

ATLAS of IRON, COPPER AND ZINC
C57BL/6
CEREBRUM & BRAINSTEM

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Plate 1

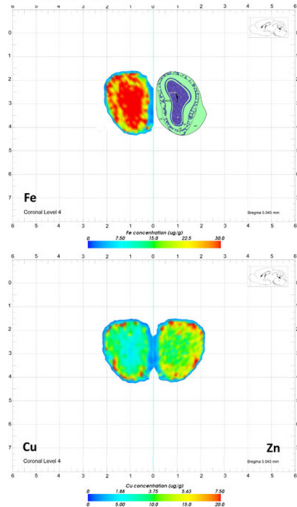


Plate 2

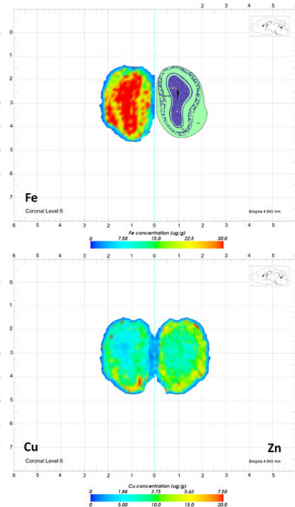


Plate 3

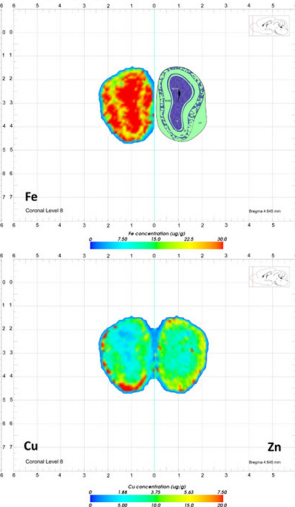


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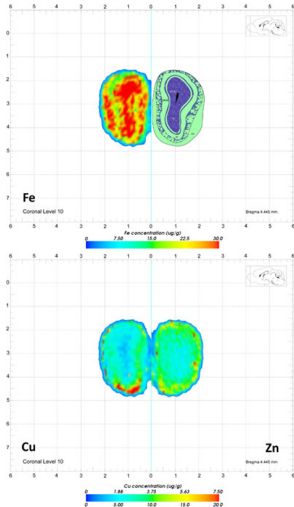


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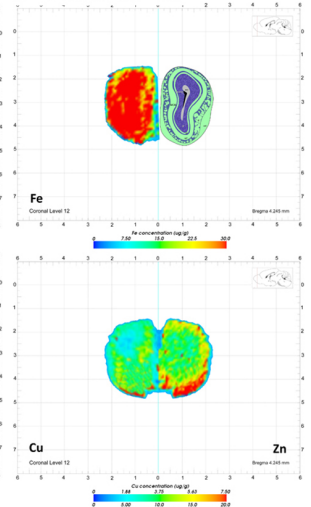


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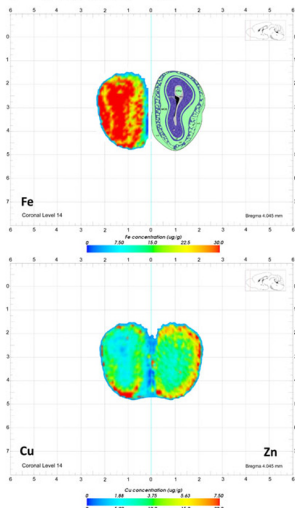


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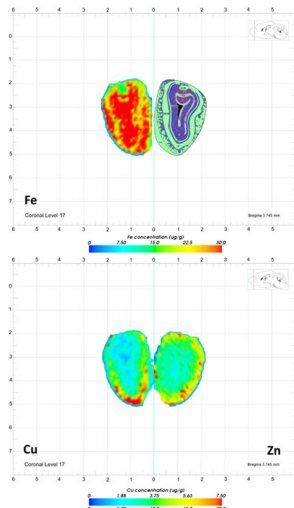


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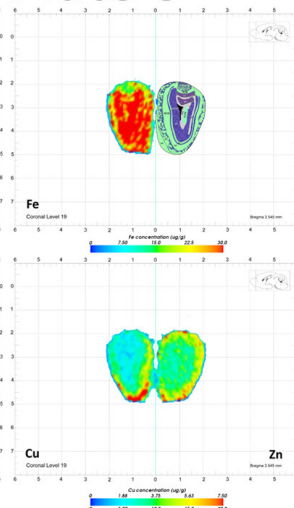


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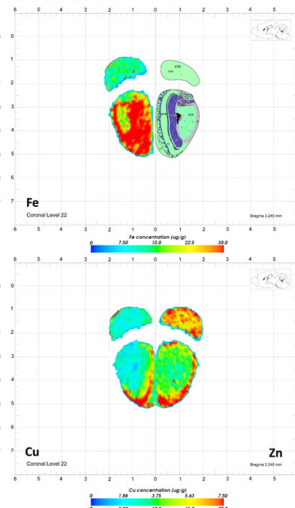


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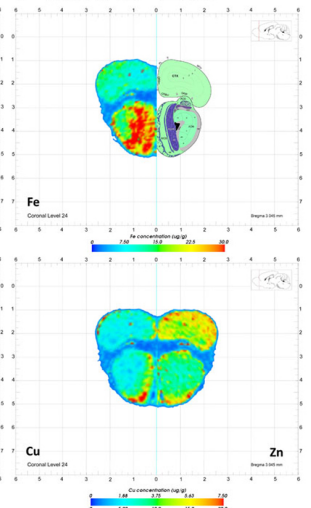


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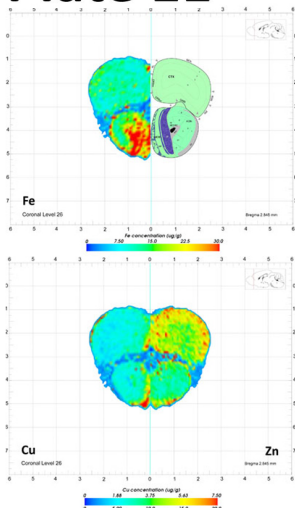


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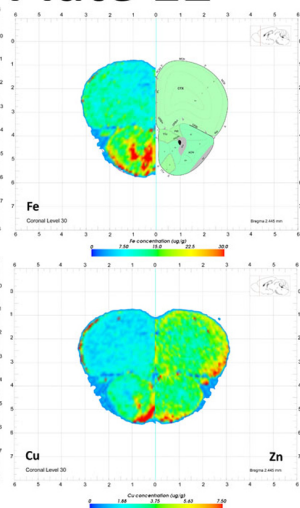


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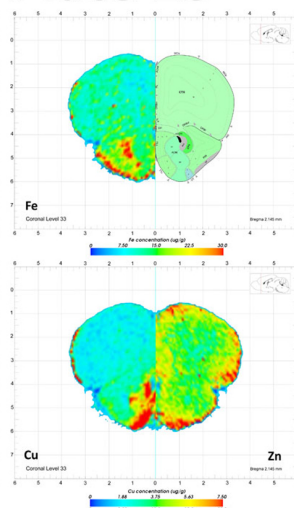


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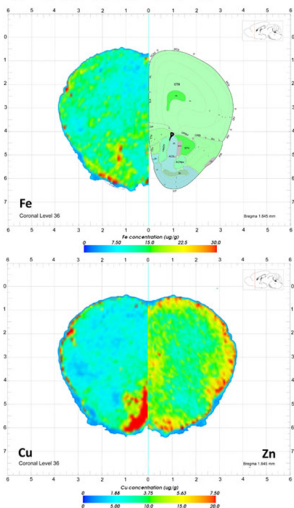


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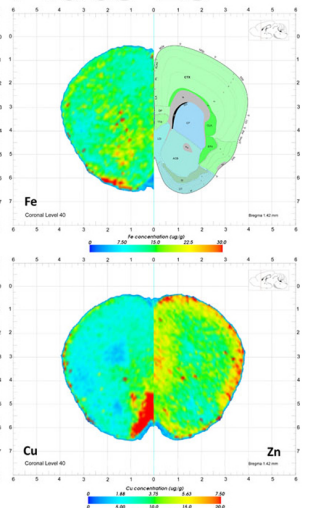


Figure 10 consists of two maps of the upper crust of the Kilauea caldera, showing the distribution of Fe and Cu concentrations. The top map is labeled 'Fe' and 'Concentration Level 45'. It displays a color-coded map of the caldera with a color scale ranging from 7.68 (blue) to 22.5 (red). A schematic diagram of the caldera is shown in the top right corner, and a scale bar of 1000 m is provided. The bottom map is labeled 'Cu' and 'Concentration Level 45'. It displays a color-coded map of the caldera with a color scale ranging from 5.00 (blue) to 22.0 (red). A schematic diagram of the caldera is shown in the top right corner, and a scale bar of 1000 m is provided.

