



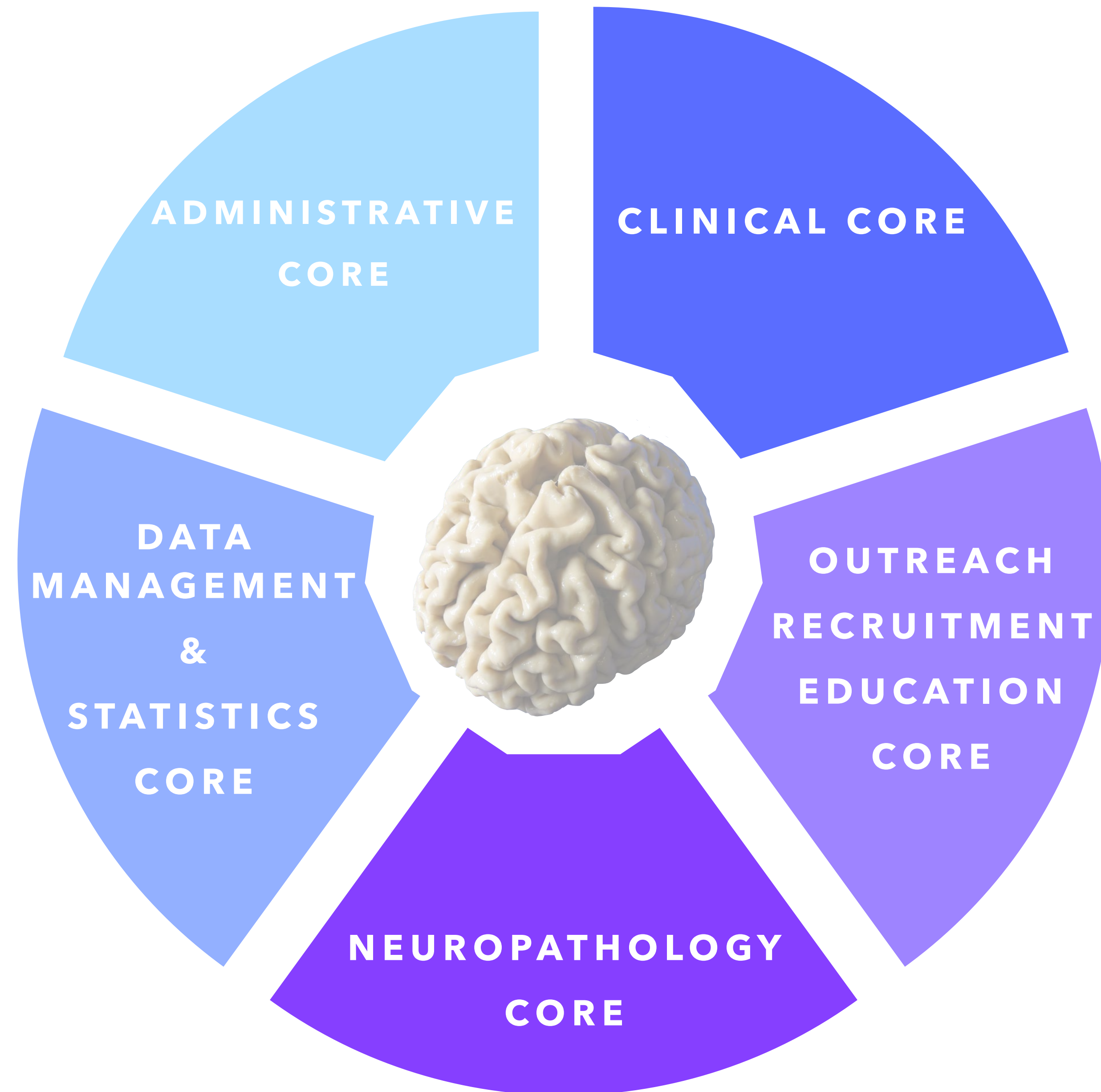
Yale School of Medicine
Alzheimer Disease Research Center
Neuropathology Core
Anita Huttner, MD

YALE SCHOOL OF
MEDICINE



333 Cedar Street





Cores

Administrative Core

Clinical Core

Data Management and
Statistics Core

Neuropathology Core

Outreach, Recruitment
and Education Core

Neuropathology Core



Led by Dr. Angus Nairn and Dr. Anita Huttner, the Neuropathology Core provides post-mortem diagnoses and biomarker analyses for patients and control subjects enrolled in the Clinical Core as well as for other well documented AD cases and controls.

The Yale Neuropathology Core conducts postmortem examinations on Yale-ADRC patients and for other well documented AD cases and controls; and maintains a bank of unfixed frozen and fixed tissue from the ADRC control and patients with AD or other dementing neurodegenerative conditions.

The Neuropathology Core provides staff, technical resources, laboratory facilities and expertise in quantitative targeted mass spectrometric assays for the analysis of human AD brain samples and biofluids. This will include analysis of unfractionated and fractionated brain tissue, and CSF using targeted mass spectrometry methods. It also will establish procedures for generation of Induced Pluripotent Stem Cells (iPSCs) from human AD patients.

The Neuropathology Core closely interacts with the other Cores of the Yale ADRC and provides tissue, methodologies and advice to Projects and Pilot Projects users in the ADRC and Yale researchers with an interest in AD, neurodegenerative disease and aging, as well as with other ADRCs.



