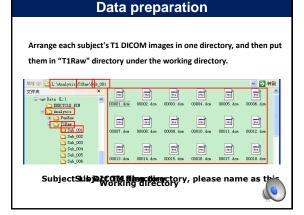
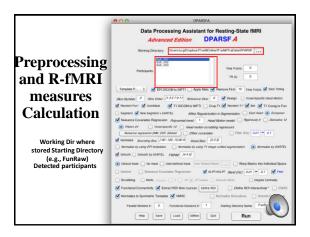
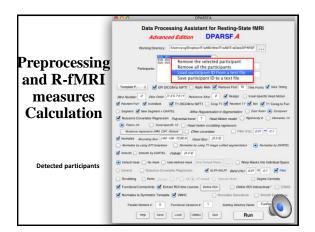
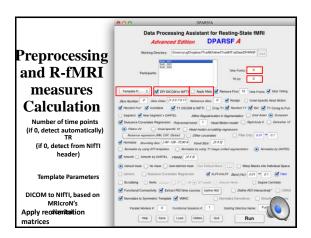


#### Data preparation Arrange each subject's fMRI DICOM images in one directory, and then put them in "FunRaw" directory under the working directory. 地址 @) 🛅 L: \Analysis FunRaw Sub\_001 🗸 🔁 转到 文件夹 🗄 🥪 MyOwn (K:) \$RECTCLE. BI . 5 • • 6 20100 00010 4/ 00011. der 00012. 8 = **\_** 00018. 8 SubjectSubject Offuting directory, please name as

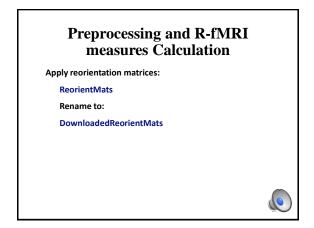


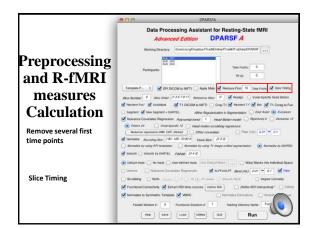


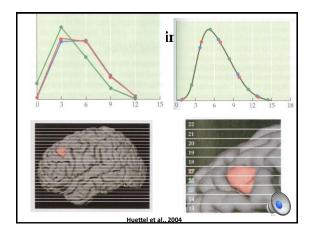


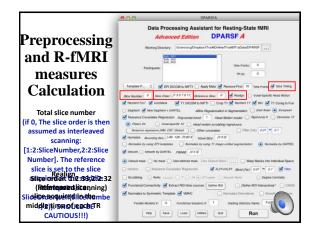


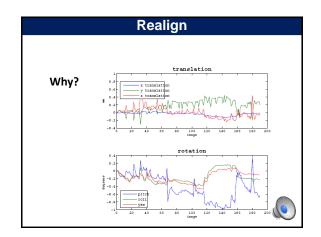








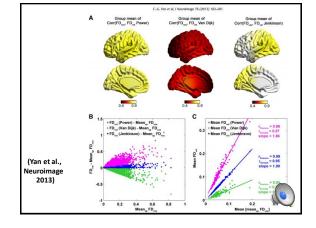




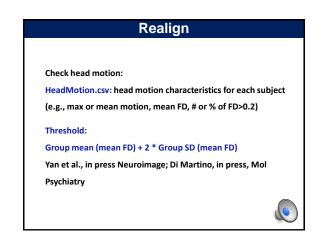
# Realign

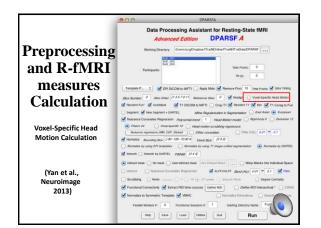
Check head motion: {WorkingDir}\RealignParameter\Sub\_xxx:

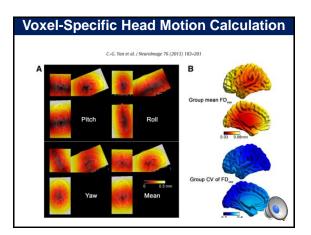
- rp\_\*.txt: realign parameters
- FD\_Power\_\*.txt: Frame-wise Displacement (Power et al., 2012)
- FD\_VanDijk\_\*.txt: Relative Displacement (Van Dijk et al., 2012)
- FD\_Jenkinson\_\*.txt: Relative RMS (Jenkinson et al., 2002)

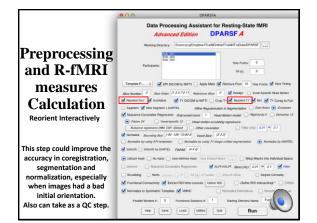


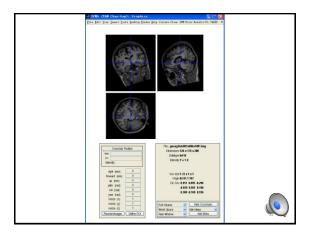
Realign		
	Excluding Criteria: 2.5mm and 2.5 degree in max head motion None	
Check hea		
ExcludeSul	Excluding Criteria: 1.5mm and 1.5 degree in max head motion Sub_013	
	Excluding Criteria: 1.0mm and 1.0 degree in max head motion Sub_007 Sub_012 Sub_013	
	Sub_017 Sub_018	