Figure 1 consists of two maps of the Earth's crust, showing the distribution of Fe (top) and Zn (bottom). The maps are color-coded, with a color scale ranging from 2.160 to 33.0 for Fe and 2.00 to 29.0 for Zn. The maps are labeled 'Fe' and 'Zn' respectively, and include a 'Concentration Level 47' and a 'Range 0.140 cm'.

Figure 1 displays two brain maps showing the distribution of Fe and Cu in the brain. The top panel shows the Fe concentration (log scale) and the bottom panel shows the Cu concentration (log scale). Both panels include a color scale bar and a small inset map of the brain showing the location of the region of interest.

Fe
Control Level 57

Fe concentration (mg/g)

Cu
Control Level 57

Cu concentration (mg/g)

0.20 cm

Fe
Control Level 05
Image 1: 100 μ m
Fe concentration (ppm) 0.0 10.0 20.0

Cu
Control Level 05
Image 2: 100 μ m
Cu concentration (ppm) 0.0 1.0 2.0

Plate 31

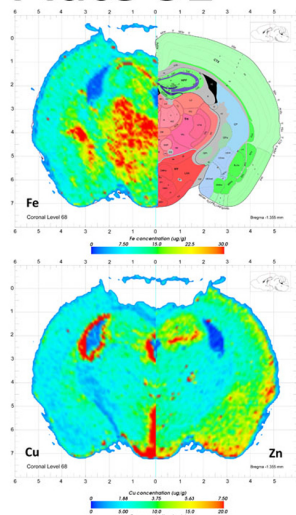


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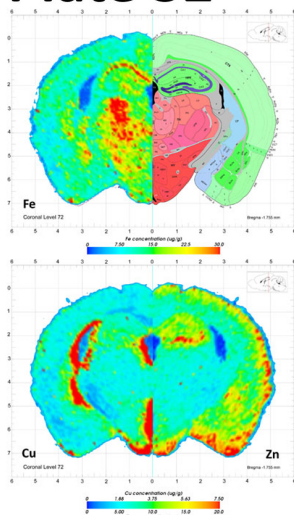


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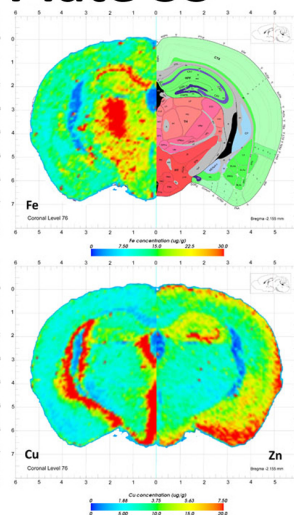


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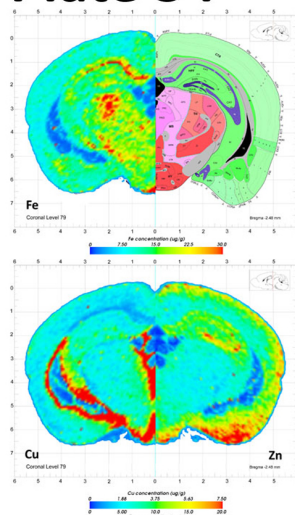


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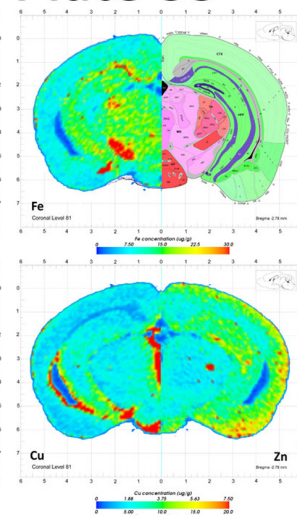


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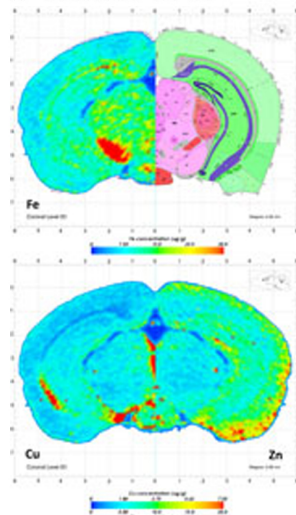


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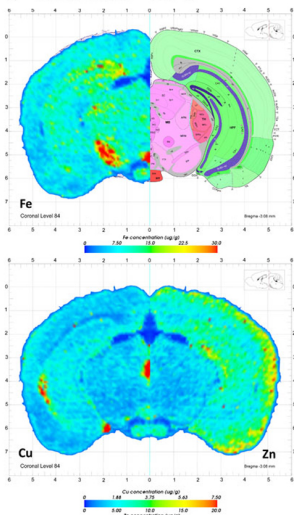


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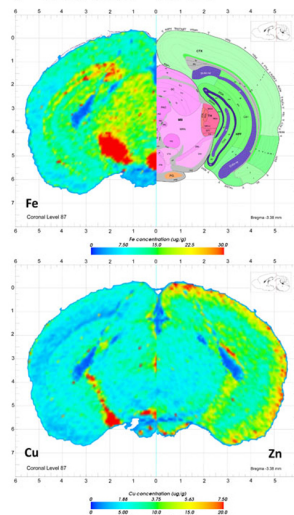


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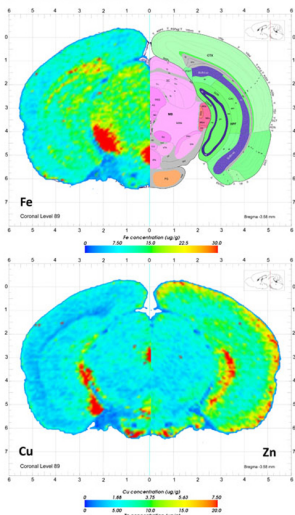


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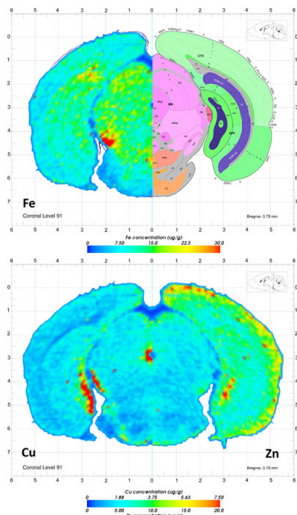


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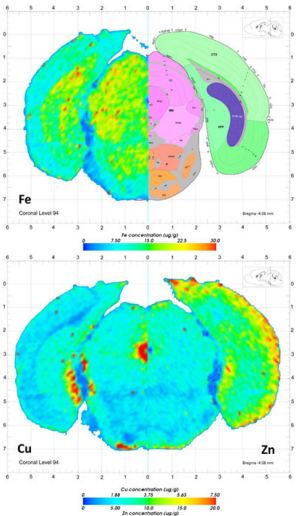


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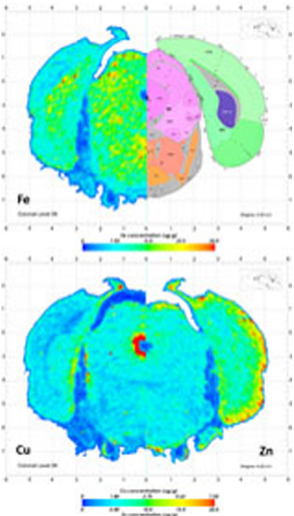


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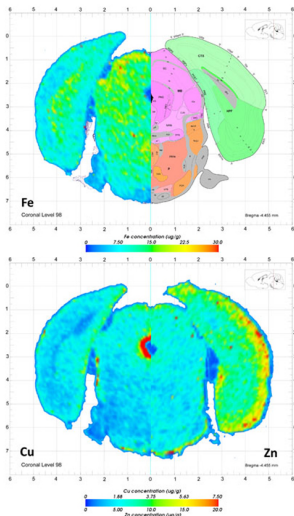


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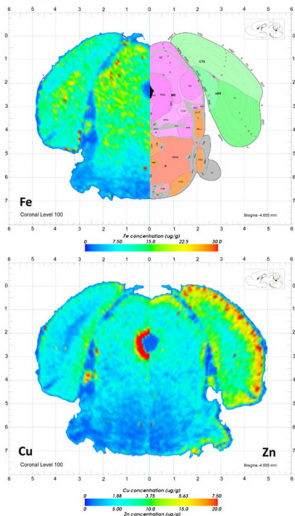