Anita Huttner, MD

Associate Professor of Pathology; Director,
Neuropathology Program, Pathology

 [View Full Profile](#)



Angus Nairn, PhD

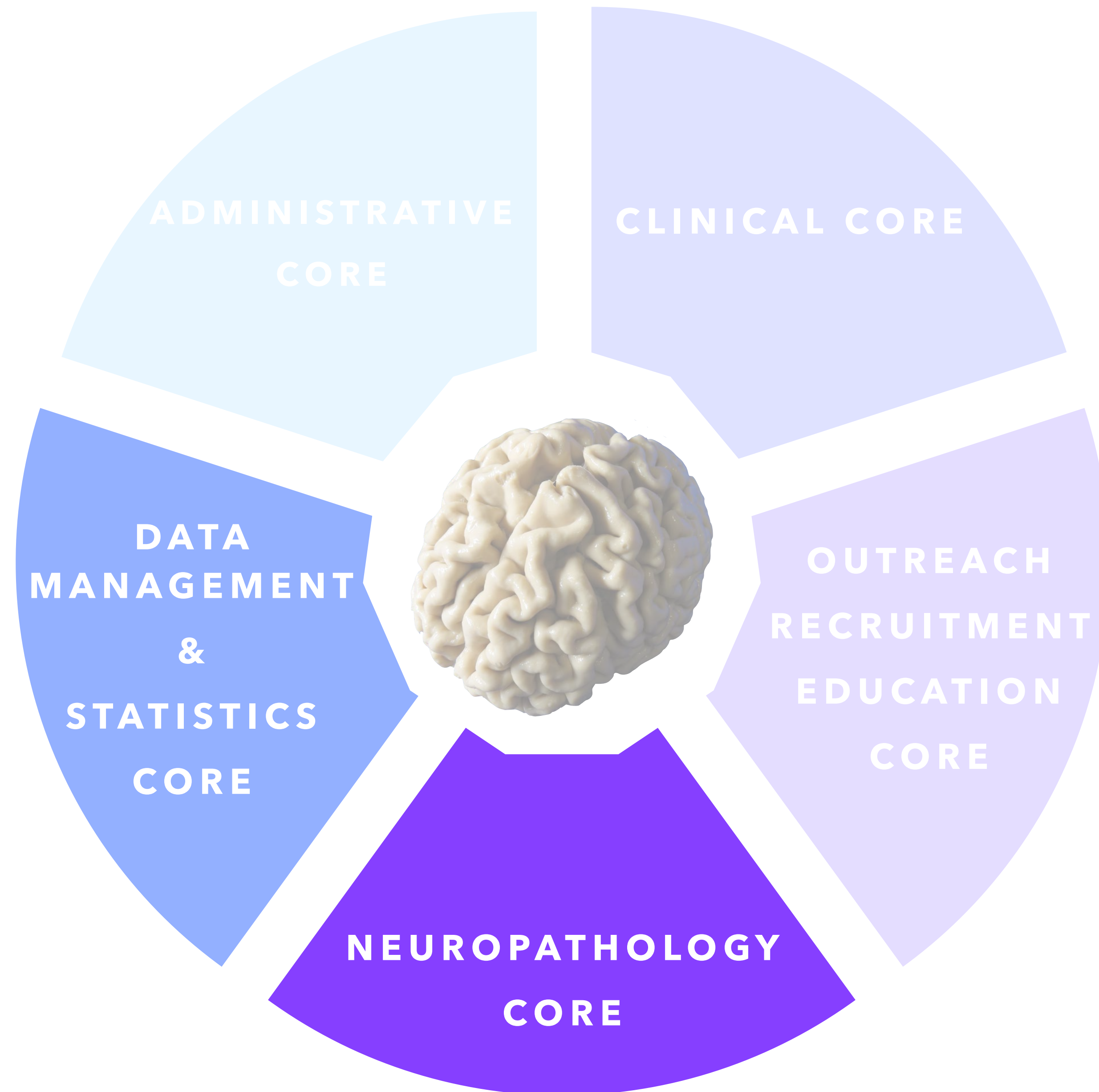
Charles B. G. Murphy Professor of Psychiatry

 [View Full Profile](#)

Yale ADRC



Heather Allore, PhD
Director



Data and Biospecimen Requests and Tracking



YALE ADRC
Alzheimer Disease Research Center



Yale University
School of Medicine

Biospecimen Request Application

Date _____

REQUESTOR

Name _____

Title _____

Institution _____

Department _____

Address _____

Phone _____

Email _____

PI (Name and Title) _____

Funding Source _____

Grant Number _____ Funding Period _____

☐ Yale IRB/HIC# _____ ☐ Non-Yale IRB# _____

Approved Non-Yale IRB document (REQUIRED)

Project Title _____

Abstract (100-250 words) _____

☐ I agree to acknowledge and cite the Yale ADRC (P50-AG047270-01) in scientific publications, presentations or grant proposals, and provide reprints when available should data have been obtained using these materials.

Return completed form via email
adrc@yale.edu

Page 1 of 3



YALE ADRC
Alzheimer Disease Research Center



Yale University
School of Medicine

Disease							
☐ Alzheimer Disease (Stage: A ____ B ____ C ____) ☐ FTLD ☐ Lewy Body ☐ non-AD participant							
Biofluids							
	CSF (0.5 ml aliquots)	Plasma (0.5-1 ml aliquots)	Serum (0.5-1 ml aliquots)	Other			
Number of cases							
Total volume per case							
Brain Samples (frozen)							
Allocortex	# of samples	Neocortex	# of samples	Deep Nuclei	# of samples	Brainstem/ Cerebellum	# of samples
Hippocampus		Frontal		Basal Ganglia		Midbrain	
Amygdala		Temporal		Thalamus		Pons	
Cingulate Gyrus		Parietal		Nucleus basalis of Meynert		Medulla oblongata	
other (specify)		Occipital		other (specify)		Cerebellum	
		other (specify)				other (specify)	
Patient information criteria				Postmortem Interval-If required			
age (range)	sex	other		☐	< 12 h		
				☐	< 24 h		
				☐	< 48 h		
				☐	> 48 h		
Comments (Internal use only):							

Page 2 of 3



YALE ADRC
Alzheimer Disease Research Center



Yale University
School of Medicine

DATA REQUEST FORM

De-identified or limited data sets will be supplied upon approval of the Executive Committee.

Data Use Agreement: Data is provided under a data use agreement: if these data are used for an abstract, a manuscript, or a grant application, then the requester will notify the Administrative Core. Also, the data is not to be shared with any other party regardless of that party's intentions. Violation of this agreement may lead to the denial of future requests.

