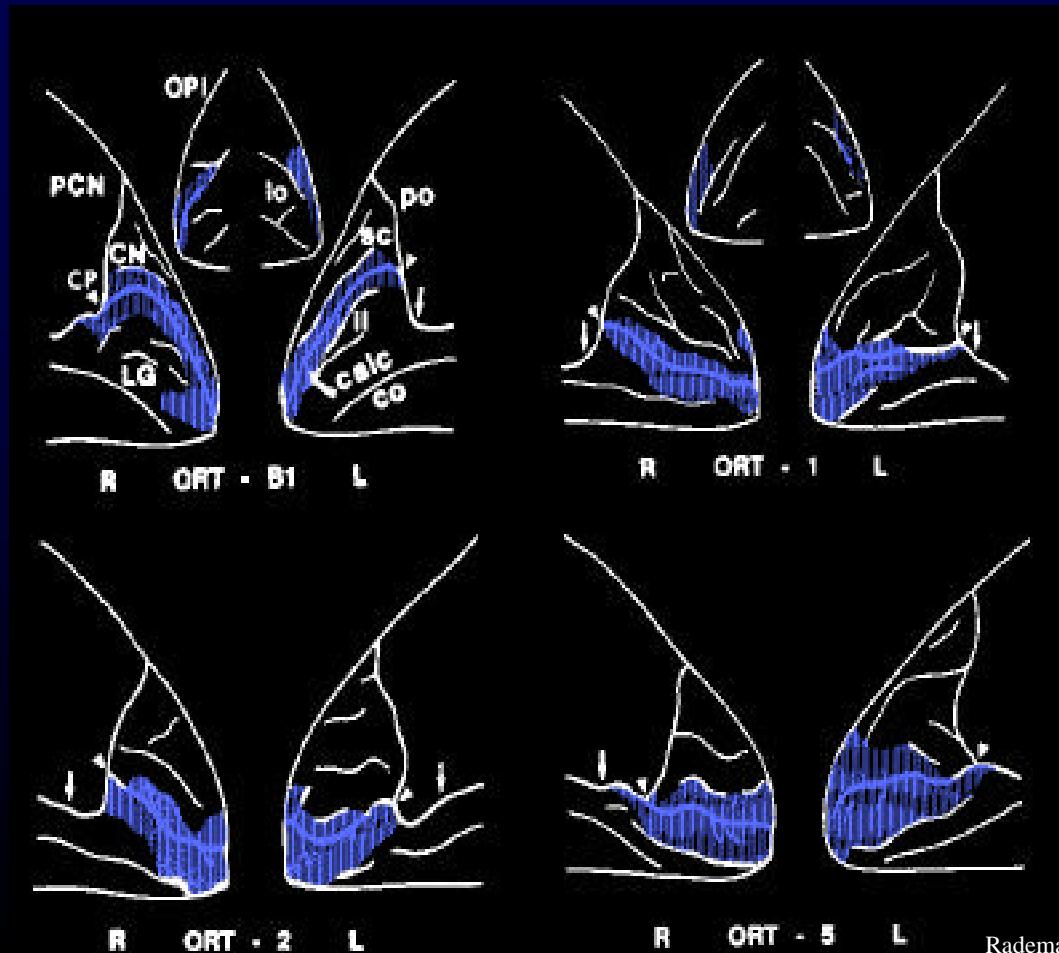
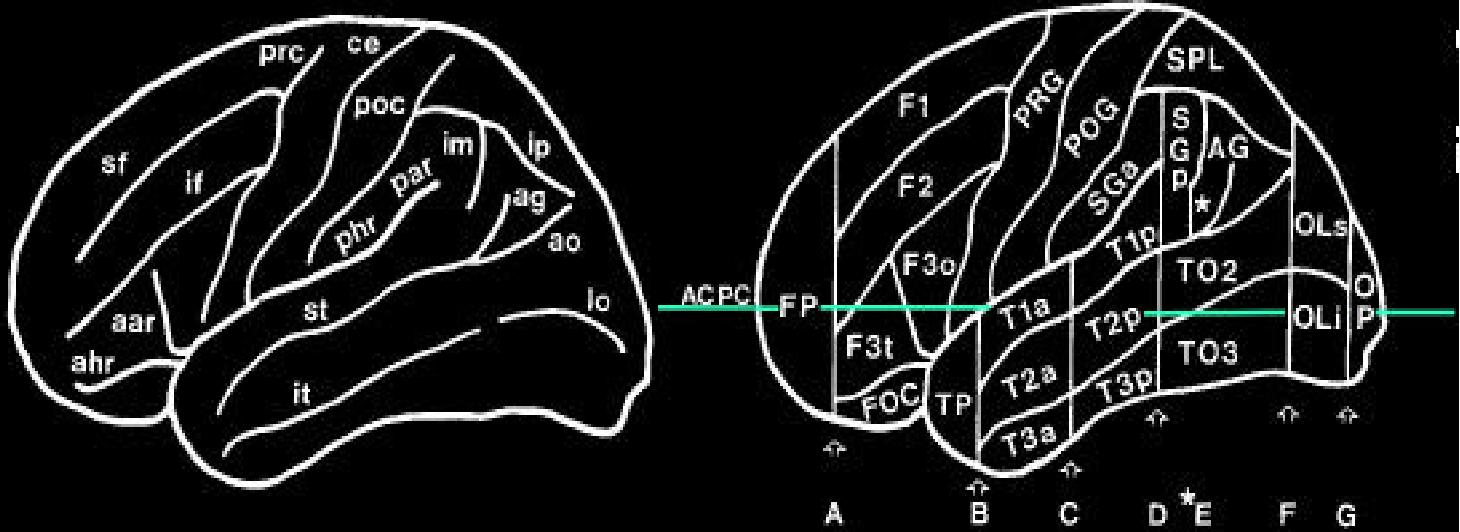


