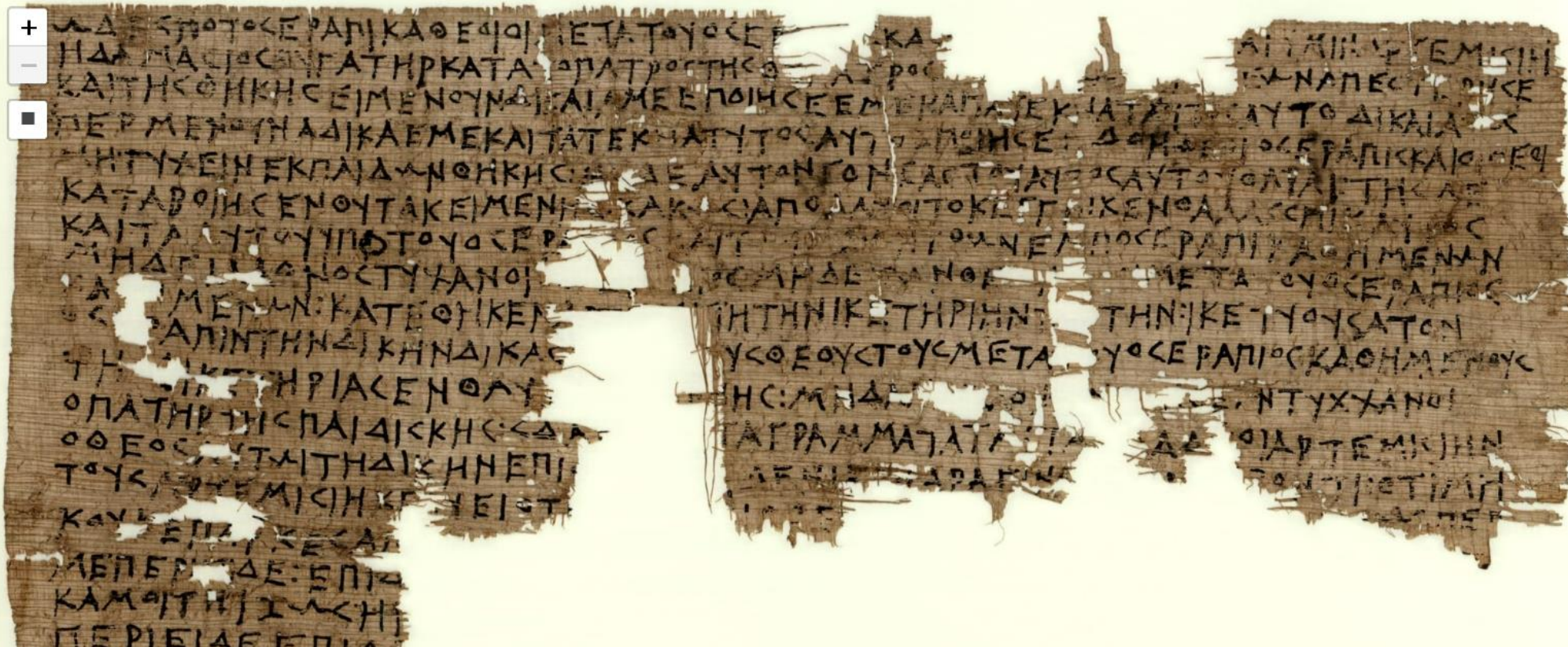
Download the current annotation JSON:

Download

**Upload annotation JSON file:**

Browse...

No file selected.