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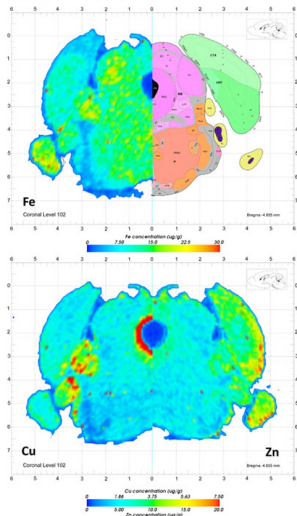
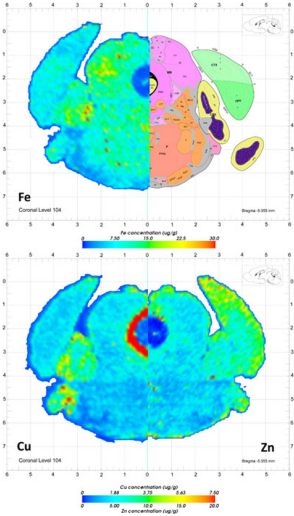


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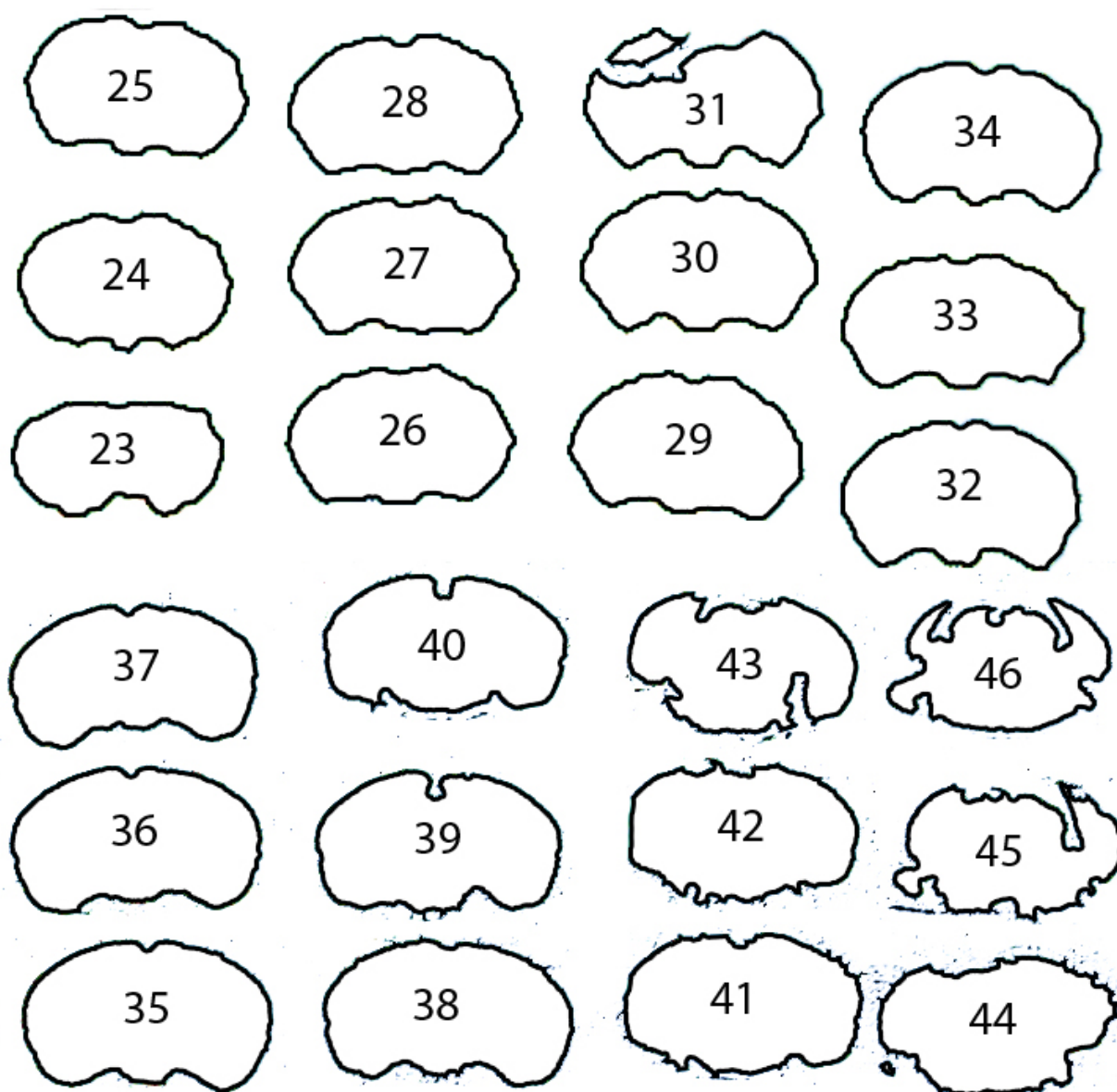
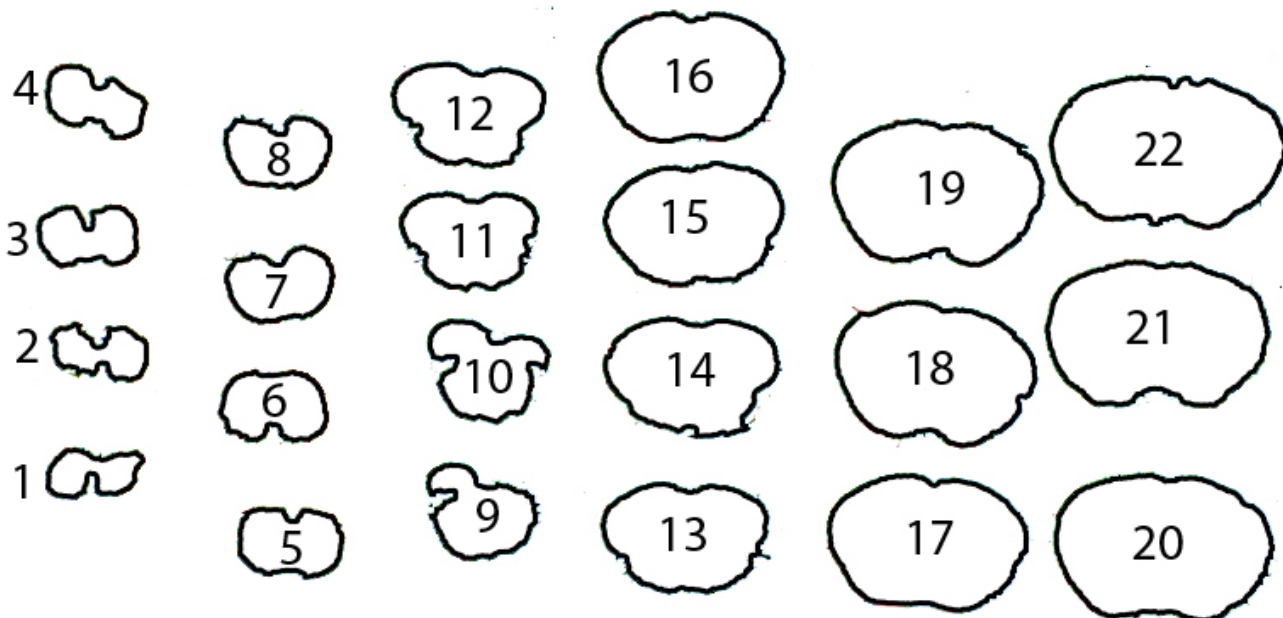