## Anatomic Variability: Area 17

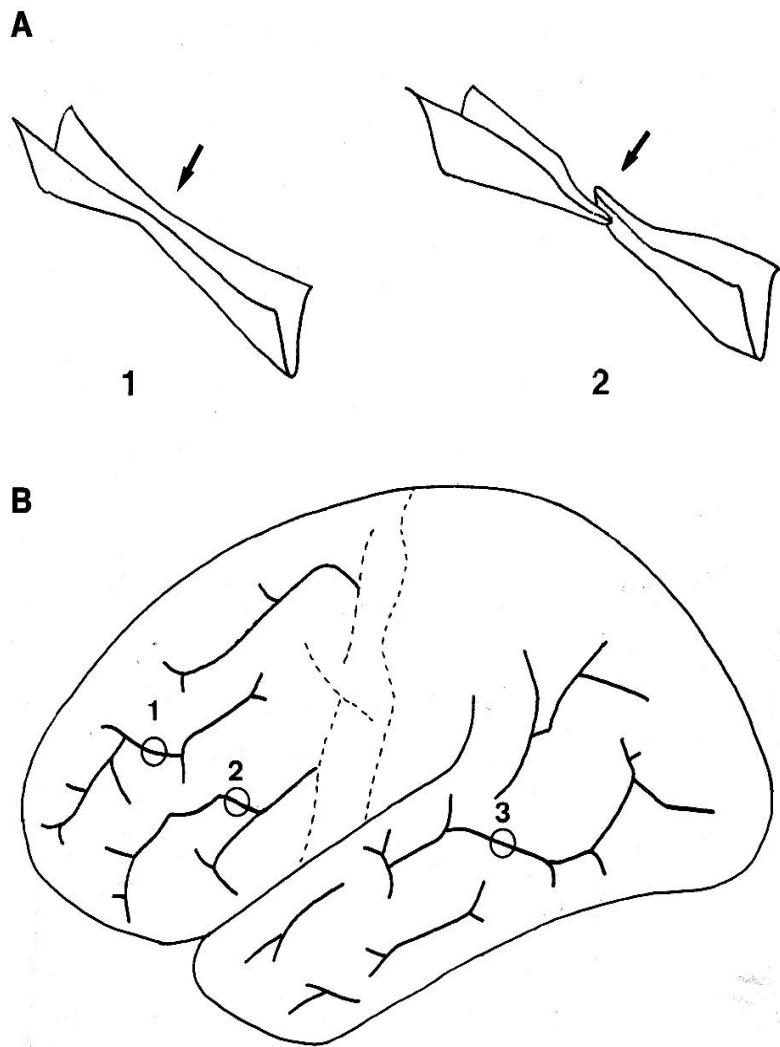


Rademacher, et al., 1993

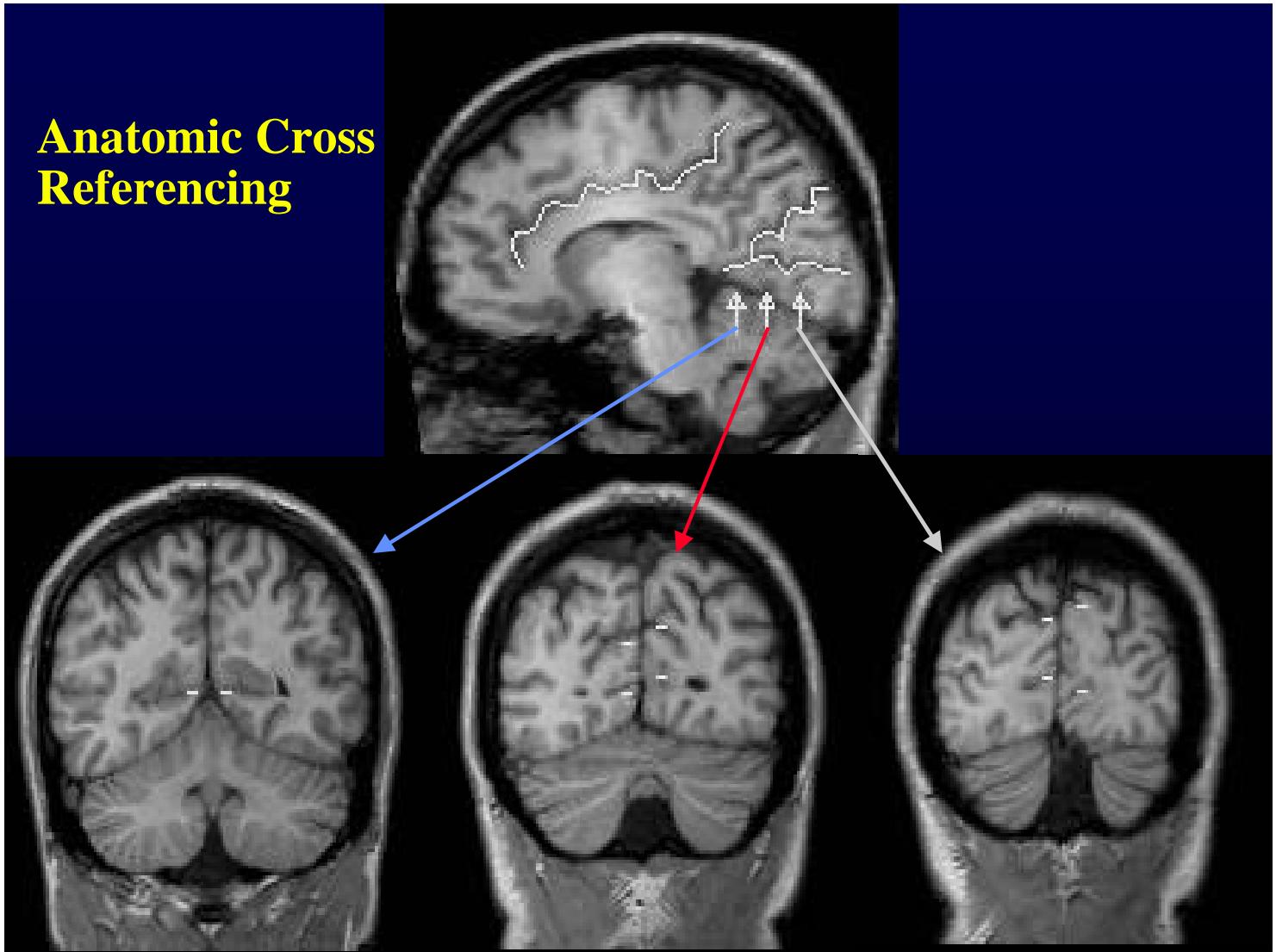
## Limiting Fissures and Planes: Lateral View