☐ Show Labels    ☐ All    ☐ A    ☐ B    ☐ Γ    ☐ Δ    ☐ E    ☐ Z    ☐ H    ☐ Θ    ☐ K    ☐ I    ☐ Λ    ☐ M    ☐ N    ☐ ≡    ☐ O    ☐ Π    ☐ P    ☐ T    ☐ Y    ☐ Φ    ☐ X    ☐ Ψ    ☐ C    ☐ Ω    ☐ Unknown



ViewerAndCorrector

localhost:5500/corrector.html?toml=toml/00000.toml&json\_file=data/docs/00000/predictions.json&img\_file=data/docs/00000/TMI

Show Labels

All

A

B

Г

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H

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Unknown

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Focus View

Annotation View

Overlapping View



☒ Show Labels ☒ All ☒ A ☒ B ☒ Γ ☒ Δ ☒ E ☒ Z ☒ H ☒ Θ ☒ K ☒ I ☒ Λ ☒ M ☒ N ☒ Ξ ☒ O ☒ Π ☒ P ☒ T ☒ Y ☒ Φ ☒ X ☒ Ψ ☒ C ☒ Ω ☒ Unknown





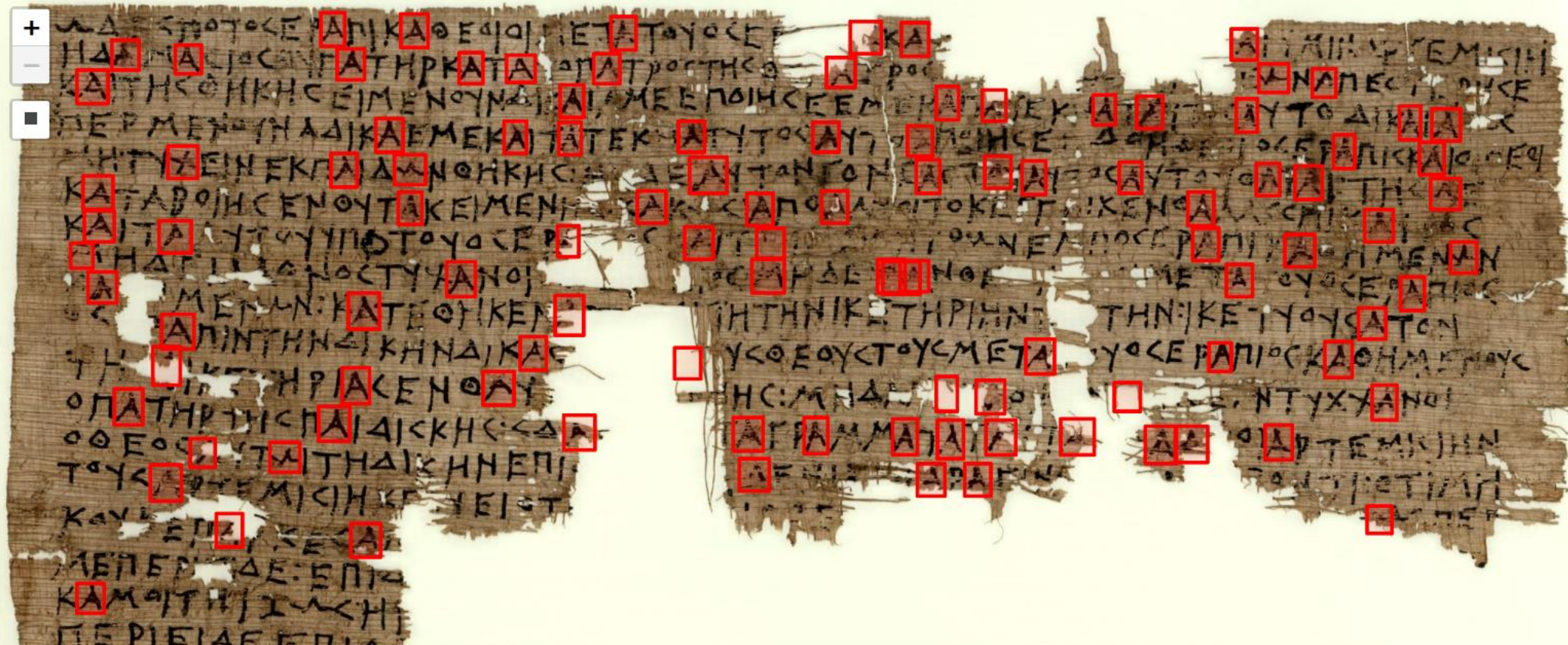
## Viewer&Corrector

Download the current annotation JSON: [Download](#)

Upload annotation JSON file:

[Browse...](#) No file selected.