I agree to provide specific acknowledgment and cite the Yale ADRC and its NIH grant number (P50-AG047270) in scientific publications, presentations or grant proposals related to the use of this and provide reprints when available.

I have read and understand the above policy. ____ (check mark required)

Note: Please submit completed form to Charlene Bloch, Administrator [adrc@yale.edu]

Submission Date: _____ Principal Investigator: _____

Academic Affiliation: _____ Phone: _____

IRB Number: _____ Email: _____

This request is made for the following purpose(s) (check all that apply):

☐ Grant research - Funding Agency: _____ Grant Number: _____

☐ Grant Submission

☐ Manuscript

☐ Pilot Study - Funding Agency: _____

☐ Mailing List

☐ Recruitment

☐ Abstract - Conference or Presentation - Specify: _____

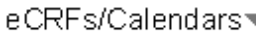
☐ Other - Specify: _____

Briefly describe the data request (100 to 250 words):

ADRC-DATAREQUESTv1-jk20190122

Data and Biospecimen Requests and Tracking

OnCore BioSpecimen Module (BSM)

 (/smrs/SMRSHomePageServlet?hdn_function=WELCOME) **Menu**  Admin  eCRFs/Calendars  M

Specimen Request Console

Request

Request List

Update Request

Request ID

Date Requested

Protocol No.

Billing Address

PI First Name [Select PI](#)

PI Last Name

Organization

Phone Number

Email Address

Address Line 1

Address Line 2

Address Line 3

City

State

ZIP

Country

Shipping Address

Requester First Name [Select Requester](#)

Requester Last Name

Organization

Phone Number

Email Address

Address Line 1

Address Line 2

Address Line 3

City

State

ZIP

Country

Shipping Conditions

Shipping Condition

Attachments [Add Attachment](#)

File Name	Description	Delete
No Records Found		

Private Banking Approval [Add Approval](#)

Private Bank Protocol	User	Date
No Records Found		

Custom Reports linked to this Request [Add Report](#)

Report Name	Report Title	Action
No Records Found		

Delete Request

Approve

Disapprove

Submit

Clear

Close

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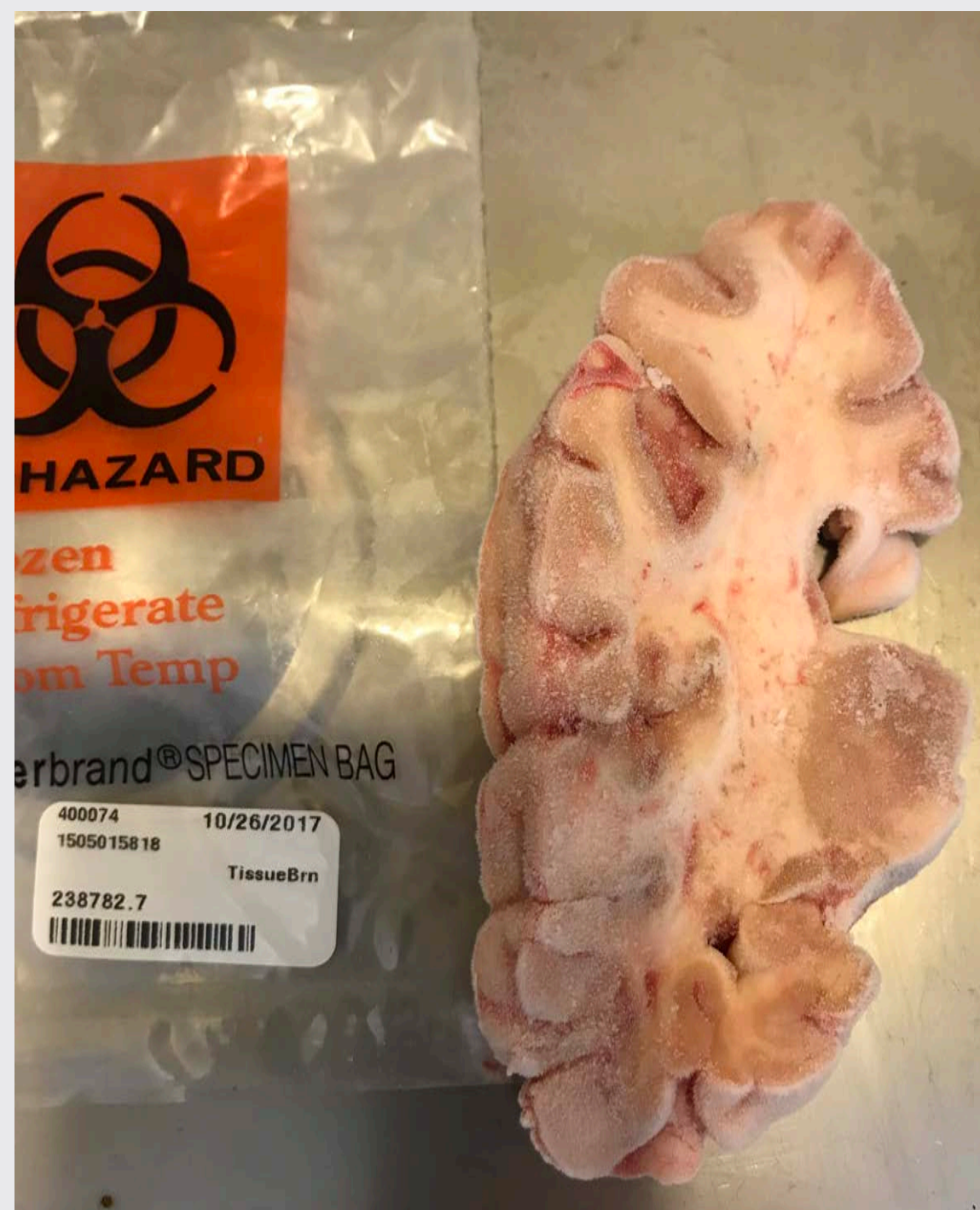


Data and Biospecimen Requests and Tracking

Paired with Photography

Sample Request for Hippocampus and Temporal Cortex

1 Frozen 'Parent' slice
image uploaded into OnCore



2



3 'Child' specimen
image uploaded into OnCore



Data and Biospecimen Requests and Tracking Paired with Photography

 **Menu** Subjects ▾ Specimens ▾ Anita Huttner ▾

Specimen Collection Console ?

