

The Multispecies Ovary Tissue Histology Electronic Repository (MOTHER): A resource for science, education and data sharing



Presented by Karen H. Watanabe

1st European Ovary Workshop
Lagos, Portugal
20 February 2025

The MOTHER Leadership Team



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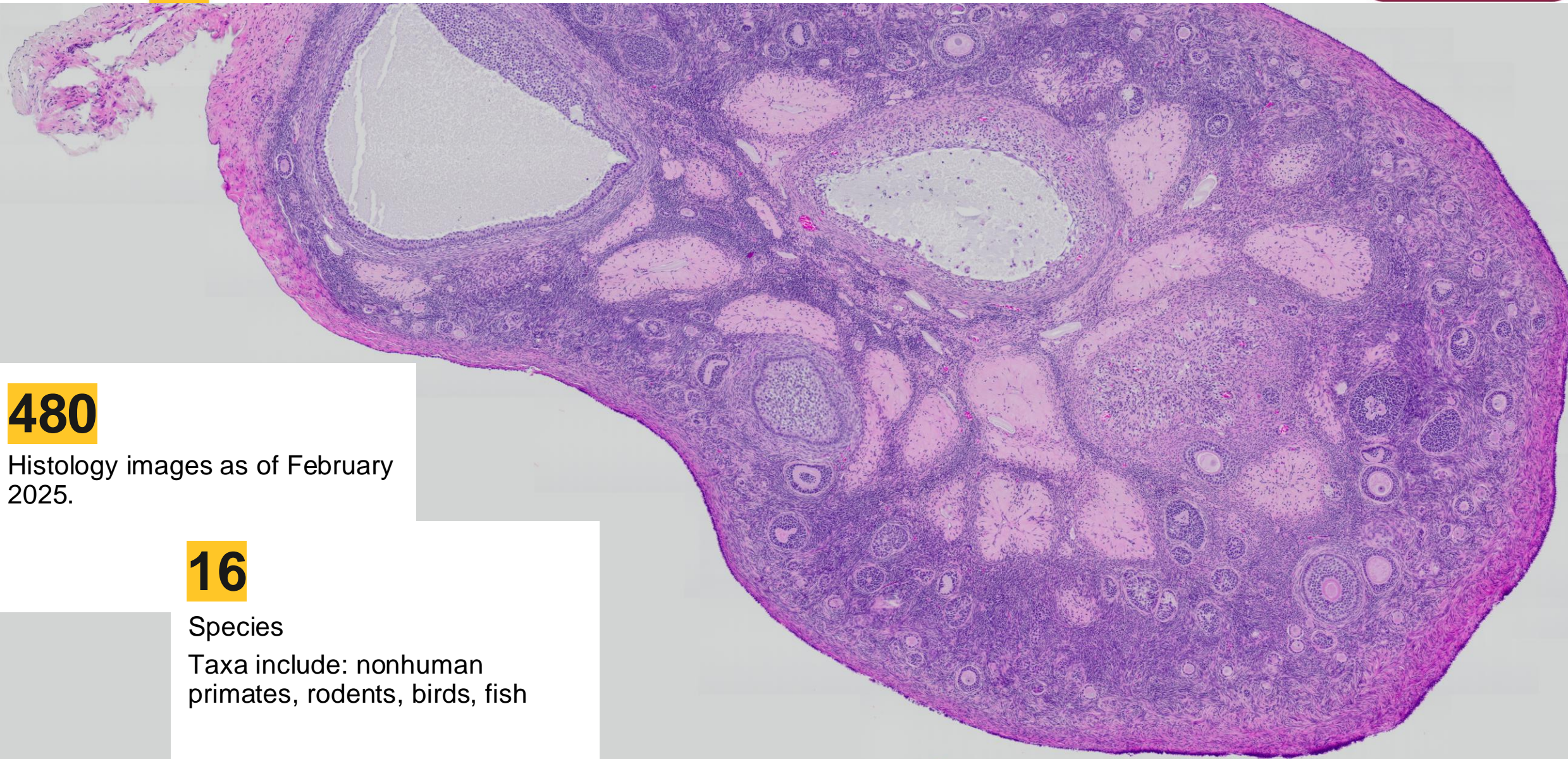
Mary Zelinski

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Objectives

- Create a repository for storing ovary histology images and their metadata
 - Ensure that data follow FAIR (Findable, Accessible, Interoperable, and Reusable) principles
- Enhance education
- Stimulate new research



**480**

Histology images as of February 2025.