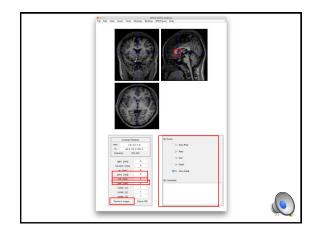


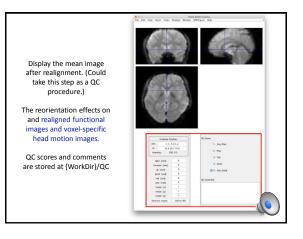


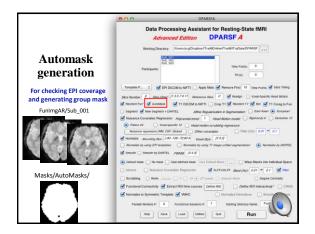


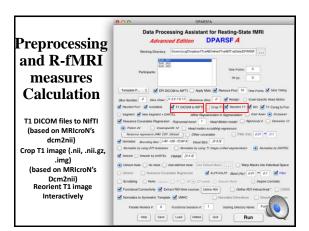


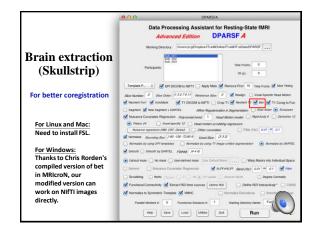


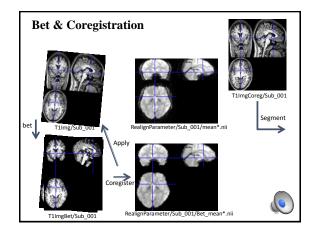


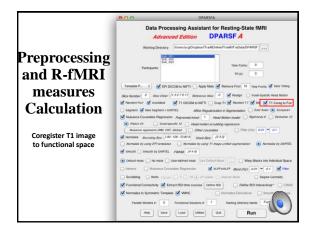


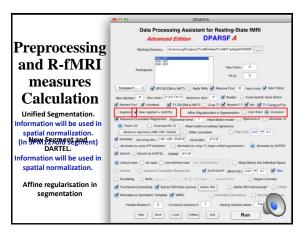


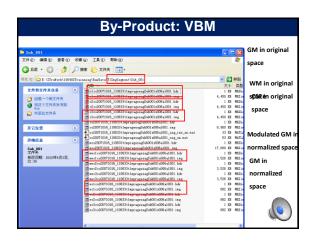


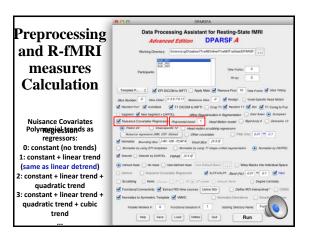


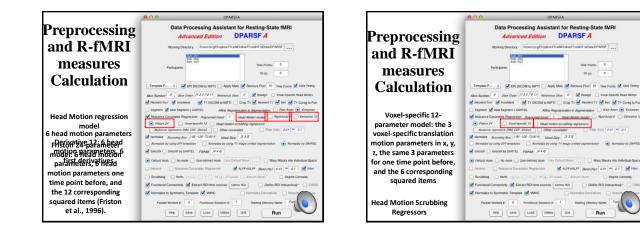




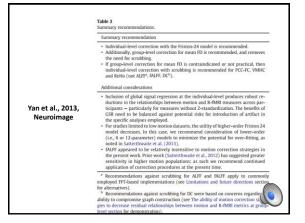


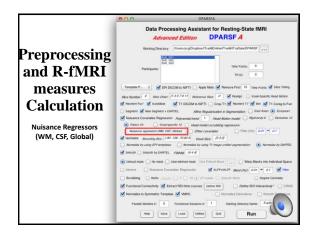


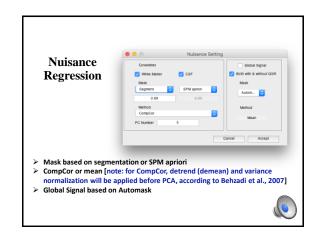


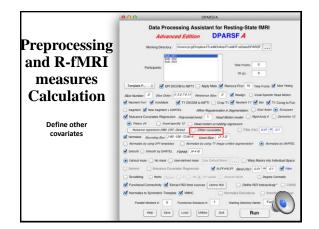


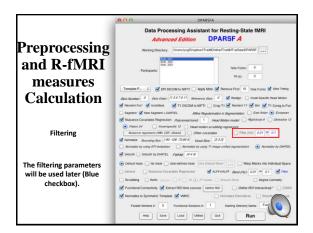


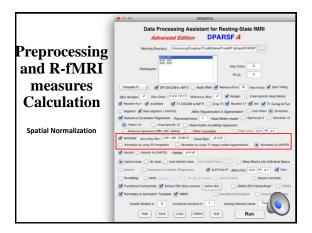


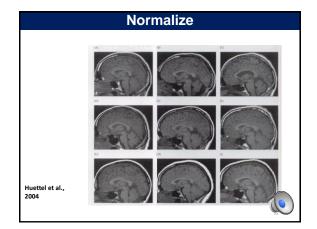












### Normalize

### Methods:

- I. Normalize by using EPI templates
- II. Normalize by using T1 image unified

segmentation

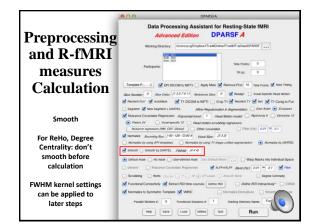
III. Normalize by using DARTEL

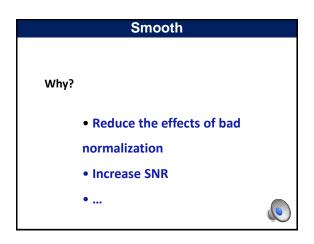
IV. Normalize by using T1 templates (hidden)

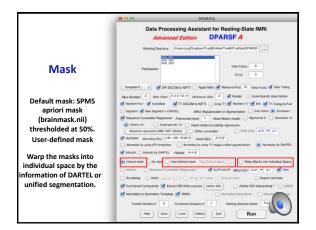
### Normalize

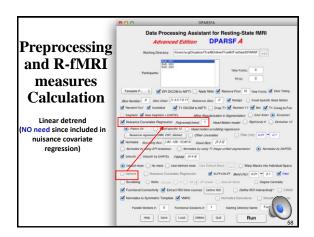
### **III. Normalize by using DARTEL**

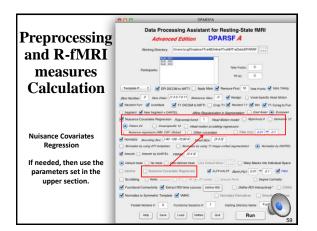
- Structural image was coregistered to the mean functional image after motion correction
- The transformed structural image was then segmented into gray matter, white matter, cerebrospinal fluid by using a unified segmentation algorithm (New Segment)
- DARTEL: create template
- DARTEL: Normalize to MNI space. The motion corrected functional volumes were spatially normalized to the MNI space using the normalization parameters estimated in DARTEL.