Patient ID: MR5092361
Case No.: 400074_brain

Patient Name: JULIE RHODES PURVIS
Procedure Date: 10/26/2017

Protocol No.: 1505015818
Accession Date: 10/26/2017

Search Specimens

Patient ID/Name

Case/Surg Path No./Proc. Dt.

Specimen No./Barcode

Protocol/Sequence No.
(Only patients with a sequence number will appear.)

[Register Patient](#) [New Specimen](#)

☒ Patient ID: MR5092361

☒ Case No.:400074_brain

☒ TissueBrn 238782 (Deaccessioned)

- TissueBrn 238782.1 (Available)
- TissueBrn 238782.2 (Available)
- TissueBrn 238782.3 (Available)
- TissueBrn 238782.4 (Available)
- TissueBrn 238782.5 (Available)
- TissueBrn 238782.6 (Available)
- TissueBrn 238782.7 (Available)**
- TissueBrn 238782.8 (Available)
- TissueBrn 238782.9 (Available)

Specimen **Quality Control** **Attachments** **Child Specimens** **Status History**

Attachment Type

Description

Attachment Type	Description	File Name	Edit	Delete
Other	Fresh slice 7	400074_7.jpg	Edit	☐
Other	Frozen Slice 7_child1	TissueBrn 238782.7_child1.JPG	Edit	☐
Other	Frozen Slice 7	TissueBrn 238782.7.JPG	Edit	☐
Other	Fresh slice 7	TissueBrn 238782.7 .jpg	Edit	☐

Inherited Attachments

No Records Found

Data and Biospecimen Requests and Tracking Paired with Photography



Anita Huttner ▾

Patient Name: JULIE RHODES PURVIS Protocol No.: 1505015818
Procedure Date: 10/26/2017 Accession Date: 10/26/2017

[Submit](#) [Clear](#) [Close](#)

[Specimen](#) [Quality Control](#) [Attachments](#) [Child Specimens](#) [Status History](#)

Attachment Type Description

Attachment Type	Description	File Name	Edit	Delete
r	Fresh slice 7	400074_7.jpg	Edit	☐
r	Frozen Slice 7_child1	TissueBrn 238782.7_child1.JPG	Edit	☐
r	Frozen Slice 7	TissueBrn 238782.7.JPG	Edit	☐
r	Fresh slice 7	TissueBrn 238782.7 .jpg	Edit	☐

Attached Attachments

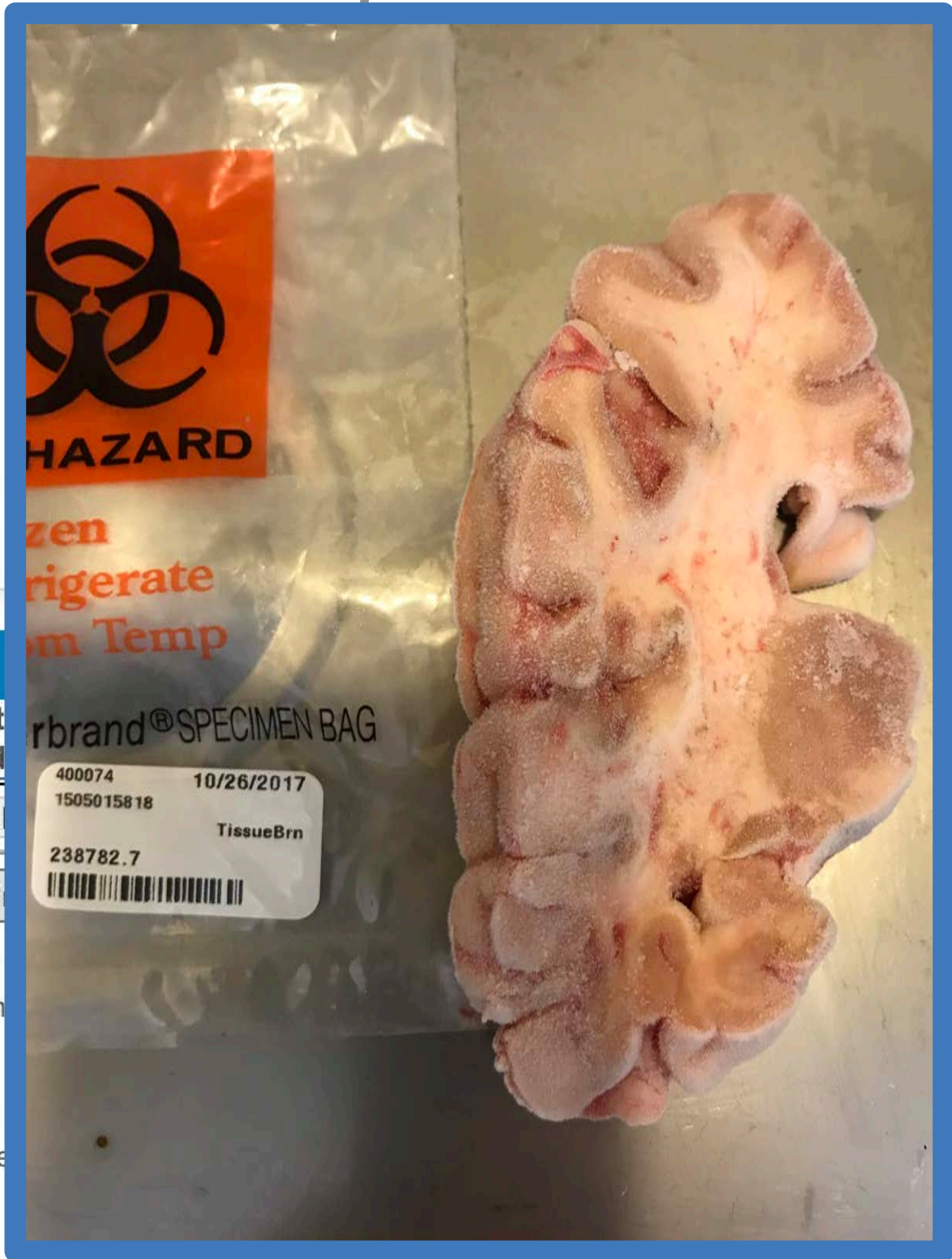
No Records Found

[Submit](#) [Clear](#) [Close](#)