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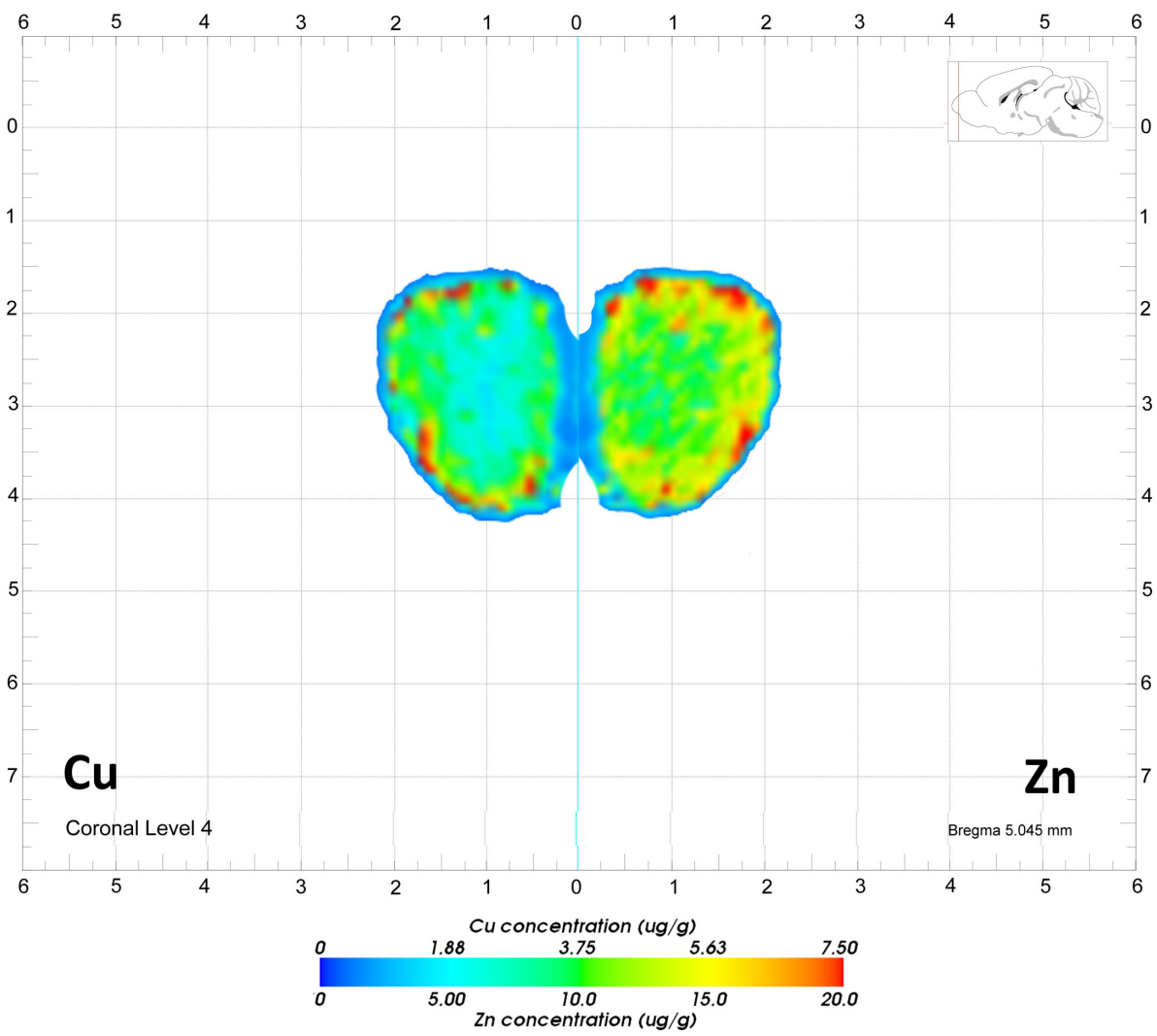
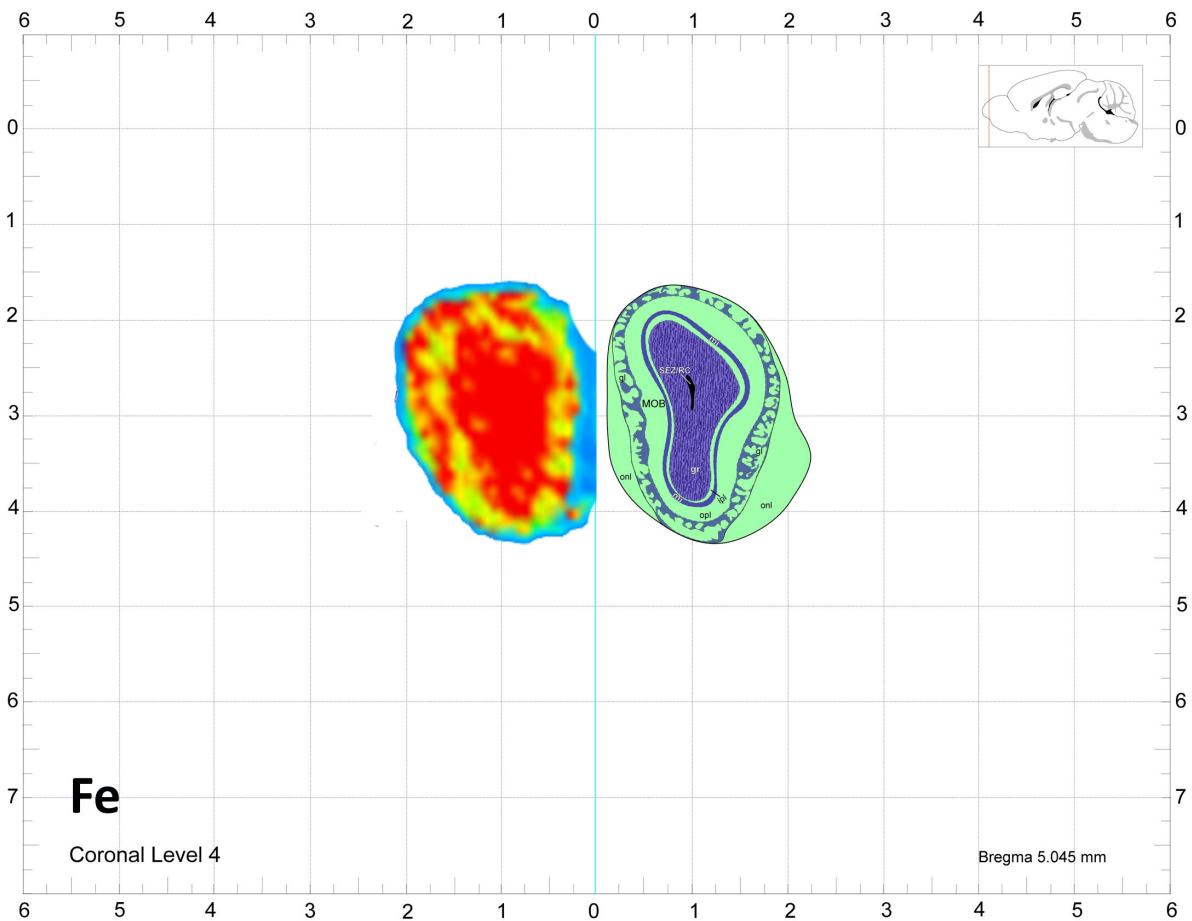