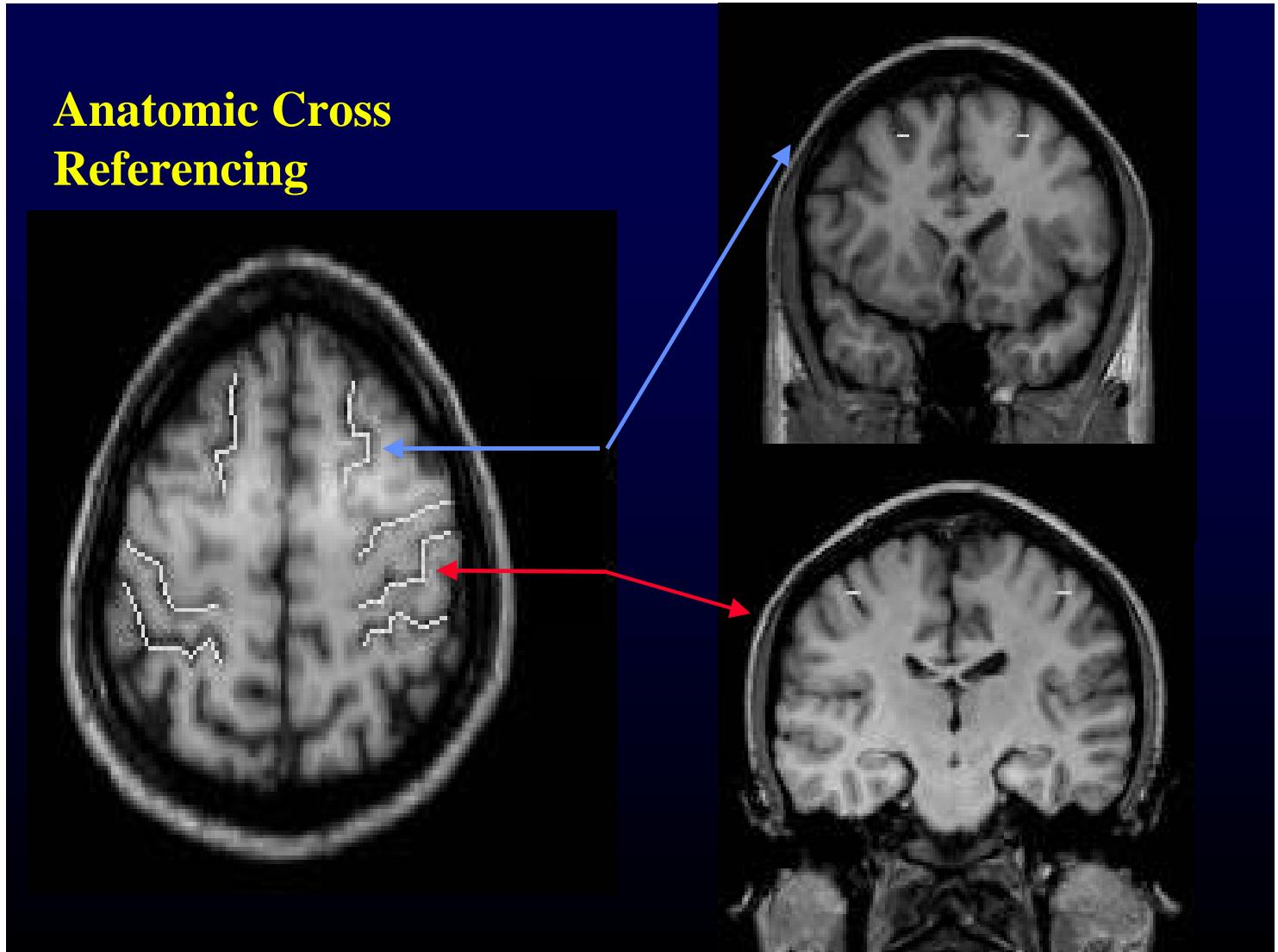
# Sulcal Complexity



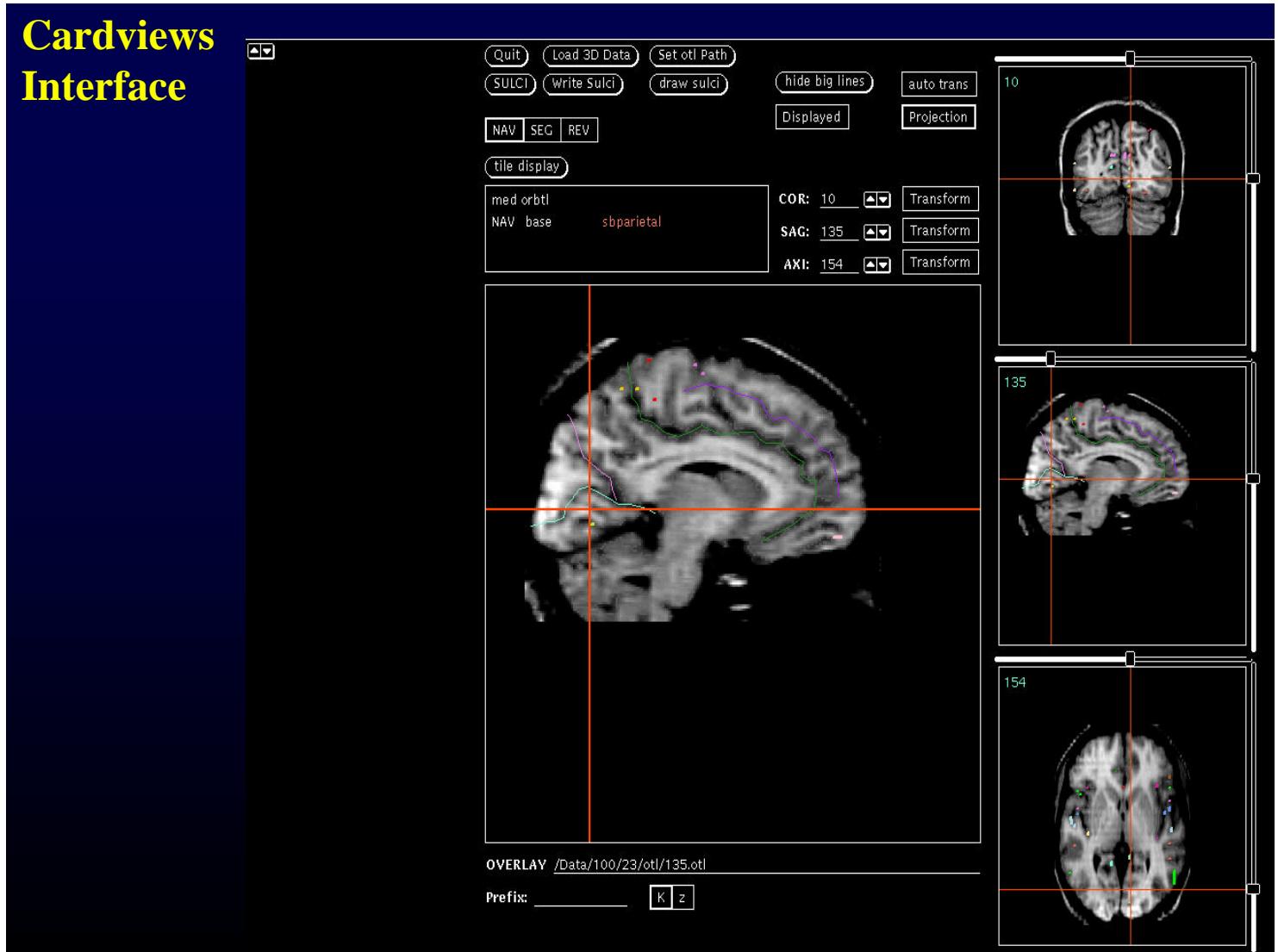
## Anatomic Cross Referencing