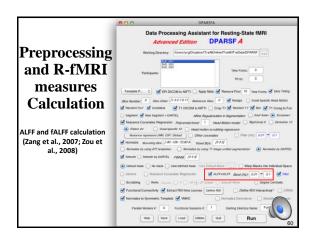


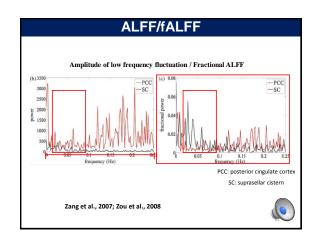


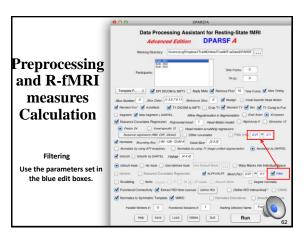


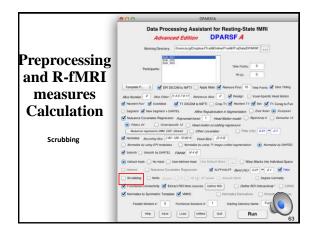


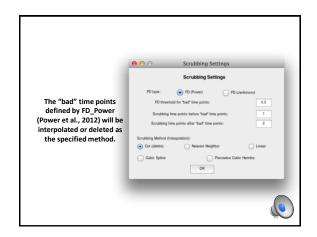


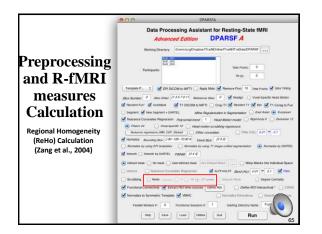


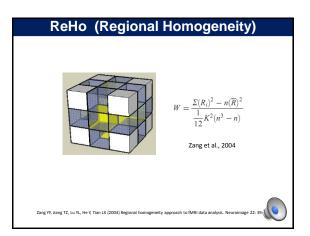


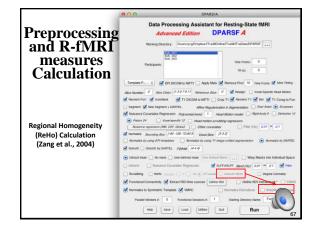


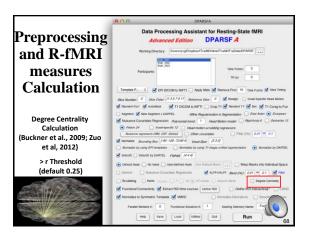


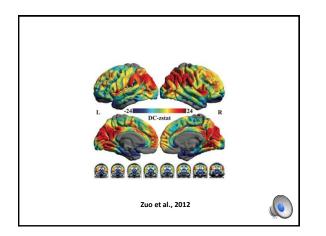


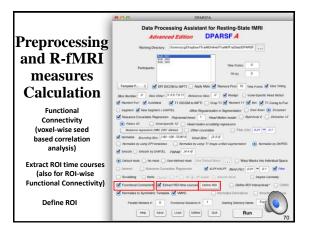


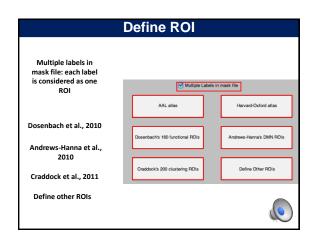


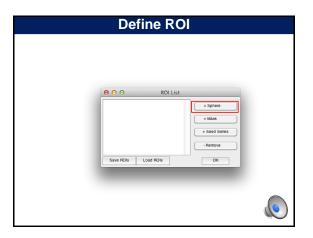


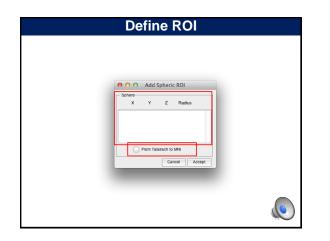


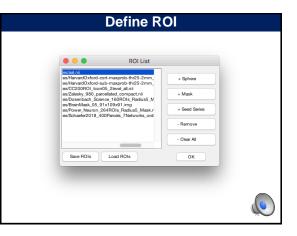


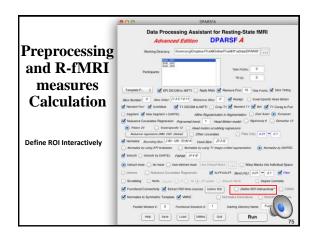


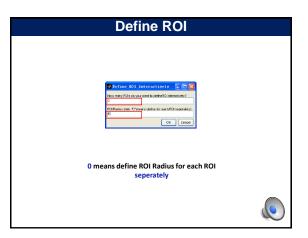


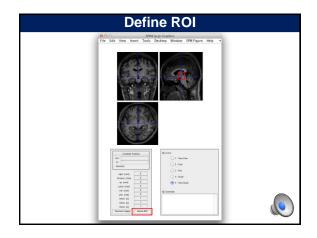


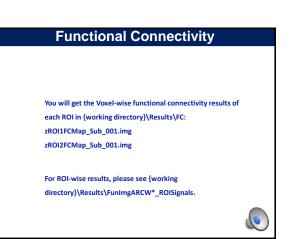


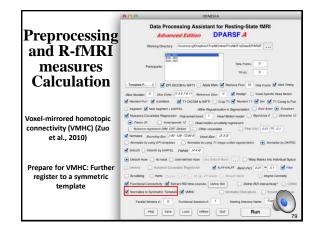


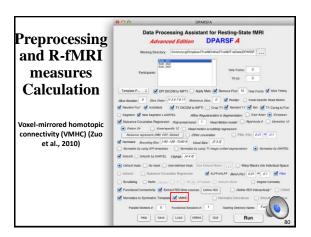






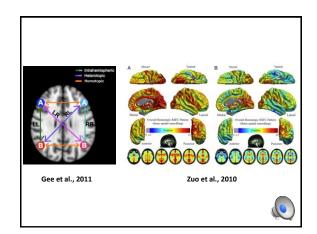






## VMHC

- Get the T1 images in MNI space (e.g., wco\*.img or wco\*.nii under T1ImgNewSegment or T1ImgSegment) for each subject, and then create a mean T1 image template (averaged across all the subjects).
- 2) Create a symmetric T1 template by averaging the mean T1 template (created in Step 1) with it's flipped version (flipped over x axis).