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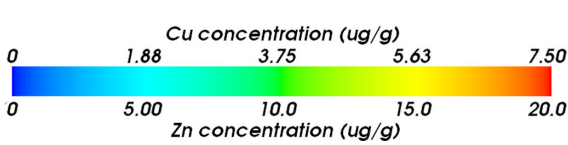
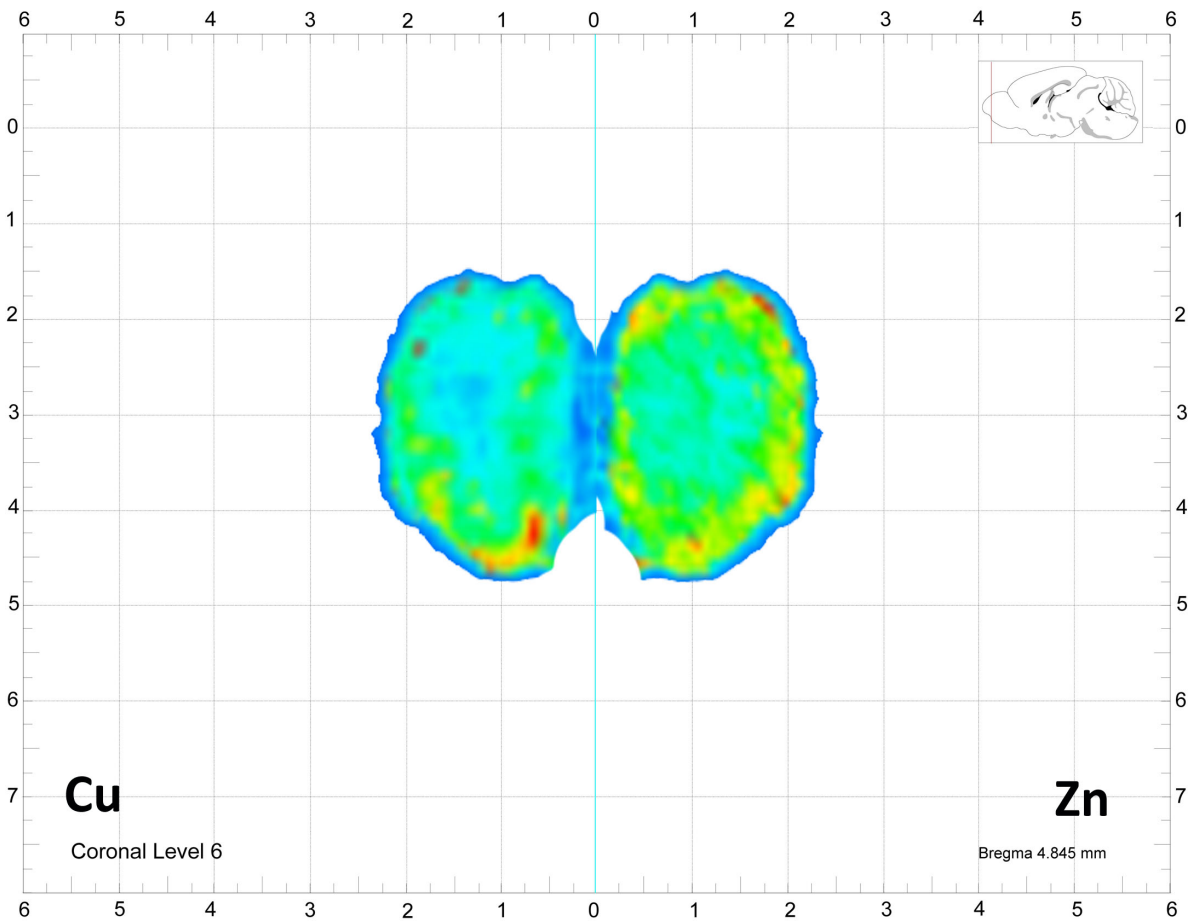
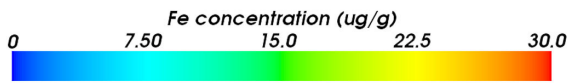
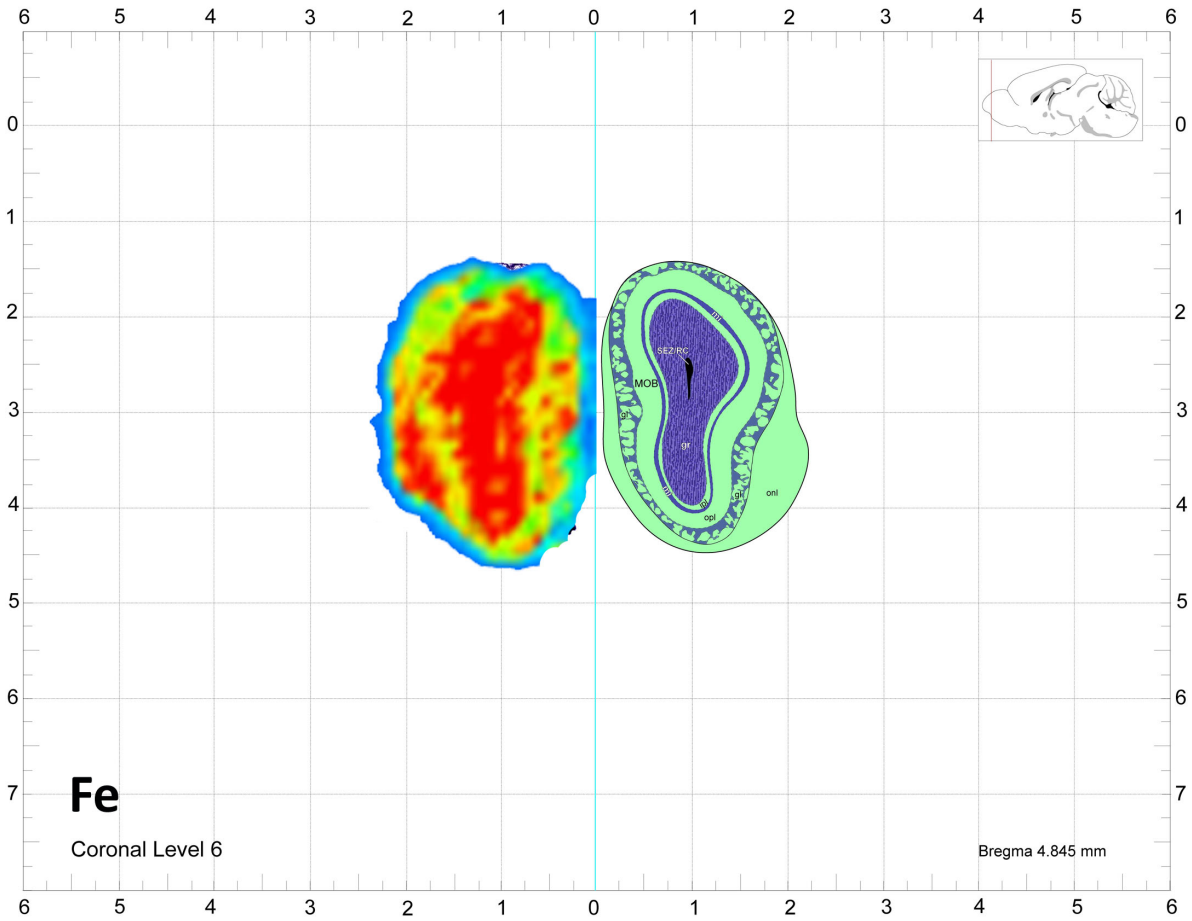


