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enter website by clicking on

Search Brain Database

Database of GENSAT BAC-Cre driver lines

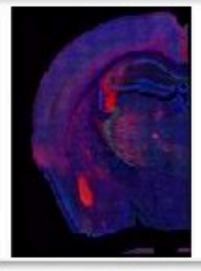
Database of high resolution images of brain sections expressing Cre recombinase.
Expression patterns may be selected and compared by brain system.

Instructions: PDF file of instructions to use this website
Brain Systems: PDF files of information on brain systems and Cre-driver lines

Search Brain Database: access to Cre-driver line database

Cre lines may also be accessed through GENSAT database: http://www.gensat.org/cre.jsp

contact: Chip Gerfen, Laboratory of Systems Neuroscience, NIMH: gerfenc@mail.nih.gov



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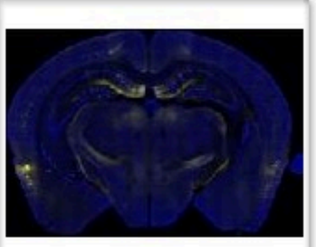

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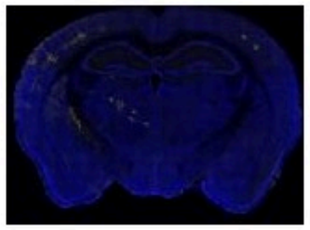

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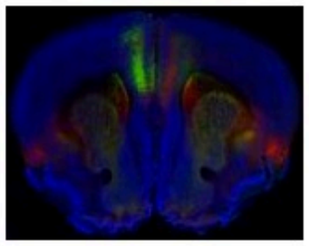

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Select Cre driver line(s): default lists all lines or select by Keyword for lines with expression in specific brain system

Select the coronal levels to display by checking box(es) : default provides 1 level in 5, All Levels option allows selection from all

KeyWord: 01 all tracing cases

KeyWord:

KeyWord:

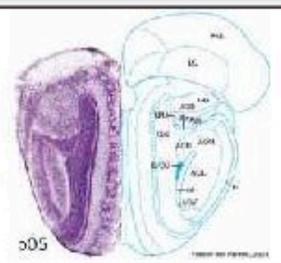
LINES Select All Unselect All

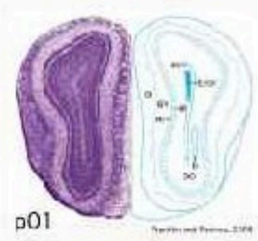
10T_KL100_272_02	PT and IT corticostriatal
10T_KL100_272_03	PT and IT corticostriatal
10T_KL100_677_03	PT and IT corticostriatal
10T_KL100_678_02	PT and IT corticostriatal
10T_KL100_678_03	PT and IT corticostriatal
13T_NF107_576_02	PT and IT prefrontal corticost...
13T_NF107_576_03	PT and IT prefrontal corticost...
21T_KJ18_537_03	PT corticostriatal
22T_OE25_454_02	PT corticostriatal
22T_OE25_454_03	PT corticostriatal
22T_OE25_718_02	PT corticostriatal
31T_PL56_2332_02	IT corticostriatal
31T_PL56_2332_03	IT corticostriatal
41T_OG1_336_02	matrix corticostriatal
41T_OG1_336_03	matrix corticostriatal
51T_OG1_3674_02	striatal matrix
51T_OG1_3674_03	striatal matrix
52T_NP67_290_02	striatal patch

Select All Unselect All

LEVELS (All Levels)	DESCRIPTION
c5	c05 olfactory bulb
c10	c10 frontal cortex
c15	c15 frontal cortex
c20	c20 accumbens
c25	c25 striatum
c30	c30 septal area
c35	c35 globus pallidus
c40	c40 hypothalamus
c45	c45 thalamus
c50	c50 hippocampus
c55	c55 midbrain
c60	c60 substantia nigra
c65	c65 colliculus
c70	c70 dorsal raphe
c75	c75 PPN
c80	c80 brainstem
c85	locus coeruleus
c90	c90 cerebellum
c95	c95 cerebellum
c100	

Place mouse over Level description to change image.





Display Slides

Results display lines in rows

Results display lines in columns

Power

log o

Click he

KeyWord:

01 all tracing cases

click on any line and all sections for that case will show up

tracing cases are organized by line and 02 or 03

02:tracer and nissl

03 : tracer, nissl and Cre

line: atr_KL100_272_02

long_description PT and IT corticostriatal

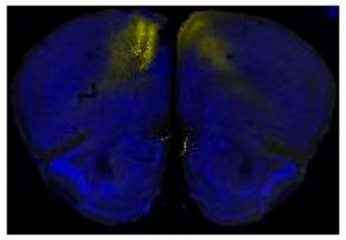
10T_KL100_272_02

Slides

This shows thumbnails of all the sections from the case of an injection into the secondary motor area in KL100

this is the 02 configuration, which shows the tracer and nissl

click on any thumbnail to view at higher magnification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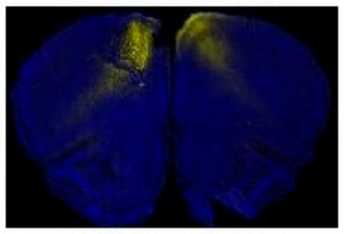
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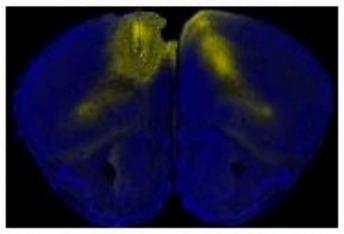
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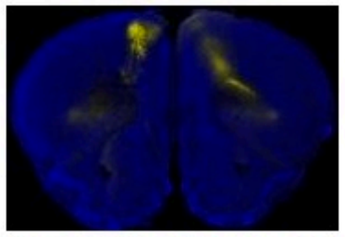
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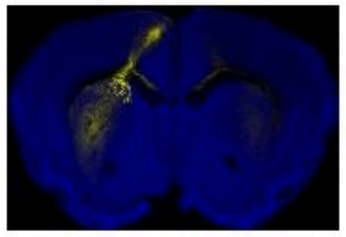
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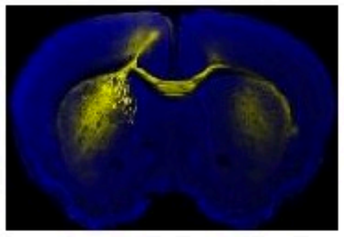
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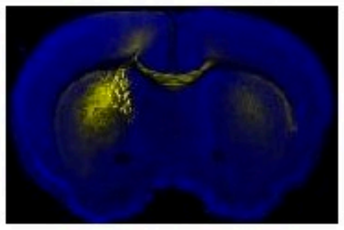
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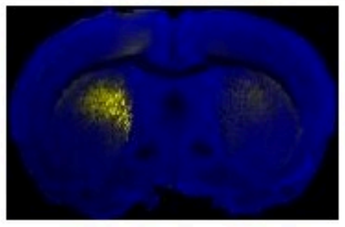
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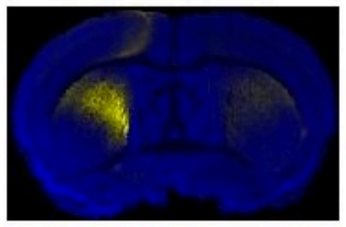
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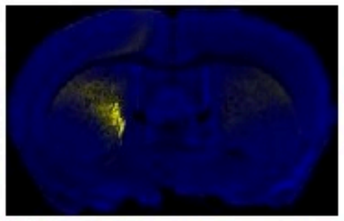
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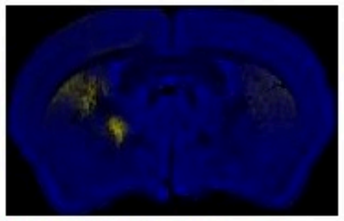
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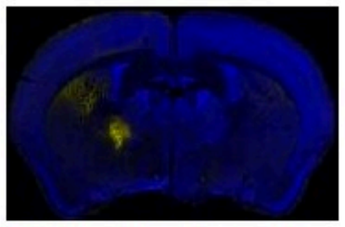
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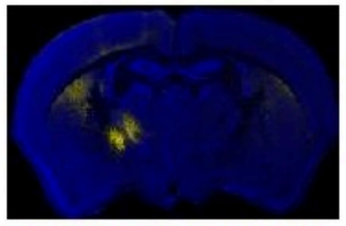
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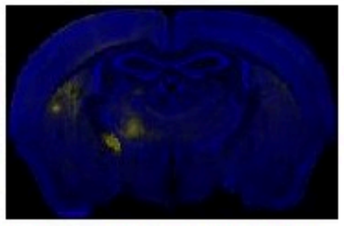
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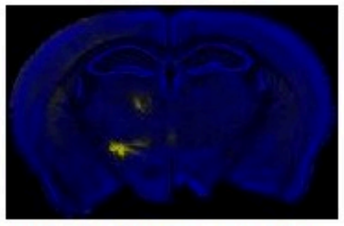
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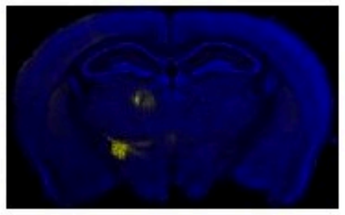
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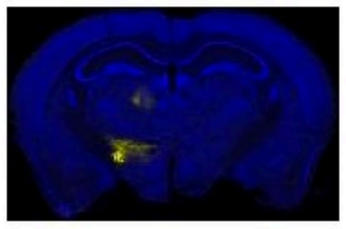
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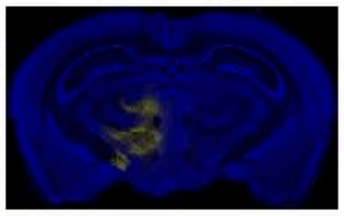
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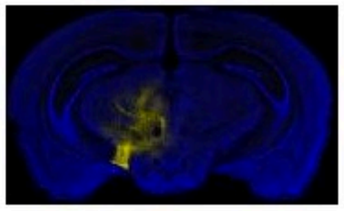
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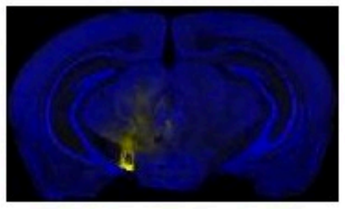
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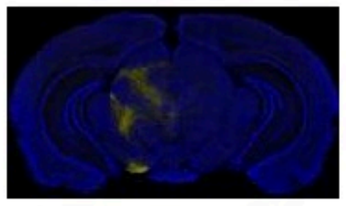
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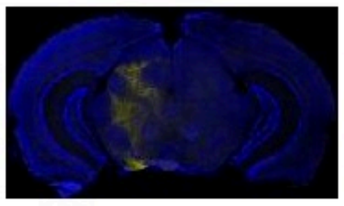
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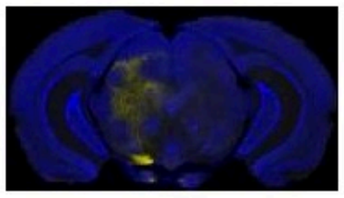
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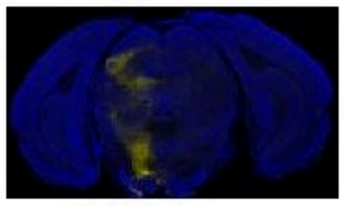
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line: atr_KL100_272_03

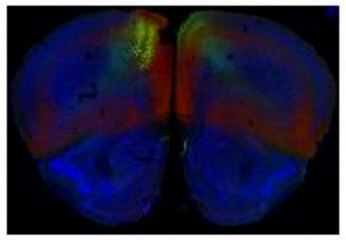
long_description PT and IT corticostriatal

10T_KL100_272_03

this shows the same case in the 03 configuration

with the tracer (green), nissl (blue) and Cre (red)

Slides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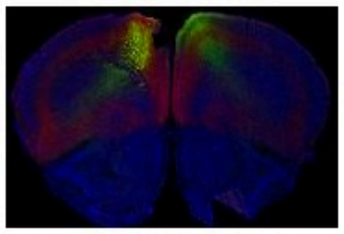
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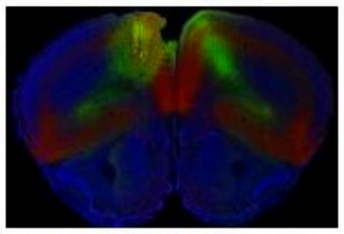
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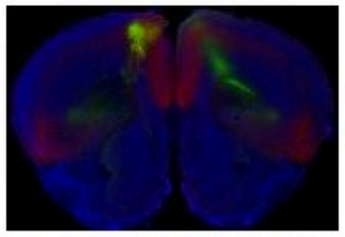
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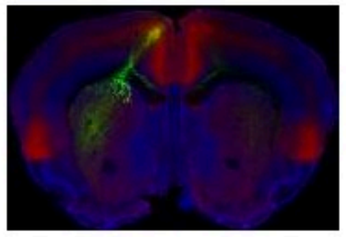
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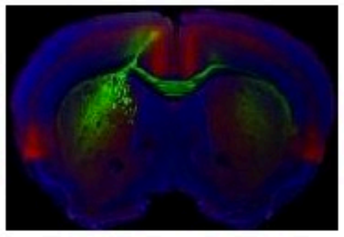
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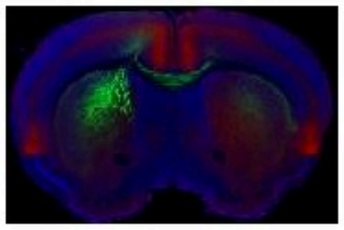
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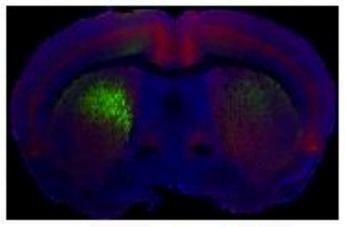
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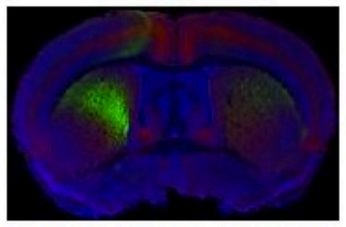
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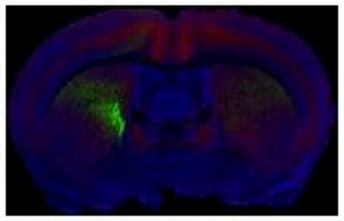
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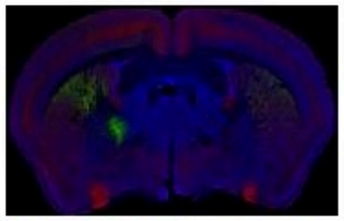
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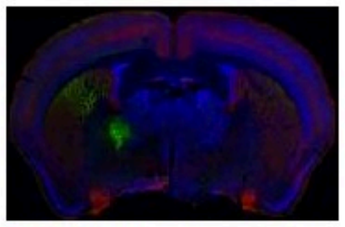
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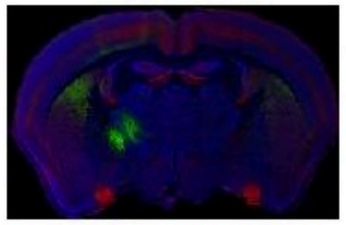
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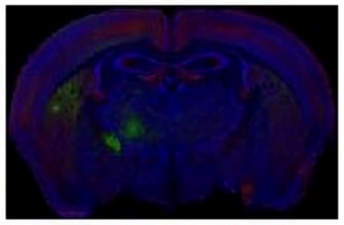
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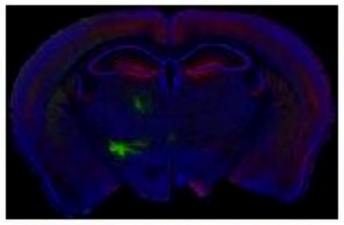
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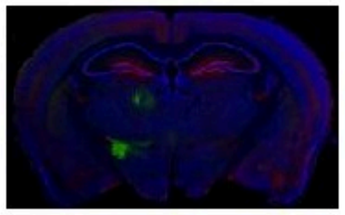
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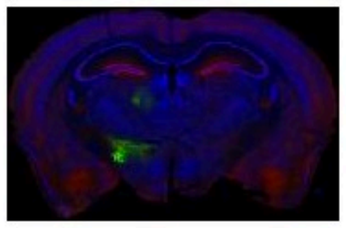
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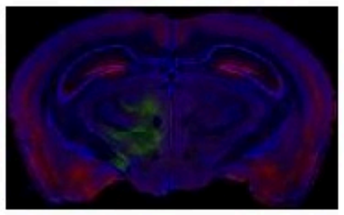
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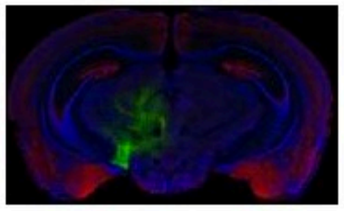
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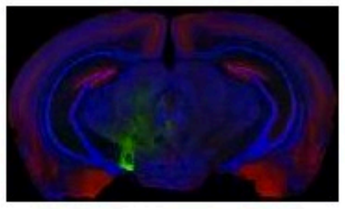
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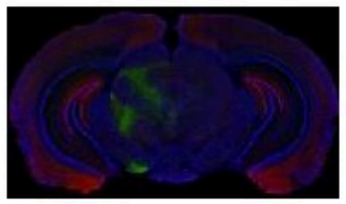
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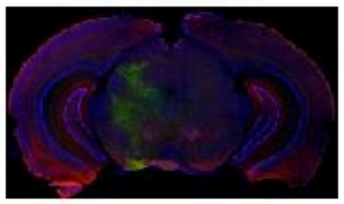
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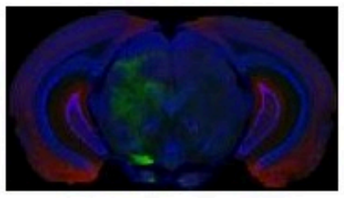
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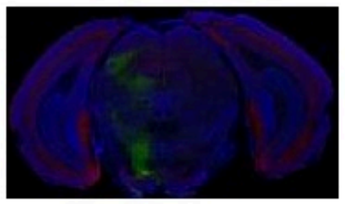
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select those tracing cases of PT and IT corticostriatal

KL100 and NF107 (Gltd2)

Select Cre driver line(s): default lists all lines or select by Keyword for lines with expression in specific brain system

Select the coronal levels to display by checking box(es) : default provides 1 level in 5, All Levels option allows selection from all

KeyWord: 01 all tracing cases

KeyWord:

KeyWord:

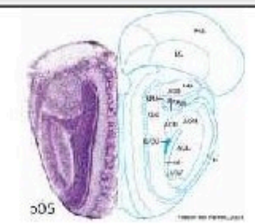
LINES Select All Unselect All

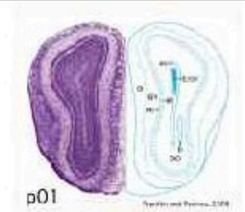
- [x] 10T_KL100_272_02 PT and IT corticostriatal
- [x] 10T_KL100_272_03 PT and IT corticostriatal
- [x] 10T_KL100_677_03 PT and IT corticostriatal
- [x] 10T_KL100_678_02 PT and IT corticostriatal
- [x] 10T_KL100_678_03 PT and IT corticostriatal
- [x] 13T_NF107_576_02 PT and IT prefrontal corticost...
- [x] 13T_NF107_576_03 PT and IT prefrontal corticost...
- [ ] 21T_KJ18_537_03 PT corticostriatal
- [ ] 22T_OE25_454_02 PT corticostriatal
- [ ] 22T_OE25_454_03 PT corticostriatal
- [ ] 22T_OE25_718_02 PT corticostriatal
- [ ] 31T_PL56_2332_02 IT corticostriatal
- [ ] 31T_PL56_2332_03 IT corticostriatal
- [ ] 41T_OG1_336_02 matrix corticostriatal
- [ ] 41T_OG1_336_03 matrix corticostriatal
- [ ] 51T_OG1_3674_02 striatal matrix
- [ ] 51T_OG1_3674_03 striatal matrix
- [ ] 52T_NP67_290_02 striatal patch

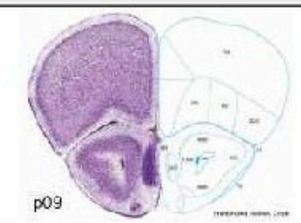
Select All Unselect All

LEVELS	All Levels	DESCRIPTION
[ ] c5		c05 olfactory bulb
[ ] c10		c10 frontal cortex
[x] c15		c15 frontal cortex
[x] c20		c20 accumbens
[x] c25		c25 striatum
[x] c30		c30 septal area
[x] c35		c35 globus pallidus
[x] c40		c40 hypothalamus
[x] c45		c45 thalamus
[x] c50		c50 hippocampus
[x] c55		c55 midbrain
[x] c60		c60 substantia nigra
[x] c65		c65 colliculus
[x] c70		c70 dorsal raphe
[ ] c75		c75 PPN
[ ] c80		c80 brainstem
[ ] c85		locus coeruleus
[ ] c90		c90 cerebellum
[ ] c95		c95 cerebellum
[ ] c100		

Place mouse over Level description to change image.







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- (•) Results display lines in columns

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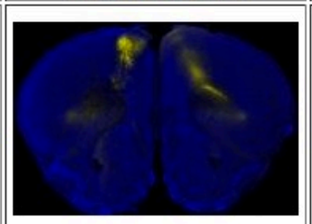
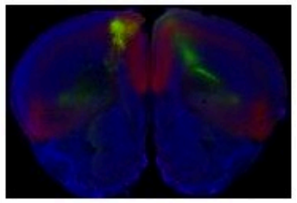
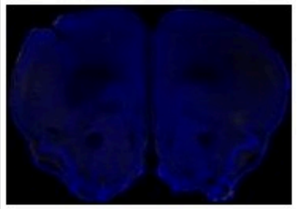
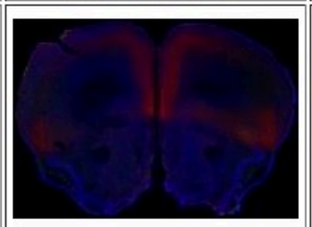
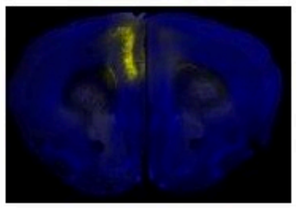
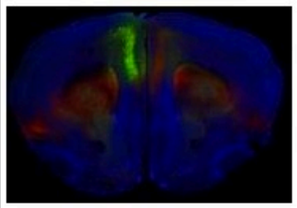
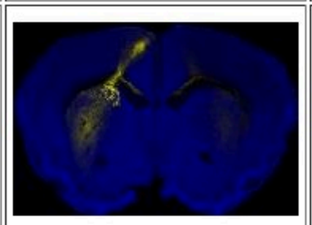
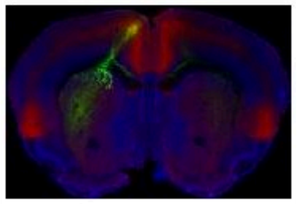
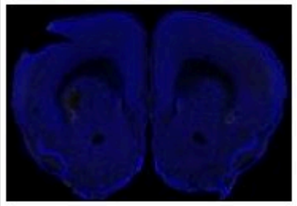
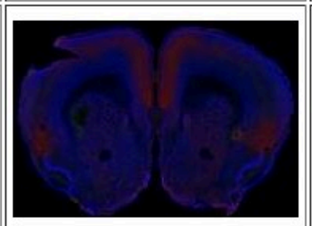
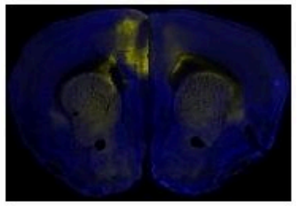
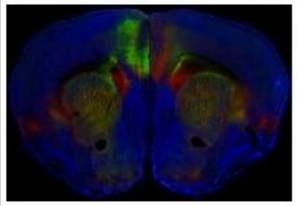
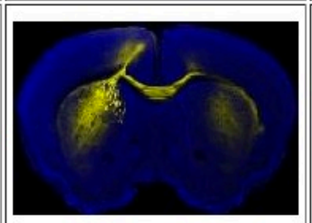
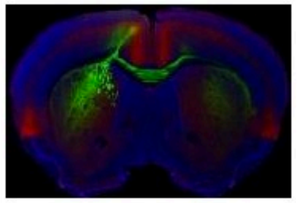
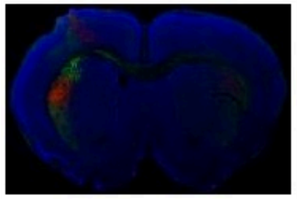
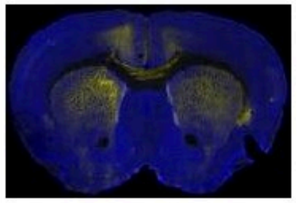
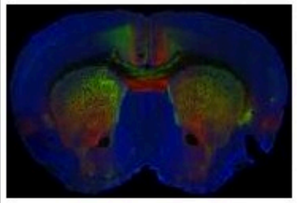
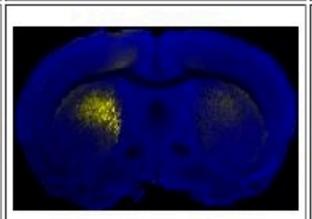
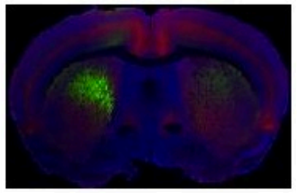
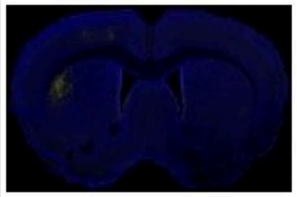
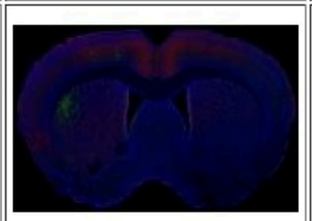
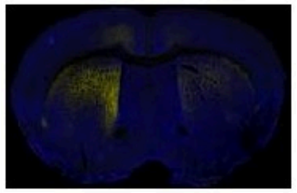
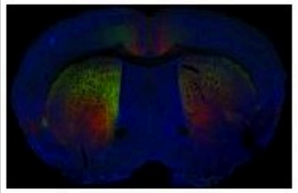
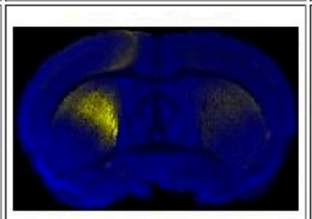
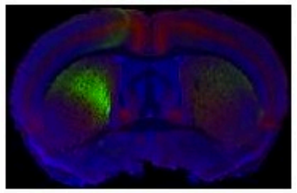
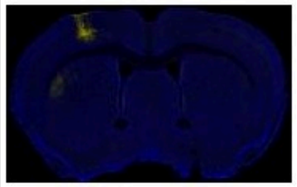
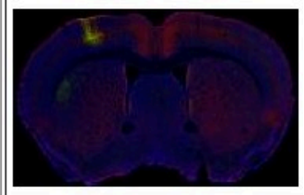
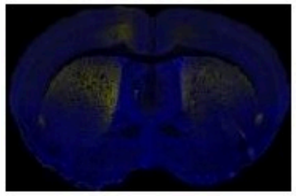
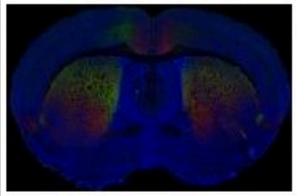
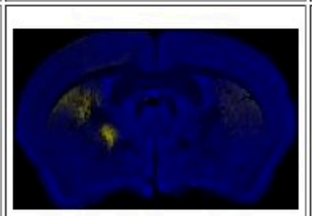
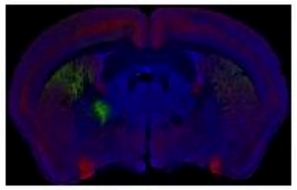
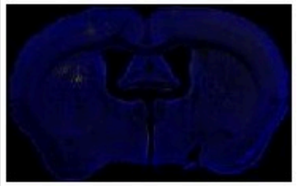
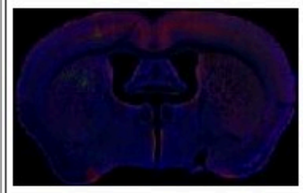
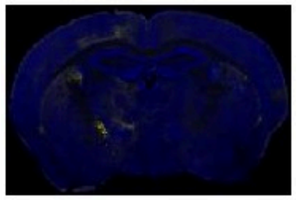
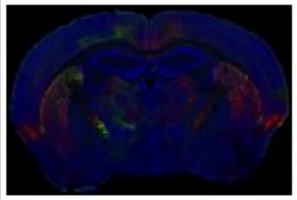
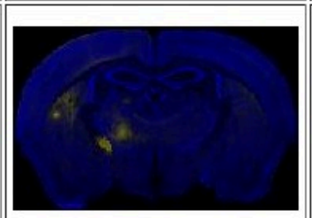
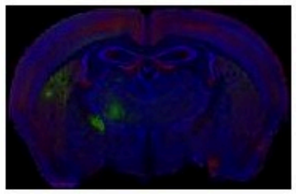
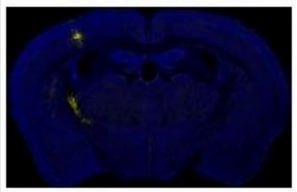
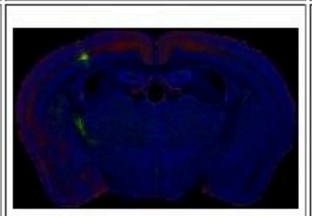
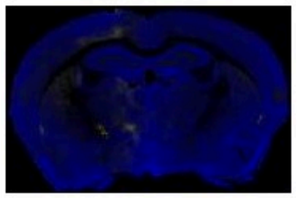
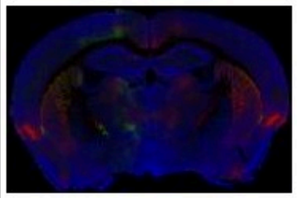
Only two or four slides are allowed to be compared at any given time.