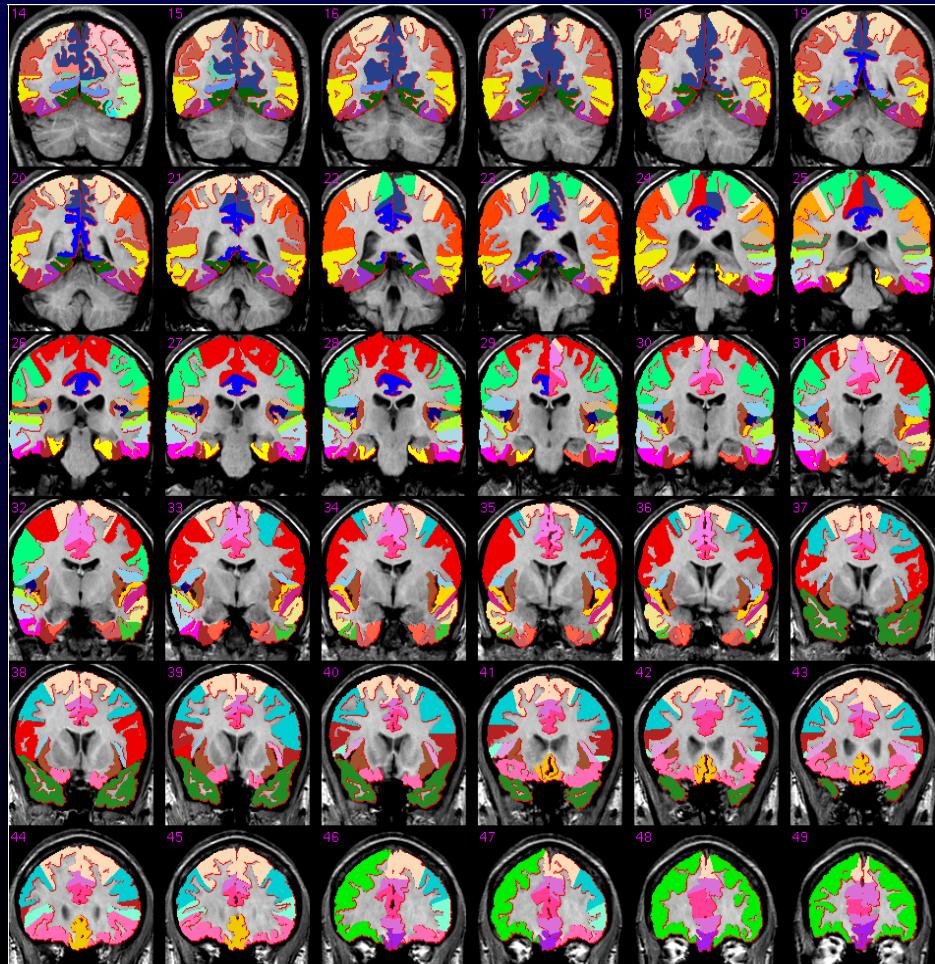
## Anatomic Cross Referencing

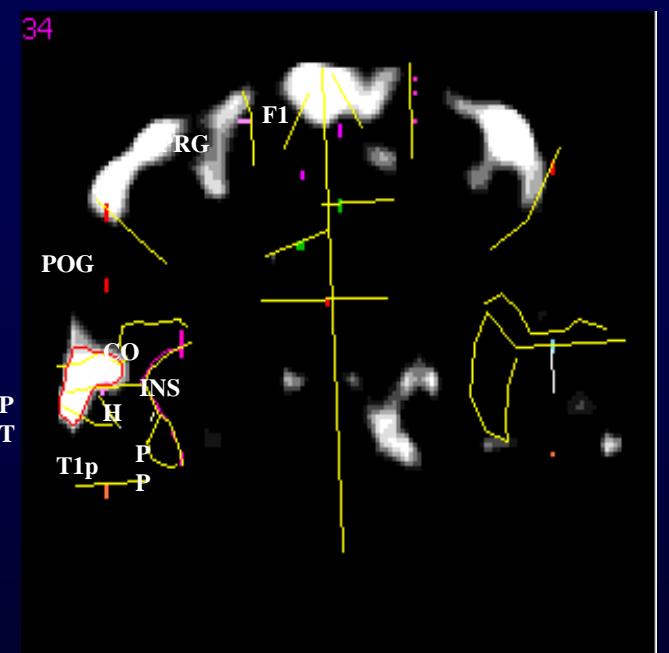
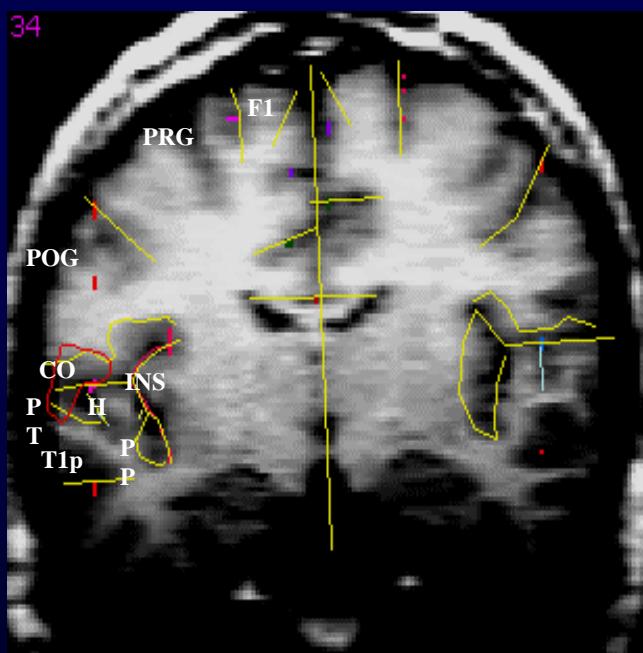