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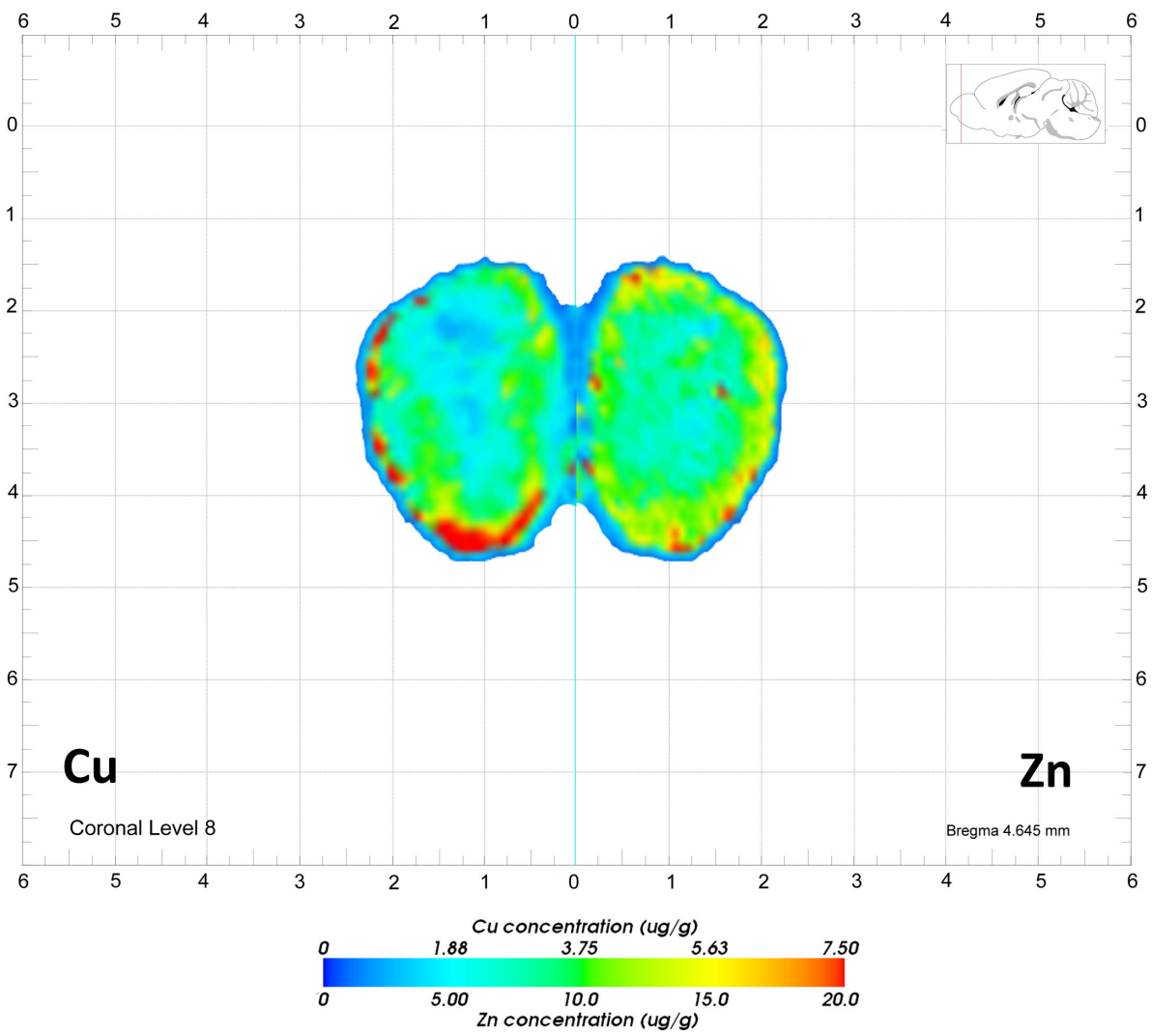
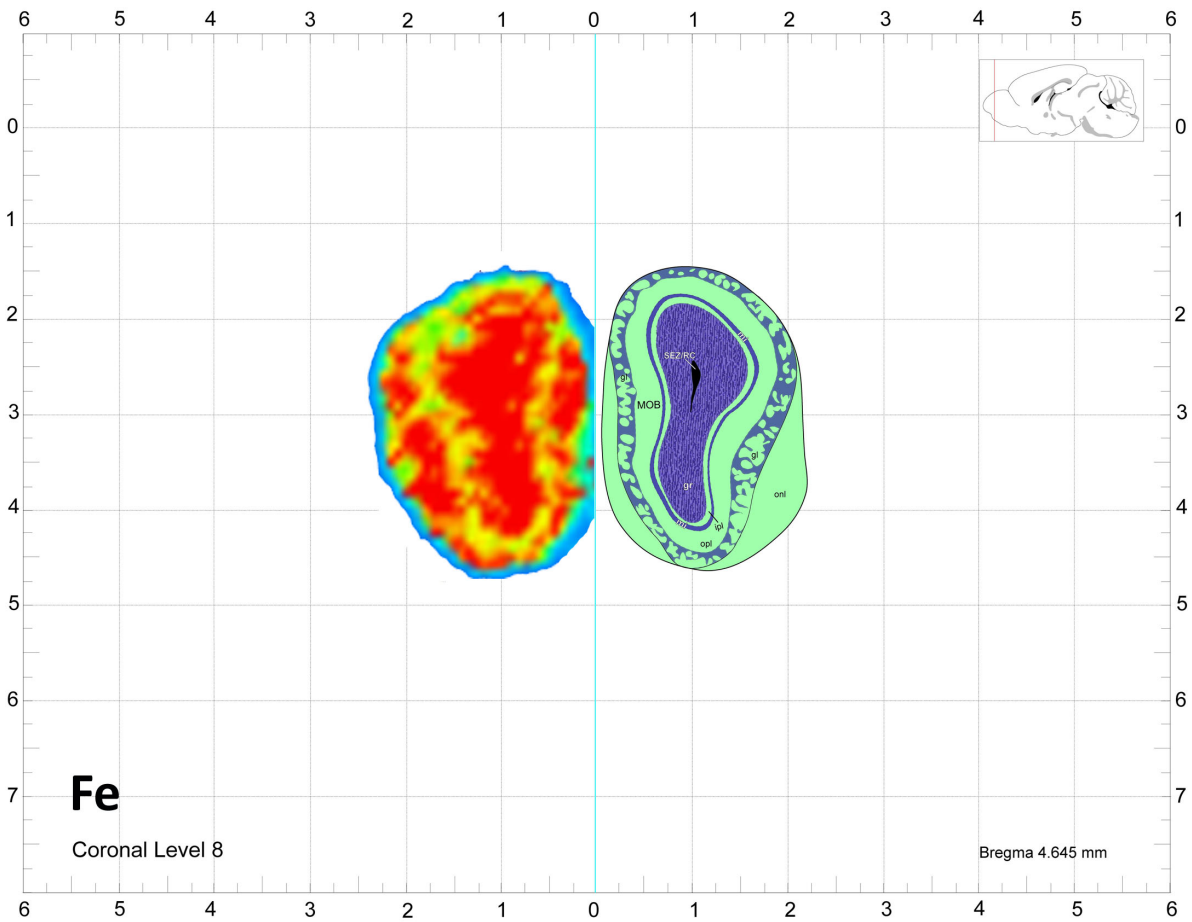


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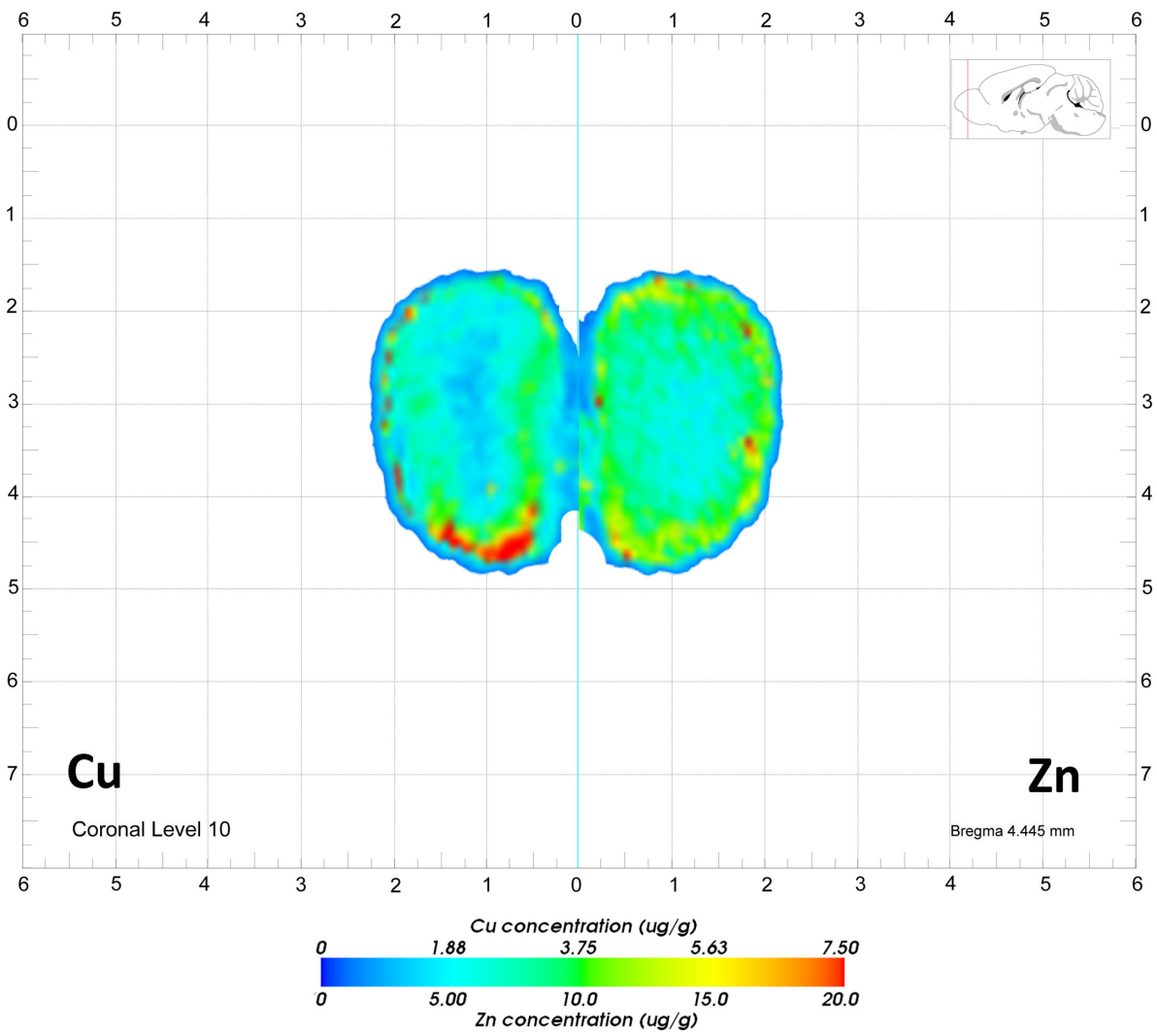
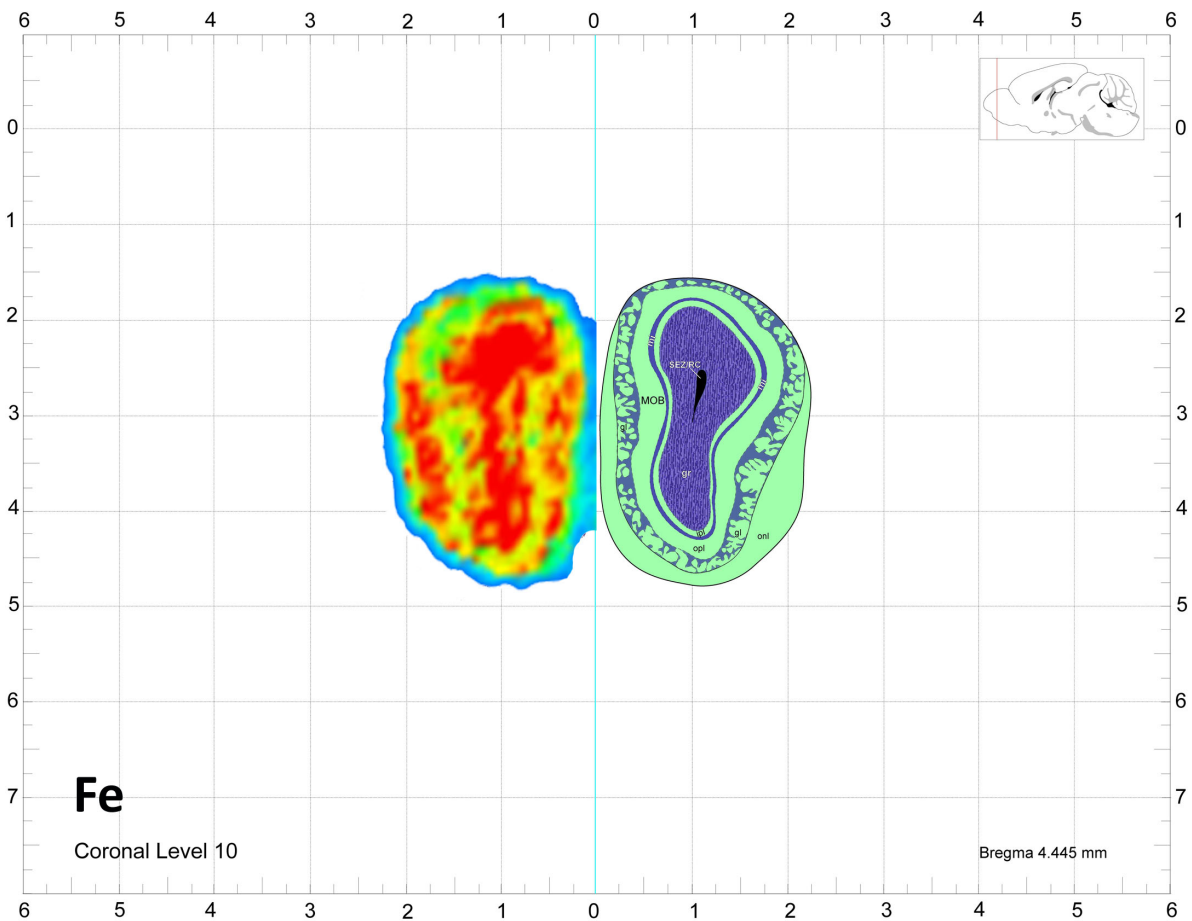