- 3) Normalize the T1 image in MNI space (e.g., wco\*.img or wco\*.nii under T1ImgNewSegment or T1ImgSegment) for each subject to the symmetric T1 template (created in Step 2), and apply the transformations to the functional data (which have been normalized to MNI space beforehand). Please see a reference from Zuo et al., 2010.



	0 0 DPARSFA
	Data Processing Assistant for Resting-State fMRI
	Advanced Edition DPARSF A
Preprocessing	Working Directory: Users/ycg/Drophox/TraABOnine/TraABITraDataDPARSE
and R-fMRI	Participante: 0 The Points 0 Participante: 0 The Points 0
measures	Template P. 2 FPI DICOM to NIFTI Apply Mats Remove First 10 Tame Points of Silce Timing
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Parallel Workers (if parallel computing toolbox is installed)	Withins Considering Regression Approximations     1     Anale Advancements     Approximation (2)       Within the second
	Annualize by using EPI lengulates Annualize by using EPI lengulates Annualize by UNHTEL Simoon by UNHTEL FUHAE [44.4] Orbust track () No mask () Unerdefined mask () Une Default Mask (),
Each subject is distributed into a different worker. (Except DARTEL-Create	Default mass ( w mass ( ) ball-officie mass ( ) and Difful Mass ( ) ( ) Weigh Massis are to Record appect Default ( ) Malance Countries Regression ( ) AltH-MALTE <i>Davy (MpL)</i> and ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) (
Template)	Normalize to Symmetric Tenglate & WIPC Normalize to Devolves Paulate Wokans r:

