These files describe the data associated with the paper:

***Yuanjing F*** (202\*)

“Single-neuron and whole-brain mapping of the arcuate fasciculus in macaque monkeys: insights into human homologous organization”

**Brain Atlases and Tractography Protocols**

The directory **Human Brain Atlas** contains brain atlases described in the paper:

* **BN\_Atlas\_1mm.nii.gz**: Used to perform cortical segmentation of human brains.
* **MNI152\_T1\_1mm\_brain.nii.gz**: Human brain standard space.

The directory **Macaque Arcuate Fasciculus Tractography Templates** contains the revised protocols used to generate arcuate fasciculus tracts using probabilistic tractography, including seed, target, and exclusion mask. We also provide brain atlases described in the paper:

* **D99\_Cyno162\_0p5.nii**: Used to perform cortical segmentation of macaque brains.
* **F99**: Macaque brain standard space.

**Code**

The **Code** directory contains MATLAB scripts to perform the similarity analyses described in the paper:

* **calc\_KL.m**: Calculates the KL divergence between two blueprints.

**Results**

Some of the illustrative results presented in the paper's figures are included in the **CoCoMac** directory and the **Maps** directory:

* **cocomac.xlsx**: Neurons projecting from the prefrontal lobe to the temporal lobe from the CoCoMac 2.0 database (<http://cocomac.g-node.org/main/index.php>).
* The 26 blueprints (20 human, 4 macaque, 2 mean) for human and macaque are located in the **Maps/Human** and **Maps/Macaque** directories.
* **KL Divergence Matrix of AF-related Regions.mat**: Shows KL divergence between human and macaque AF-related regions.
* **KL Divergence Matrix of Whole Brain Regions.mat**: Shows KL divergence between human and macaque whole brain regions.
* **Spectral Embedding Space Distance.mat**: Shows Euclidean distances between human and macaque brain regions in spectral embedding space.