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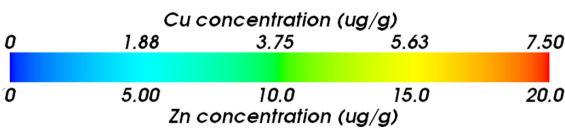
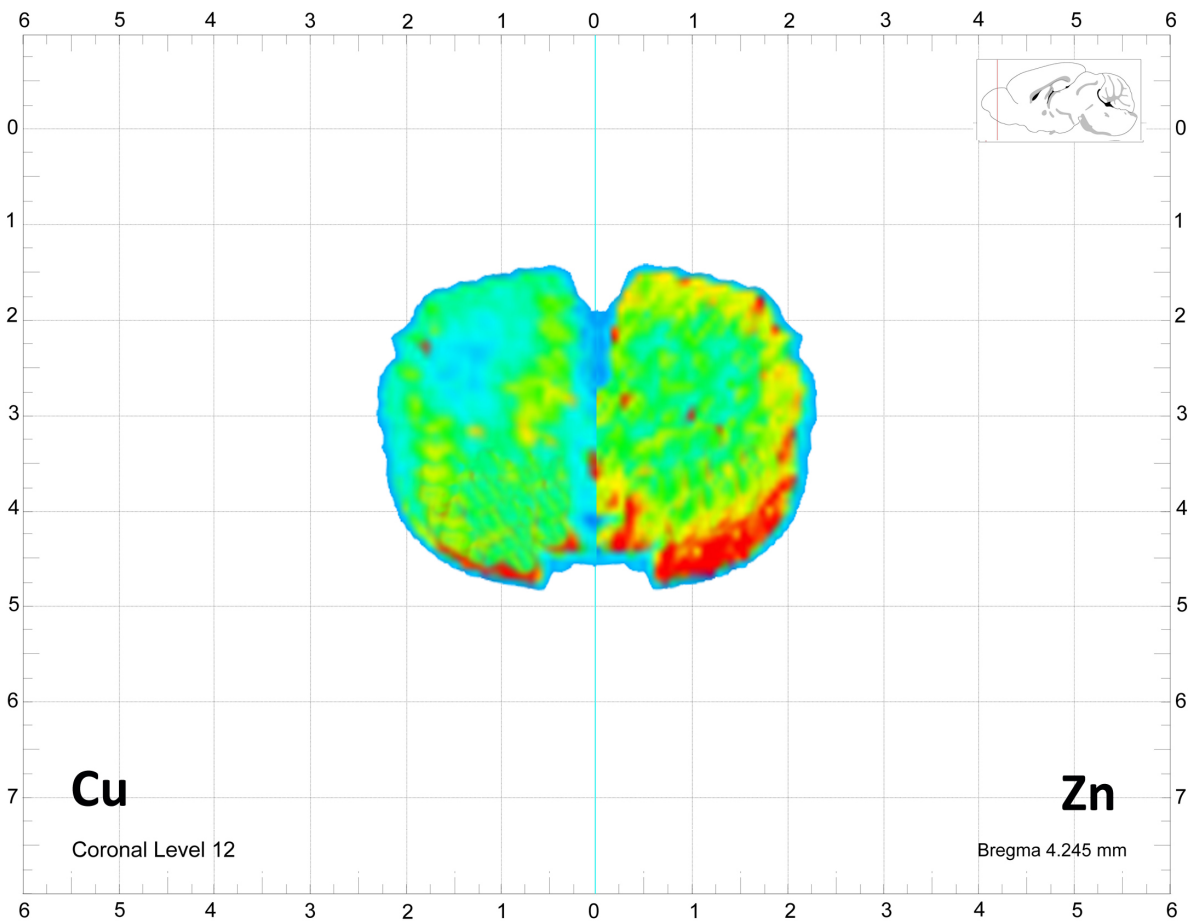
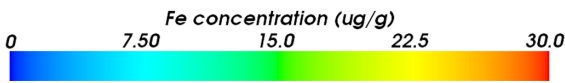
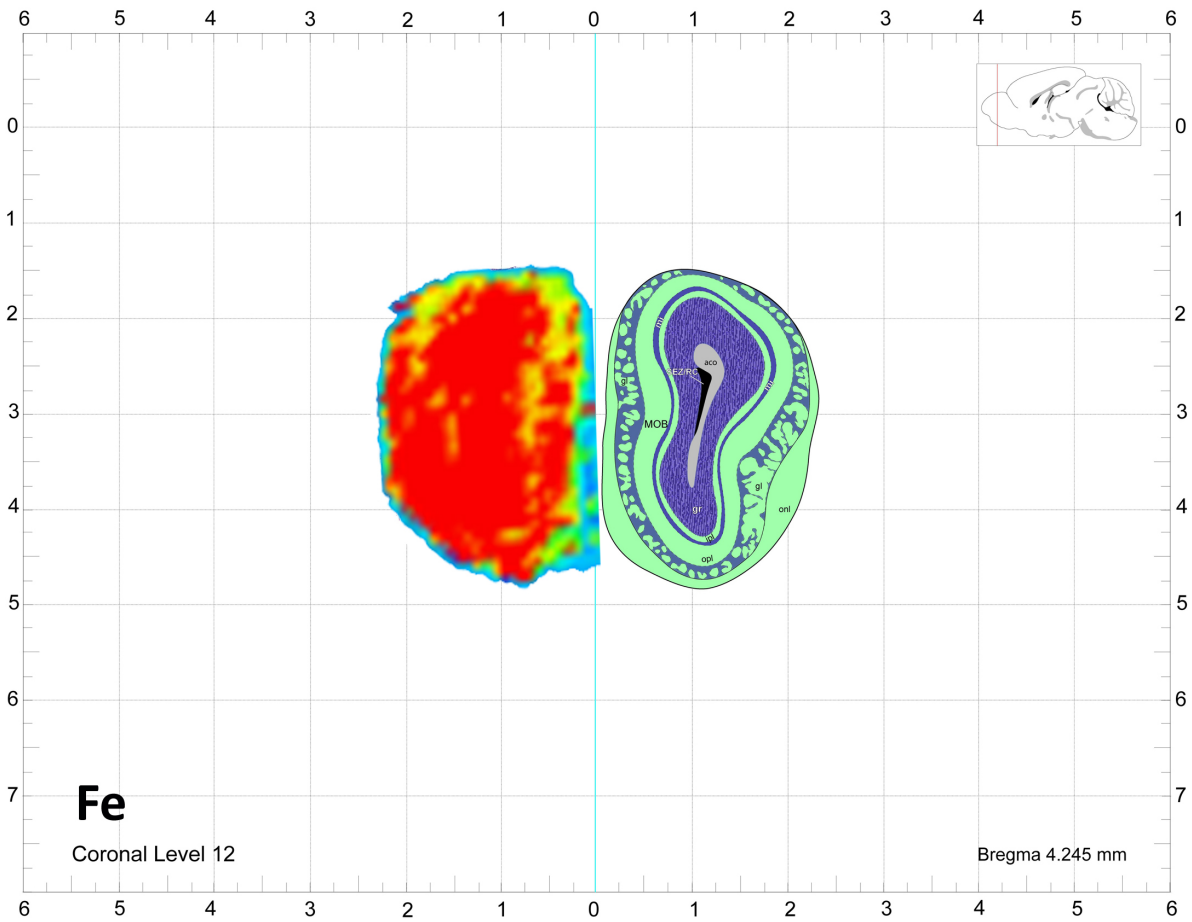