## Cardviews Interface



## Results of Cortical Parcellation





Anatomic Scan

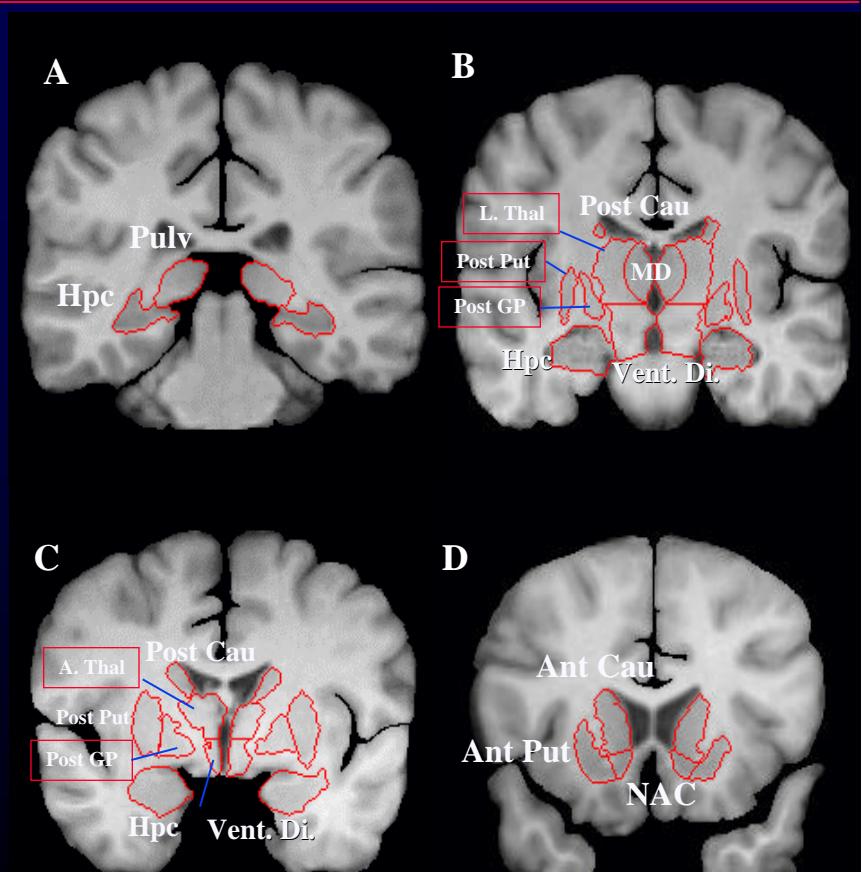
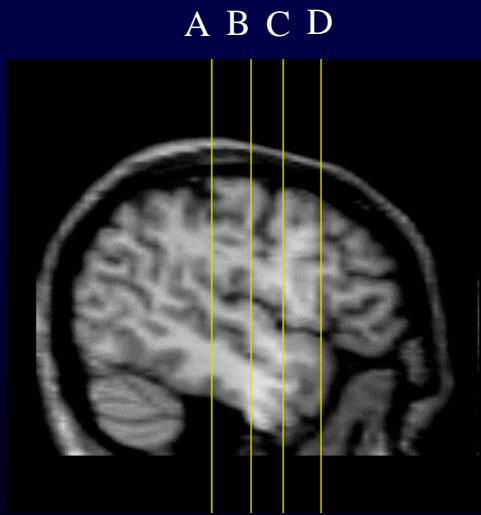
Functional Scan

Sagittal Cross Reference

Example of localization of activation

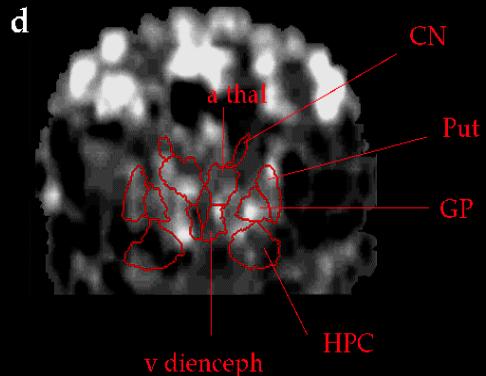
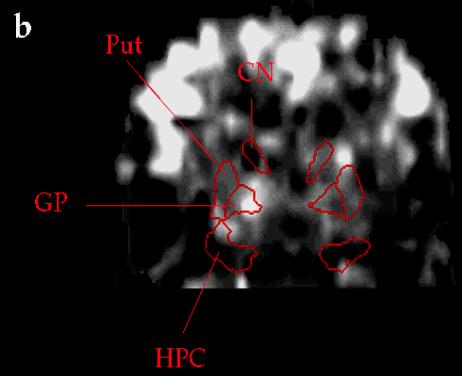
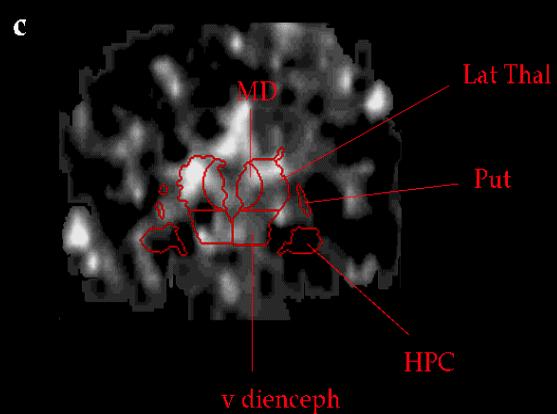
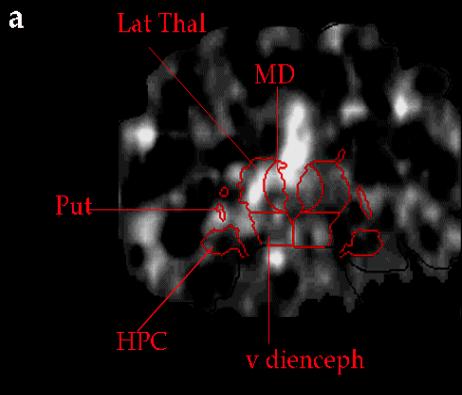
But What About White Matter...

## Subcortical Parcellation



# Subcortical Parcellation

Localization of Activation - Selective Attention fMRI Study



# **BrainMap Database**

---

**WWW Access-**

**<http://ric.uthscsa.edu/services>**

**As of 3/97:**

**217 Papers**

**733 Experiments**

**7508 Locations ( Foci)**



# ***BrainMap Search & View***

*for the World-Wide-Web*

## ***General Information***

You are logged in as user *guest* (Guest User), Userlevel: *Guest*.

The database currently contains:

*217 papers, 733 experiments and 7508 locations*

[Access the online help pages](#)

## ***Database Access***

[Create a new query](#)

[Apply for a full account with the Database](#)

---

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*University of Texas Health Science Center at San Antonio*

*Interface Design and Programming by*

*Thomas Ganslandt ([ganslan@uni-muenster.de](mailto:ganslan@uni-muenster.de))*

# BrainMap Data Entry

- Behavioral Criteria

BrainMap Search and View: [Home](#) | [Help](#)

### Add Behavioral Criteria

**Behavioral Effects**

AND

- Cognition,Attention
- Cognition,Language
- Cognition,Mathematics
- Cognition,Memory
- Disease
- Drug
- Emotion

**Paradigm**

AND

- Anxiety, Anticipatory Anxiety
- Attention, Visual Selective Attention
- Auditory Detection
- Colored 'Mondrian'
- Controls Chorus Reading
- Controls Solo Reading
- Cued movements

**Stimulus**

AND

- None
- Objects
- Auditory,Abstracts
- Auditory,None
- Auditory,Objects
- Auditory,Words

**Response**

AND

- Head-Neck
- Limb-Motor
- None
- Oculomotor
- Speech

# BrainMap Data Entry

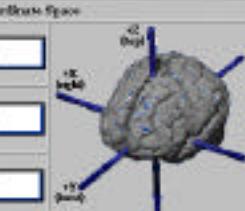
- Location Criteria

BrainMap Search and View | Help | File

### Add Location Criteria

Bidimensional Coordinate Space

X = [ ]	X-Range +/- [ ]
AND [ ]	
Y = [ ]	Y-Range +/- [ ]
Z = [ ]	Z-Range +/- [ ]



