INCF Japan Node Hackathon

April 9-11, 2016

Report of BAH2015

Summary of a questionnaire survey to PFs

voxel	6
pixel	1
vector	3
points	1

	persons	PF
python	4	3
java(含 ImageJ)	2	2
javascript	4	1
R	2	1
C/C++	5	2
PHP	3	2
その他		
HOC	2	
NMODL	1	
imageJ	1	
MATLAB	1	
mySQL		1

PF名	BrainTx	ViBrism DB		Dynamic Brain PF / SimPF	Sim-PF			NIMG -PF	Marmose
1 file modality	2.pixel	1. voxel	1. voxel	1. voxel 3. vector	1. voxel	4. 点の座標	3. vector	1. voxel	1. voxel
2.format	TIFF	vcat	nii	.raw, .vol, .vtk	Lsm, tiff	swc	obj	Spesific format	Scr
3.typical data size and number	2800 genex 2x700 MB tif	40k x 200MB	5MBx 2xc		100MBxx	A few MB	A few MB	Xx(9428592byte)	50v1
6.Data license	Now not open	CC-BY-SA	CC-BY-SA					mp	
What is Your toos youk cal introducr		VCAT		PhysioDesigner, ImageViewer, Morphology Editor, Garuda platform	Neuron extraction				
Software soucecode is open?		No		No(but free)	Yes			No	
What license					BSD				

Brain atlas ideathon
date：　2015/7/15　9：45-18：00
place：　Riken BSI seminar room
http://www.neuroinf.jp/bah2015/ideathon.html

speaker		9
General particiant		12
Through web conversation		3

Brain atlas hackathon 2015

- date : 2015 9.5-7
- place : Riken BSI

more than 22 guys

- Preprocessing for neuron segmentation team
- leader ：Tetsuya Fukuda（Rcast, Univ of Tokyo.　student）
- **Regestarion team**
- leader ： Hidetoshi Ikeno
- **Web3D team**　3D表示
- leader ： Masahide Maeda（NIJC Riken）
- **Pipeline Team**
- leader ： Alexander Woodward （ NIJC Riken ）
- **Automatic database manipuration team**
- leader ： Tomoki Kazawa

Image processing (deconvolution) and neuron segmentation
There was a discussion to Dr.Peng in AINI

Continuing　probably the paper about this work will be applied

Extension about image file format

Constructed image processing pipeline using Ipython notebook

CosmoAPI is good tool for manipuration by web-API and it is used migration of data　from local BoND-DB to IVB=PF

Aini 2015 special session

Not finished ：open the software tools

July　International event

- J-Node and NIDM Joint Hackathon : 2016 7/23-25 (from Sat to mon)

- 7・22 related symposium in

第39回 日本神経科学大会
The 39th Annual Meeting of the Japan Neuroscience Society

S3-F-3 Integration of Multi-dimensional Neuroscience.
Chair : Yoko Yamaguchi and Teiichi FURUICHI

http://www.neuroscience2016.jnss.org/

WITH

INCF-NIDASH
INCF Neuroimaging Data Sharing Task Force
nidm
Neuroimaging Data Model (NIDM): describing neuroimaging data and provenance

IVB-PF

Now Many(more than 10) database (CosmoDB) have its own terminology.

We are planning integrate those to one database(Xoonips).

How integrate those ontology?

- Our answer
- Link keyword to the outside mediawiki
- Construct relations between these word in wik
- Using semantic mediawiki(+)

Keywords in DB A
Morphology/
Dendrites in the tip of the mushroom body Beta lobe and axon terminals in the lateral protocerebrum
Dendrites in the lateral and posterior protocerebrum and axon terminals in the mushroom body calyces
Keywords in DB B
部位/
脳
キノコ体
キノコ体/傘部
前大脳側葉
Keywords in DB C
arborization area/
AL
AL/G
AL/G/AV
AL/G/AD
AL/G/A
AL/G/PD
AL/G/P
AL/G/V
AL/MGC
AL/MGC/Cumulus
AL/MGC/Horseshoe
AL/MGC/Toroid
CC
LAL
MB

キノコ体＝Mushroom body = MB

To do

Prepare wiki(using copy of jscp wiki)