16

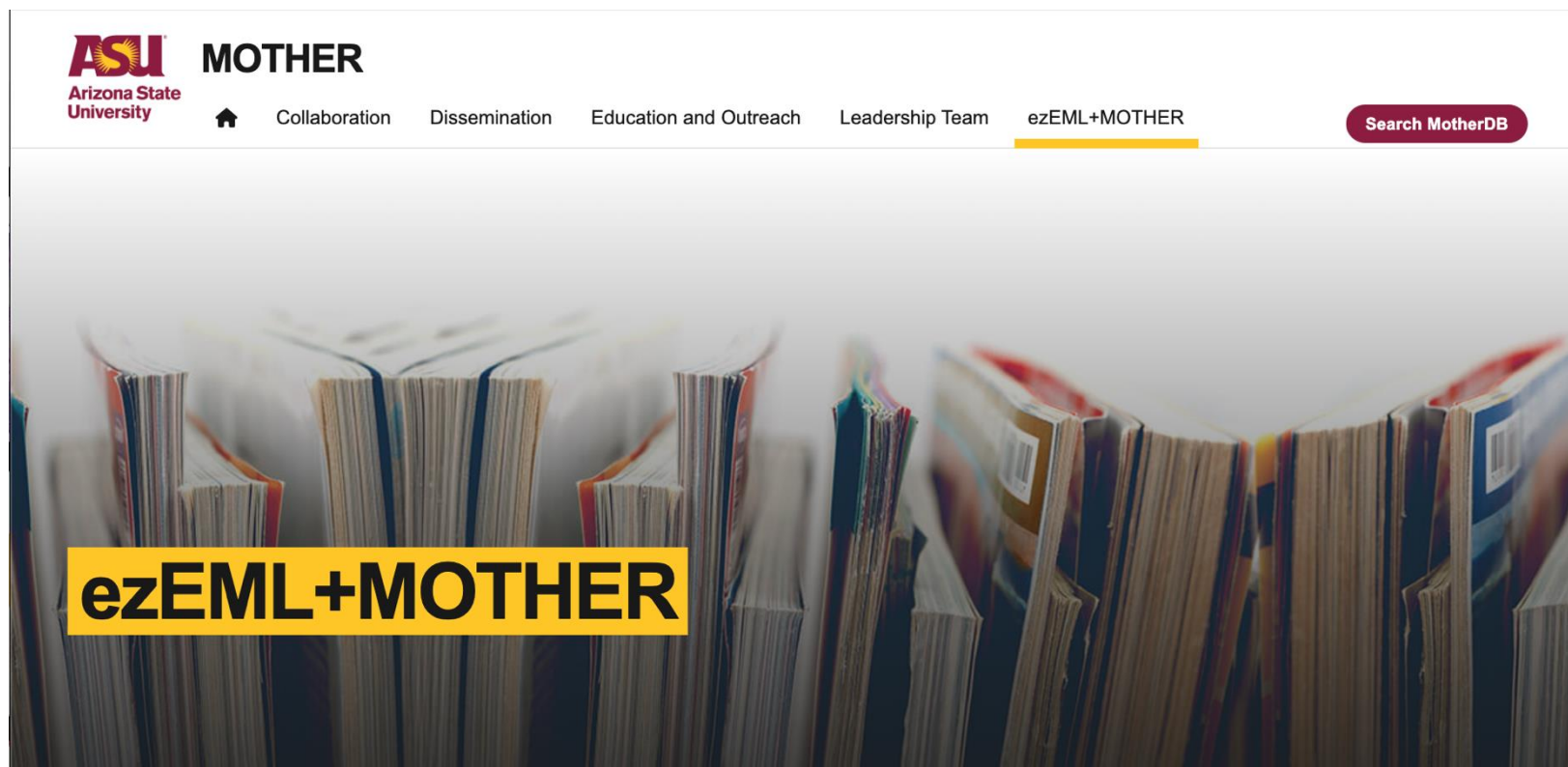
Species

Taxa include: nonhuman primates, rodents, birds, fish

Share Your Images



Upload Images & Metadata



Resources and website

ezEML+MOTHER is a Web-based tool for specifying the metadata for an ovary histology image to be shared via MOTHER.