TissueBrn 238782.6 (Available)
TissueBrn 238782.7 (Available)
TissueBrn 238782.8 (Available)
TissueBrn 238782.9 (Available)

Data and Biospecimen Requests and Tracking

Paired with Photography



Anita Huttner ▾

Protocol No.: 1505015818
Accession Date: 10/26/2017

Status History

Description

Name	Edit	Delete
074 7.jpg	Edit	☐
Frozen Slice 7_child1	TissueBrn 238782.7 child1.JPG Edit	☐
Frozen Slice 7	TissueBrn 238782.7.JPG Edit	☐
Fresh slice 7	TissueBrn 238782.7 .jpg Edit	☐

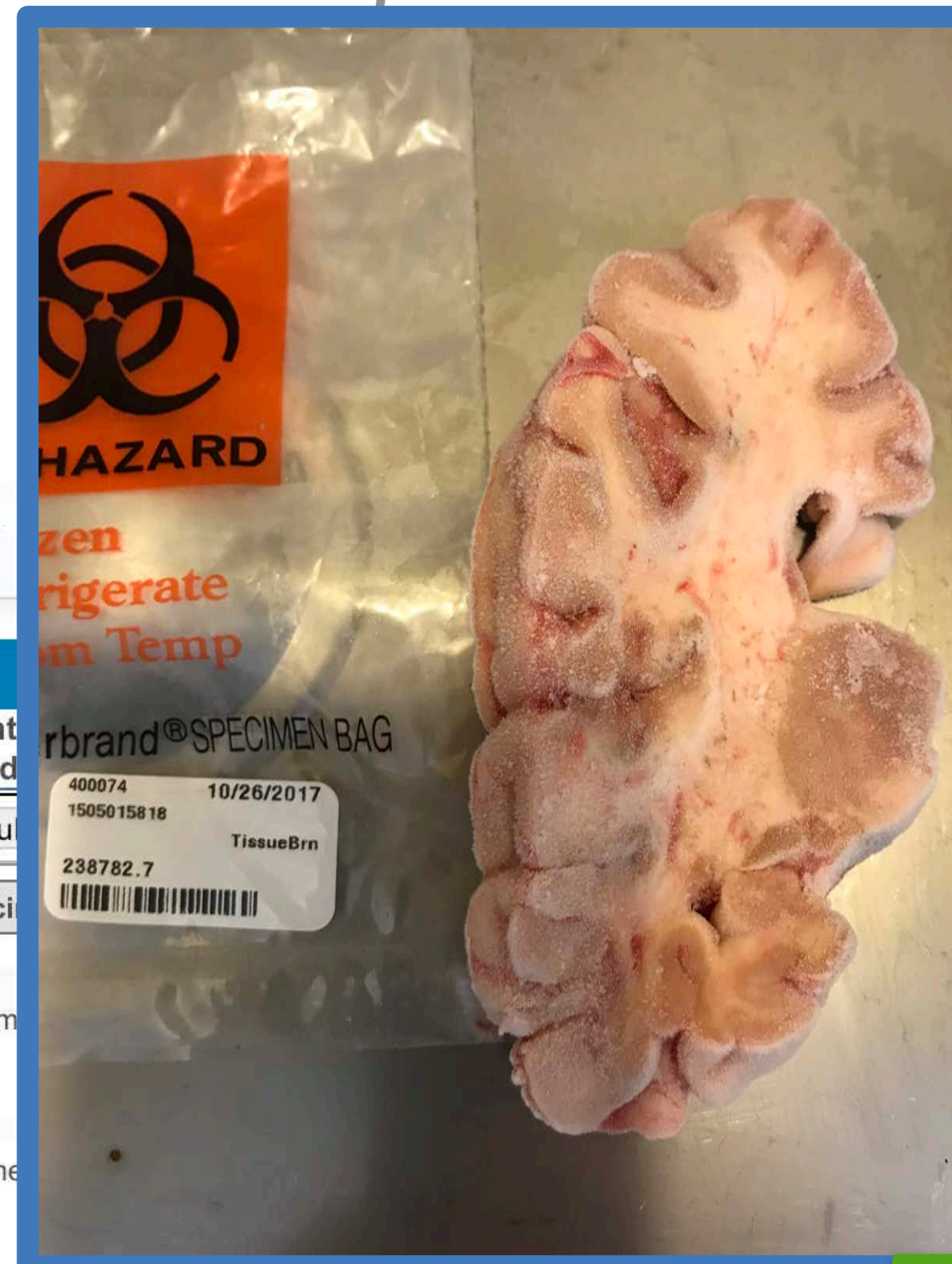
ted Attachments

No Records Found

[Submit](#) [Clear](#) [Close](#)

- TissueBrn 238782.6 (Available)
- TissueBrn 238782.7 (Available)
- TissueBrn 238782.8 (Available)
- TissueBrn 238782.9 (Available)

Data and Biospecimen Requests and Tracking Paired with Photography



Frozen Slice 7_child1

[TissueBrn 238782.7_child1.JPG](#)

Frozen Slice 7

[TissueBrn 238782.7.JPG](#)

Fresh slice 7

[TissueBrn 238782.7.jpg](#)

[Edit](#)

[Edit](#)

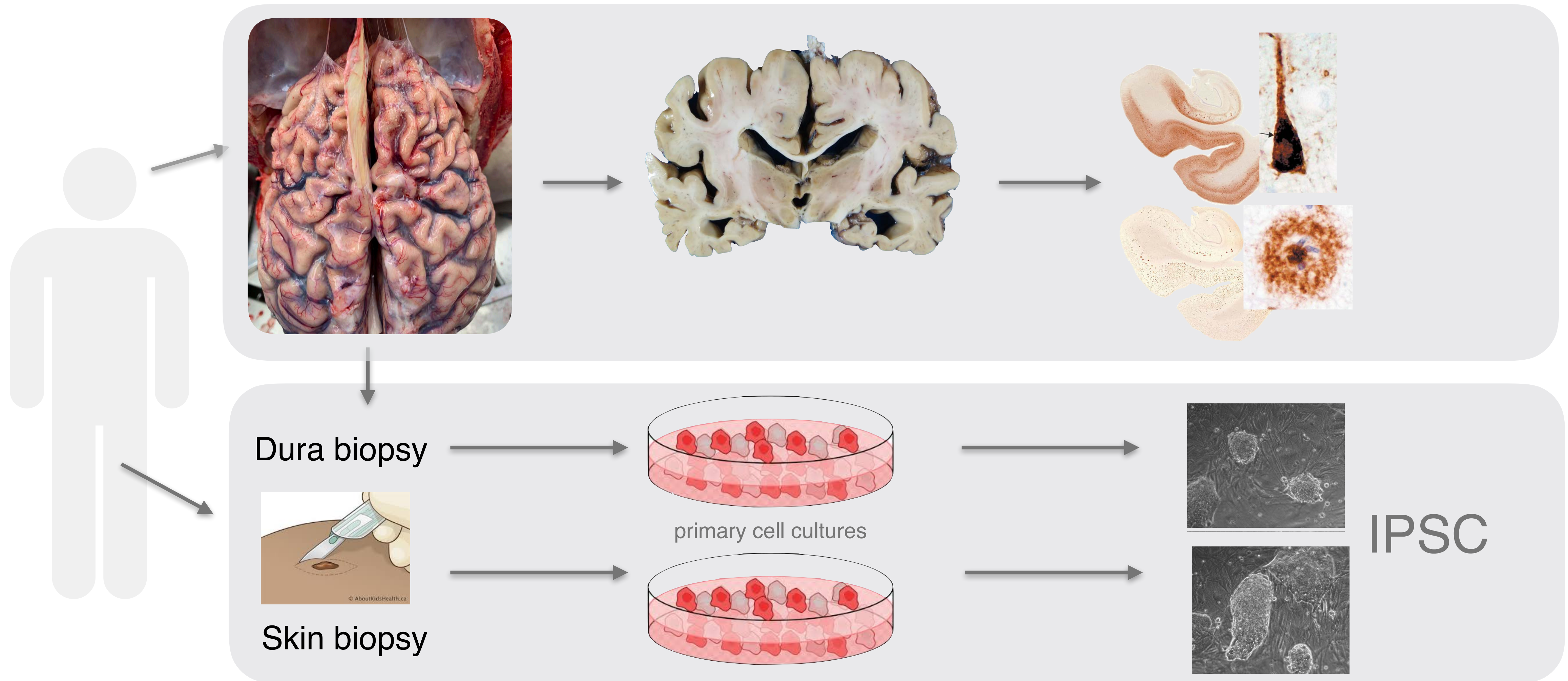
Attached Attachments

No Records Found

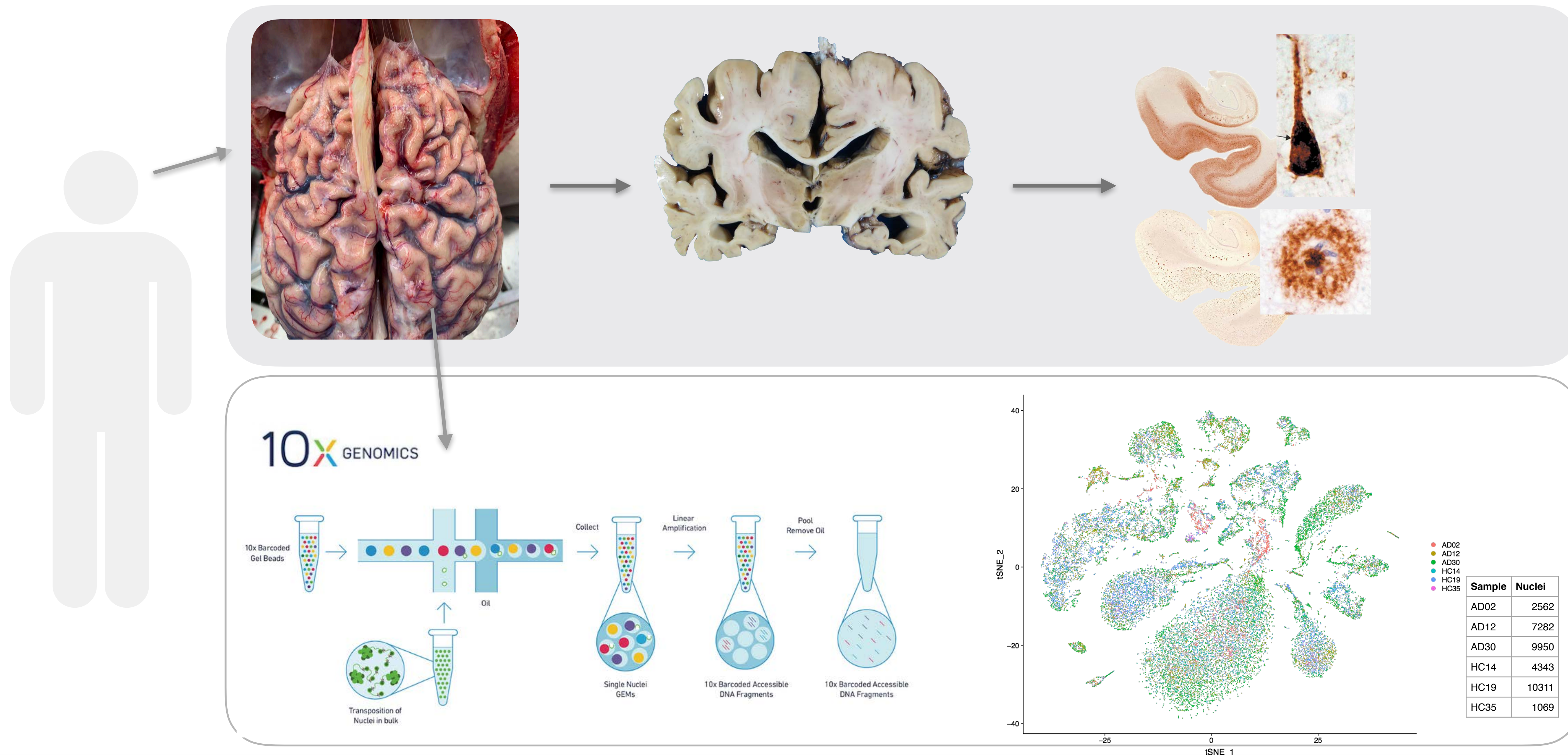
[Submit](#) [Clear](#) [Close](#)