All fields have to be filled. Zeros have to be written as 0.0

**Brodmann's Area**

1	3	11	12	13	17	18
AND [ ]						

**Franck's Area**

V1	A2	QC	M1	PA	S1	V2
AND [ ]						

**Conventional Name**

superior parietal ??-no data Broca homologue Broca's area Brocas Area Brocas area Caudate	AND [ ]
---	---------

**Lobal Outline**

Lobe	Surface	AP Axis
<input checked="" type="checkbox"/> Frontal Lobe	<input checked="" type="checkbox"/> Basal Surface	<input checked="" type="checkbox"/> Anterior
<input checked="" type="checkbox"/> Limbic Lobe	<input checked="" type="checkbox"/> Medial Surface	<input checked="" type="checkbox"/> Middle
<input checked="" type="checkbox"/> Occipital Lobe	<input checked="" type="checkbox"/> Lateral Surface	<input checked="" type="checkbox"/> Posterior
<input checked="" type="checkbox"/> Parietal Lobe		
<input checked="" type="checkbox"/> Temporal Lobe		
<input checked="" type="checkbox"/> Cerebellum		
		SI Axis
		<input checked="" type="checkbox"/> Superior
		<input checked="" type="checkbox"/> Middle
		<input checked="" type="checkbox"/> Inferior
		ML Axis
		<input checked="" type="checkbox"/> Medial
		<input checked="" type="checkbox"/> Middle
		<input checked="" type="checkbox"/> Lateral

# BrainMap Data Entry

- Protocol Criteria

BrainMap Search and View: Menu | Help

Add Protocol Criteria

Modality	Measurement Variable
ERP MRI-ERP PET PET-MRI PET/ERP SPECT/MRI fMRI	CBF CBV CMRGlu Electrical potentials rCBF rCMRGlu

Tracer

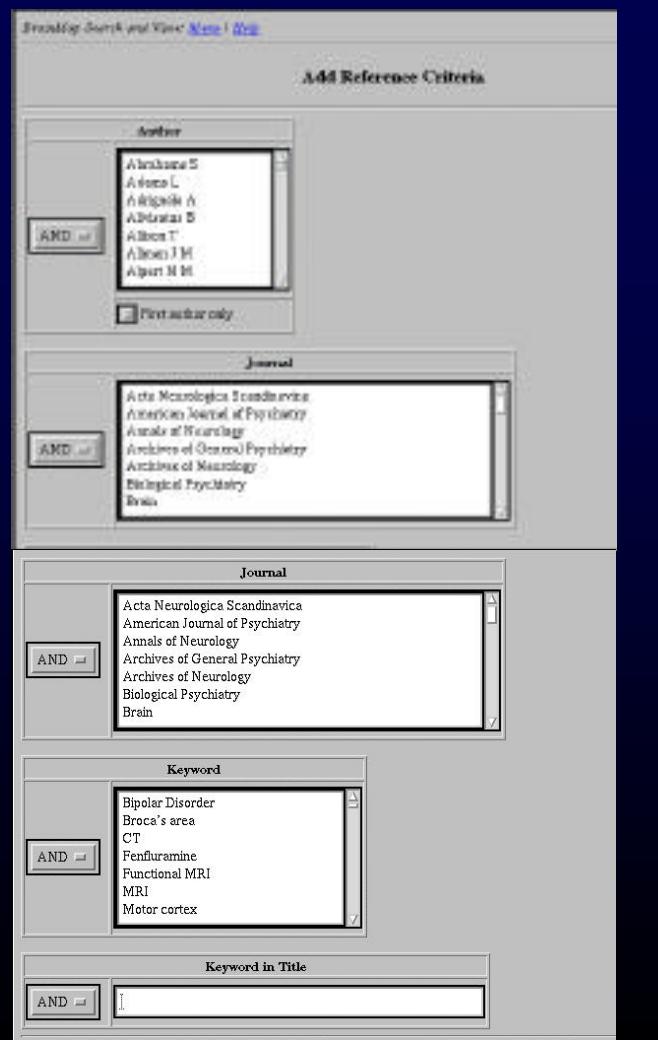
AND
(C11) fluoromethane (F18) fluoro-deoxyglucose (Tc99) HMPAO O-15 CO2 18-FDG FDG Gd DTPA 2-

Lab

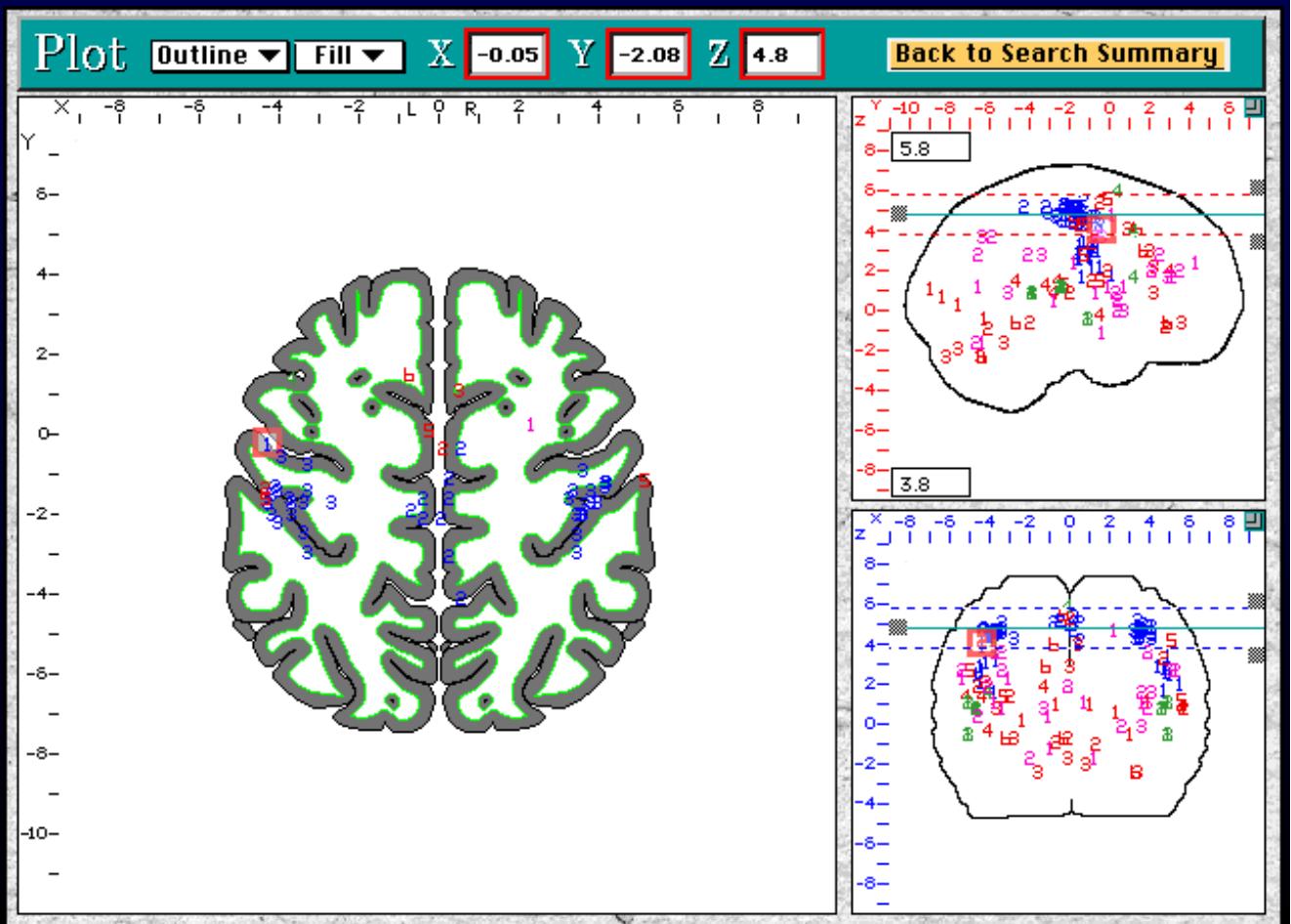
AND
Clarke Institute - Toronto Good Samaritan - Phoenix, Arizona Hammersmith Hos Hammersmith Hospital - London Harvard University/Massachusetts General Hospital Heinrich-Heine University - Dusseldorf Johns Hopkins University