[Read the Overview \(PDF\)](#)

[Read the full online User Guide \(PDF\)](#)

[Open ezEML+MOTHER](#)



<https://mother-db.org/about-ezemlmother/>

The ezEML+MOTHER Interface

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Immunohistochemistry

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Uploaded
Image

None

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Donor Animal Data

←

→

↺

admin.mother-db.org/eml/donor/khw-test

☆

2

↓

K

Relaunch to update

⋮

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Uploaded Image

None

Donor ID *

MZ_MM_16418

Sex *

female

Years

19

Days

Life Stage *

Adult

Specimen Sequence Number *

1

Specimen Tissue *

ovary

Ovary Position *

Unspe

Specimen Location *

Whole

Corpus Luteum Type

Day Of Cycle

Cycle Type

Menstrual

Stage Of Cycle

U

Follicular Values

Luteal Values

Slide ID *

190

Experimental Treatment *

No Treatment

Compound, dose, route, duration

Other Pathology

Section Sequence Number

Section Thickness *

5

Section Thickness Units *

Micrc

Fixation *

Paraformaldehyde

Other Fixation

Stain *

Light Microscopy Sta

Stain Light Type

Hematoxylin And Eos

Sudan Stain Value

Other Light Stain

Stain Fluorescent Type

Other Fluorescent Stain

Stain Electron Type

Other Electron Stain

Magnification *

10X

Microscope Maker

Olympus

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CX33

Microscope Notes

Camera DP28

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Image Upload	Error	Required	Image Upload is required.

Metadata Providers

Item	Severity	Reason	Explanation
Metadata Provider	Warning	Recommended	An ORCID ID is recommended.
Metadata Provider	Warning	Recommended	An Email address should be provided.

Abstract

Item	Severity	Reason	Explanation
Abstract	Warning	Recommended	An Abstract should be provided.

Keywords

Item	Severity	Reason	Explanation
Keywords	Warning	Recommended	Keywords should be provided to make the image more discoverable.

Temporal Coverage

Item	Severity	Reason	Explanation
Temporal Coverage	Warning	Recommended	Temporal Coverage is recommended, e.g. collection date.

Search MOTHER



Conducting a Search

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143 Slide(s)

Genus

All ▼

Species

Macaca mulatta (143) ▼

Donor Life Stage

All ▼

Stage of Cycle

All ▼

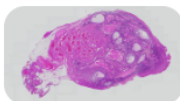
Slide Fixation

All ▼

Slide stain

All ▼

Reset Filters



Accession #: [MDB0000194](#)

Donor ID: MZ_MM_16418

Scientific name: Macaca mulatta

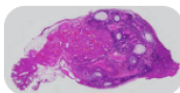
Common name: Rhesus macaque

Donor life stage: adult

Donor age: 19 years, days

Stage of cycle: unspecified

Stain: hematoxylinAndEosin



Accession #: [MDB0000195](#)

Donor ID: MZ_MM_16418

Scientific name: Macaca mulatta

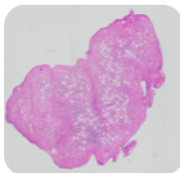
Common name: Rhesus macaque

Donor life stage: adult

Donor age: 19 years, days

Stage of cycle: unspecified

Stain: hematoxylinAndEosin



Accession #: [MDB0000196](#)

Donor ID: MZ_MM_19006

Scientific name: Macaca mulatta

Common name: Rhesus macaque

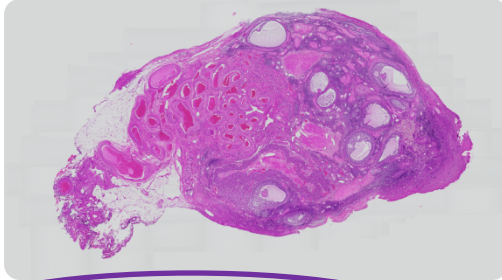
Donor life stage: adult

Donor age: 5 years, 305 days

Stage of cycle: unspecified

Stain: hematoxylinAndEosin

[Return to search results](#)



Open folder to download image and metadata

Citation

M. Zelinski, 2023, 'Zelinski Lab: Rhesus macaque 16418 Unspecified Ovary 190a', <https://mother-db.org/MDB0000194>, Multispecies Ovary Tissue Histology Electronic Repository, Retrieved: February 16, 2025

Taxonomic

Genus: Macaca (macaques)

Species: Macaca mulatta (Rhesus macaque)

Donor

Donor ID: MZ_MM_16418

Life Stage: adult

Age: 19 years, days

Stage of Cycle: unspecified

Attribution

Contact: Mary Zelinski

Slide information

Accession #: MDB0000194

Ovary position: unspecified

Location: wholeOvary

Section thickness: 5 microns

Fixation: paraformaldehyde4

Stain: hematoxylinAndEosin

Immunohistochemistry: None

Experimental treatment: None

Other pathology: None

Suggested Citation

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MOTHER



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Education and Outreach

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ezEML+MOTHER

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 MDB0000194-16418_UN_190a.xml	2023-11-07 22:23	8.6K
MDB0000194-16418_UN_190a_reduced.png	2023-12-18 22:05	2.0M
MDB0000194-16418_UN_190a_thumbnail.png	2023-12-18 22:05	79K