Compare Selected Slides

Clear all Selections

Level	10T_KL100_272_02	10T_KL100_272_03	10T_KL100_677_03	10T_KL100_678_02	10T_KL100_678_03	13T_NF107_576_02	13T_NF107_576_03
c11 - c15			no image available				
c16 - c20			missing images will be filled in				
c21 - c25				no image available	no image available		
c26 - c30			no image available				
c31 - c35			no image available				
c36 - c40			no image available				
c41 - c45			no image available				

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Compare Slides

Various slides can be compared (at different magnifications, etc) by clicking in the checkbox to select the slide and pressing the "Compare Slides" button.

Only two or four slides are allowed to be compared at any given time.

Compare Selected Slides

Clear all Selections

select sections to compare injection sites in secondary motor (KL100) and prelimbic (NF107)

Level	10T_KL100_272_02	10T_KL100_272_03	10T_KL100_677_03	10T_KL100_678_02	10T_KL100_678_03	13T_NF107_576_02	13T_NF107_576_03
c11 - c15	☑	☐	no image available	☐	☐	☑	☐
c16 - c20	☑	☐	no image available	☐	☐	☑	☐
c21 - c25	☐	☐	☐	no image available	no image available	☐	☐
c26 - c30	☐	☐	no image available	☐	☐	☐	☐
c31 - c35	☐	☐	no image available	☐	☐	☐	☐
c36 - c40	☐	☐	no image available	☐	☐	☐	☐
c41 - c45	☐	☐	no image available	☐	☐	☐	☐

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Grouping of Slides

Use the group slide button to link the slides.

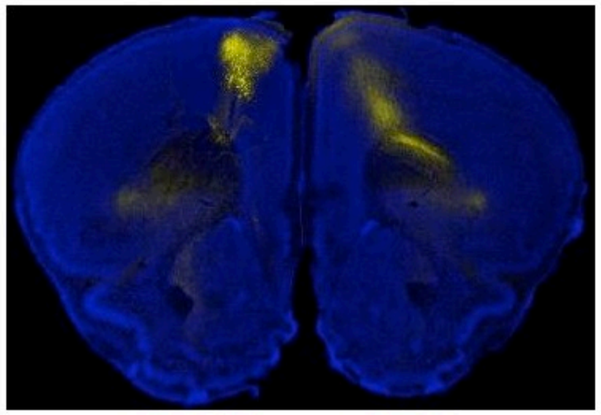
Make sure that all linked slides have the same magnification.

Ungroup Slides

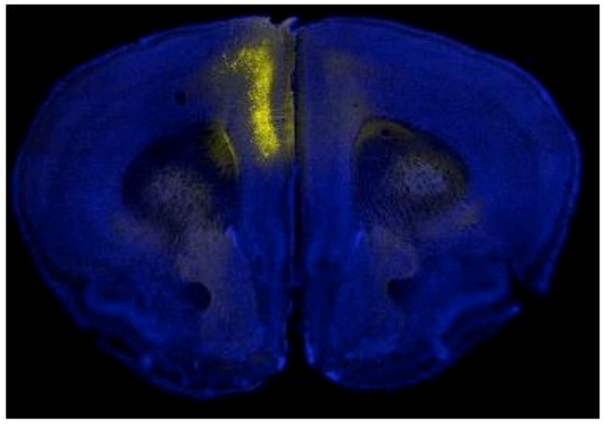
injection sites for the two cases are shown and projections bilaterally to the striatum indicating there is labeling of IT corticostriatal neurons

there is also labeling of PT corticotriatal neurons

0.62x



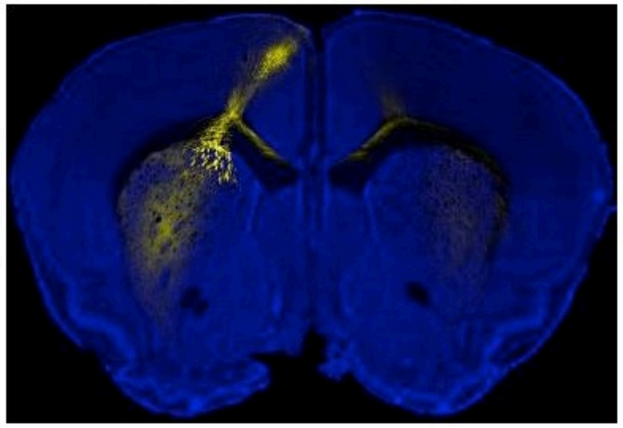
0.62x



tr_KL100_2272_10g_04_A_prefrontal_02.pff Take a snapshot

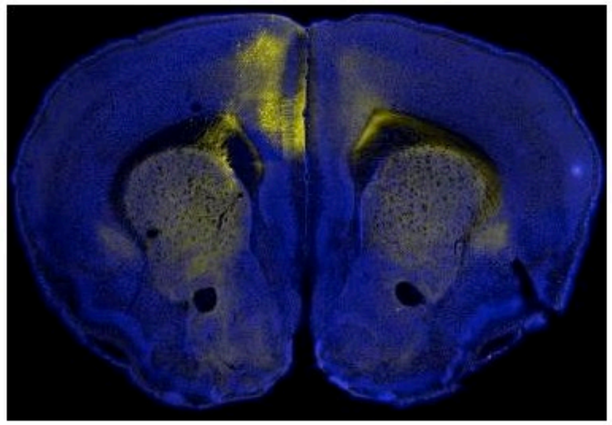
tr_NF107_576_10d_01_A_prefrontal_02.pff Take a snapshot

0.62x



tr_KL100_2272_20b_02_B_accumbens_02.pff Take a snapshot

0.62x



tr_NF107_576_20d_03_Bb_accumbens_02.pff Take a snapshot

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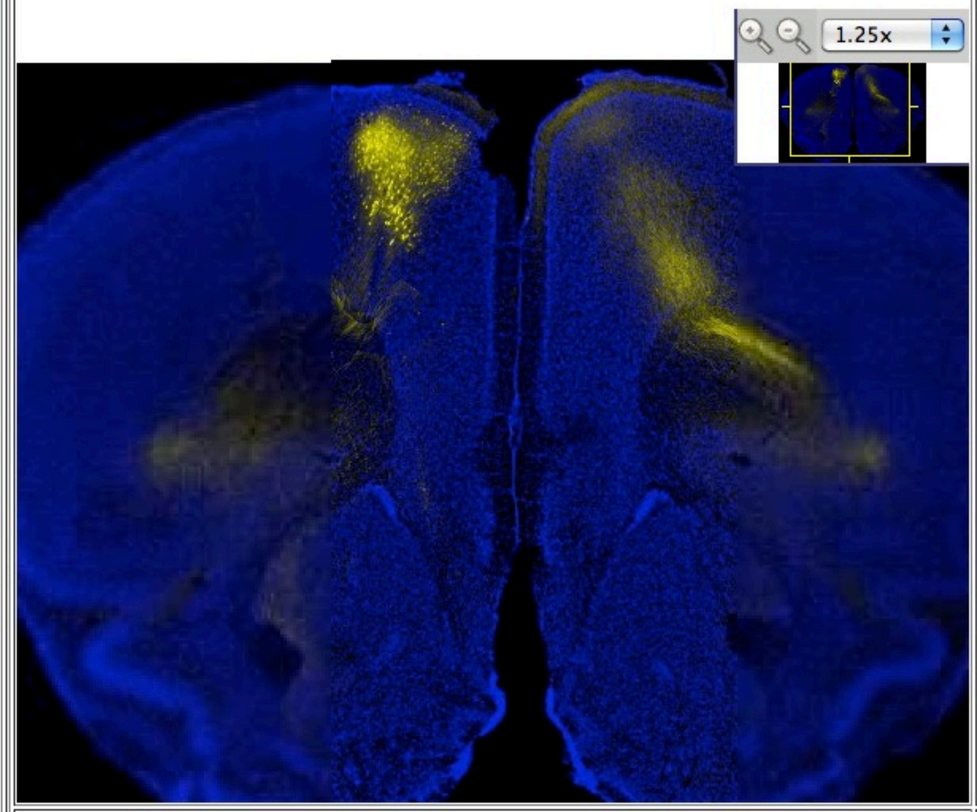
Grouping of Slides

Use the group slide button to link the slides.

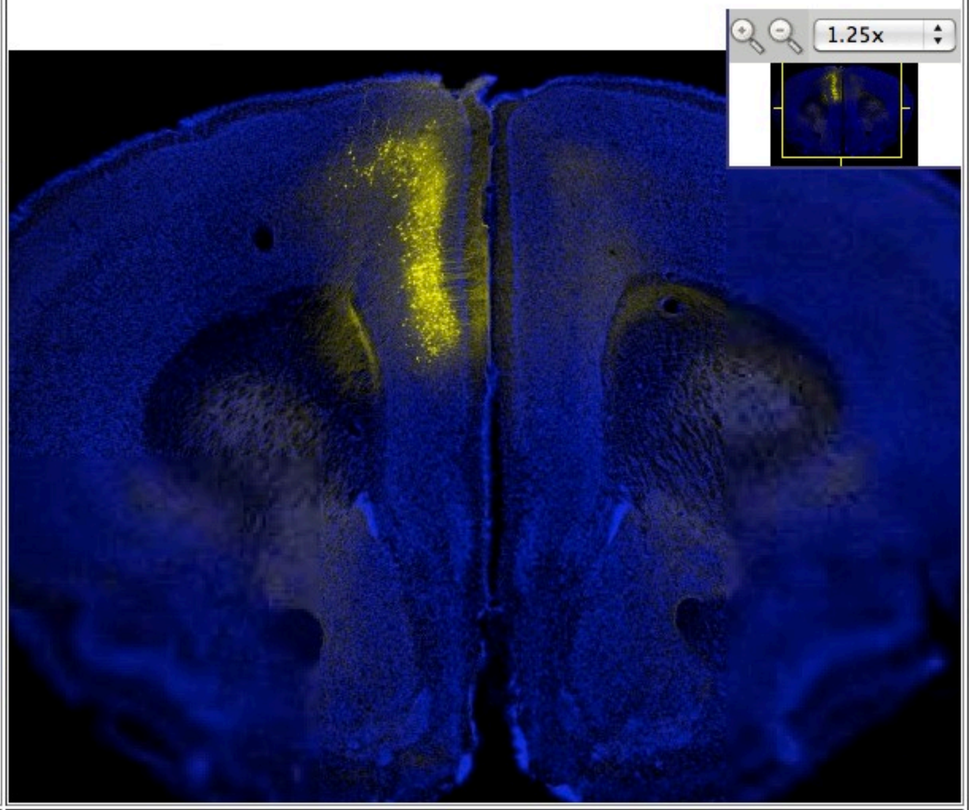
Make sure that all linked slides have the same magnification.

Ungroup Slides

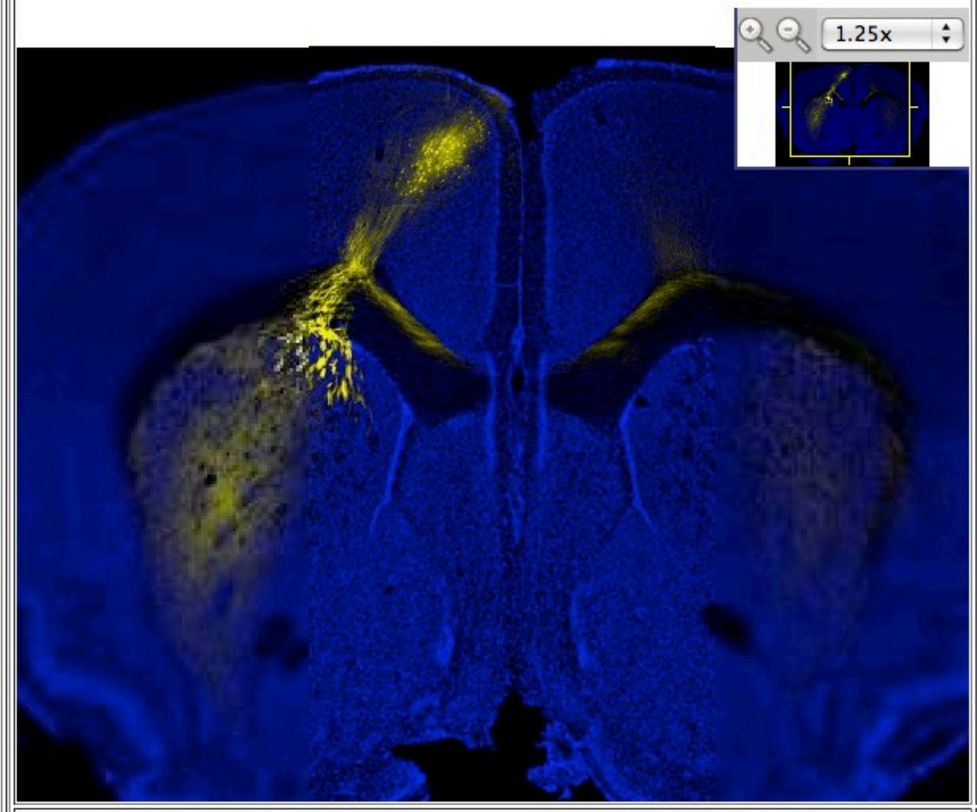
higher magnification of injection sites and projections to striatum



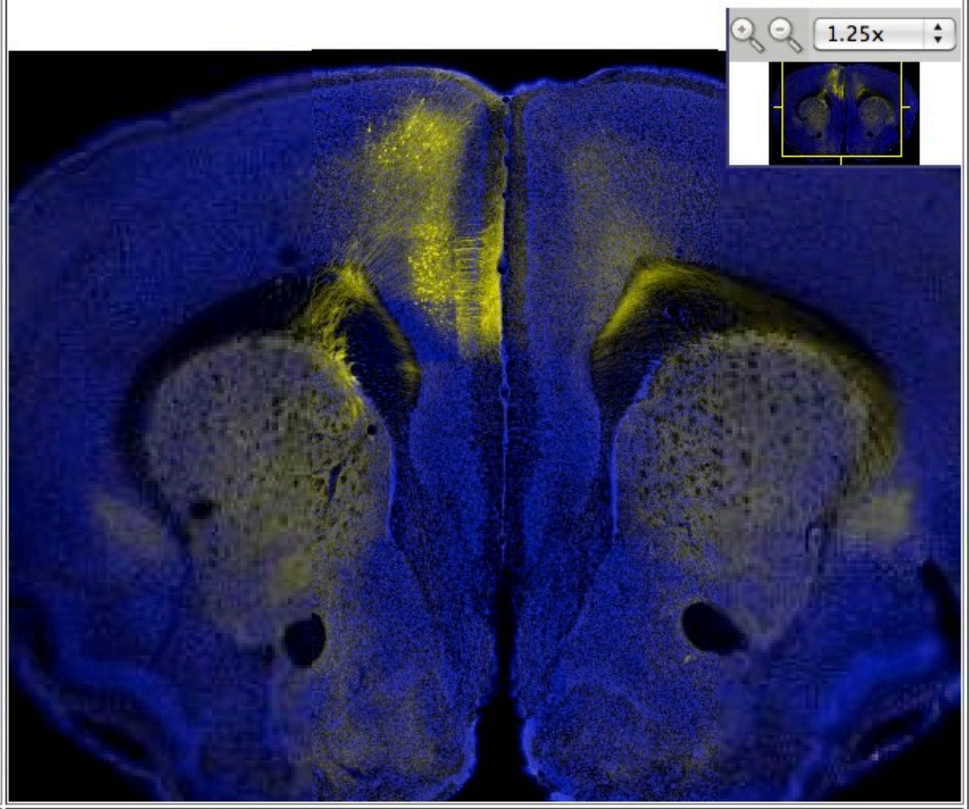
tr_KL100_2272_10g_04_A_prefrontal_02.pff Take a snapshot



tr_NF107_576_10d_01_A_prefrontal_02.pff Take a snapshot



tr_KL100_2272_20b_02_B_accumbens_02.pff Take a snapshot



tr_NF107_576_20d_03_Bb_accumbens_02.pff Take a snapshot

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Grouping of Slides

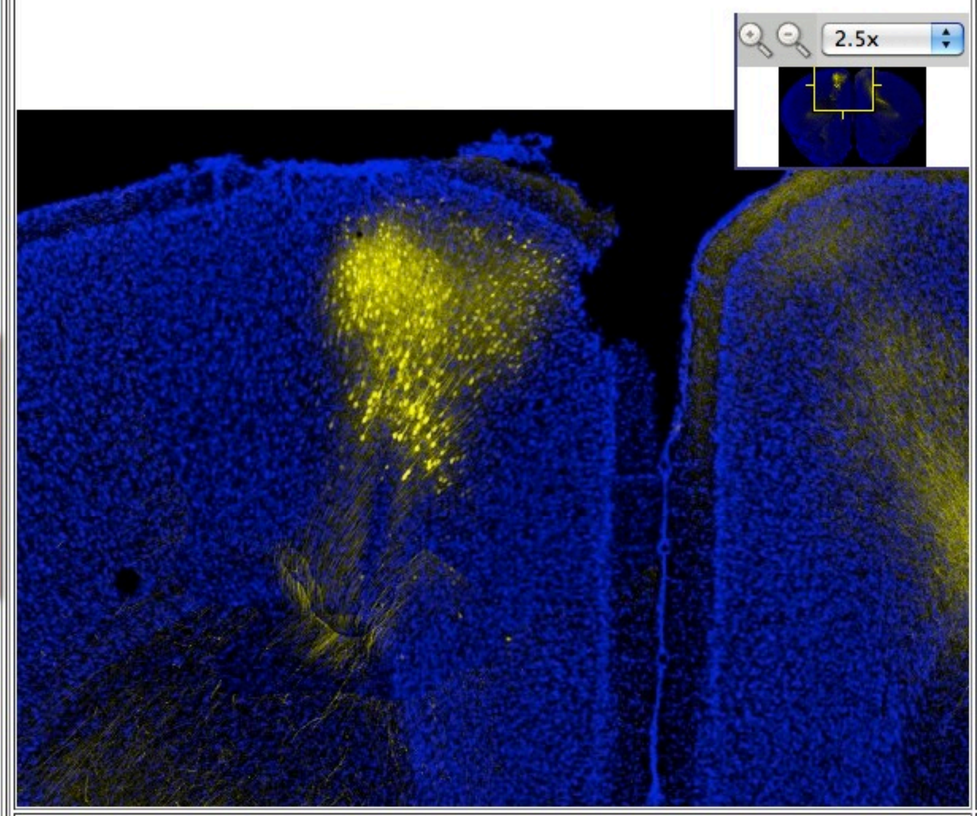
Use the group slide button to link the slides.

Make sure that all linked slides have the same magnification.

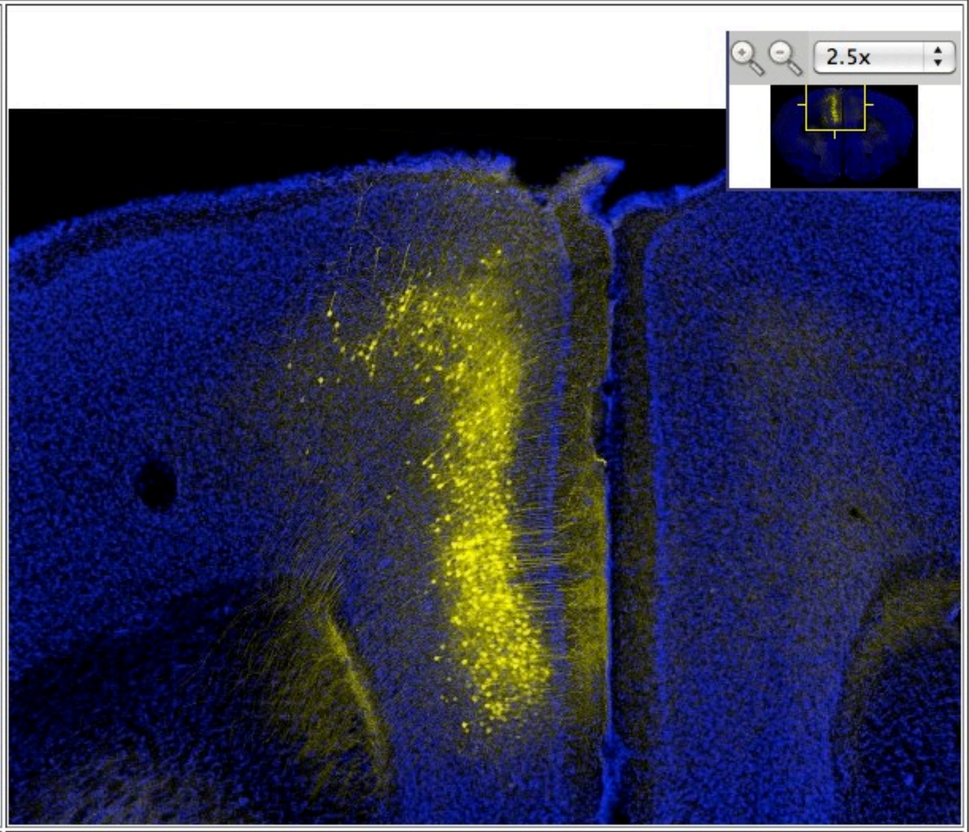
Ungroup Slides

and higher magnification

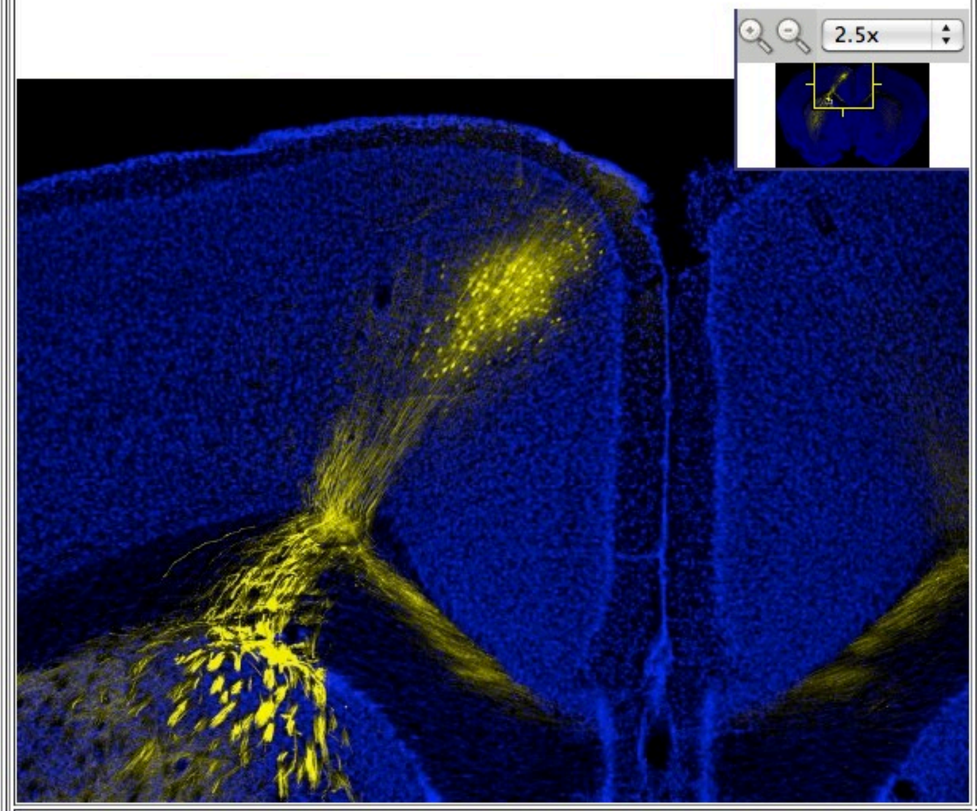
when the slides are grouped they move together and magnifications are changed together



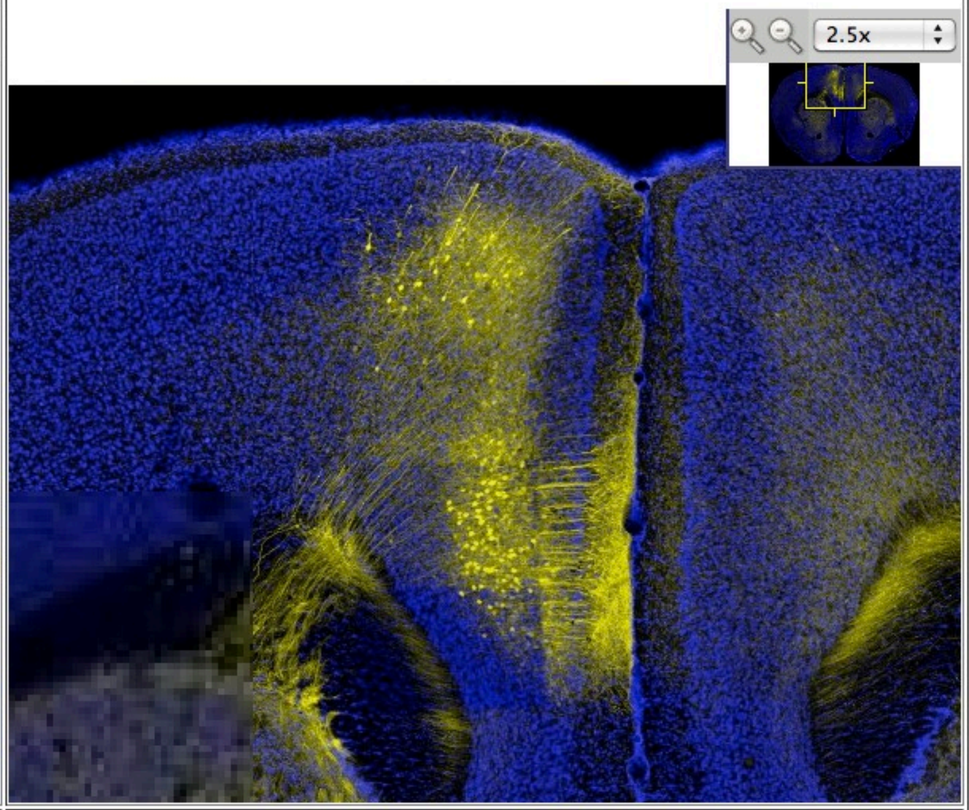
tr_KL100_2272_10g_04_A_prefrontal_02.pff Take a snapshot



tr_NF107_576_10d_01_A_prefrontal_02.pff Take a snapshot



tr_KL100_2272_20b_02_B_accumbens_02.pff Take a snapshot



tr_NF107_576_20d_03_Bb_accumbens_02.pff Take a snapshot

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Compare Slides

Various slides can be compared (at different magnifications, etc) by clicking in the checkbox to select the slide and pressing the "Compare Slides" button.