☐ Show Labels ☐ All ☒ A ☐ B ☐ Γ ☐ Δ ☐ E ☐ Z ☐ H ☐ Θ ☐ K ☐ I ☐ Λ ☐ M ☐ N ☐ Ξ ☐ O ☐ Π ☐ P ☐ T ☐ Y ☐ Φ ☐ X ☐ Ψ ☐ C ☐ Ω ☐ Unknown





ViewerAndCorrector

localhost:5500/corrector.html?toml=toml/00000.toml&json\_file=data/docs/00000/predictions.json&img\_file=data/docs/00000/TM

Focus View

Annotation View

Overlapping View

Annotation View

A

Num of Annotations:105

Score:1.00

Score:1.00

Score:1.00

Score:1.00

Score:1.00

Score:0.49

Score:1.00

Score:1.00

Score:1.00

A

Save

Delete

Score:1.00

Score:1.00

Score:1.00

Score:1.00

Score:1.00

Score:1.00

Score:1.00

Score:1.00

Score:0.93

Score:1.00

Score:1.00

Score:1.00

Score:1.00

Score:1.00

Score:1.00

Score:1.00

Score:1.00

Score:1.00

Annotations Category:

A

BT Type:

bt1

Save

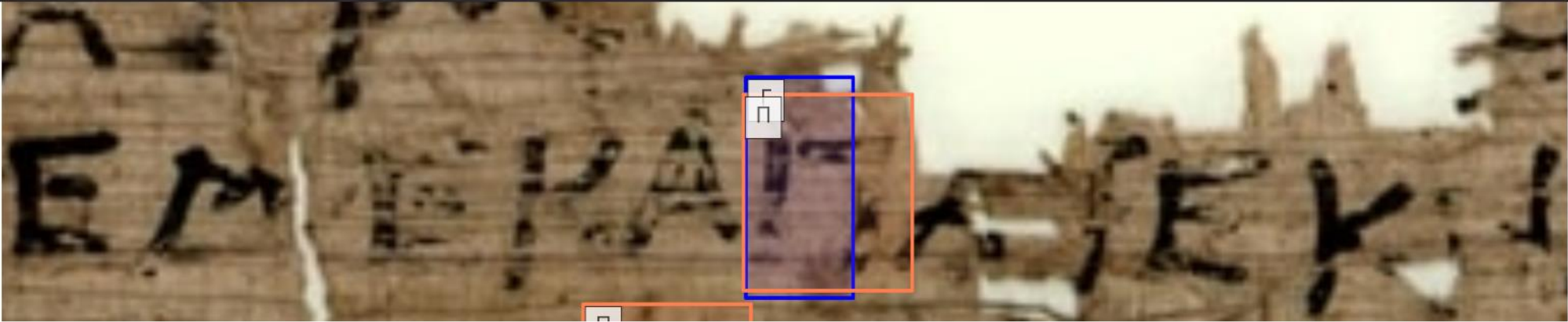
Delete

Annotation ID:0

image_id	0
category_id	8
bbox	[103.16734313964844, 97.81578063964844, 40.13116455078125, 43.89241027832031]
score	0.9999696016311646
id	0
tags:BaseType	['bt1']

ViewerAndCorrector

localhost:5500/corrector.html?toml=toml/00000.toml&json\_file=data/docs/00000/predictions.json&img\_file=data/docs/00000/TM



Focus View

Annotation View

Overlapping View


Overlapping Annotations View

<< Prev Overlapping Zone

Next Overlapping Zone >>

Num of Annotations:2

Overlapping Zones:8/85



Score:0.93

Save

Delete


Annotations Category:

BT Type:

Save

Delete

Annotation ID:193



image\_id

0

category\_id

107

[1235.6075439453125,

120.99188232421875,





Focus View   Annotation View   **Overlapping View**

Overlapping Annotations View

<< Prev Overlapping Zone   Next Overlapping Zone >>

Annotations Category:  
П

Published March 25, 2025 | Version v1

Dataset

 Open

# Hell-Date. EGRAPSA Hellenistic Dated Papyri Dataset

Ferretti, Lavinia<sup>1</sup> ; Serbaeva Saraogi, Olga<sup>1</sup> ; De Gregorio, Giuseppe<sup>1</sup> Marthot-Santaniello, Isabelle<sup>1</sup> [Show affiliations](#)

## Introduction

The present dataset stems from research pursued within the SNSF funded Starting Grant *EGRAPSA: Retracing the evolutions of handwritings in Graeco-Roman Egypt thanks to digital palaeography* (SNSF grant n° 211682). The aim is to provide solid ground truth for **palaeographic dating**, and **detection and recognition of characters** of **cursive handwritten ancient Greek**.

It is composed of **194 images of 157 papyri that are precisely dated** (within two years) from the Hellenistic period (3<sup>rd</sup> to 1<sup>st</sup> c. BCE, more precisely from -310 to -3). The chronological coverage is balanced around 50 papyri per century over the considered period (3<sup>rd</sup> to 1<sup>st</sup> c. BCE); only the earliest decades are not covered, and the decade 250s is overrepresented. Most documents come from Egypt, but there are a few outsiders from Near East. The dataset also includes the **annotation to the character level of these images**, every time the preservation of the original writing and the quality of the image allowed for an annotation. It is divided into two subsets, a training set comprising 176 images and a test set comprising 18 images, following the same division used in De Gregorio et al. 2024.


































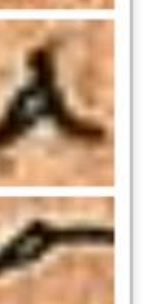












Select Letters (max 3):