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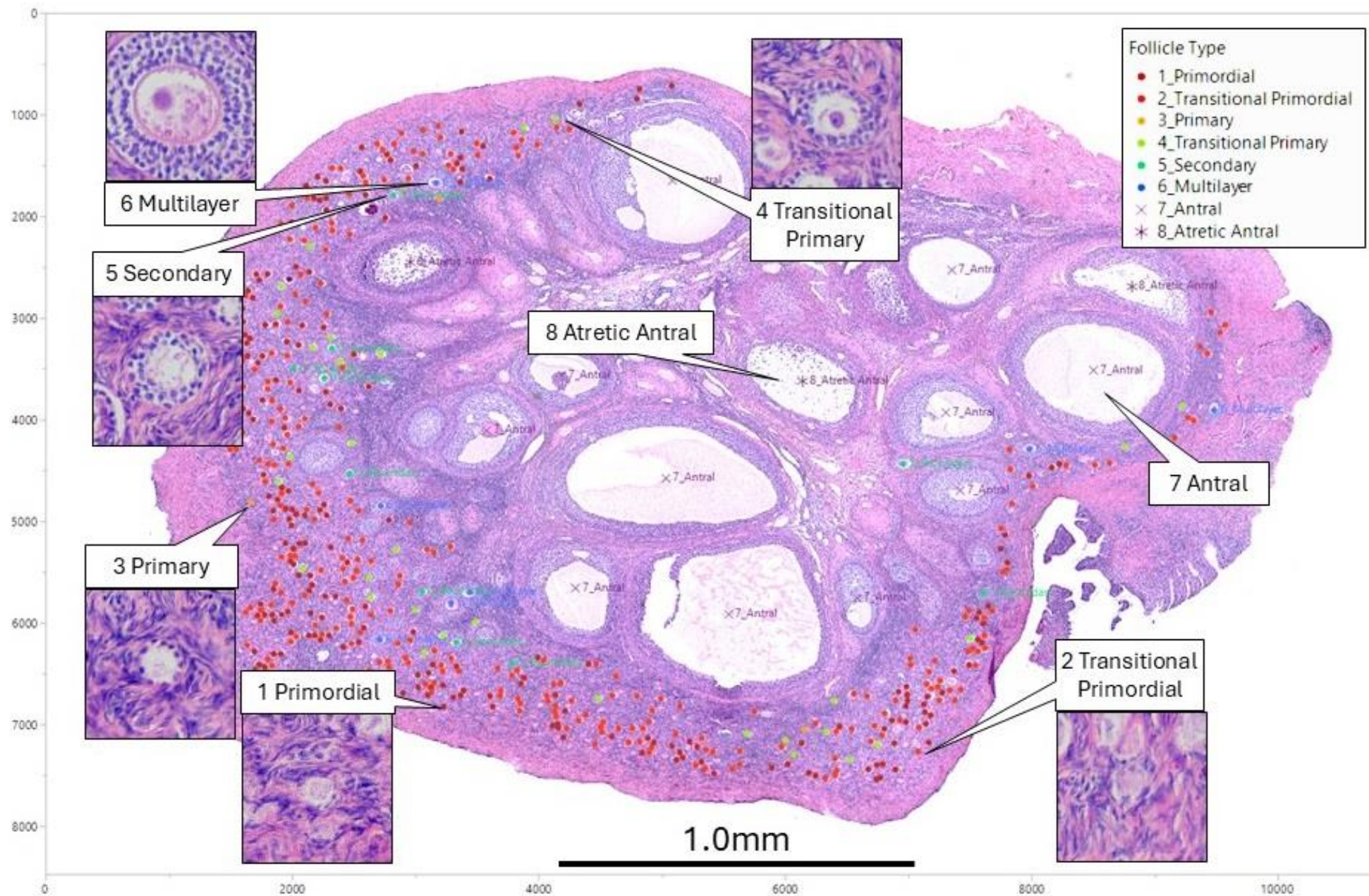
Check Metadata ●

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None

Use Images in New Research



Thank You!



Undergraduate Students

Kirstin Austin

Masara Azooz

Alessia Daniele

Eliany Egusquiza Diaz

Gerry Fernandez

Aleli Jurado Gutierrez

Colette Lund

Maxx Mudd

Gaurika Shah

Madison Tomlin

Virginia Weir

Graduate Students

Ting-Yu Chu

Yian Ding

Riley Israels

Jeremy Juve

Wenli Ma



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