# BrainMap Data Entry

- Reference Criteria



## Example Search Results



# **Brain Atlas for Functional Imaging**

## **Clinical and Research Applications**

Version 1.0



## User Guide

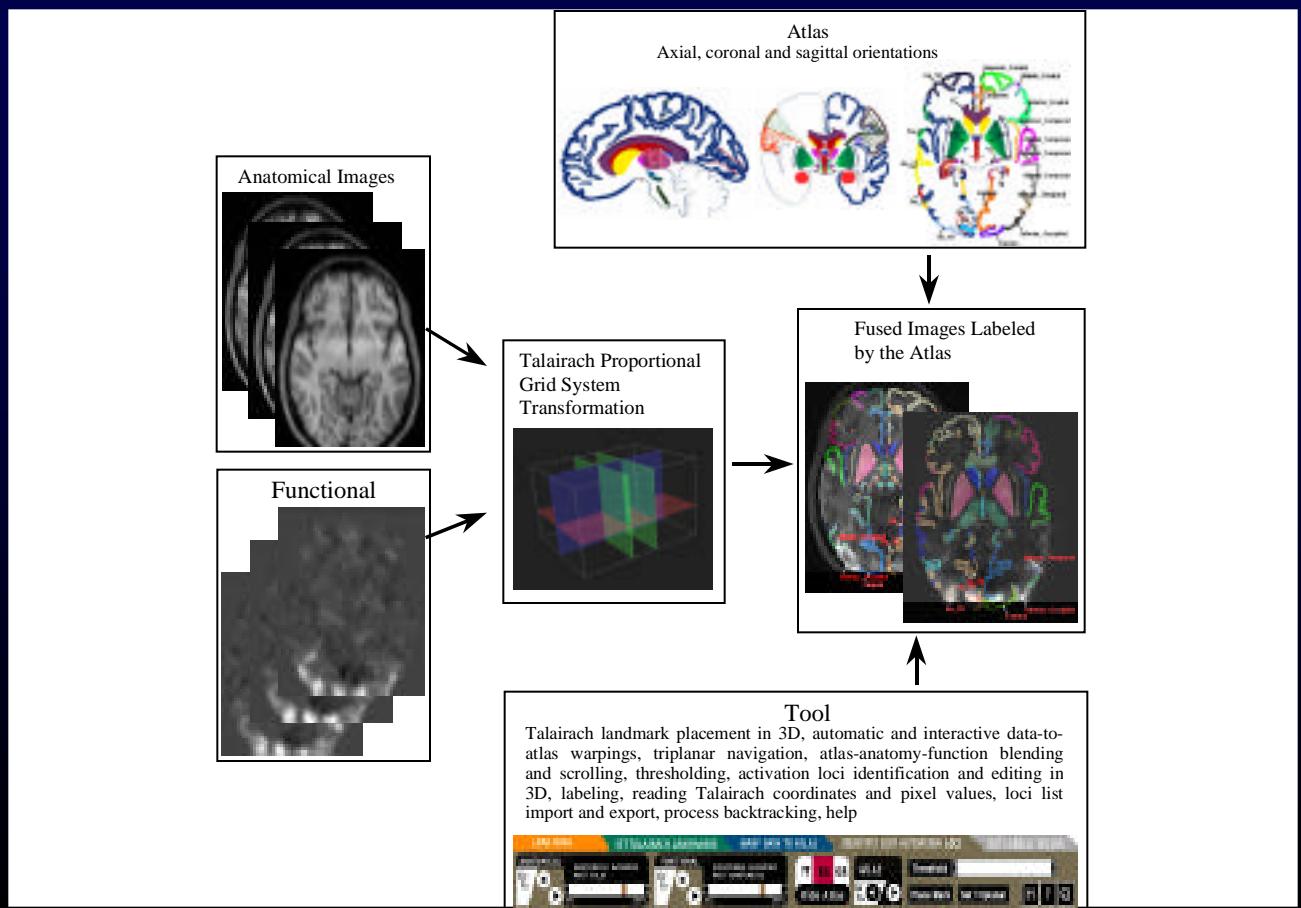
Wieslaw L. Nowinski and A. Thirunavuukarasu  
Biomedical Lab, Kent Ridge Digital Labs, Singapore