Only two or four slides are allowed to be compared at any given time.

Compare Selected Slides

Clear all Selections

Level	10T_KL100_272_02	10T_KL100_272_03	10T_KL100_677_03	10T_KL100_678_02	10T_KL100_678_03	13T_NF107_576_02	13T_NF107_576_03
c11 - c15			no image available				
c16 - c20			no image available				
c21 - c25					no image available		
c26 - c30			no image available				
c31 - c35			no image available				
c36 - c40			no image available				
c41 - c45			no image available				

clear all selections then select thumbnails from the 03 series

and the select: compare selected slides

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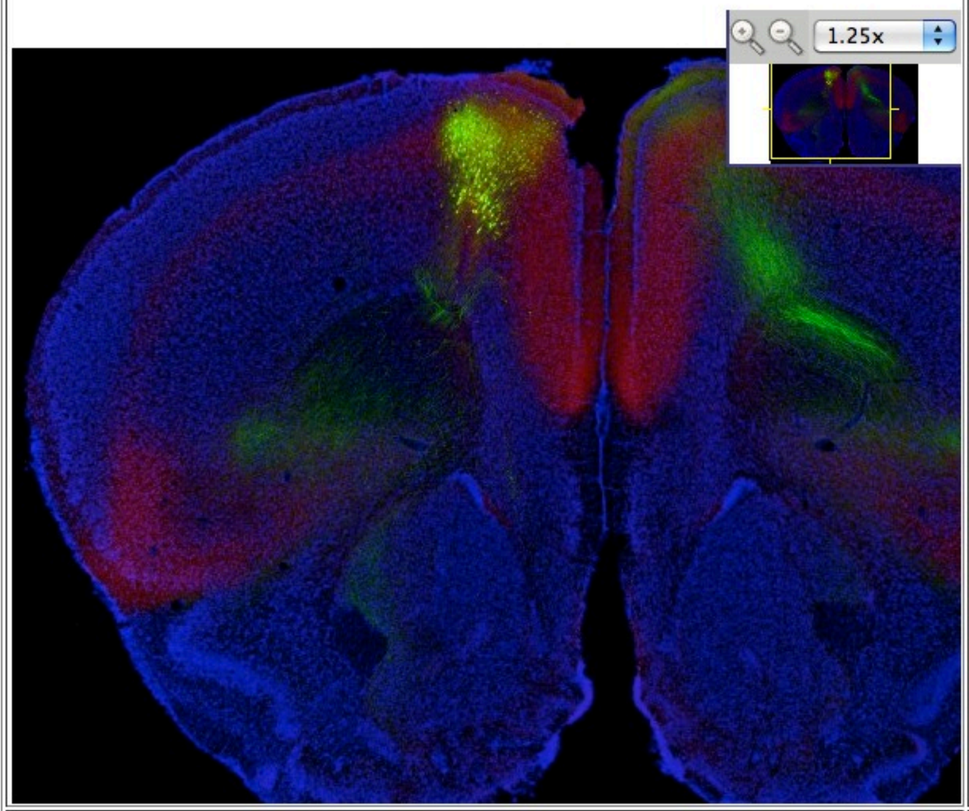
Grouping of Slides

Use the group slide button to link the slides.

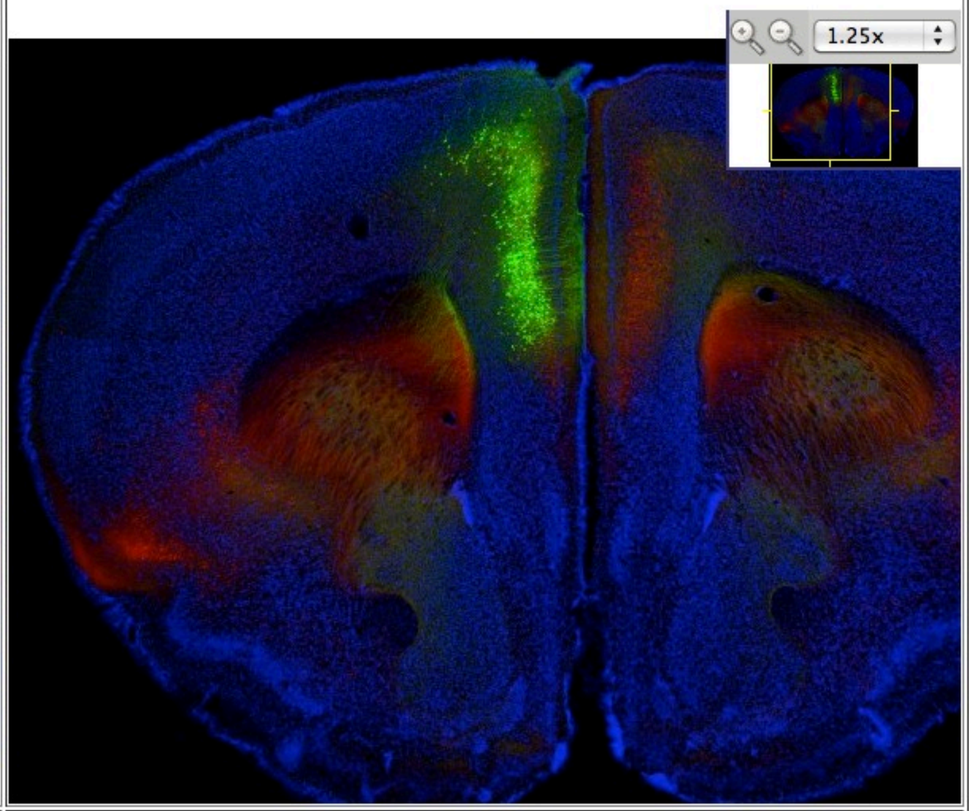
Make sure that all linked slides have the same magnification.

Ungroup Slides

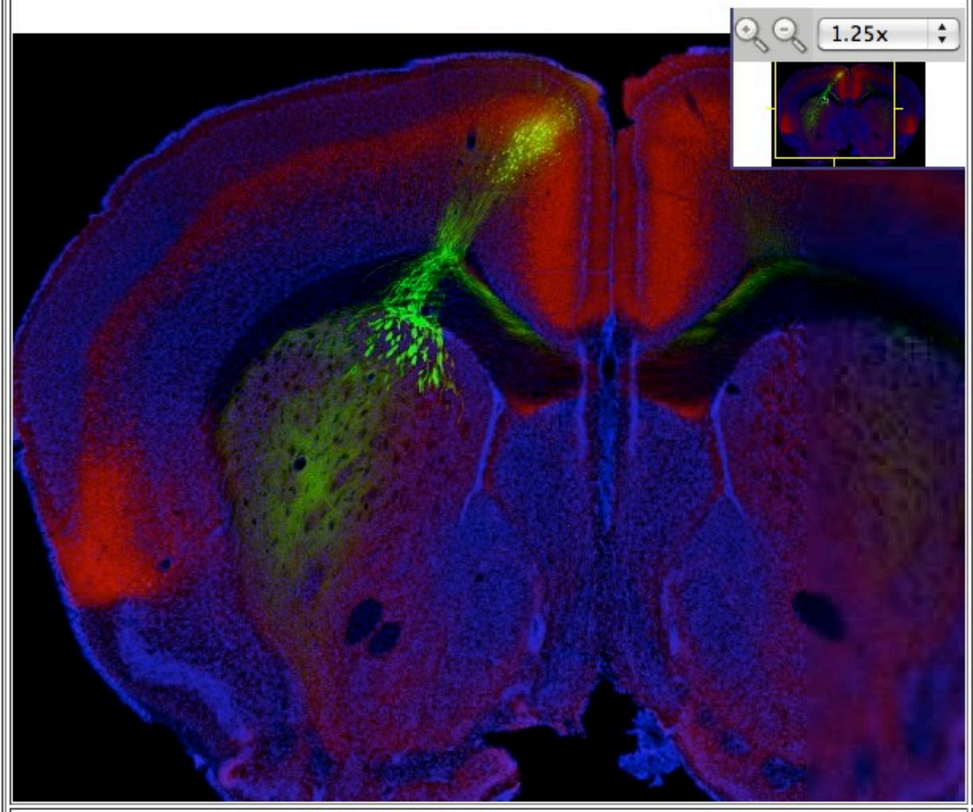
this shows the selected images with injection sites and Cre labeling



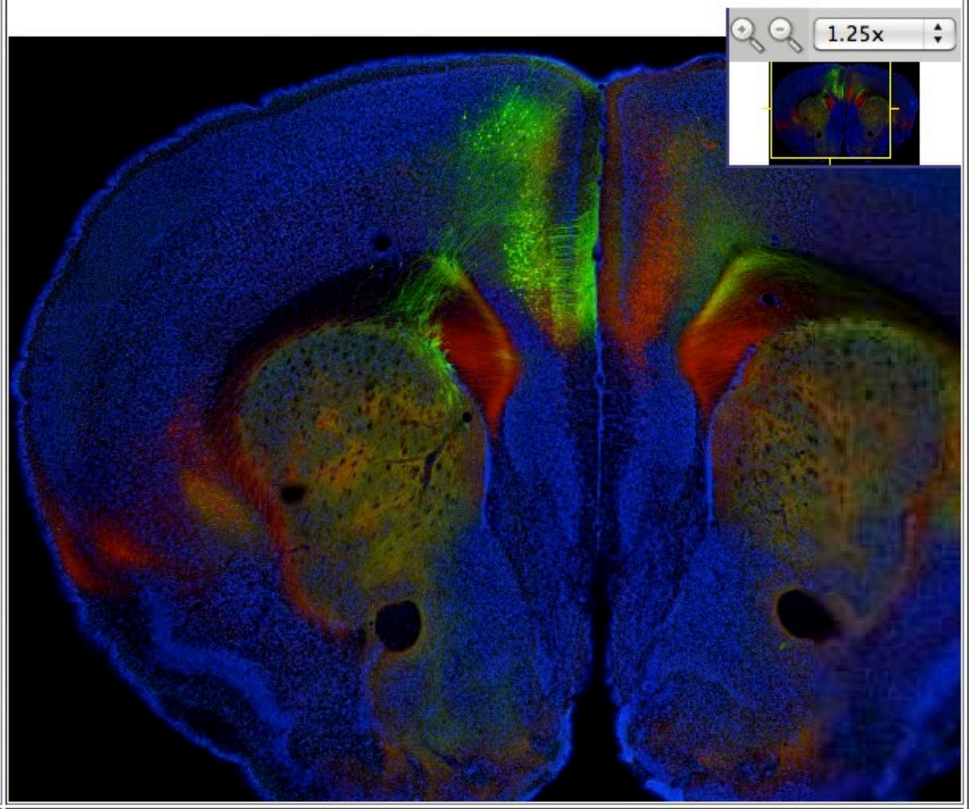
tr_KL100_2272_10g_04_A_prefrontal_03.pff Take a snapshot



tr_NF107_576_10d_01_A_prefrontal_03.pff Take a snapshot



tr_KL100_2272_20b_02_B_accumbens_03.pff Take a snapshot



tr_NF107_576_20d_03_Bb_accumbens_03.pff Take a snapshot

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Grouping of Slides

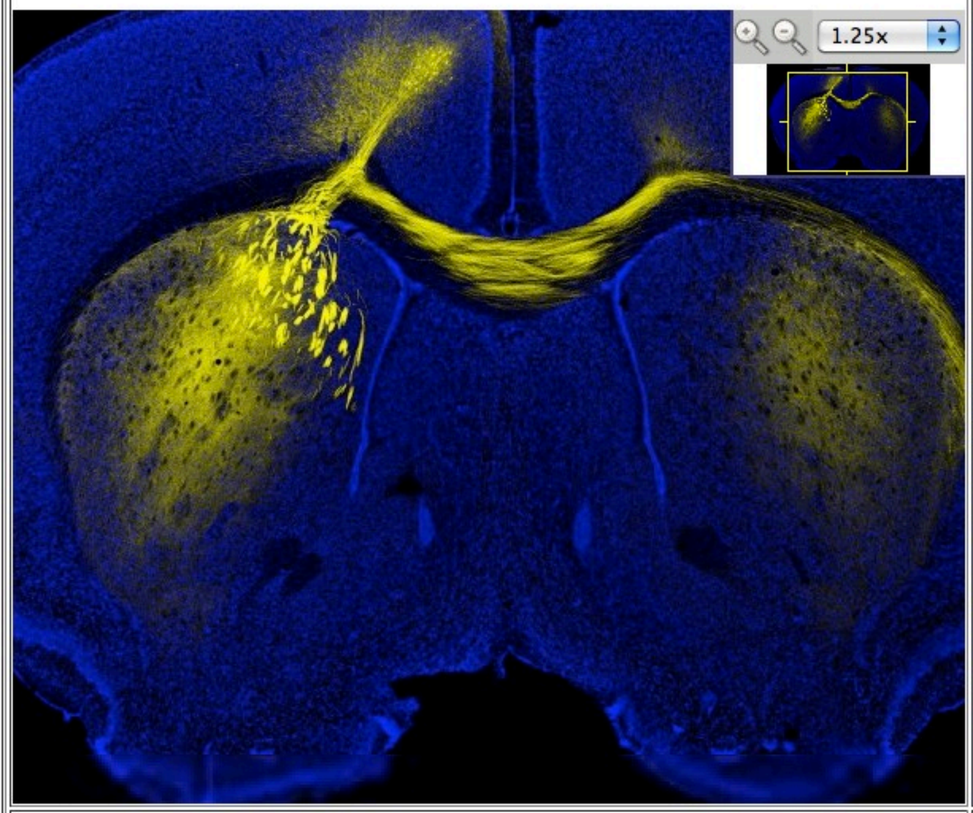
Use the group slide button to link the slides.

Make sure that all linked slides have the same magnification.

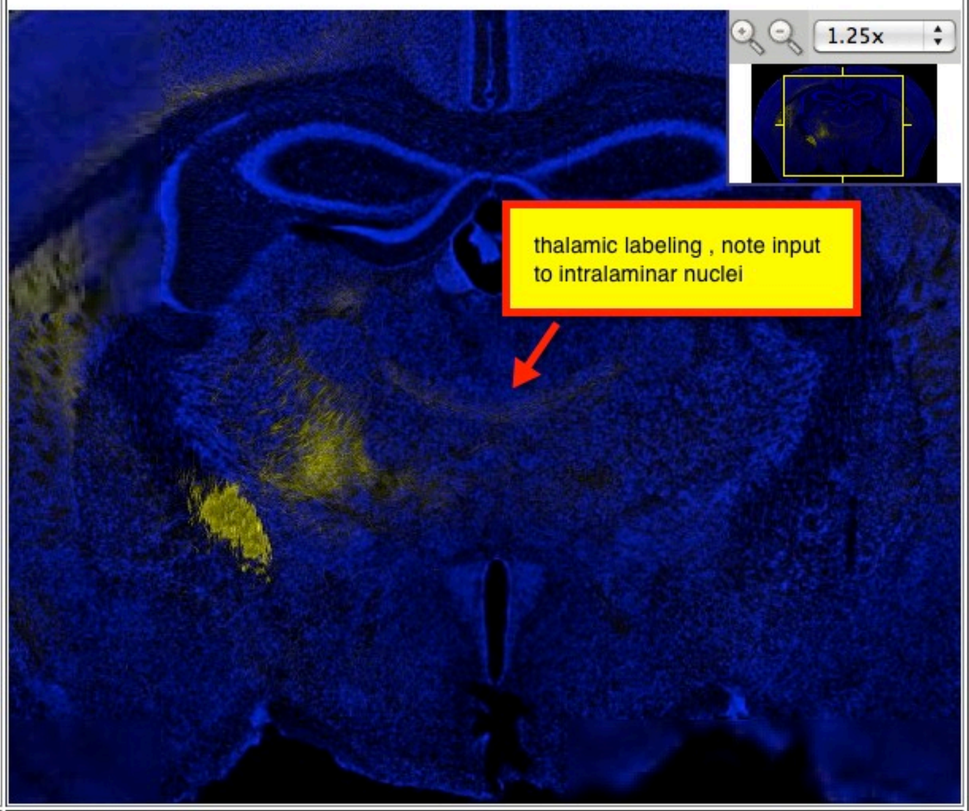
Ungroup Slides

from Rbp4_KL100 injection into secondary motor area showing bilateral projection to striatum (indicating IT)

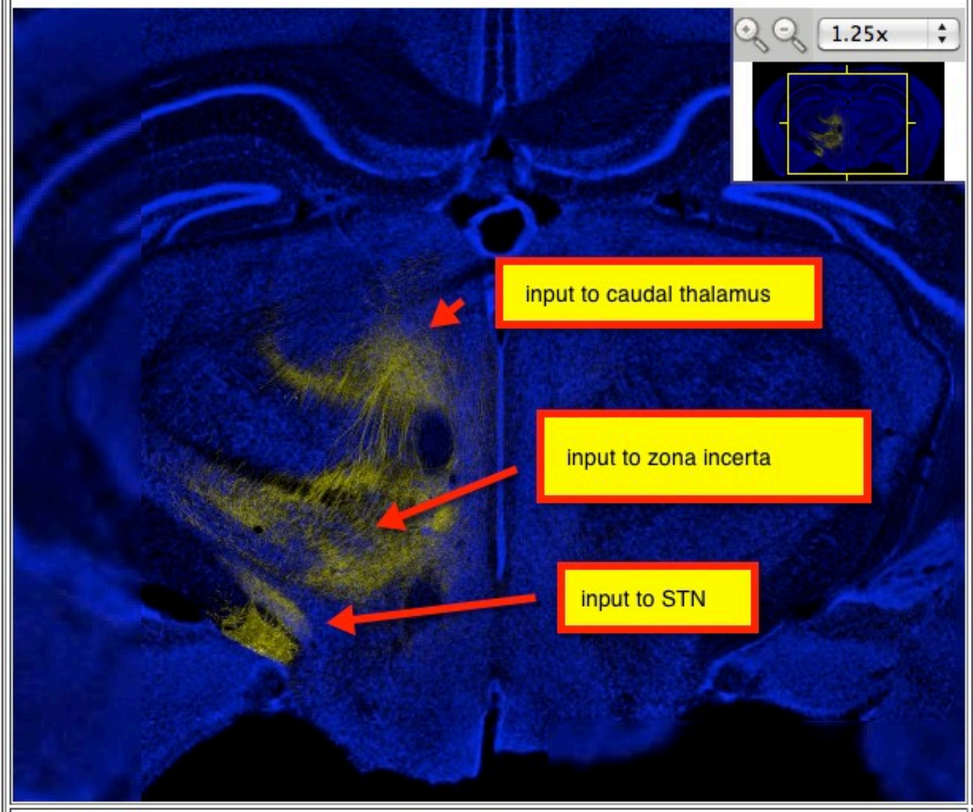
and to areas indicating that corticothalamic and PT corticostriatal neurons are labeled



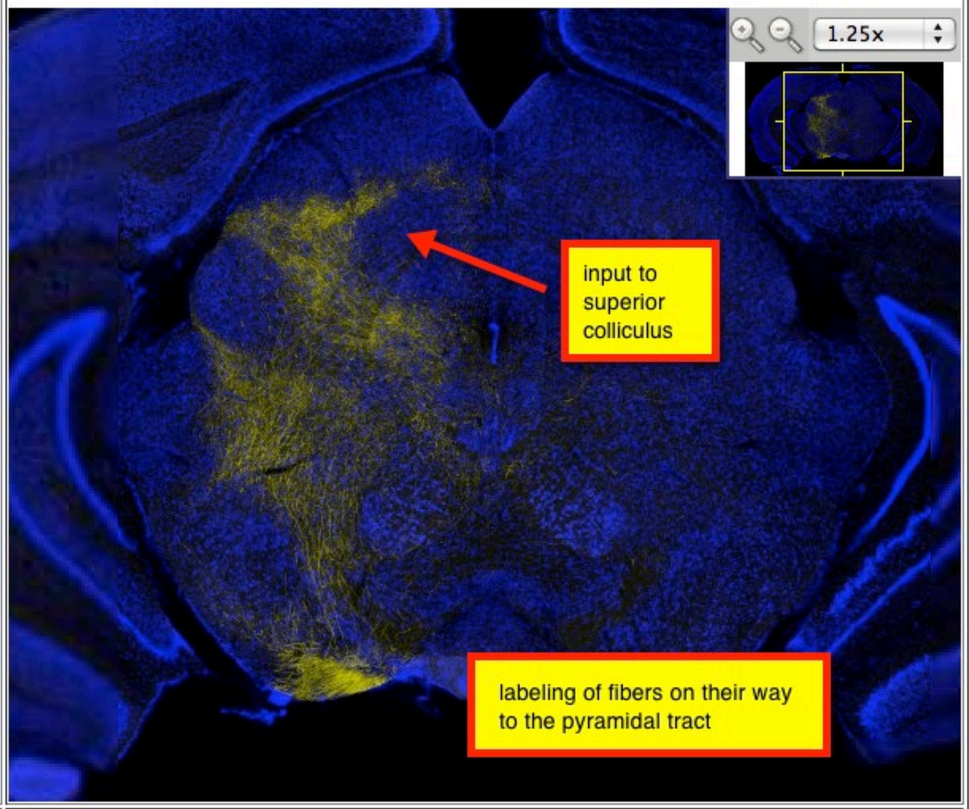
tr_KL100_2272_20c_01_B_accumbens_02.pff Take a snapshot



tr_KL100_2272_40e_04_D_GPe_02.pff Take a snapshot



tr_KL100_2272_50f_02_F_STN_02.pff Take a snapshot



tr_KL100_2272_60e_01_G_SN_02.pff Take a snapshot

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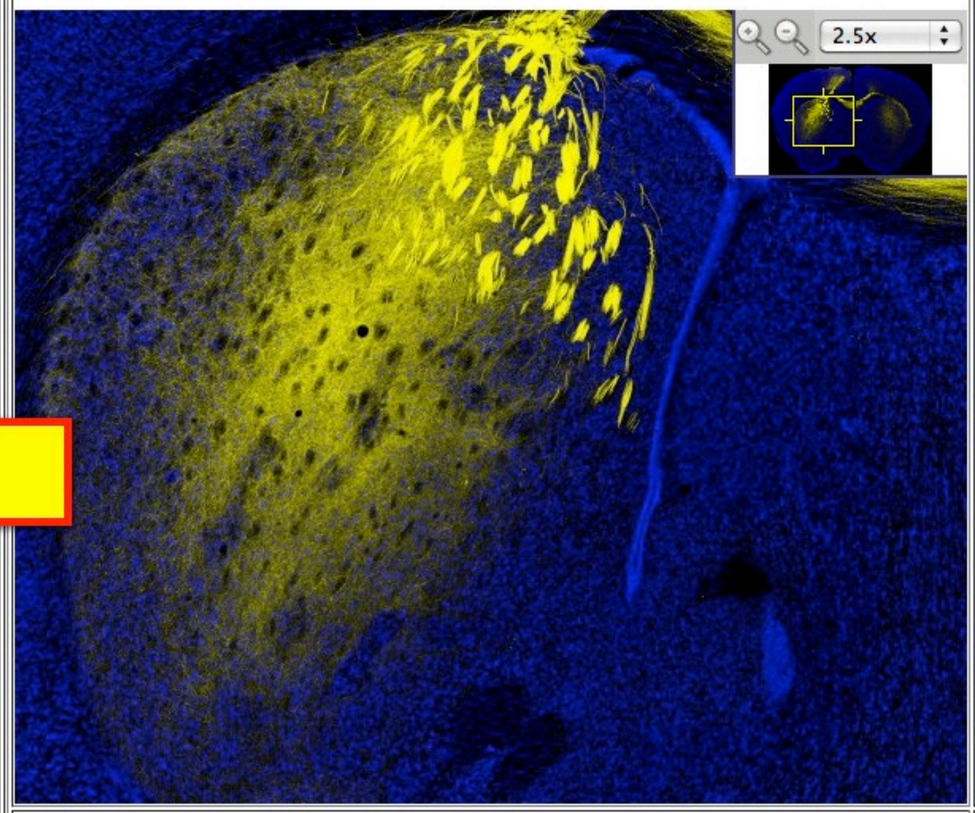
Grouping of Slides

Use the group slide button to link the slides.