[TissueBrn 238782.6 \(Available\)](#)
[TissueBrn 238782.7 \(Available\)](#)
[TissueBrn 238782.8 \(Available\)](#)
[TissueBrn 238782.9 \(Available\)](#)

Disease Modeling



Disease Modeling



Integration of macaque brains into the biorepository



ELSEVIER



Alzheimer's & Dementia 14 (2018) 680-691

Alzheimer's
&
Dementia

Featured Article

The aged rhesus macaque manifests Braak stage III/IV Alzheimer's-like pathology

Constantinos D. Paspalas^{a,*}, Becky C. Carlyle^b, Shannon Leslie^b, Todd M. Preuss^c,
Johanna L. Crimins^a, Anita J. Huttner^d, Christopher H. van Dyck^{a,b,e}, Douglas L. Rosene^f,
Angus C. Nairn^b, Amy F. T. Arnsten^{a,b,**}

^aDepartment of Neuroscience, Yale School of Medicine, New Haven, CT, USA

^bDepartment of Psychiatry, Yale School of Medicine, New Haven, CT, USA

^cDivision of Neuropharmacology and Neurologic Diseases, Yerkes National Primate Center, Emory University, Atlanta, GA, USA

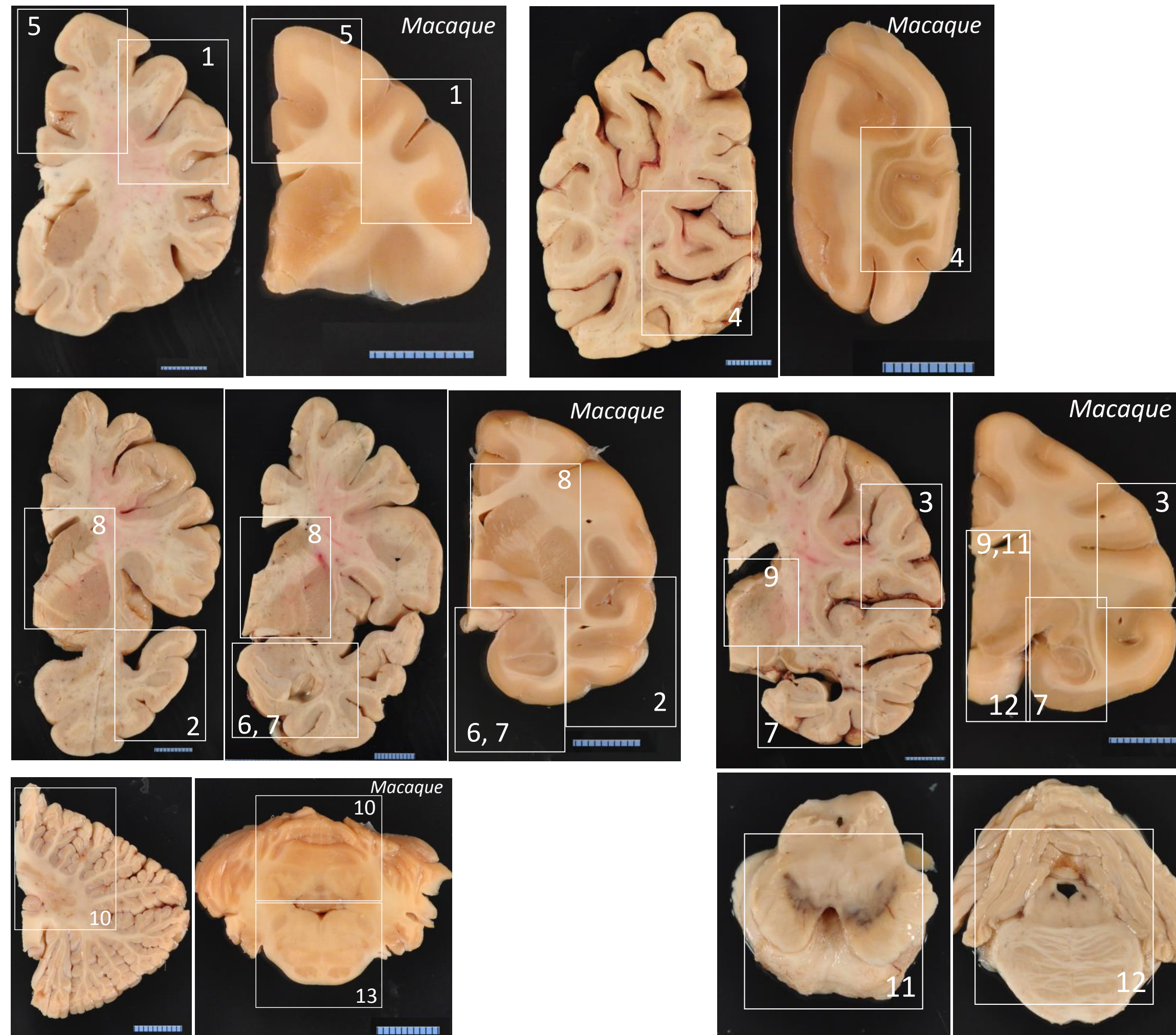
^dDepartment of Pathology, Yale School of Medicine, New Haven, CT, USA