Link keyword in data page in bond/xoonips to wiki keyword page

Descript keyword in wiki or move terminology page in

Make backlink in keyword page in wiki

https://cns.neuroinf.jp/jscpb/wiki/

Construct and improvement ontology

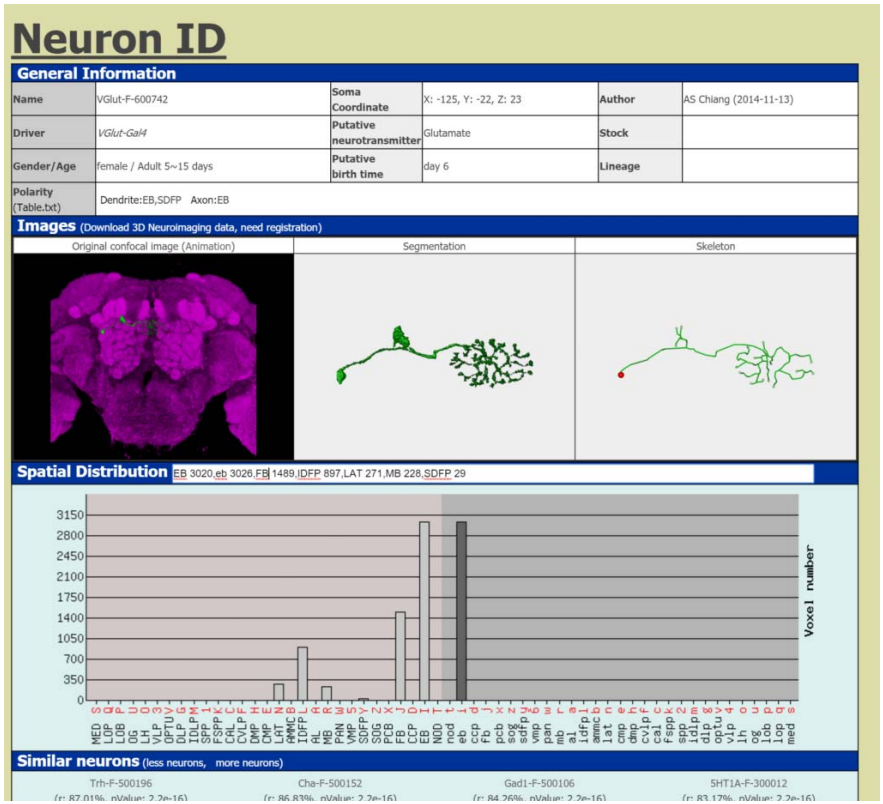
synonym

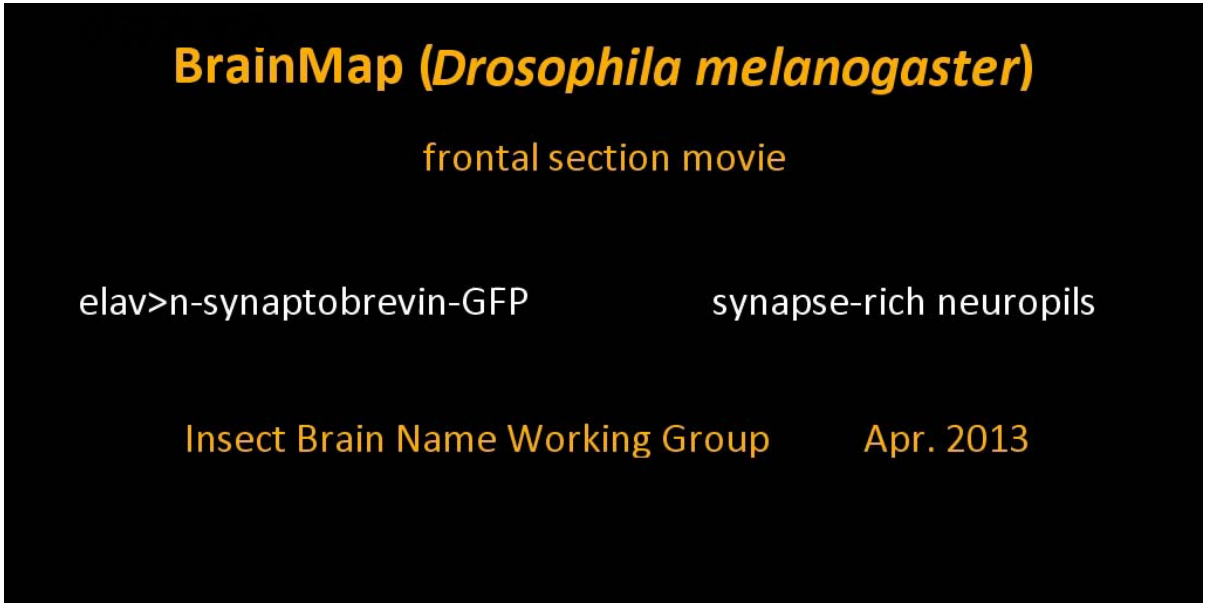
aberration

English/ Japanese translation

Using DAO（drosophila anatomy ontology)?

参考





fly circuit

Drosophila anatomy ontology (DAO)

http://flycircuit.tw/modules.php?name=clearpage&op=detail_table&neuron=VGlut-F-600742