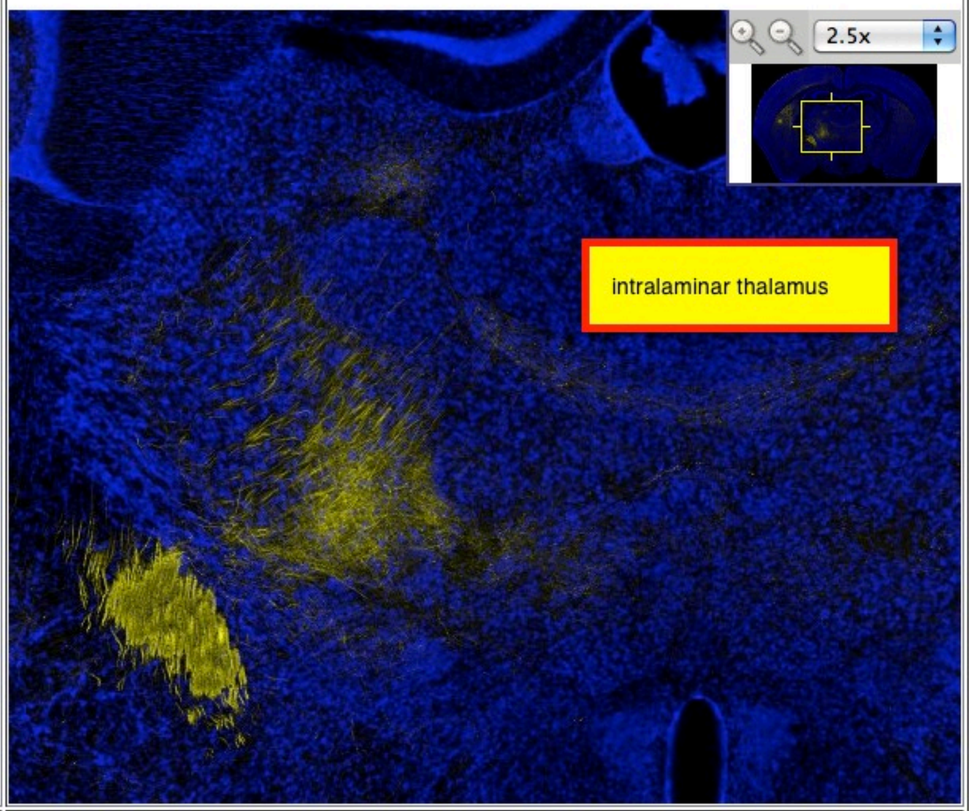
Make sure that all linked slides have the same magnification.

Group Slides

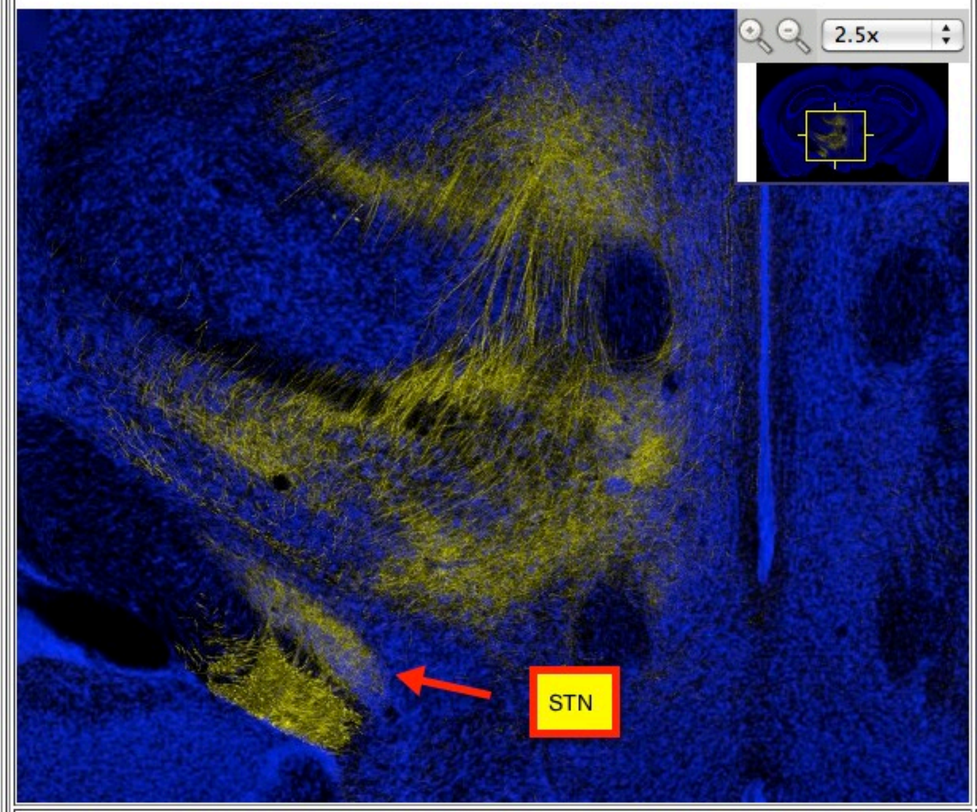
higher magnification of labeling



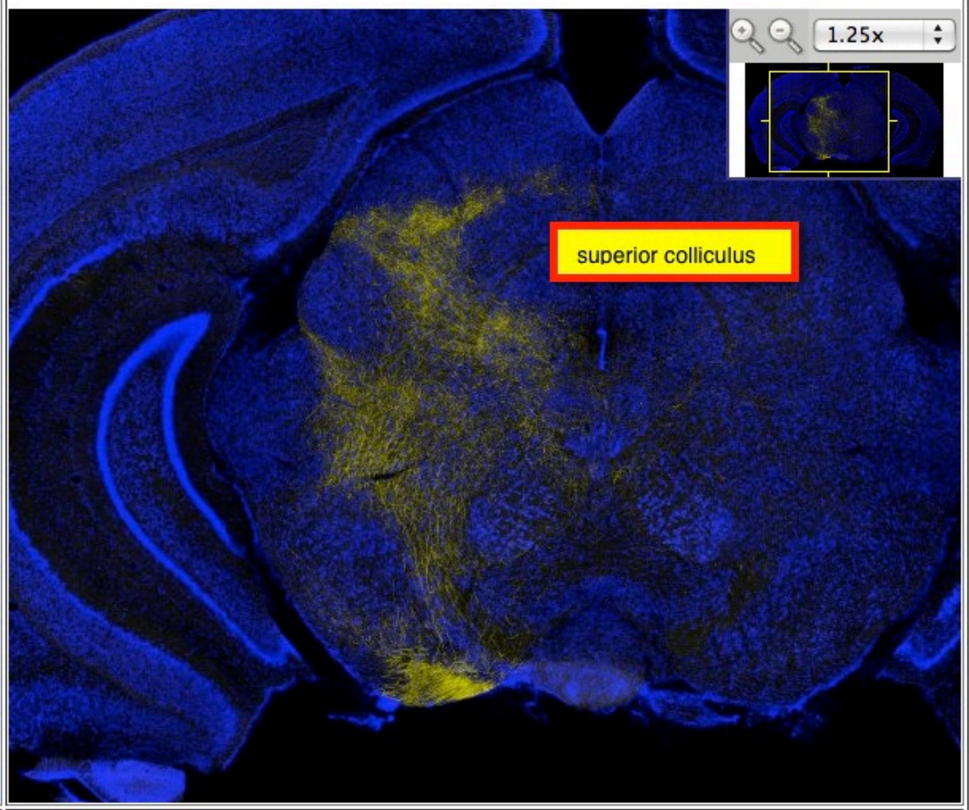
tr_KL100_2272_20c_01_B_accumbens_02.pff Take a snapshot



tr_KL100_2272_40e_04_D_GPe_02.pff Take a snapshot



tr_KL100_2272_50f_02_F_STN_02.pff Take a snapshot



tr_KL100_2272_60e_01_G_SN_02.pff Take a snapshot

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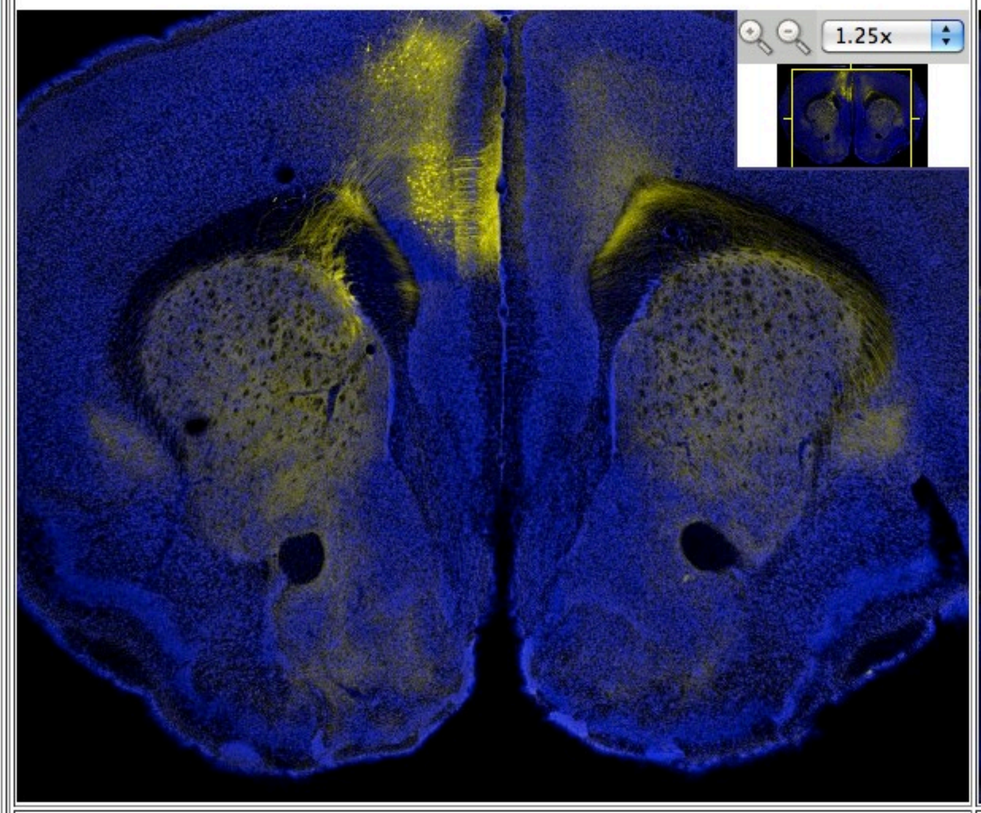
Grouping of Slides

Use the group slide button to link the slides.

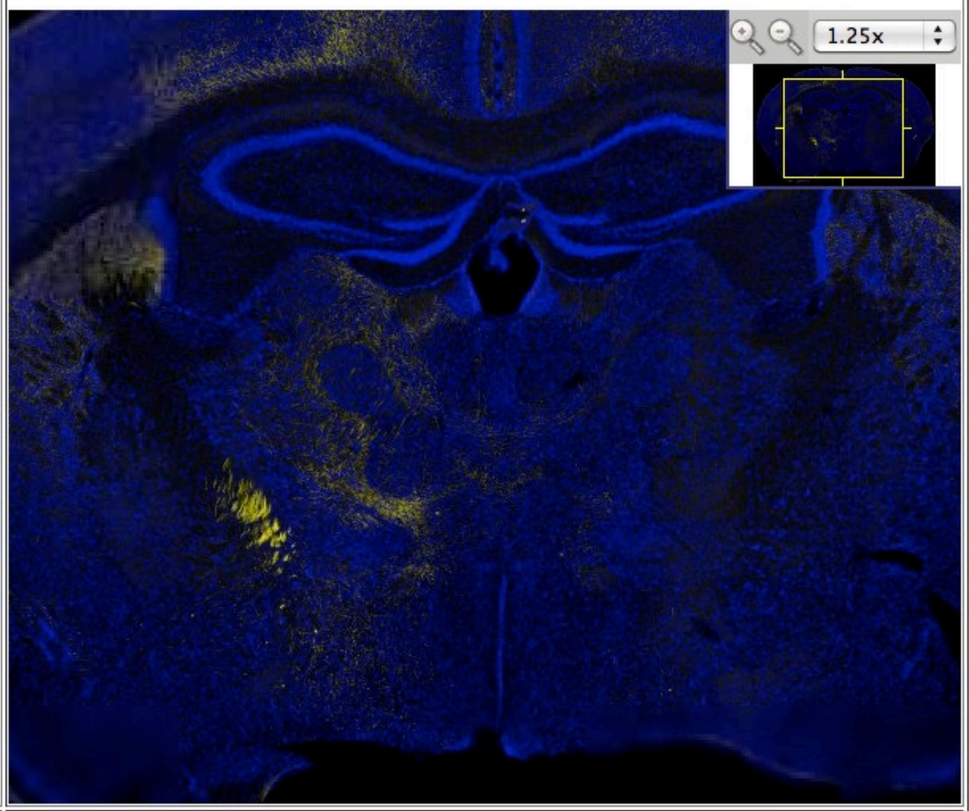
Make sure that all linked slides have the same magnification.

Ungroup Slides

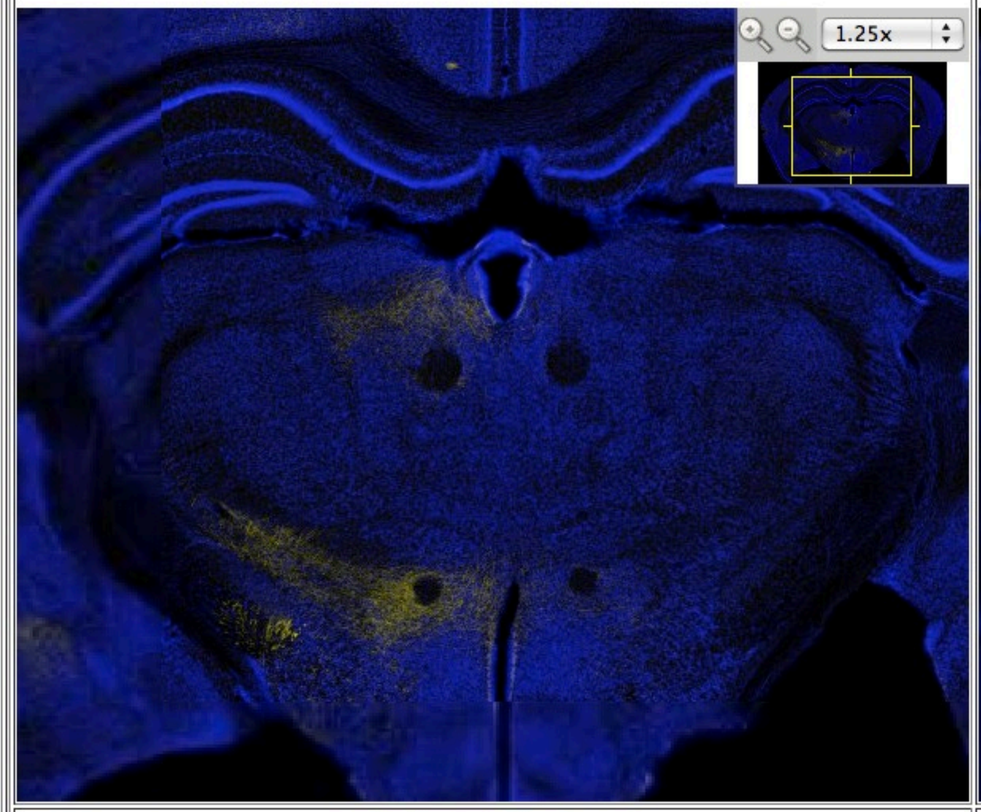
prelimbic injection case in NF107 (Glt25d2)



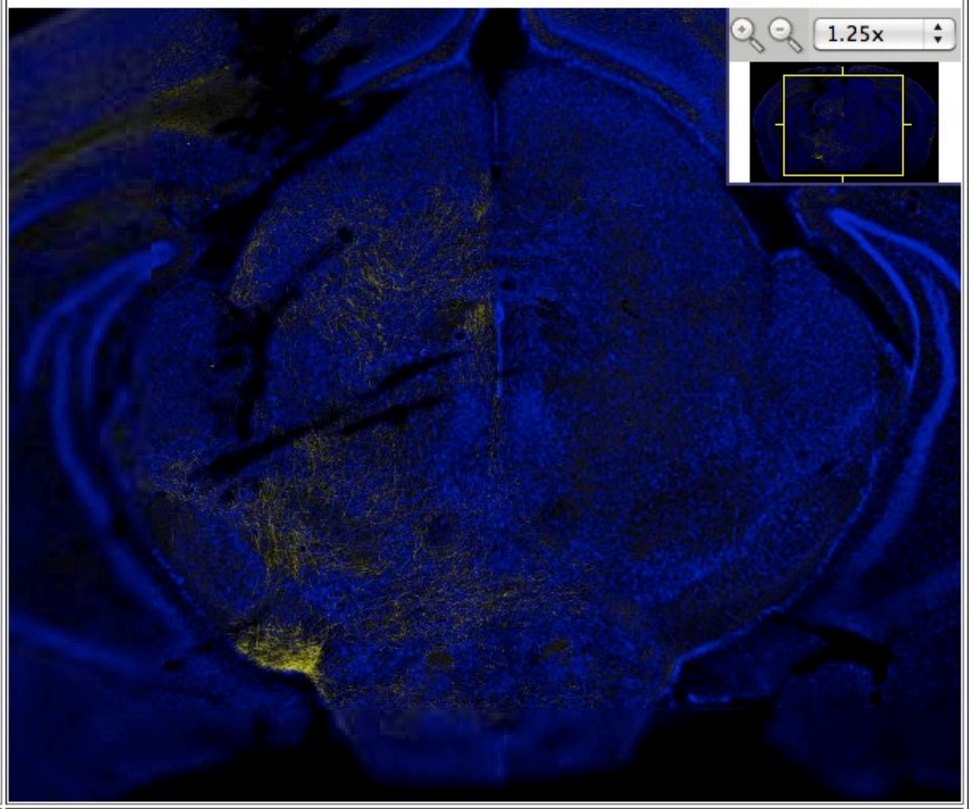
tr_NF107_576_20d_03_Bb_accumbens_02.pff Take a snapshot



tr_NF107_576_40c_01_C_GPe_02.pff Take a snapshot



tr_NF107_576_50e_03_E_midbrain_02.pff Take a snapshot



tr_NF107_576_60c_04_E_midbrain_02.pff Take a snapshot

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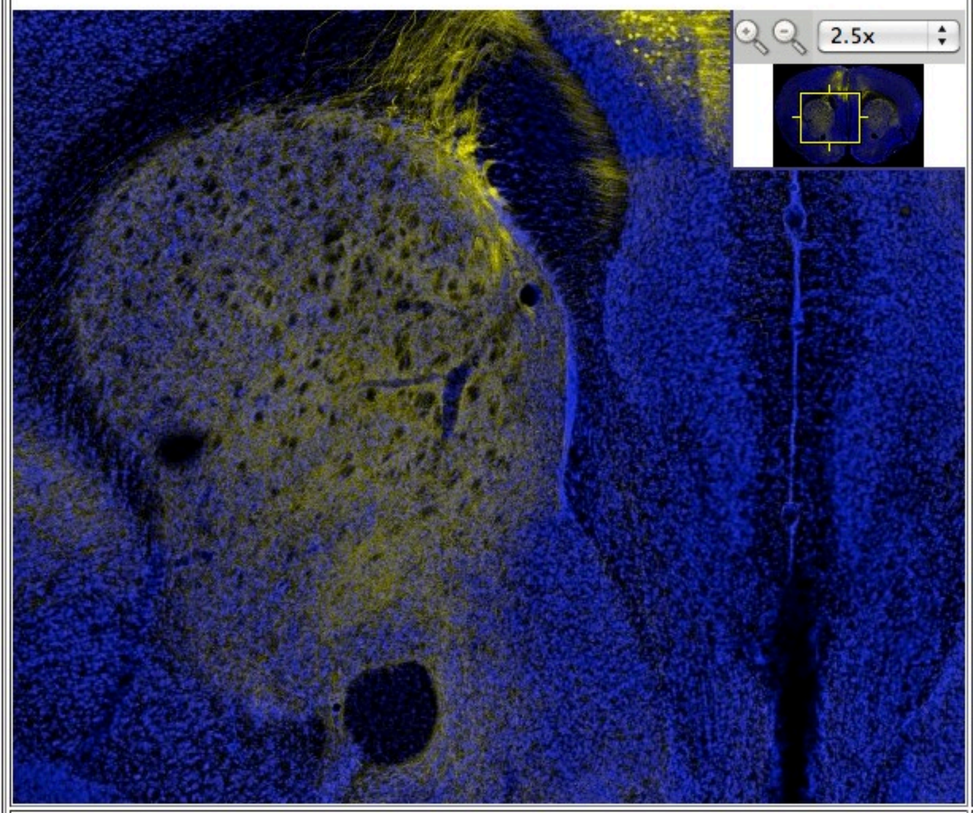
Grouping of Slides

Use the group slide button to link the slides.

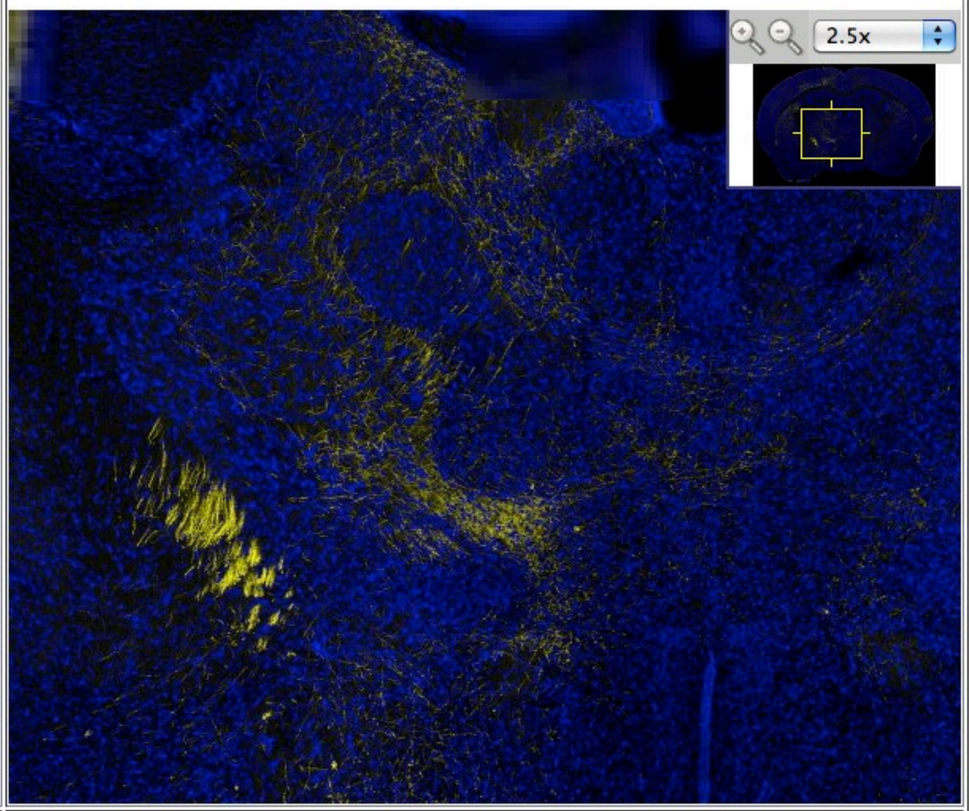
Make sure that all linked slides have the same magnification.