^eDepartment of Neurology, Yale School of Medicine, New Haven, CT, USA

^fDepartment of Anatomy and Neurobiology, Boston University School of Medicine, Boston, MA, USA



Integration of macaque brains into the biorepository



Courtesy Dr. Zeiss

Sampling of brain regions according to NIA guidelines is possible

- 1: Middle frontal gyrus;
- 2: Superior & middle temporal gyri;
- 3: Inferior parietal lobule;
- 4: Occipital cortex BA 17/18;
- 5: Cingulate, anterior;
- 6: Amygdala;
- 7: Hippocampus and EC at LGN;
- 8: Basal ganglia at AC, N basalis of Meynert;
- 9: Thalamus, STN;
- 10: Cerebellar cortex, dentate n;
- 11: Midbrain inclSN;
- 12: Pons inclLC;
- 13: Medulla inclDMV;
- 14: WM at ACA, MCA and PCA watershed;
- 15: Other (infarct, hemorrhage etc)

Pilot Project: NIH NeuroBiobank

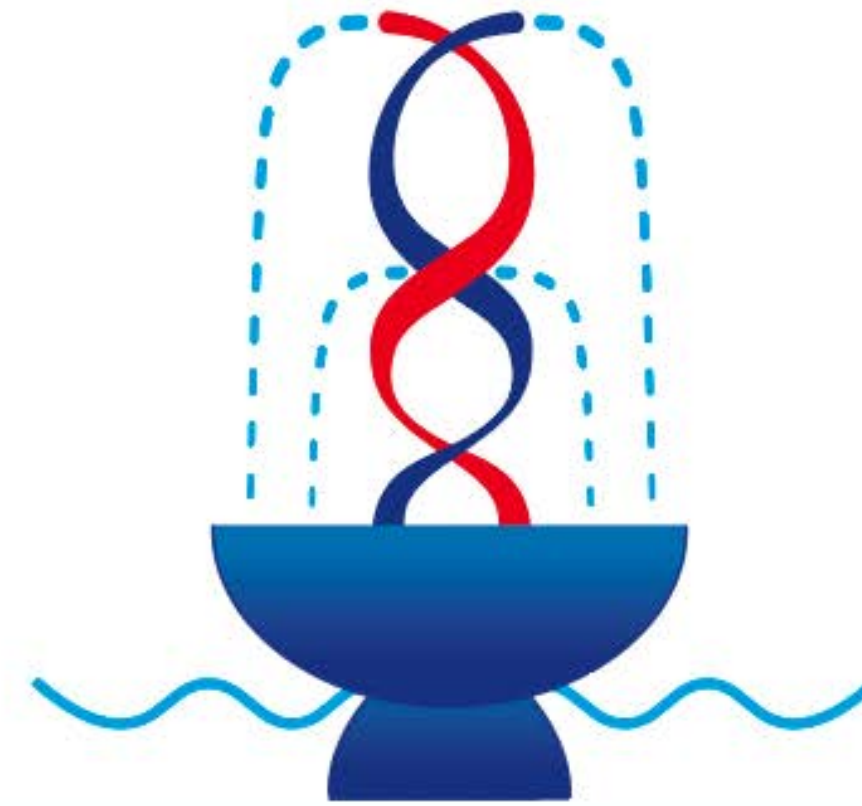
3 Sites:

- Dirk Keene, MD PhD; NP Core Leader, University of Washington, Seattle
- Julia Kofler, MD; NP Core Leader, UPMC Pittsburgh
- Anita Huttner, MD; NP Co-Core Leader, Yale University, New Haven



EXPERIENCE

SEARCHing for The Fountain Of Youth



THE FOUNTAIN OF YOUTH INSTALLATION

CWOS Alternative Space 3C

NOVEMBER 1 - 3 | 3rd Floor - C

VISIT & SEE

The Hallway of Vanities
Age of Explorers
The Age Cave
Florida Water
Mitochondrial EVE
& the FOUNTAIN of YOUTH

When you hear the phrase
Searching for the Fountain of Youth,
what does it mean to you?

- Is it searching for superficial ways to keep your youthful appearance?
- Is it defying age and being an explorer of ideas?
- Is it being as young as you feel?
- Is it about connection to the generations before us and those yet to come?

Step into the journey.

We hope you find what you are looking for.

SPECIAL EVENTS:

Saturday, Nov 2

2:00-3pm: Science talk on aging with Yale
School of Medicine Professors
Anita Huttner and Morgan Levine

4:00-5pm: Artist Talk

Sunday Nov 3rd

1-1:45pm: Outdoor Dowsing Workshop
2:30-3pm: Qigong Workshop with Patricia Bolger

4:00-5pm: Artist Talk

FEATURING

Artists:

Kate Henderson
Lee Walther
Roxy Savage
Joy Kenechukwu Okeke

Contributors:

Patricia Bolger
Jessica Dugan
Carlos Garica
Pathricia Tilstam

Scientists:

Anita Huttner, Associate Professor of Pathology
Specialty- Alzheimer and *Neuro Health*
Morgan Levine, Assistant Professor of Pathology in
Specialty- Epigenetics and the Biology of Aging

FB: @searchingfortheountainofyouth

CONTACT: kate@katehenderson.art,
roxysavage.artist@gmail.com, waltherl@optonline.net

Acknowledgements



Members of the Yale Alzheimer Disease Research Center

Clinical Core Christopher Van Dyke

Administrative Core Stephen Strittmatter

Neuropathology Core Angus Nairn

Data Management & Statistics Core Heather Allore

Charles Lu, Laura Simone

REC Core Richard Morottoli



National Institute on Aging

YALE SCHOOL OF
MEDICINE