David N. Kennedy  
Massachusetts General Hospital, USA

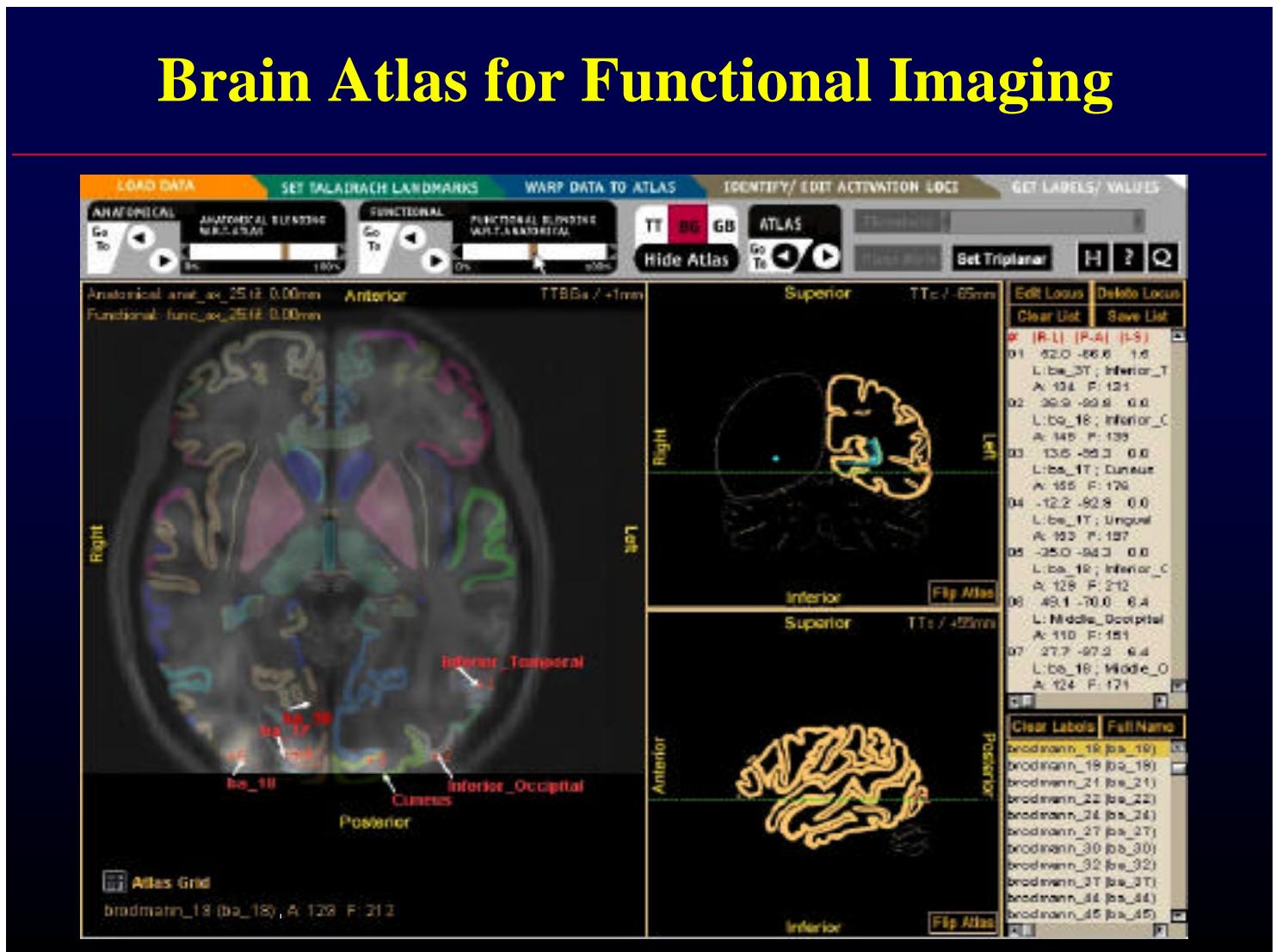


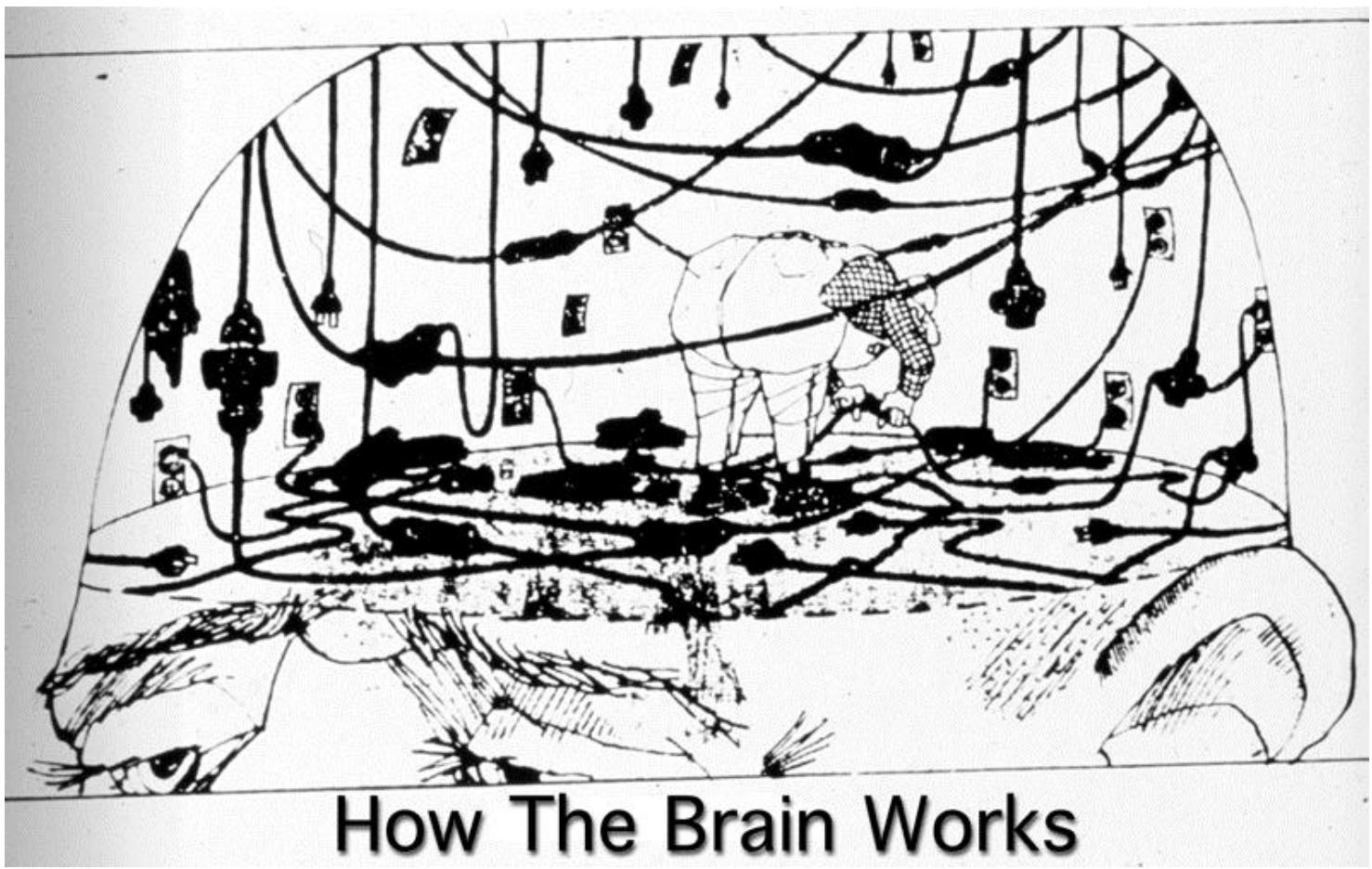
Singapore, 2000

# Brain Atlas for Functional Imaging



# Brain Atlas for Functional Imaging





**How The Brain Works**