Group Slides

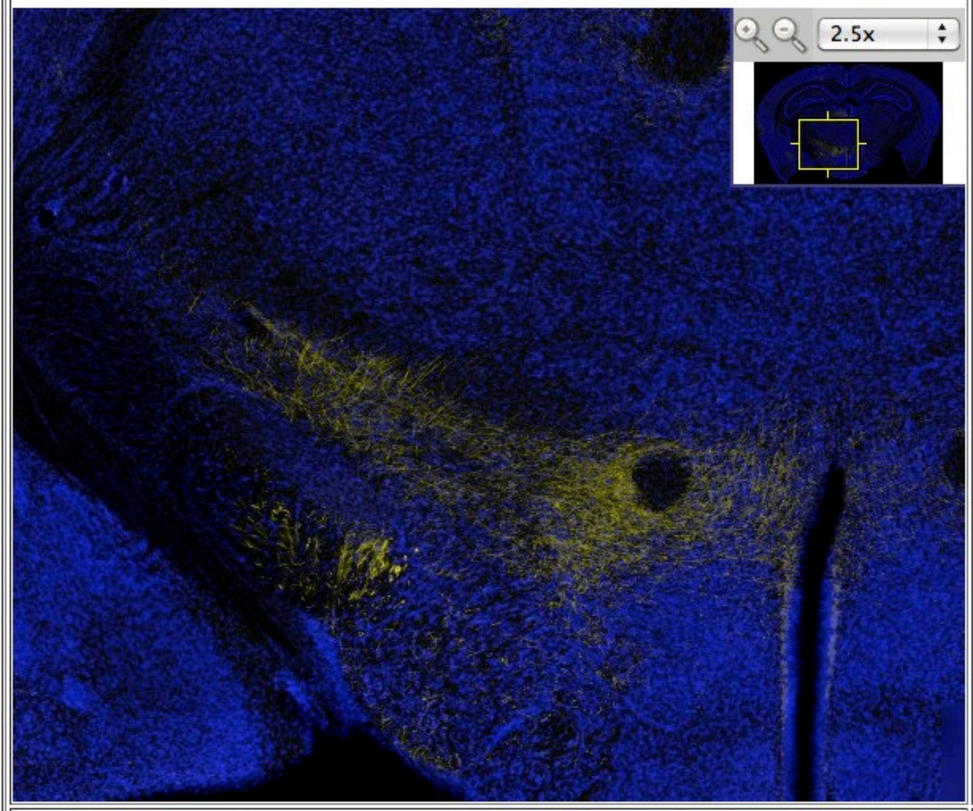
higher magnification



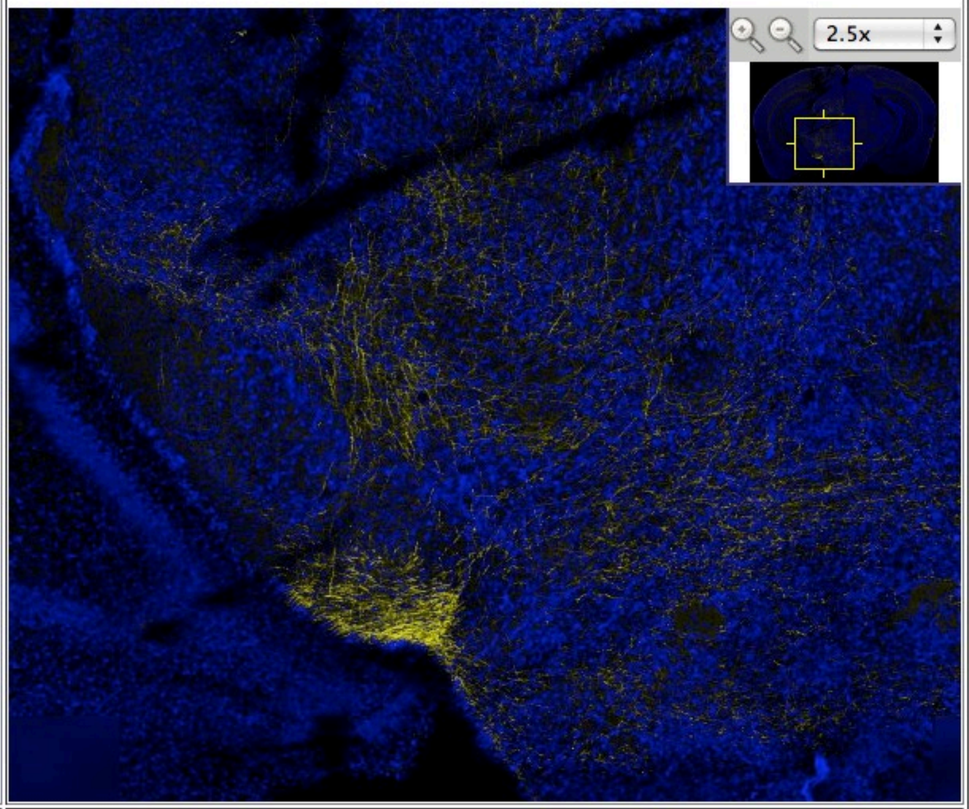
tr_NF107_576_20d_03_Bb_accumbens_02.pff Take a snapshot



tr_NF107_576_40c_01_C_GPe_02.pff Take a snapshot



tr_NF107_576_50e_03_E_midbrain_02.pff Take a snapshot



tr_NF107_576_60c_04_E_midbrain_02.pff Take a snapshot

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Grouping of Slides

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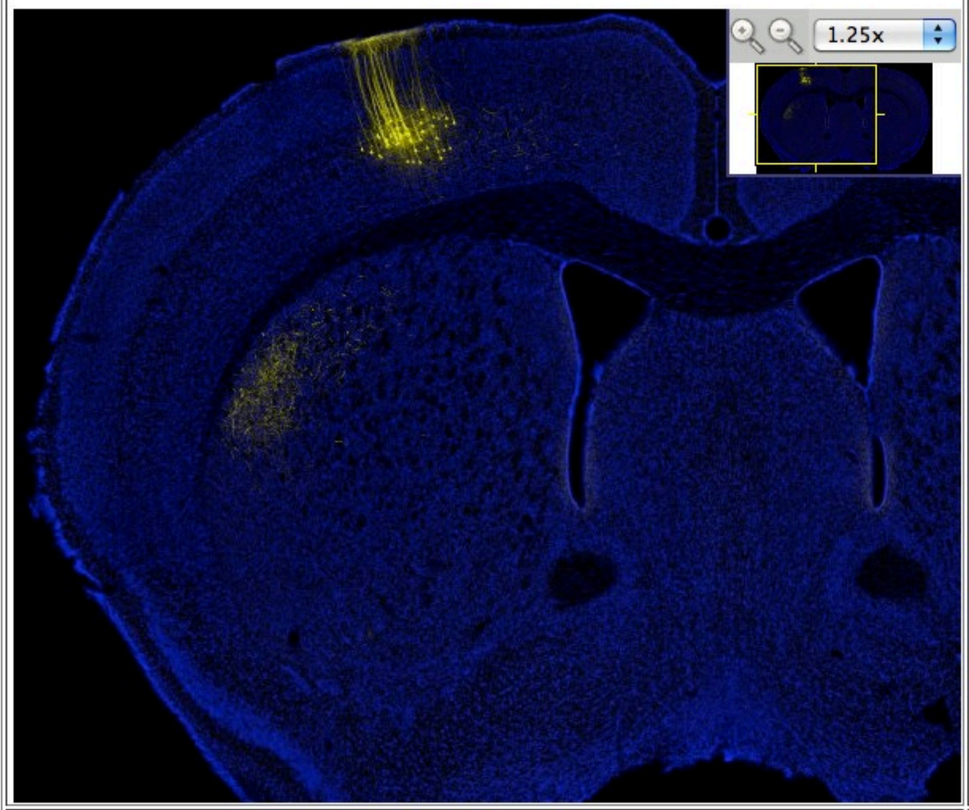
Group Slides

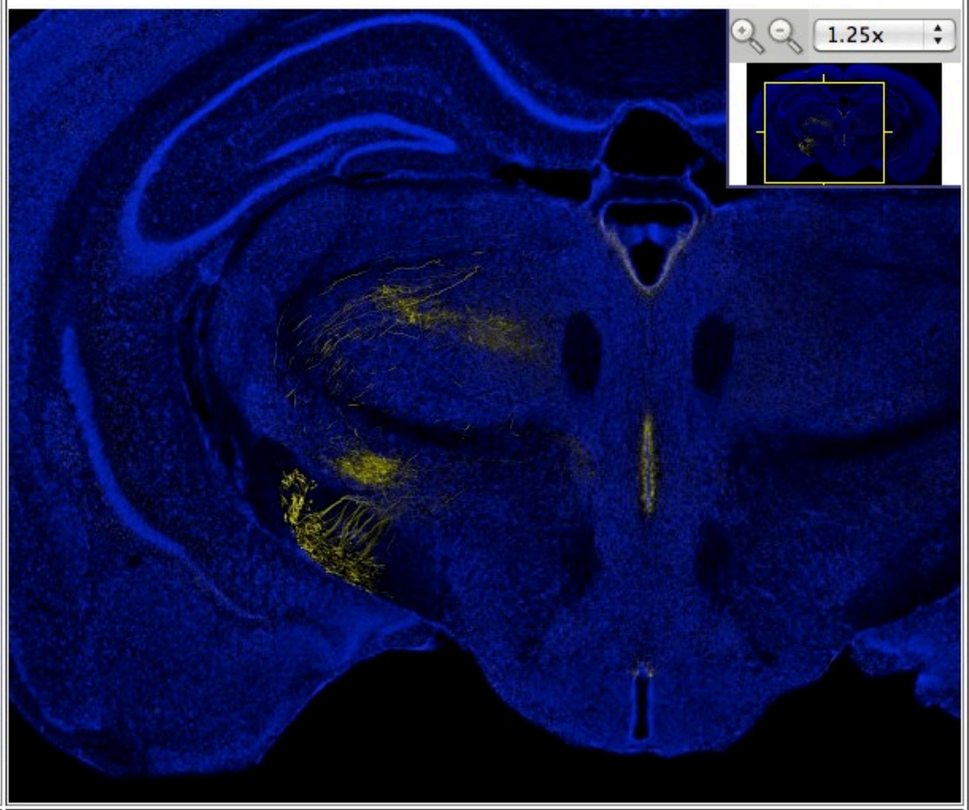
an injection into primary motor cortex in KL100,

same patterns of labeling,

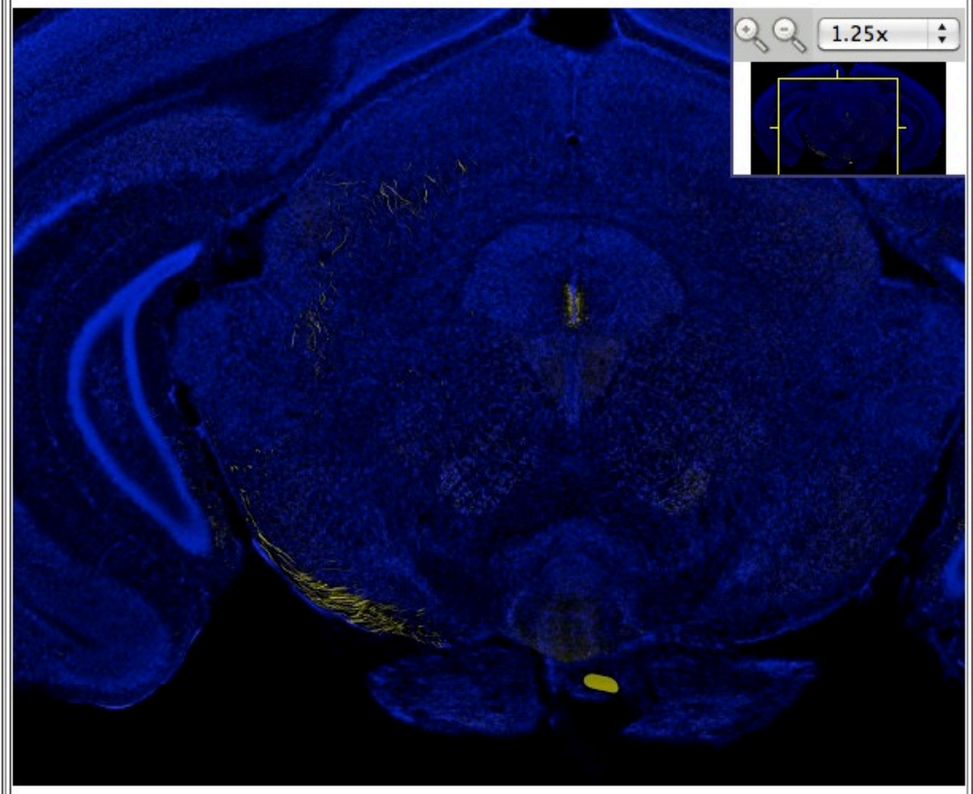
with labeling to pontine nuclei shown in lower right



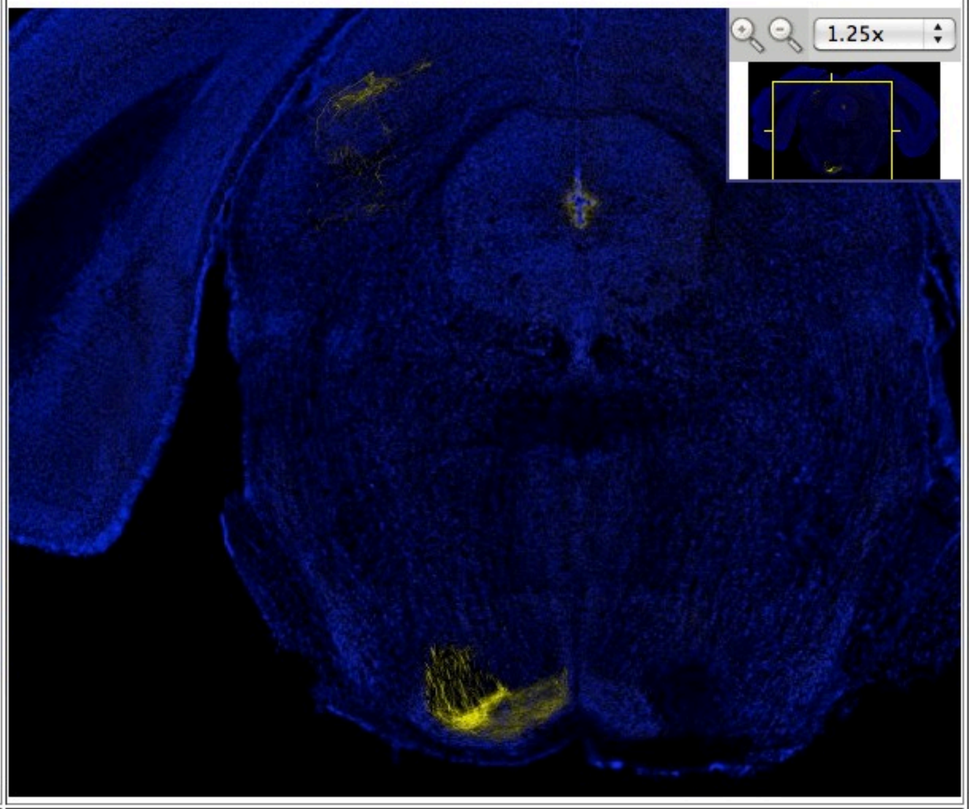
tr_KL100_1678_30d_01_B_striatum_02.pff Take a snapshot



tr_KL100_1678_50e_02_E_STN_02.pff Take a snapshot



tr_KL100_1678_60e_01_G_SNb_02.pff Take a snapshot



tr_KL100_1678_70a_02_G_pons_02.pff Take a snapshot

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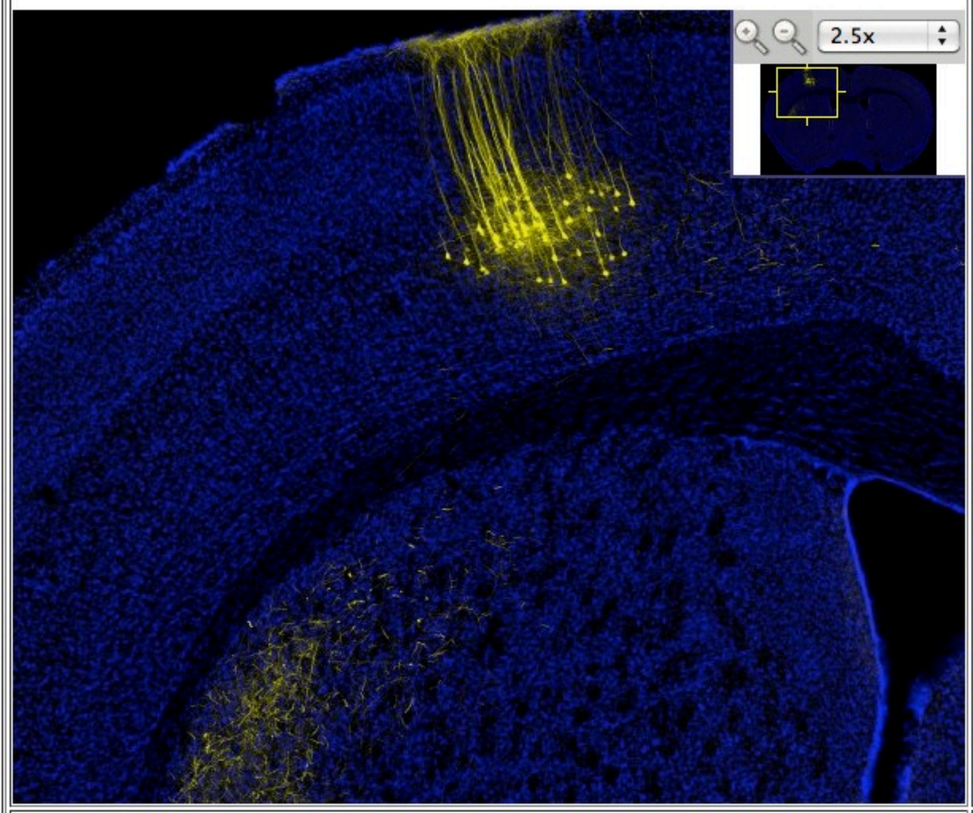
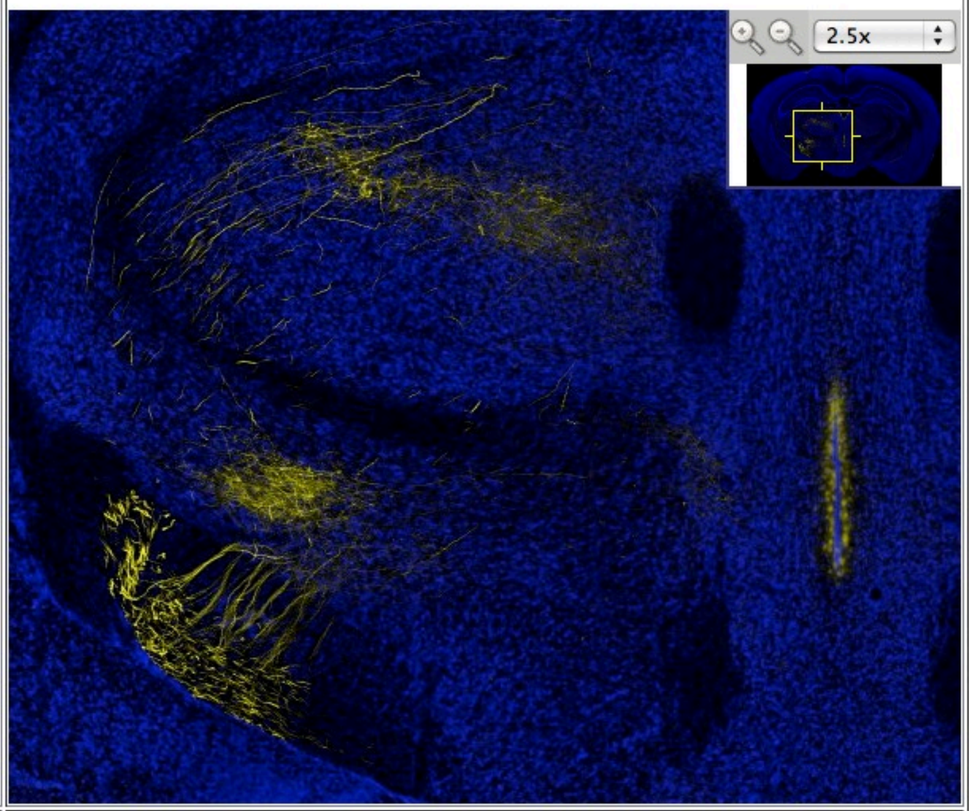
Group Slides

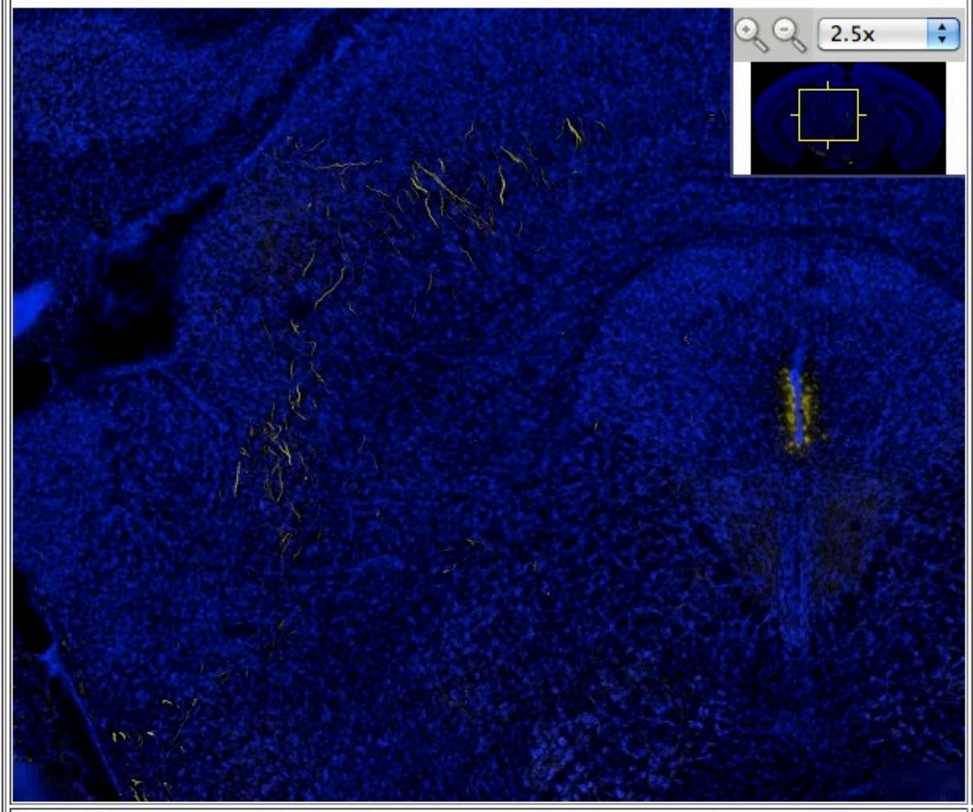
higher magnification



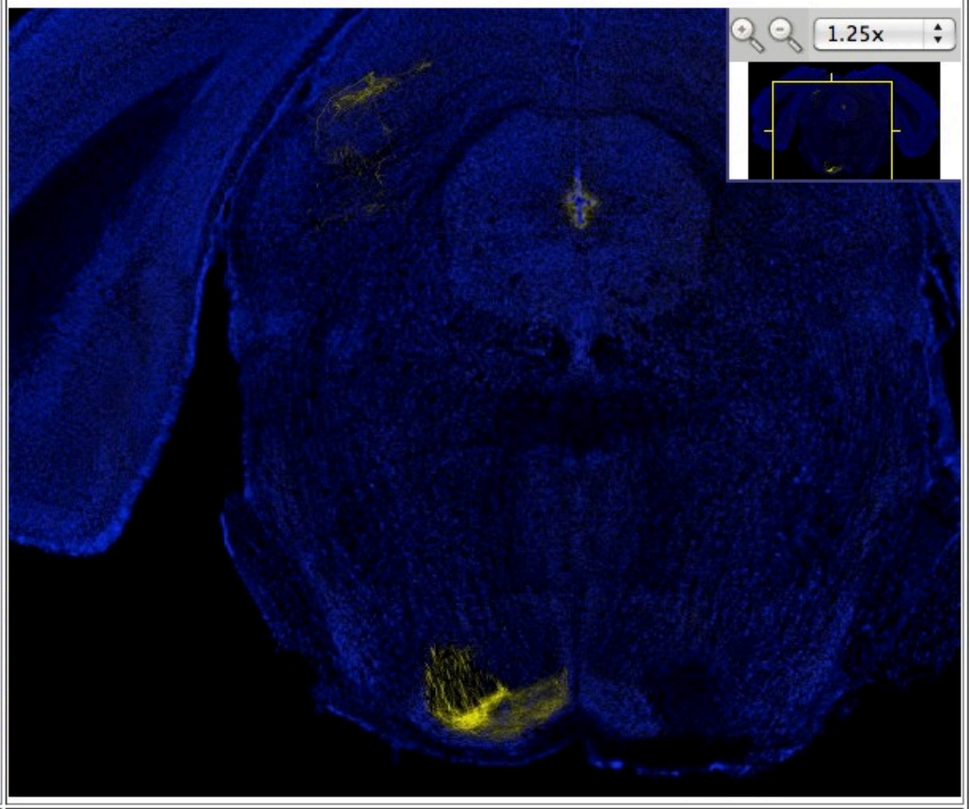
tr_KL100_1678_30d_01_B_striatum_02.pff Take a snapshot



tr_KL100_1678_50e_02_E_STN_02.pff Take a snapshot



tr_KL100_1678_60e_01_G_SNb_02.pff Take a snapshot



tr_KL100_1678_70a_02_G_pons_02.pff Take a snapshot

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Select Cre driver line(s): default lists all lines or select by Keyword for lines with expression in specific brain system

Select the coronal levels to display by checking box(es) : default provides 1 level in 5, All Levels option allows selection from all

KeyWord: 01 all tracing cases

KeyWord:

KeyWord:

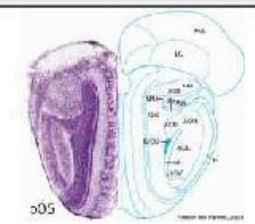
LINES Select All Unselect All

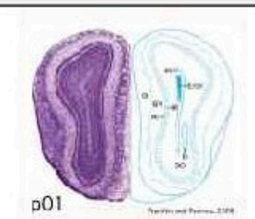
☐	10T_KL100_272_02	PT and IT corticostriatal
☐	10T_KL100_272_03	PT and IT corticostriatal
☐	10T_KL100_677_03	PT and IT corticostriatal
☐	10T_KL100_678_02	PT and IT corticostriatal
☐	10T_KL100_678_03	PT and IT corticostriatal
☐	13T_NF107_576_02	PT and IT prefrontal corticost...
☐	13T_NF107_576_03	PT and IT prefrontal corticost...
☑	21T_KJ18_537_03	PT corticostriatal
☑	22T_OE25_454_02	PT corticostriatal
☑	22T_OE25_454_03	PT corticostriatal
☑	22T_OE25_718_02	PT corticostriatal
☑	31T_PL56_2332_02	IT corticostriatal
☑	31T_PL56_2332_03	IT corticostriatal
☐	41T_OG1_336_02	matrix corticostriatal
☐	41T_OG1_336_03	matrix corticostriatal
☐	51T_OG1_3674_02	striatal matrix
☐	51T_OG1_3674_03	striatal matrix
☐	52T_NP67_290_02	striatal patch

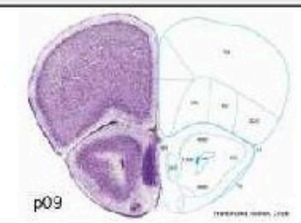
Select All Unselect All

LEVELS	All Levels	DESCRIPTION
☐	c5	c05 olfactory bulb
☐	c10	c10 frontal cortex
☑	c15	c15 frontal cortex
☑	c20	c20 accumbens
☑	c25	c25 striatum
☑	c30	c30 septal area
☑	c35	c35 globus pallidus
☑	c40	c40 hypothalamus
☑	c45	c45 thalamus
☑	c50	c50 hippocampus
☑	c55	c55 midbrain
☑	c60	c60 substantia nigra
☑	c65	c65 colliculus
☑	c70	c70 dorsal raphe
☑	c75	c75 PPN
☑	c80	c80 brainstem
☐	c85	locus coeruleus
☐	c90	c90 cerebellum
☐	c95	c95 cerebellum
☐	c100	

Place mouse over Level description to change image.







select lines to show

PT and IT selective lines

Display Slides

○ Results display lines in rows

◉ Results display lines in columns

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Compare Slides

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Only two or four slides are allowed to be compared at any given time.

Compare Selected Slides

Clear all Selections

Level	21T_KJ18_537_03	22T_OE25_454_02	22T_OE25_454_03	22T_OE25_718_02	31T_PL56_2332_02	31T_PL56_2332_03
c11 - c15						
c16 - c20						
c21 - c25		no image av	able			
c26 - c30						
c31 - c35						
c36 - c40						
c41 - c45						

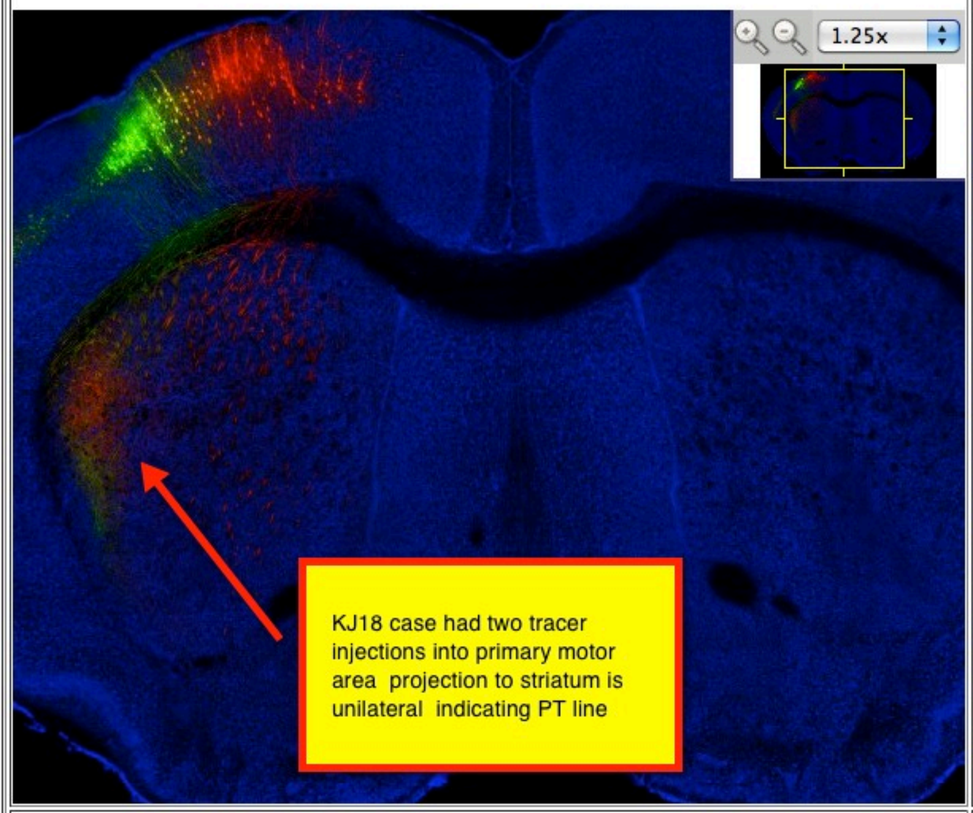
select injection sites for KJ18 (PT), OE25 (PT) and PL56 (IT)

Grouping of Slides

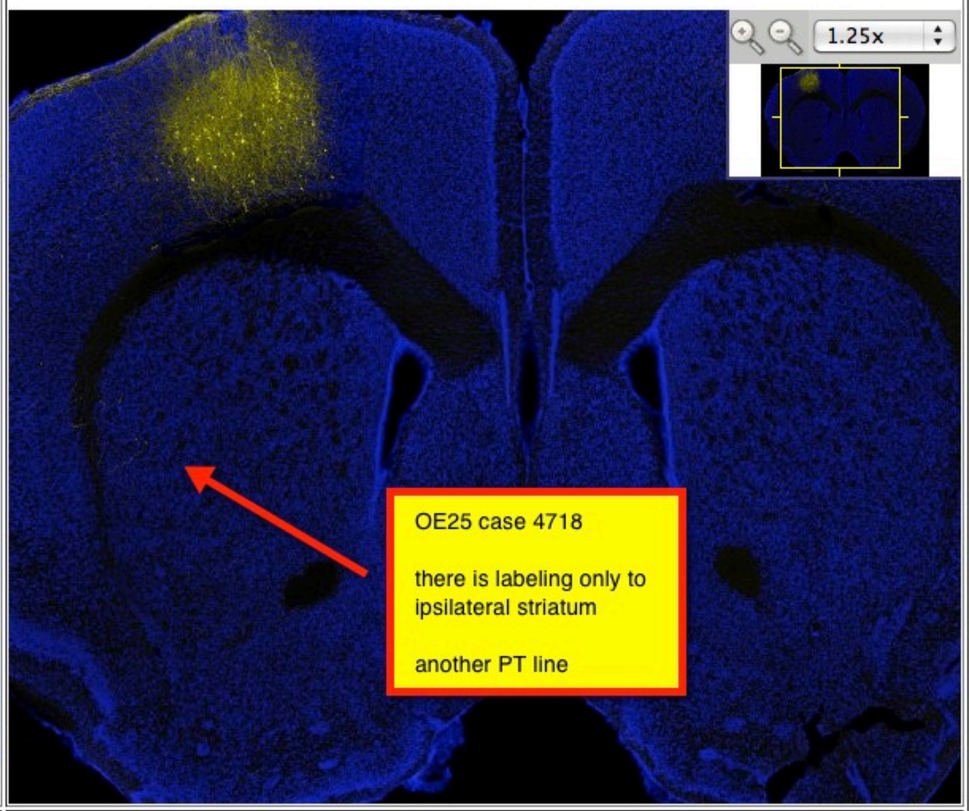
Use the group slide button to link the slides.

Make sure that all linked slides have the same magnification.

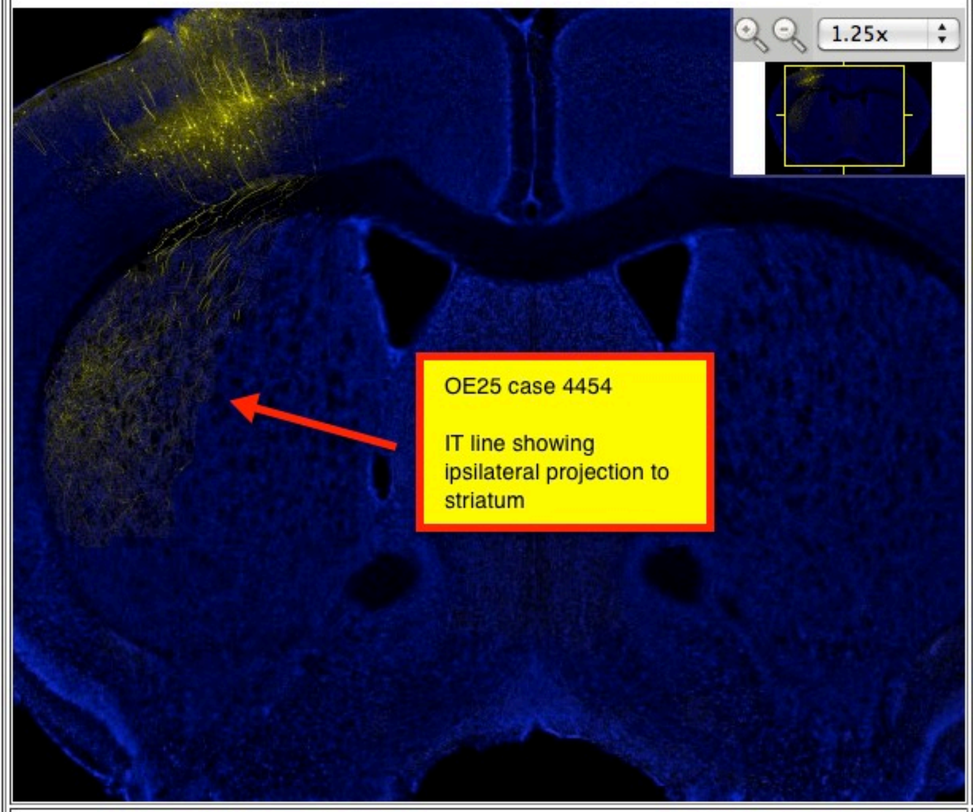
Ungroup Slides



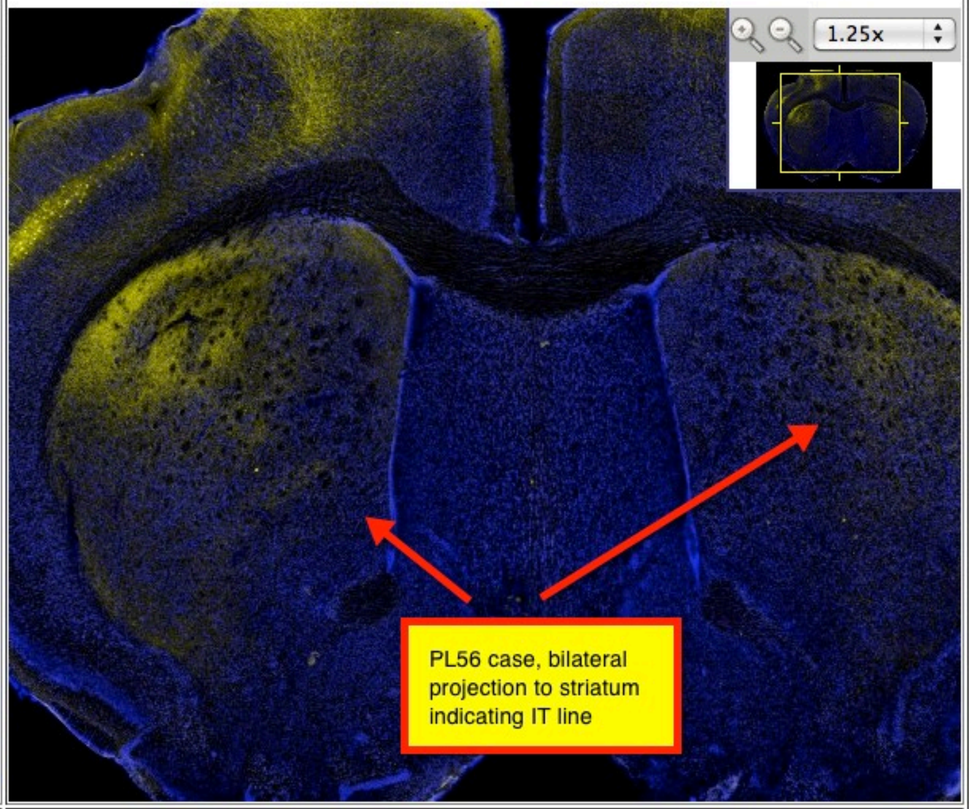
tr_KJ18_537_30a.pff Take a snapshot



tr_OE25_4718_20e_07_C_striatum_02.pff Take a snapshot



tr_OE25_4454_30b_01_C_striatum_02.pff Take a snapshot



tr_PL56_2332_30a_02.pff Take a snapshot

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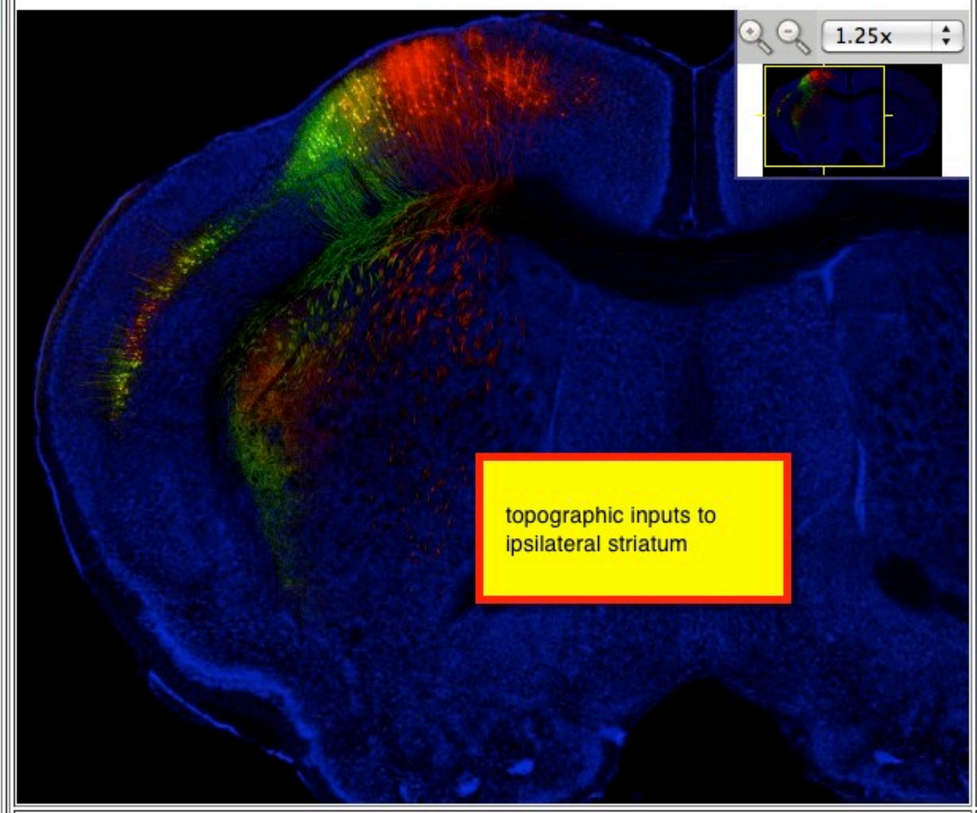
Grouping of Slides

Use the group slide button to link the slides.

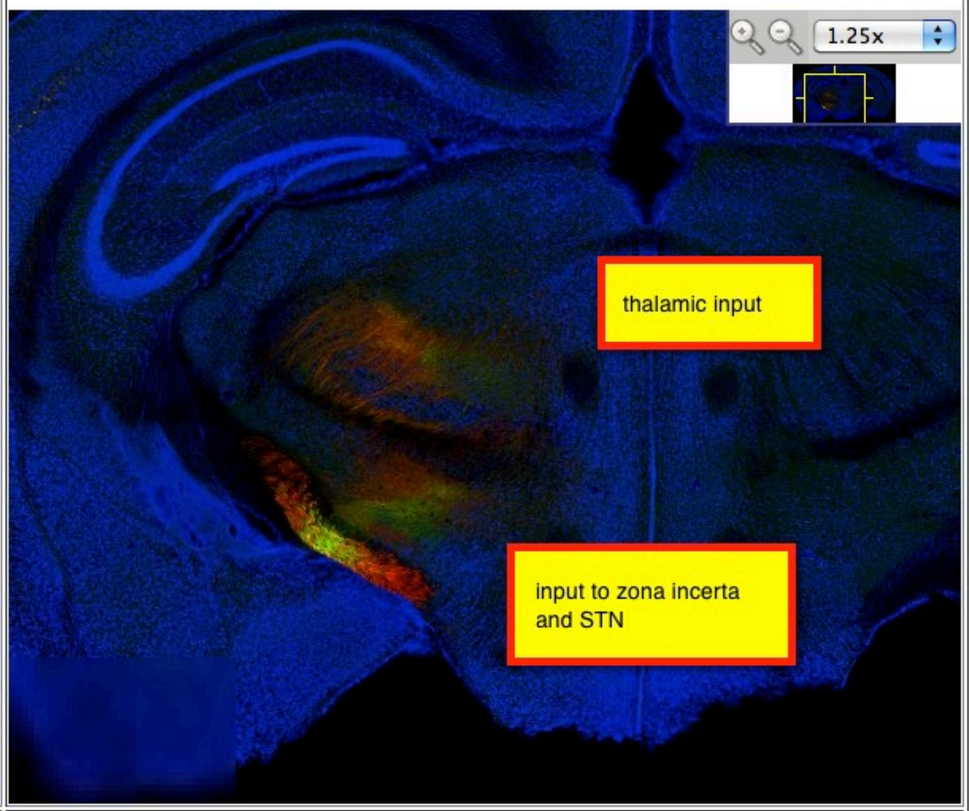
Make sure that all linked slides have the same magnification.

Group Slides

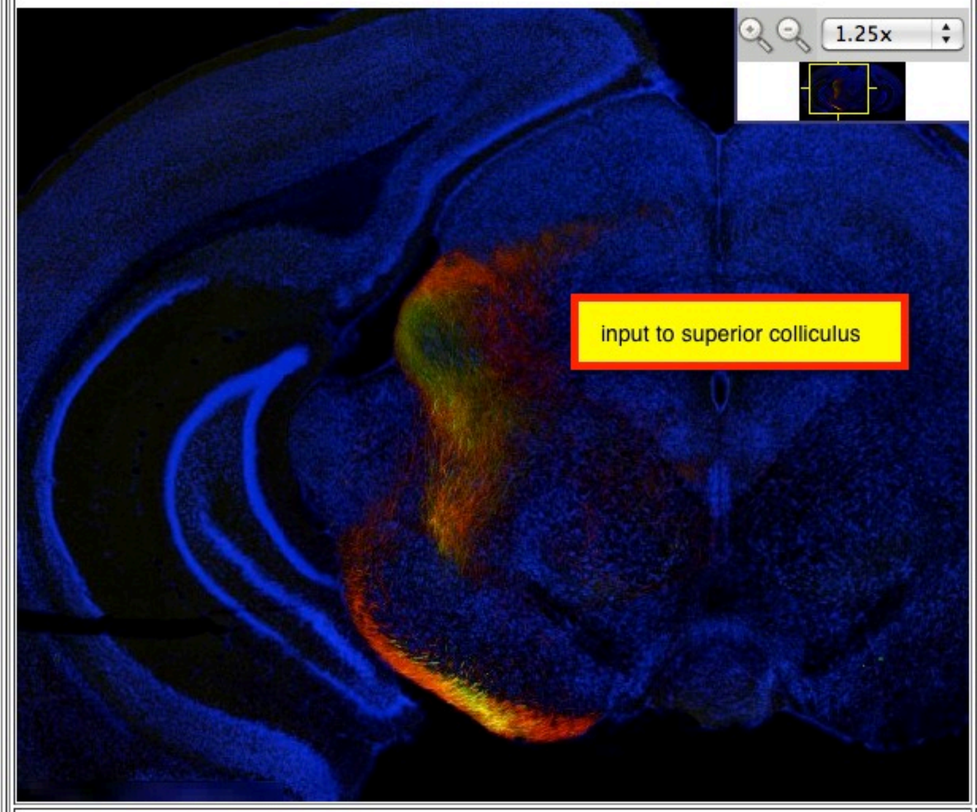
KJ 18 case showing projections to subcortical structures indicating PT specific line



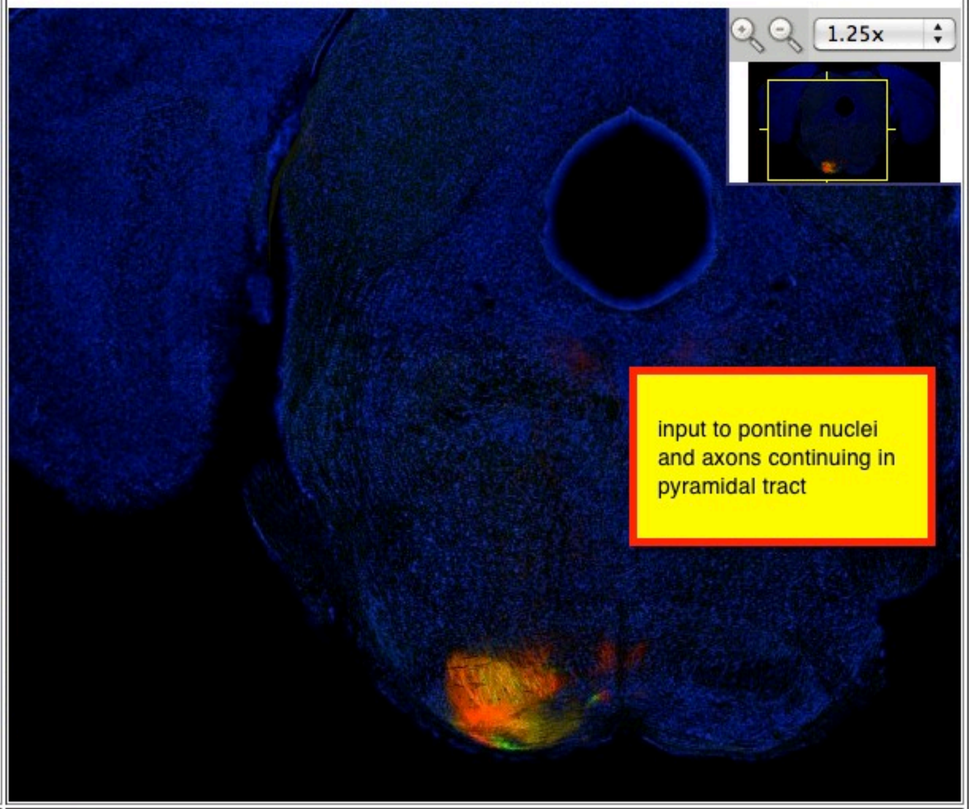
tr_KJ18_537_20b.pff Take a snapshot



tr_KJ18_537_50d_04_E_STN_03.pff Take a snapshot



tr_KJ18_537_60c.pff Take a snapshot



tr_KJ18_537_70a.pff Take a snapshot

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Grouping of Slides

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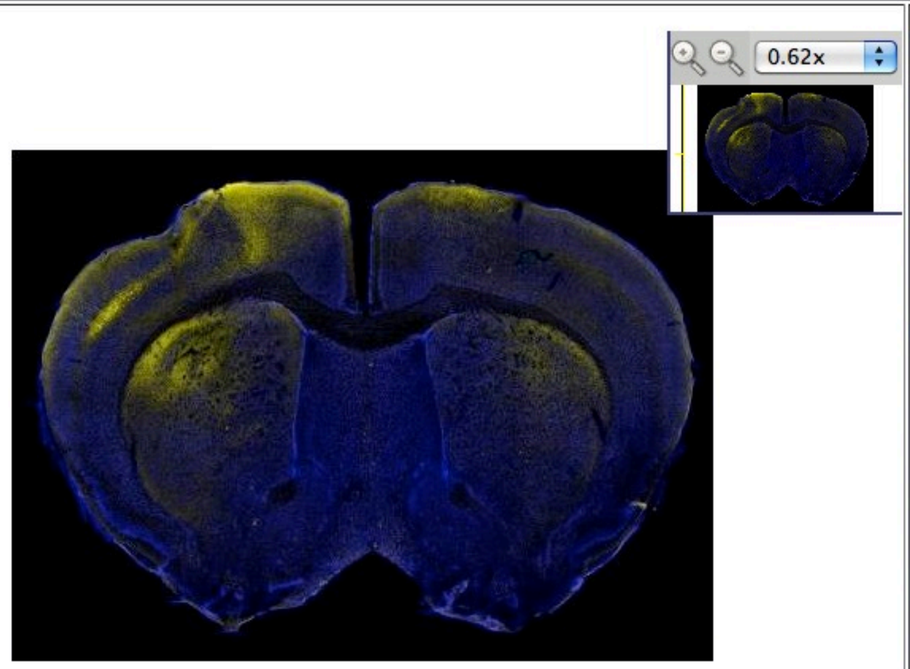
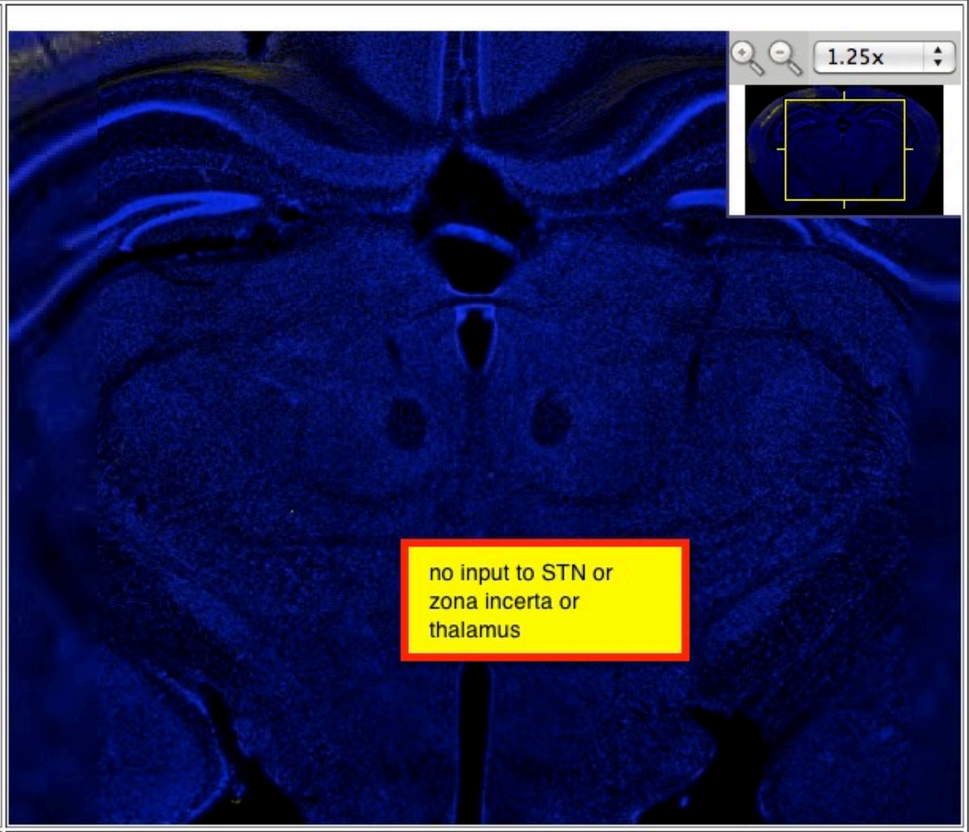
Group Slides

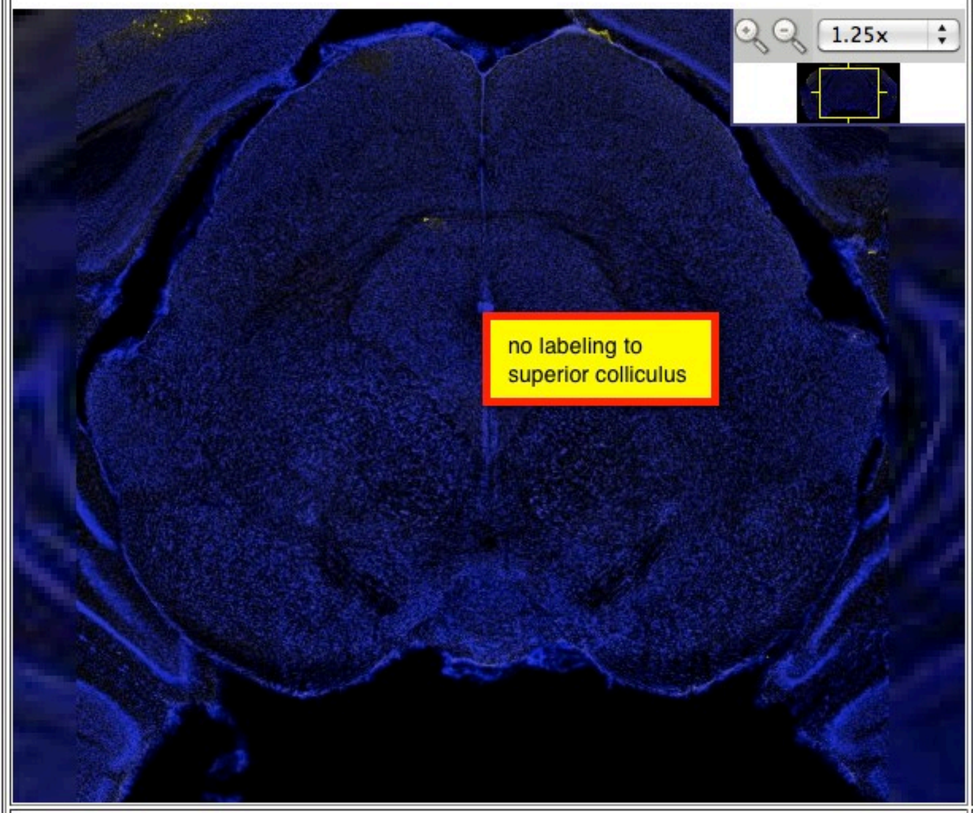
PL56 case showing bilateral striatal projections and absence of labeling of projections to other subcortical structures indicating this is a IT specific line