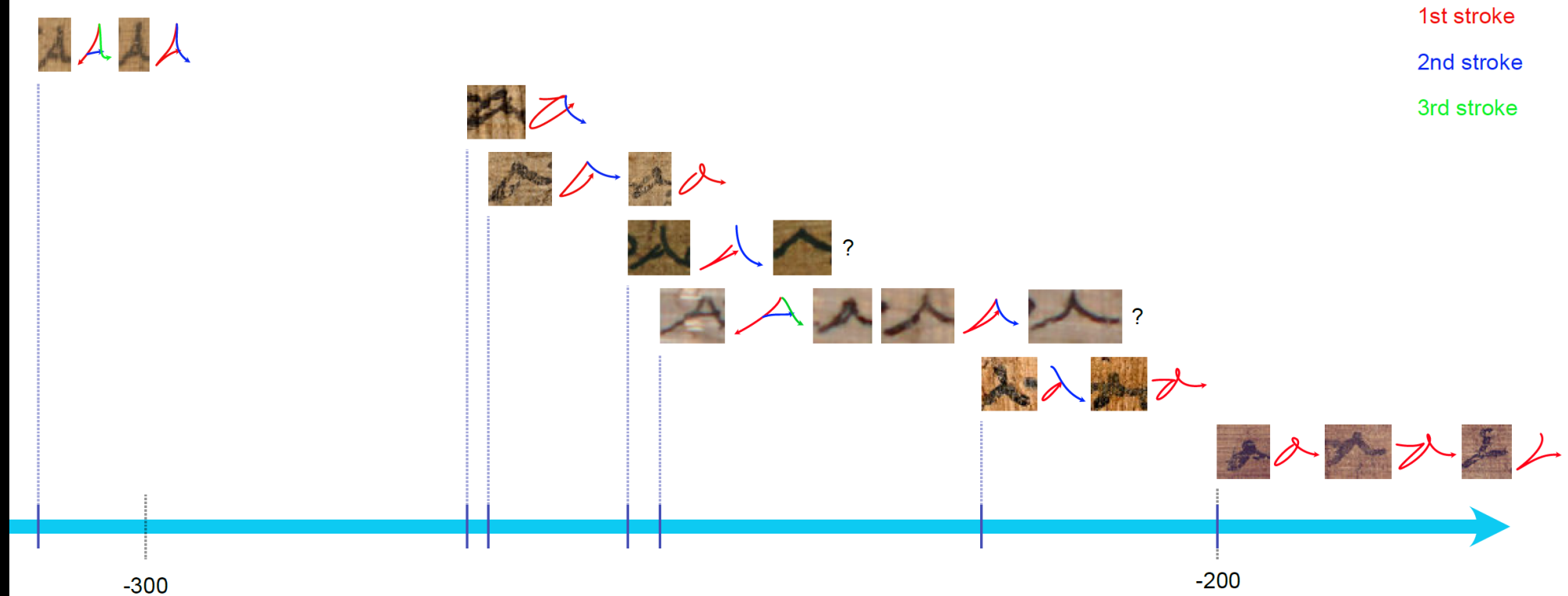
- ☒ A
- ☐ B
- ☐ X
- ☐ Δ
- ☐ E
- ☐ H
- ☐ Γ
- ☐ I
- ☐ K
- ☐ Λ
- ☐ M
- ☐ N
- ☐ Ω
- ☐ O
- ☐ Φ
- ☐ Π
- ☐ Ψ
- ☐ P
- ☐ Σ
- ☐ T
- ☐ Θ
- ☐ ς
- ☐ ϑ
- ☐ Q
- ☐ Y
- ☐ ≡
- ☐ Z

Filter by Date:

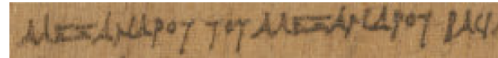
From: -310

To: -250

-310	-284	-282	-274	-270	-268	-264	-264	-261	-260	-259
5836	5837	5838	663	121852	121853	2821	3987	2818	2089	665
										
										
										
										
										