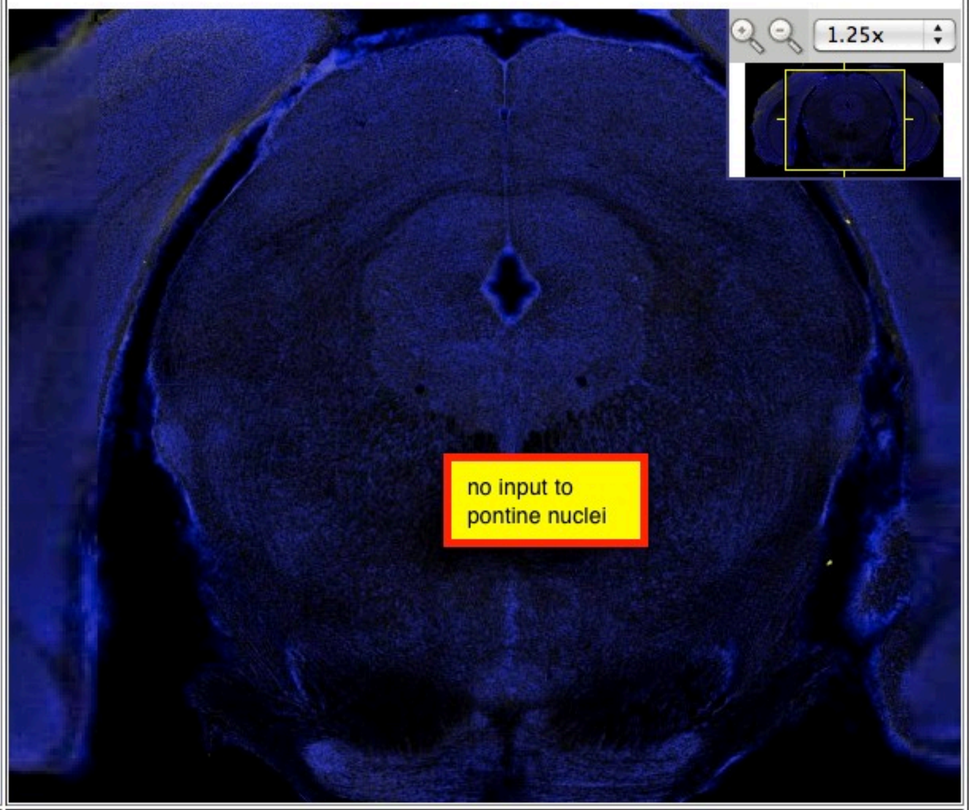
tr_PL56_2332_30a_02.pff Take a snapshot



tr_PL56_2332_50f_02.pff Take a snapshot



tr_PL56_2332_60g_02.pff Take a snapshot



tr_PL56_2332_70a_02.pff Take a snapshot

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Select Cre driver line(s): default lists all lines or select by Keyword for lines with expression in specific brain system

Select the coronal levels to display by checking box(es) : default provides 1 level in 5, All Levels option allows selection from all

KeyWord: 01 all tracing cases

KeyWord:

KeyWord:

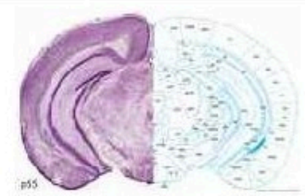
LINES Select All Unselect All

- [ ] 10T_KL100_272_02 PT and IT corticostriatal
- [ ] 10T_KL100_272_03 PT and IT corticostriatal
- [ ] 10T_KL100_677_03 PT and IT corticostriatal
- [ ] 10T_KL100_678_02 PT and IT corticostriatal
- [ ] 10T_KL100_678_03 PT and IT corticostriatal
- [ ] 13T_NF107_576_02 PT and IT prefrontal corticost...
- [ ] 13T_NF107_576_03 PT and IT prefrontal corticost...
- [ ] 21T_KJ18_537_03 PT corticostriatal
- [ ] 22T_OE25_454_02 PT corticostriatal
- [ ] 22T_OE25_454_03 PT corticostriatal
- [ ] 22T_OE25_718_02 PT corticostriatal
- [ ] 31T_PL56_2332_02 IT corticostriatal
- [ ] 31T_PL56_2332_03 IT corticostriatal
- [x] 41T_OG1_336_02 matrix corticostriatal
- [x] 41T_OG1_336_03 matrix corticostriatal
- [x] 51T_OG1_3674_02 striatal matrix
- [x] 51T_OG1_3674_03 striatal matrix
- [x] 52T_NP67_290_02 striatal patch

Select All Unselect All

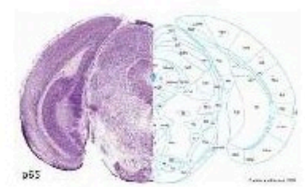
LEVELS	All Levels	DESCRIPTION
[ ] c5		c05 olfactory bulb
[ ] c10		c10 frontal cortex
[ ] c15		c15 frontal cortex
[x] c20		c20 accumbens
[x] c25		c25 striatum
[x] c30		c30 septal area
[x] c35		c35 globus pallidus
[x] c40		c40 hypothalamus
[x] c45		c45 thalamus
[x] c50		c50 hippocampus
[x] c55		c55 midbrain
[x] c60		c60 substantia nigra
[x] c65		c65 colliculus
[ ] c70		c70 dorsal raphe
[ ] c75		c75 PPN
[ ] c80		c80 brainstem
[ ] c85		locus coeruleus
[ ] c90		c90 cerebellum
[ ] c95		c95 cerebellum
[ ] c100		

Place mouse over Level description to change image.



c55 midbrain

c60 substantia nigra



c65 colliculus

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- ( ) Results display lines in rows
- (•) Results display lines in columns

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select lines with patch matrix connections

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OG1_336 case of cortical injection

OG1_3674 case of striatal injection

NP67 case of striatal injection

go

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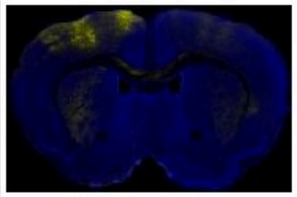
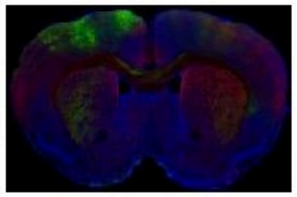
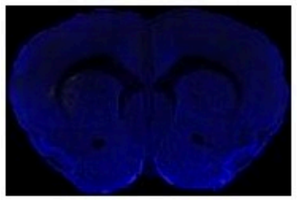
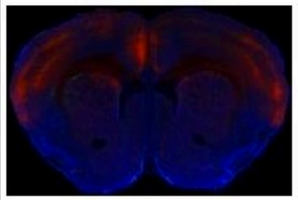
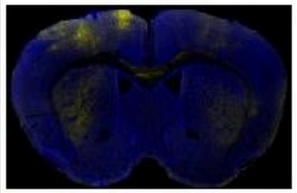
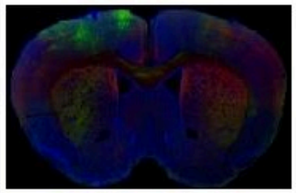
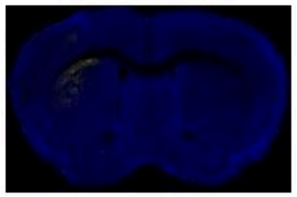
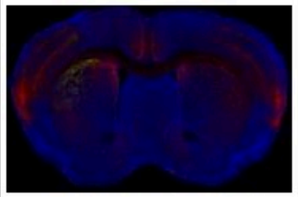
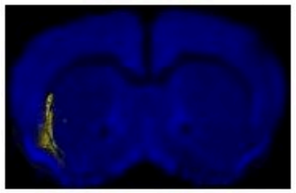
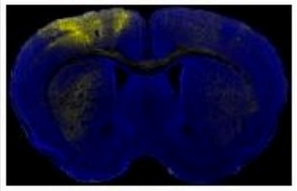
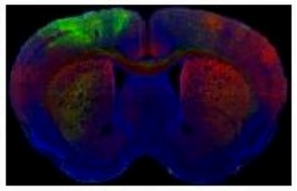
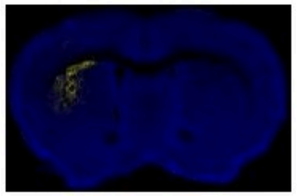
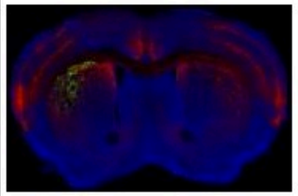
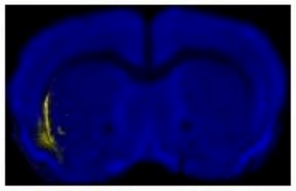
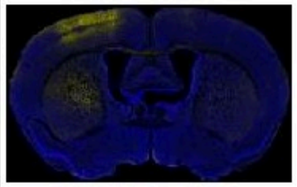
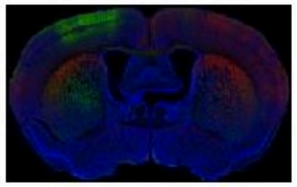
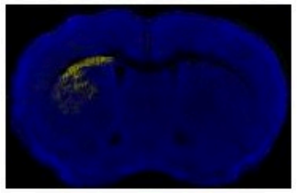
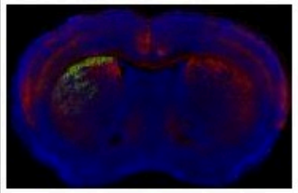
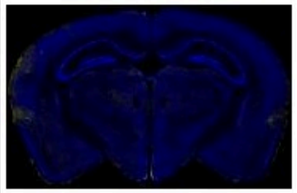
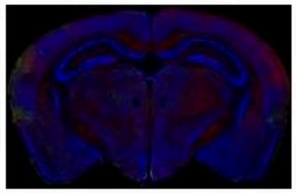
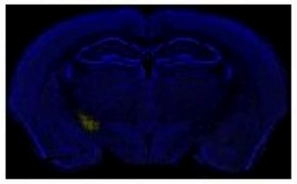
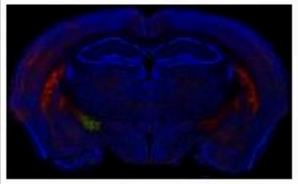
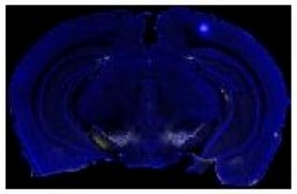
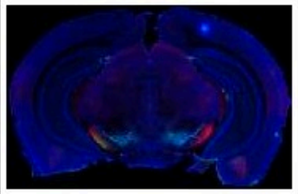
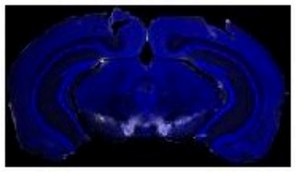
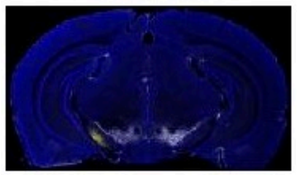
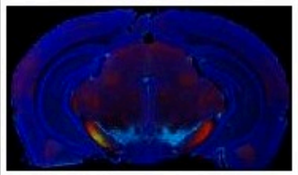
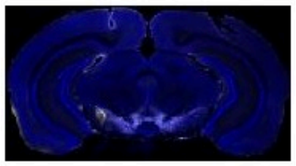
Compare Selected Slides

Clear all Selections

Level	41T_OG1_336_02	41T_OG1_336_03	51T_OG1_3674_02	51T_OG1_3674_03	52T_NP67_290_02
c16 - c20					no image available
c21 - c25					
c26 - c30					
c31 - c35					no image available
c51 - c55					no image available
c56 - c60	no image available	no image available			
c61 - c65	no image available	no image available			

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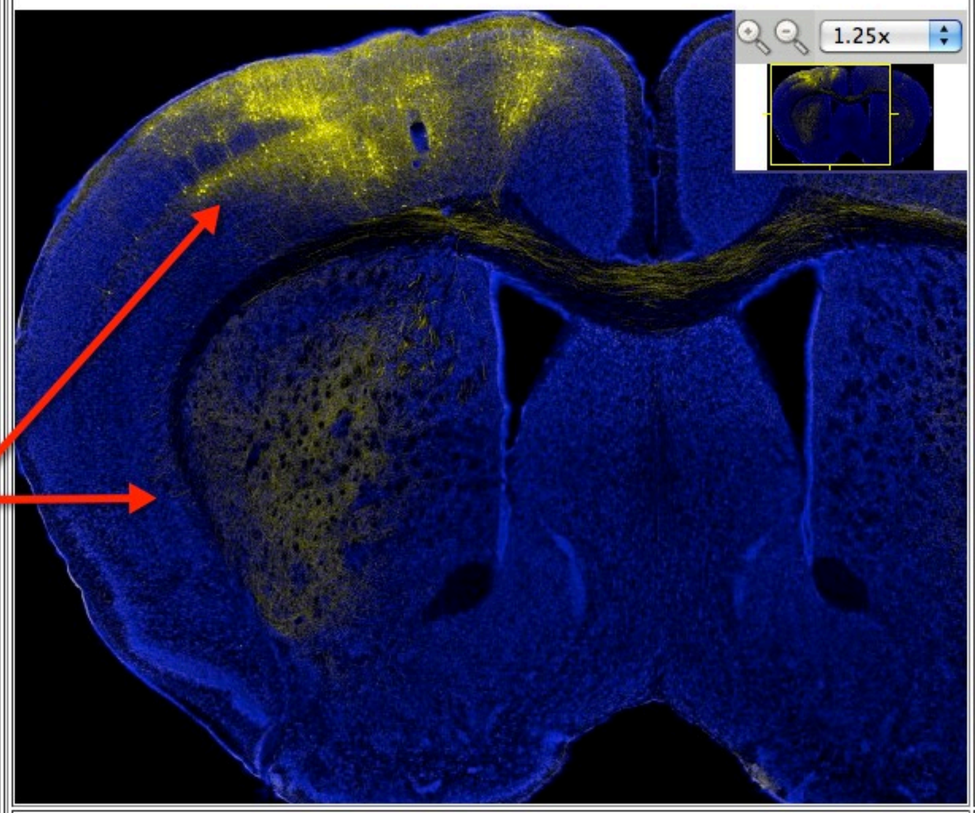
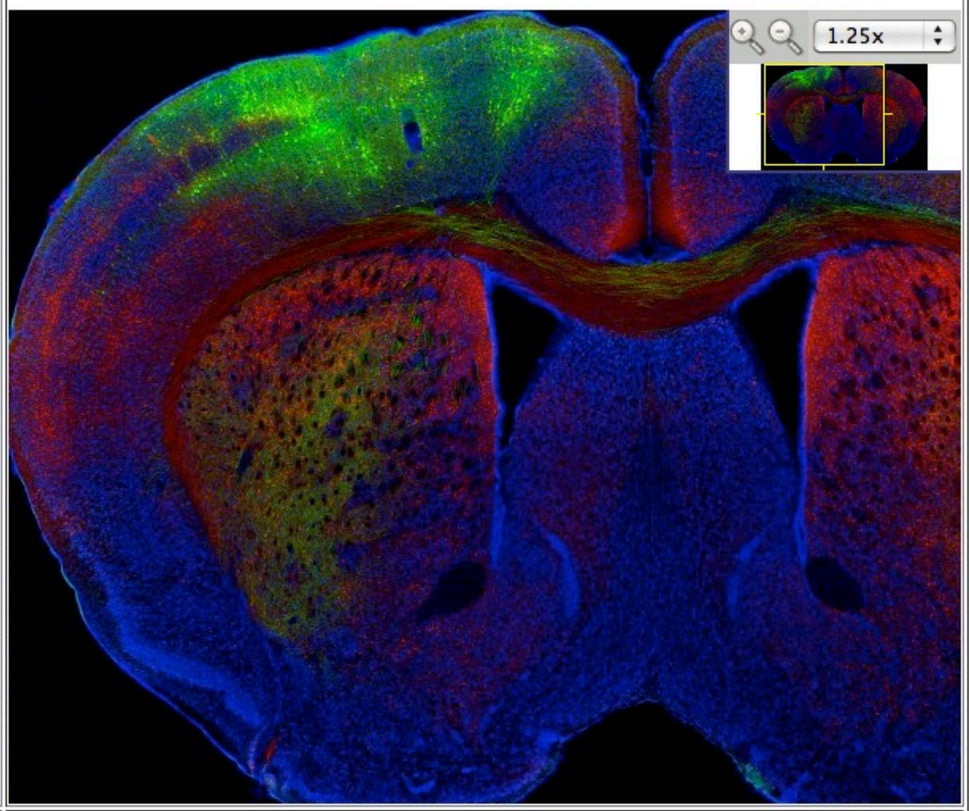
OG1_336 case of cortical injection showing projection to striatal matrix



tr_OG1_336_30a_03_B_accumbens_02.pff Take a snapshot



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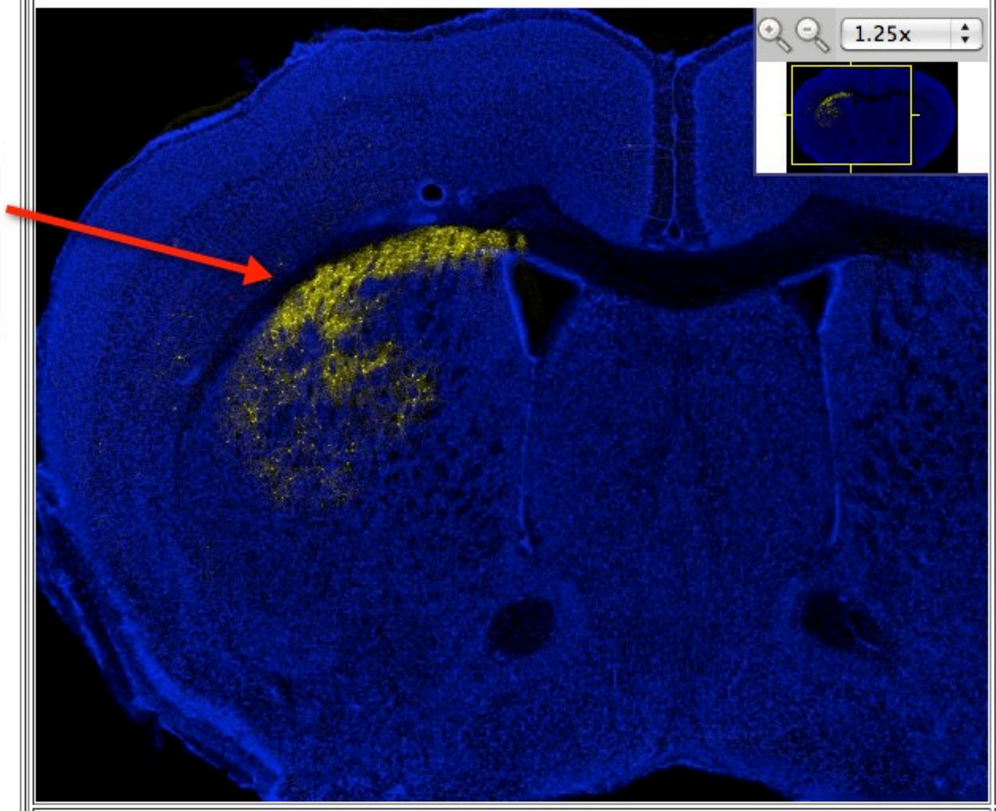
og1_3674 case of striatal injection showing labeled neurons in striatal matrix



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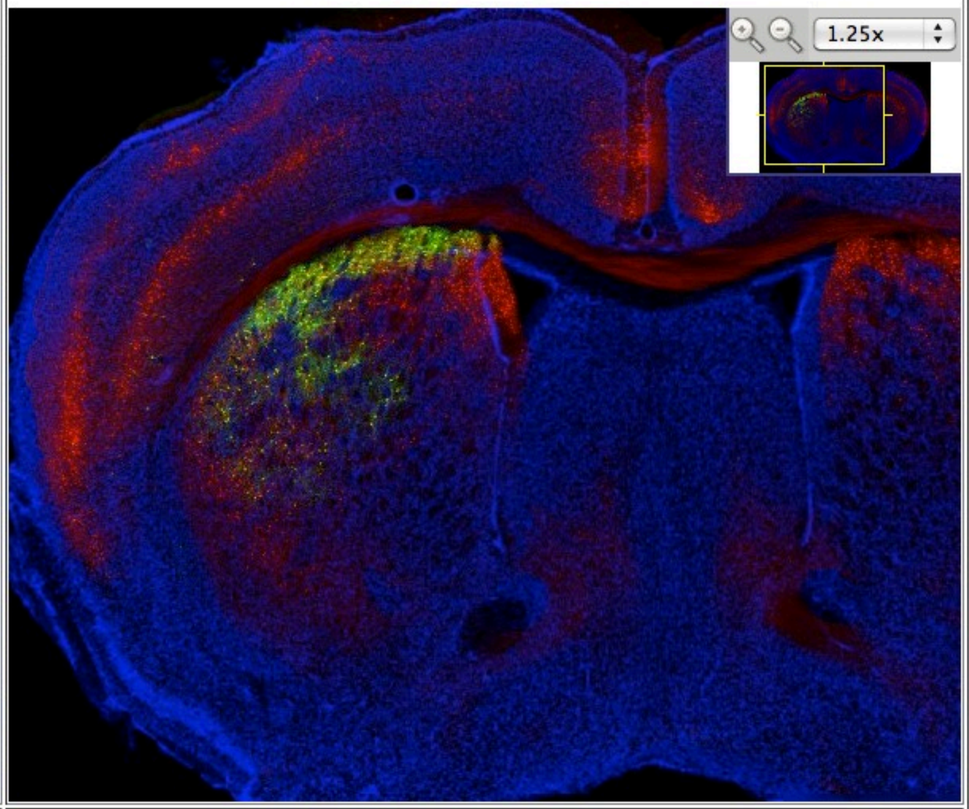

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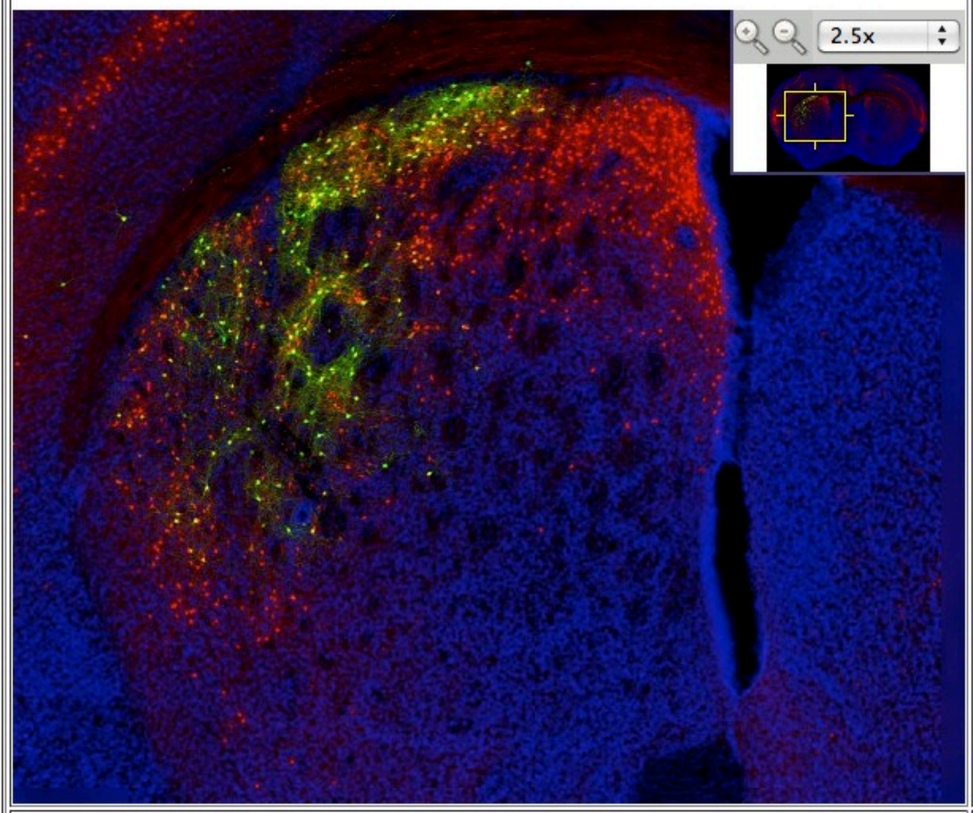
injection site in striatum resulting in select labeling of striatal matrix neurons



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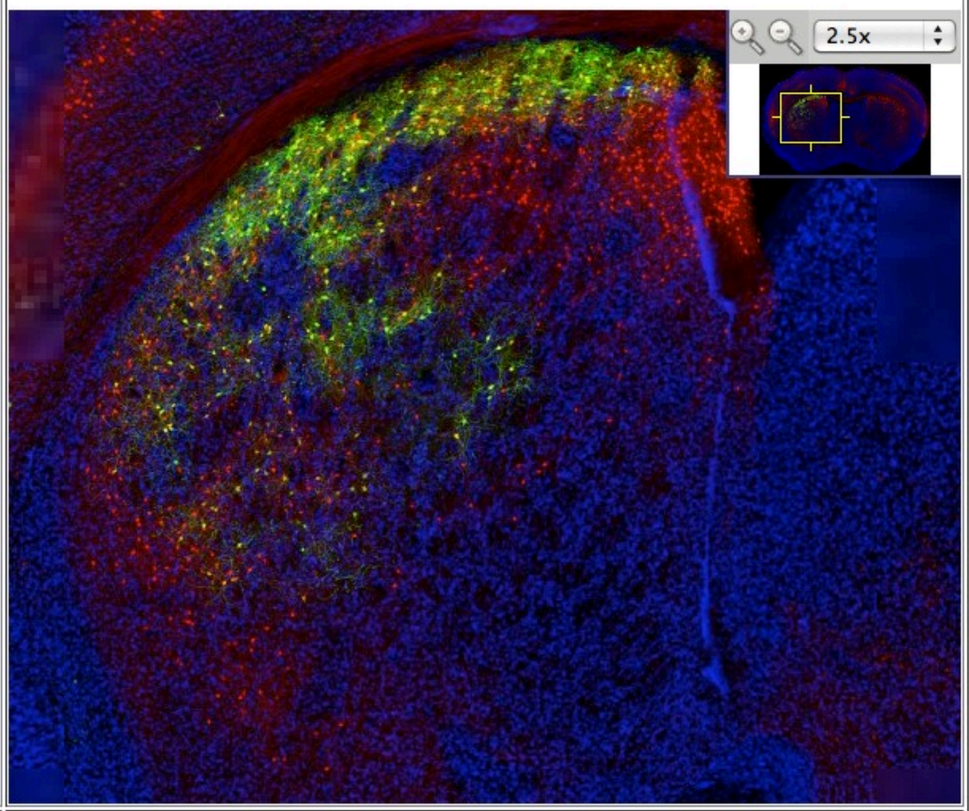
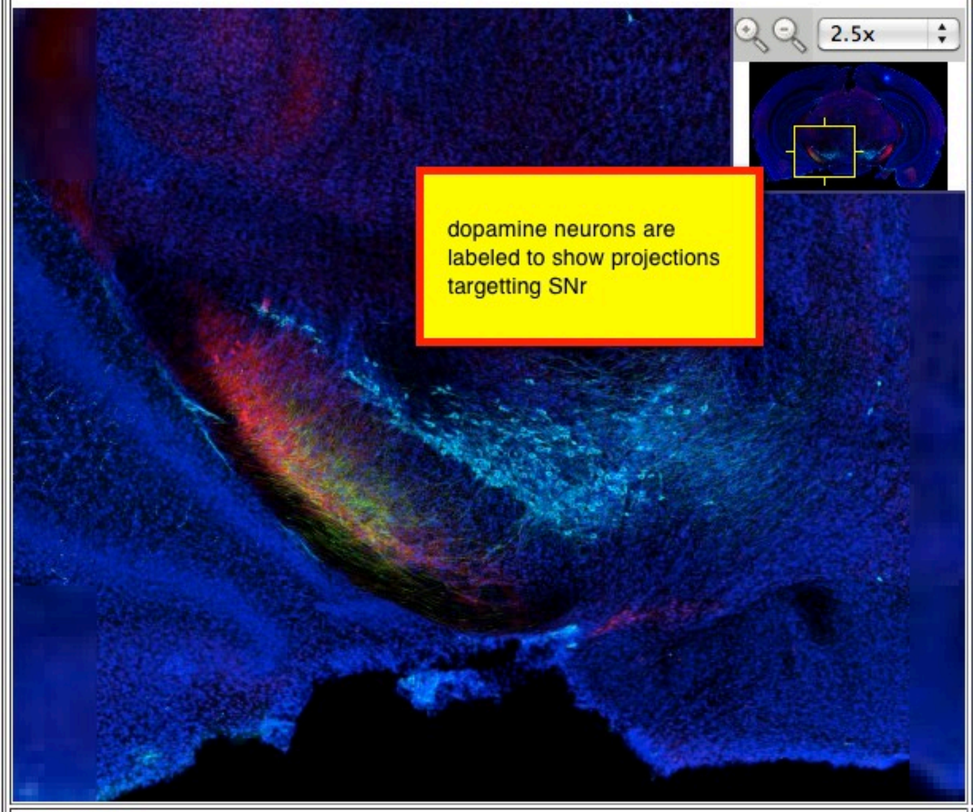


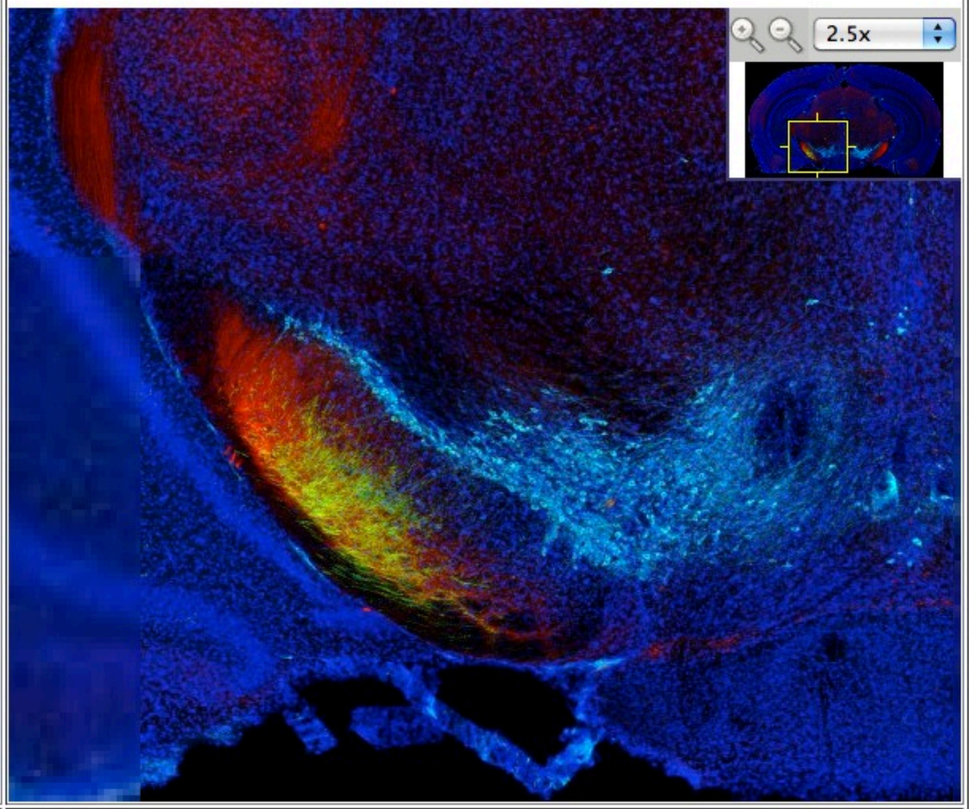
tr_OG1_3674_30c_09_B_striatum_03.pff Take a snapshot

projections from striatal matrix are directed to SN pars reticulata and not to the pars compacta

green is labeling of virus tracer and red is cre expression in this line



tr_OG1_3674_60b_07_A_midbrain_03.pff Take a snapshot



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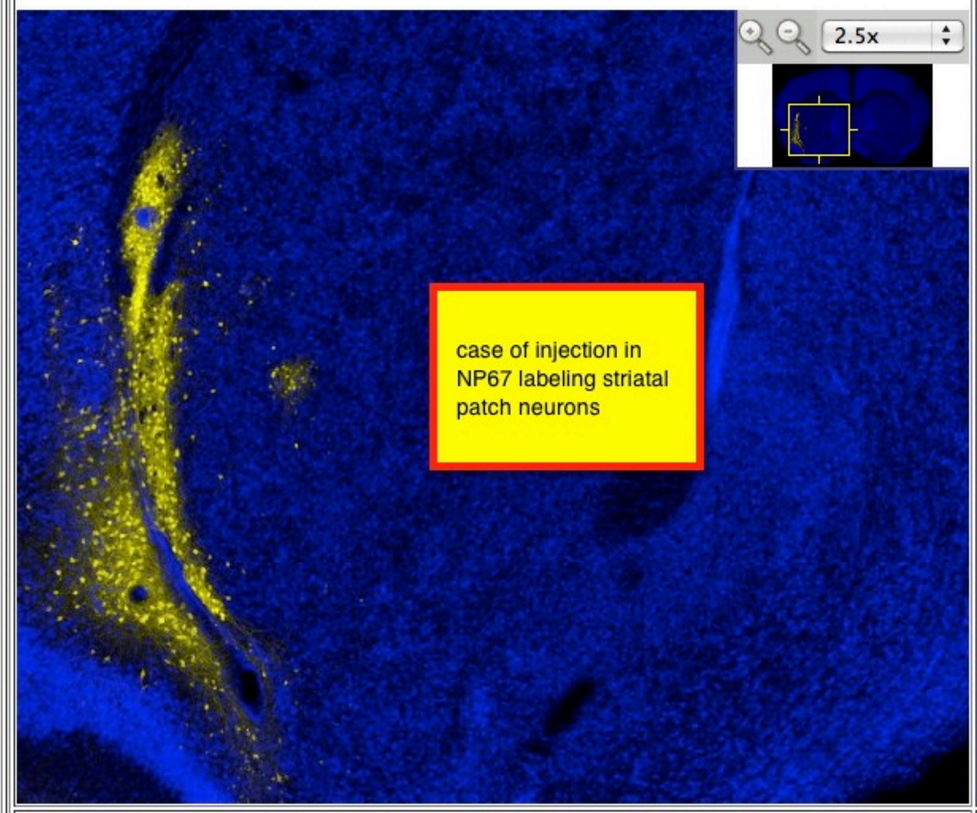
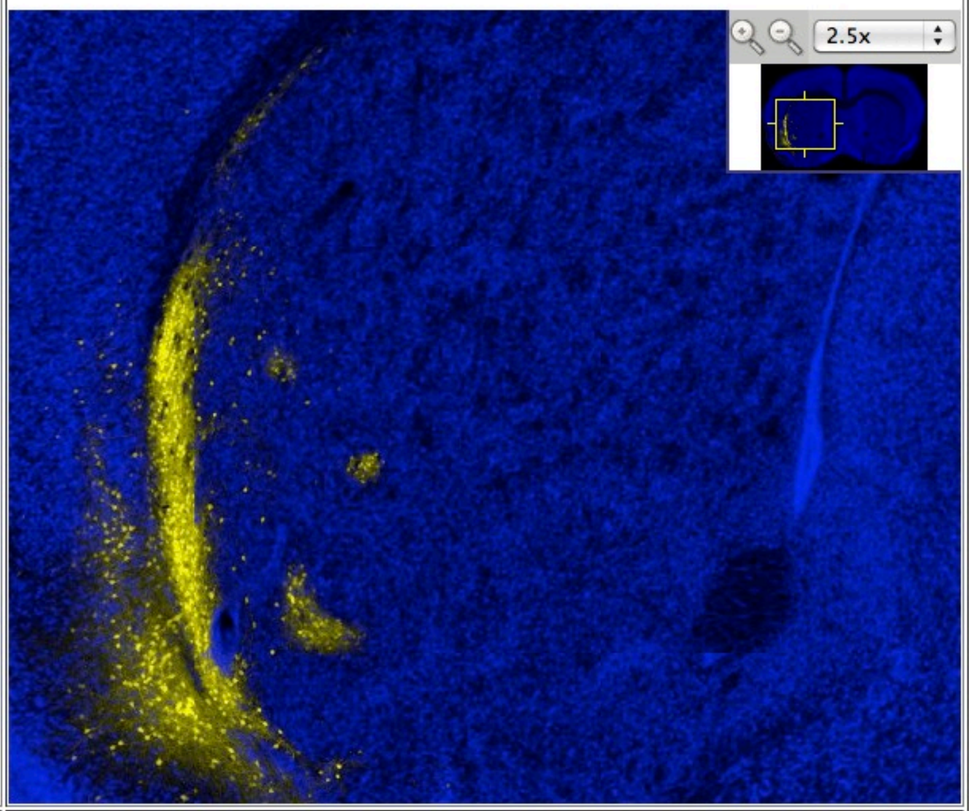


tr_NP67_290_20f_02_B_accumbens_02.pff Take a snapshot



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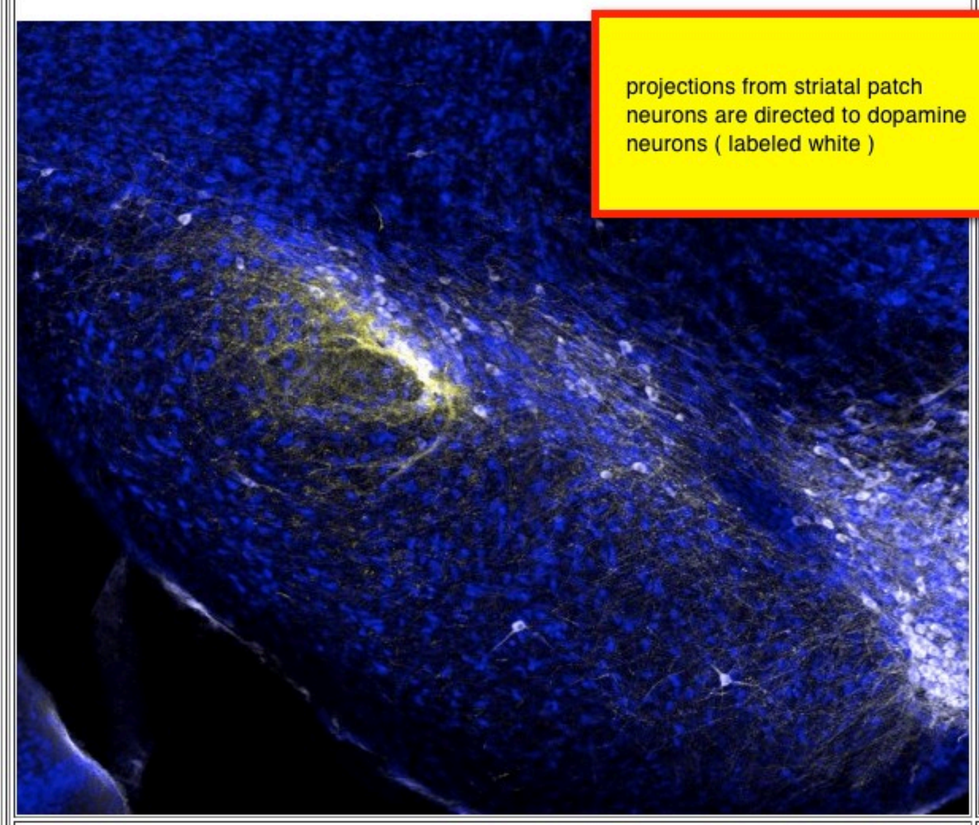

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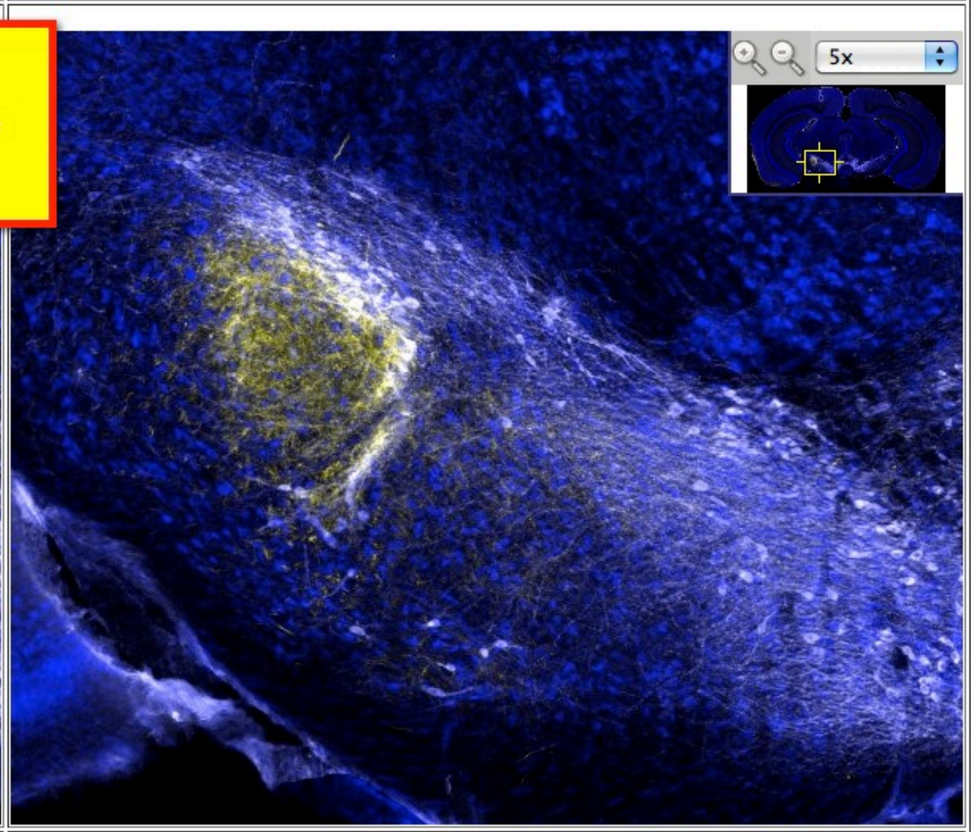

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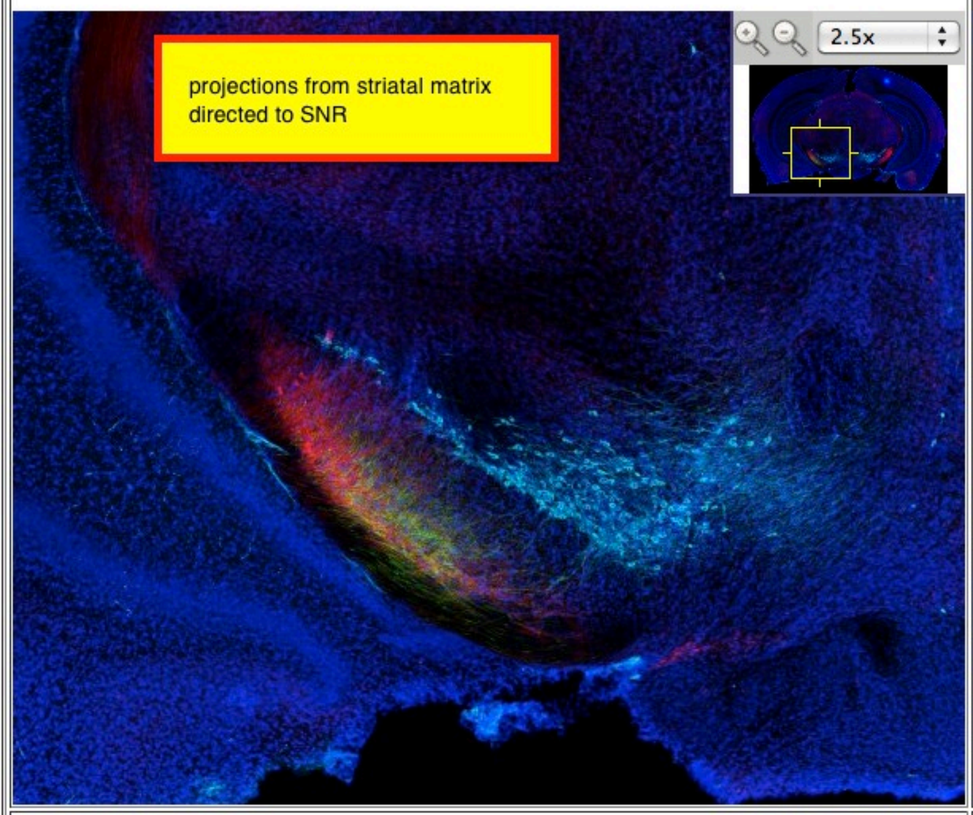

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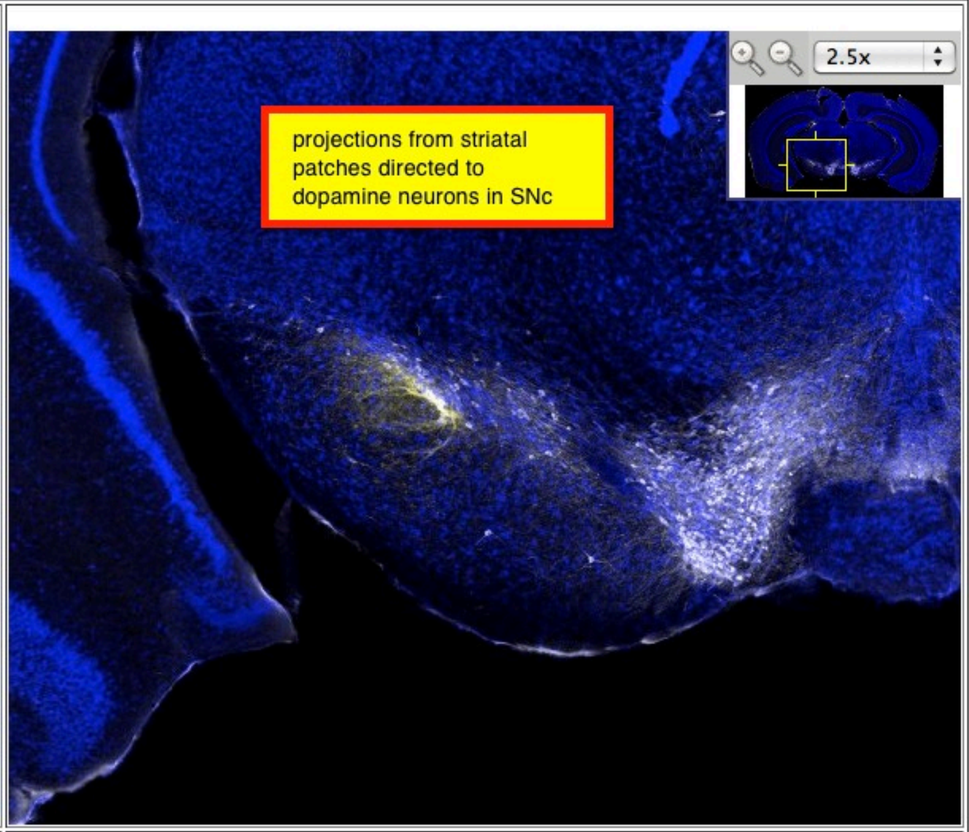

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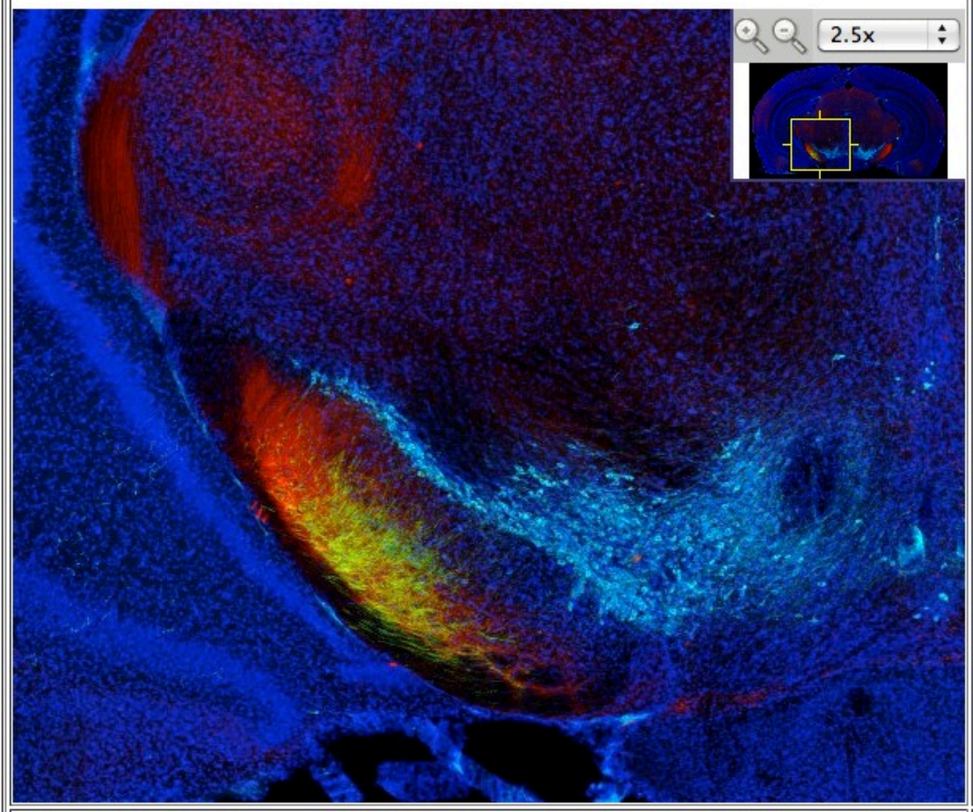

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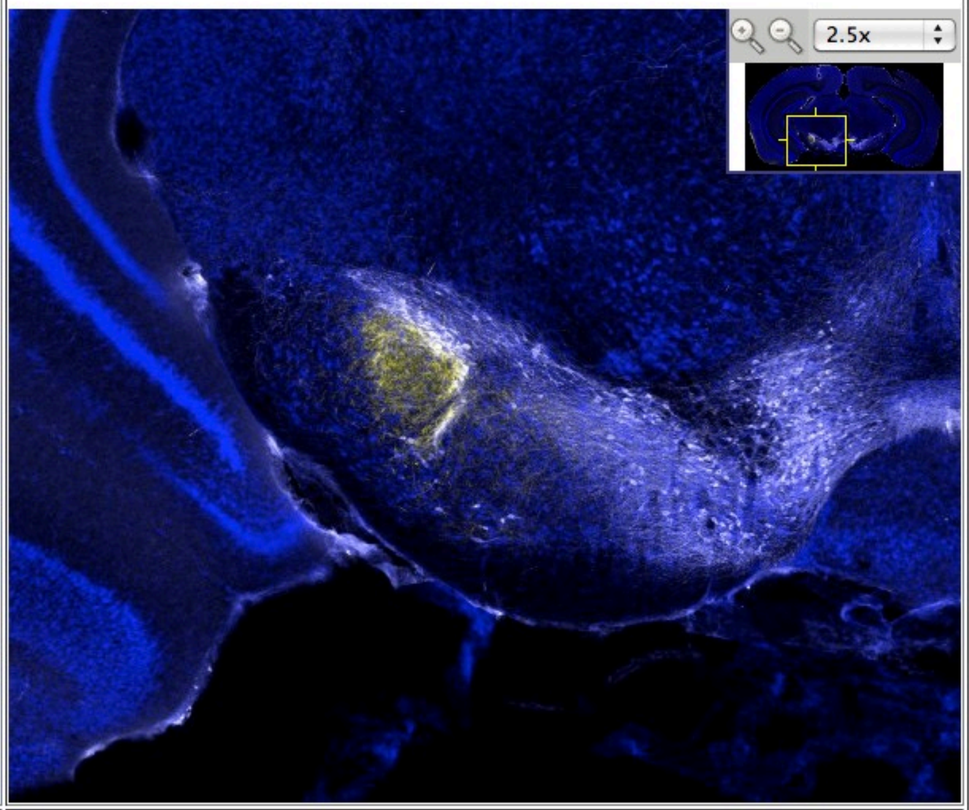

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