1. TM 5836 P.Eleph. 1



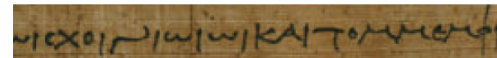
2. TM 121852 P.Sorb. III 70



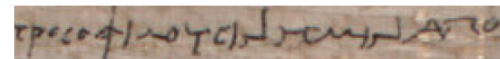
3. TM 121853 P.Sorb. III 71



4. TM 834 P.Cair.Zen. II 59188



5. TM 1945 P.Mich. I 45



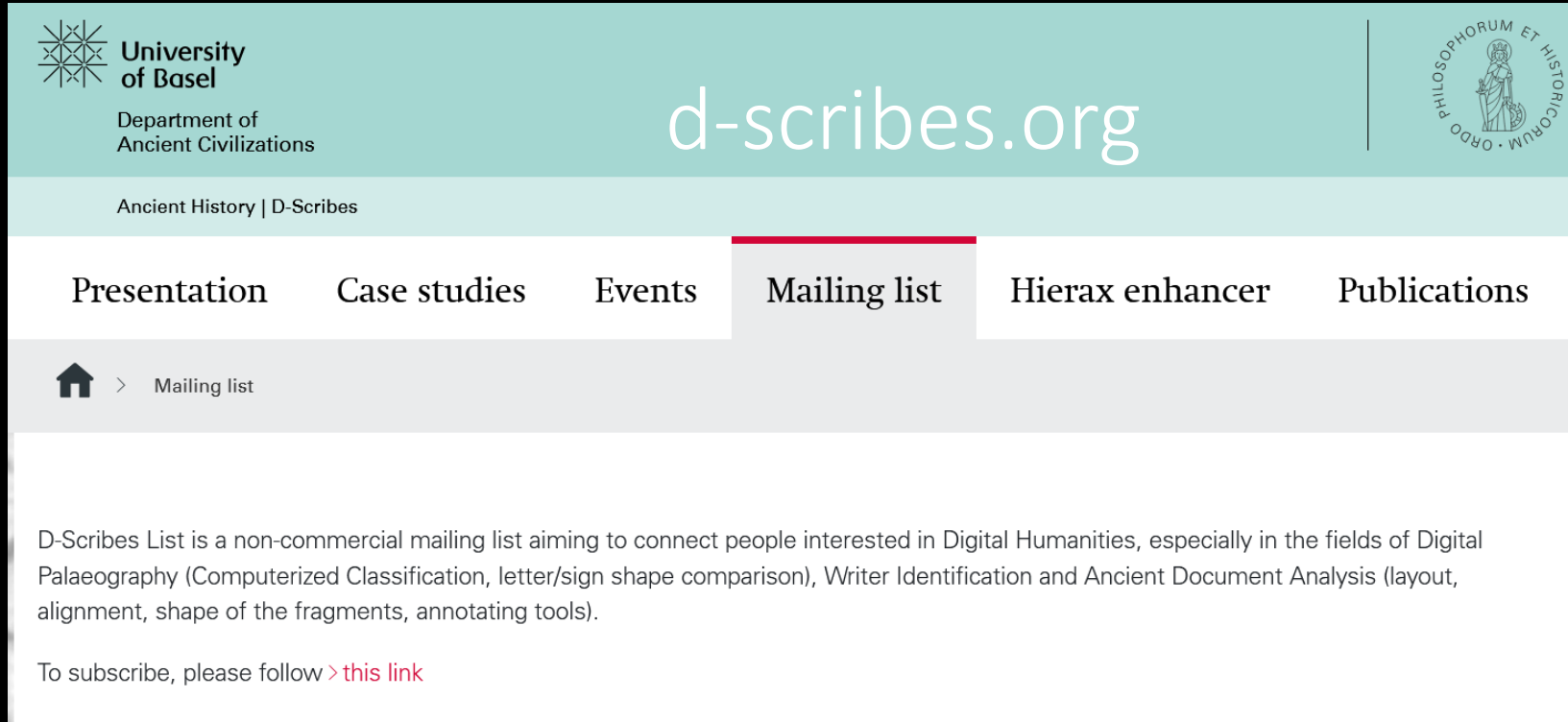
6. TM 3283 P.Enteux. 6



7. TM 8808 SB XXIV 16285



# D-scribes mailing list




The screenshot shows the website d-scribes.org. The header is teal and contains the University of Basel logo and name on the left, the domain d-scribes.org in the center, and a circular seal on the right. Below the header is a light blue bar with the text 'Ancient History | D-Scribes'. A navigation menu follows with links: 'Presentation', 'Case studies', 'Events', 'Mailing list' (which is highlighted with a red underline), 'Hierax enhancer', and 'Publications'. Below the menu is a grey bar with a home icon and the text '> Mailing list'. The main content area is white and contains a paragraph about the mailing list's purpose and a link to subscribe.

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Department of Ancient Civilizations

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Presentation Case studies Events **Mailing list** Hierax enhancer Publications

 > Mailing list

D-Scribes List is a non-commercial mailing list aiming to connect people interested in Digital Humanities, especially in the fields of Digital Palaeography (Computerized Classification, letter/sign shape comparison), Writer Identification and Ancient Document Analysis (layout, alignment, shape of the fragments, annotating tools).

To subscribe, please follow > [this link](#)

Aims at connecting people interested in Digital Humanities:

- Digital Palaeography (Computerized Classification, letter/sign shape comparison)
- Writer Identification
- Ancient Document Analysis (layout, alignment, shape of the fragments, annotating tools)