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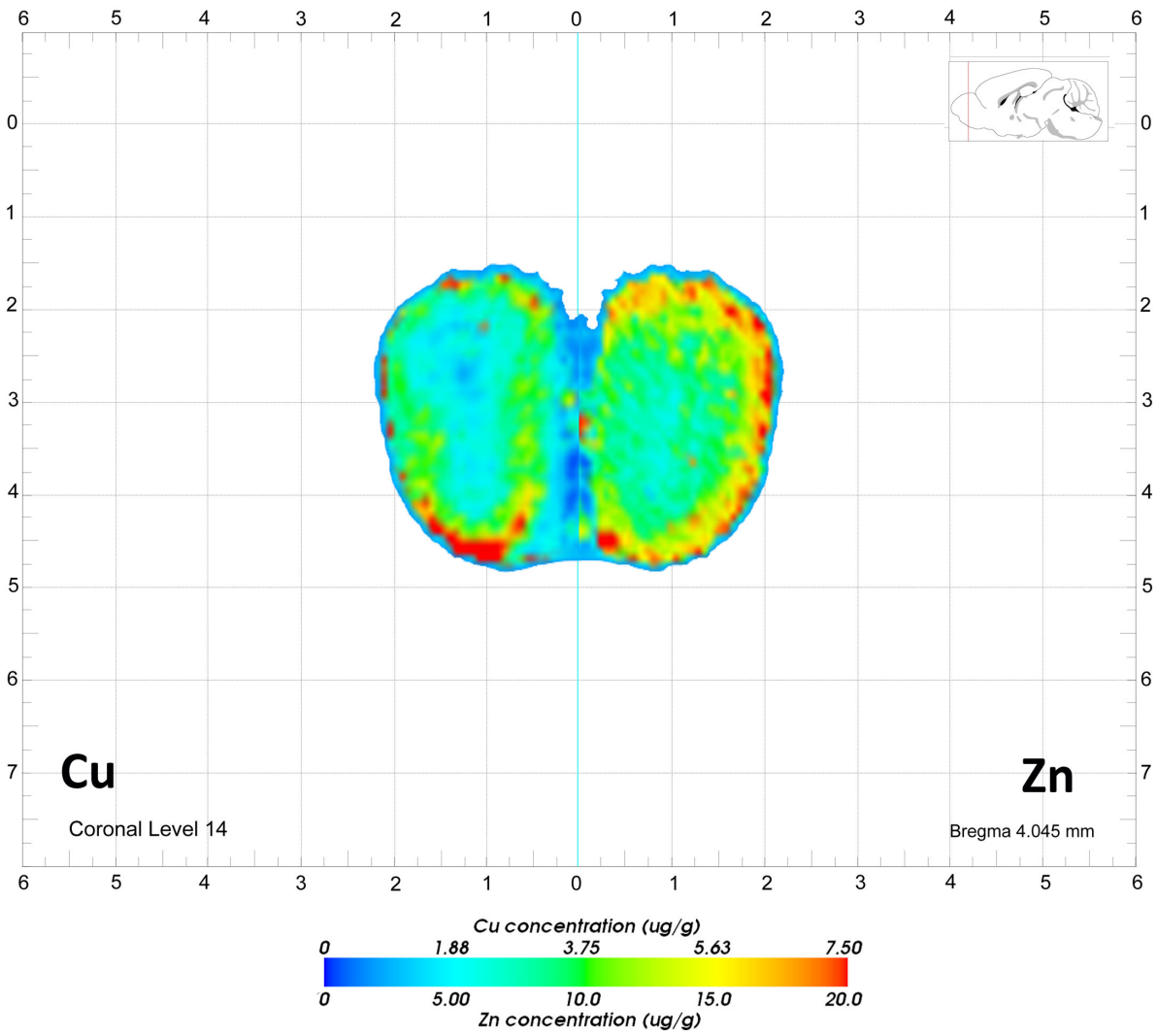
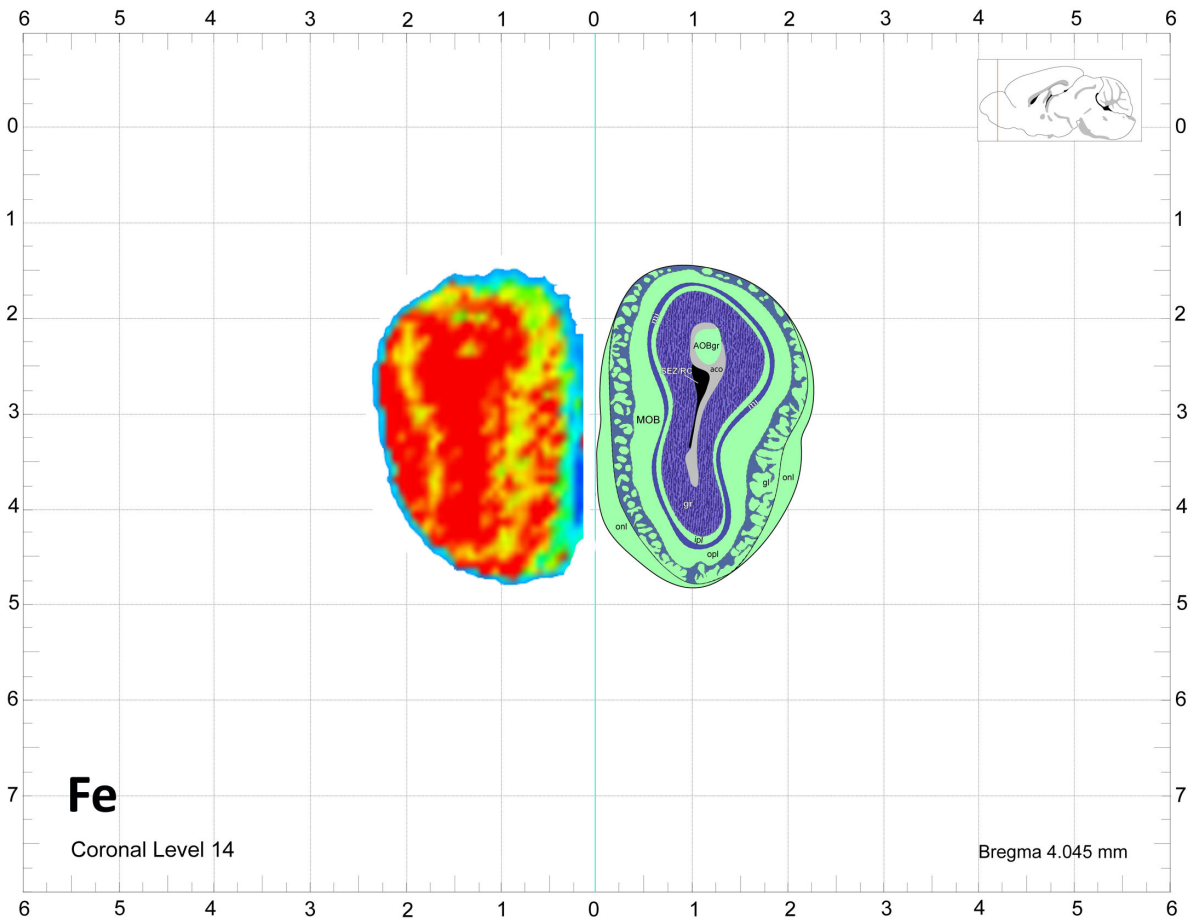


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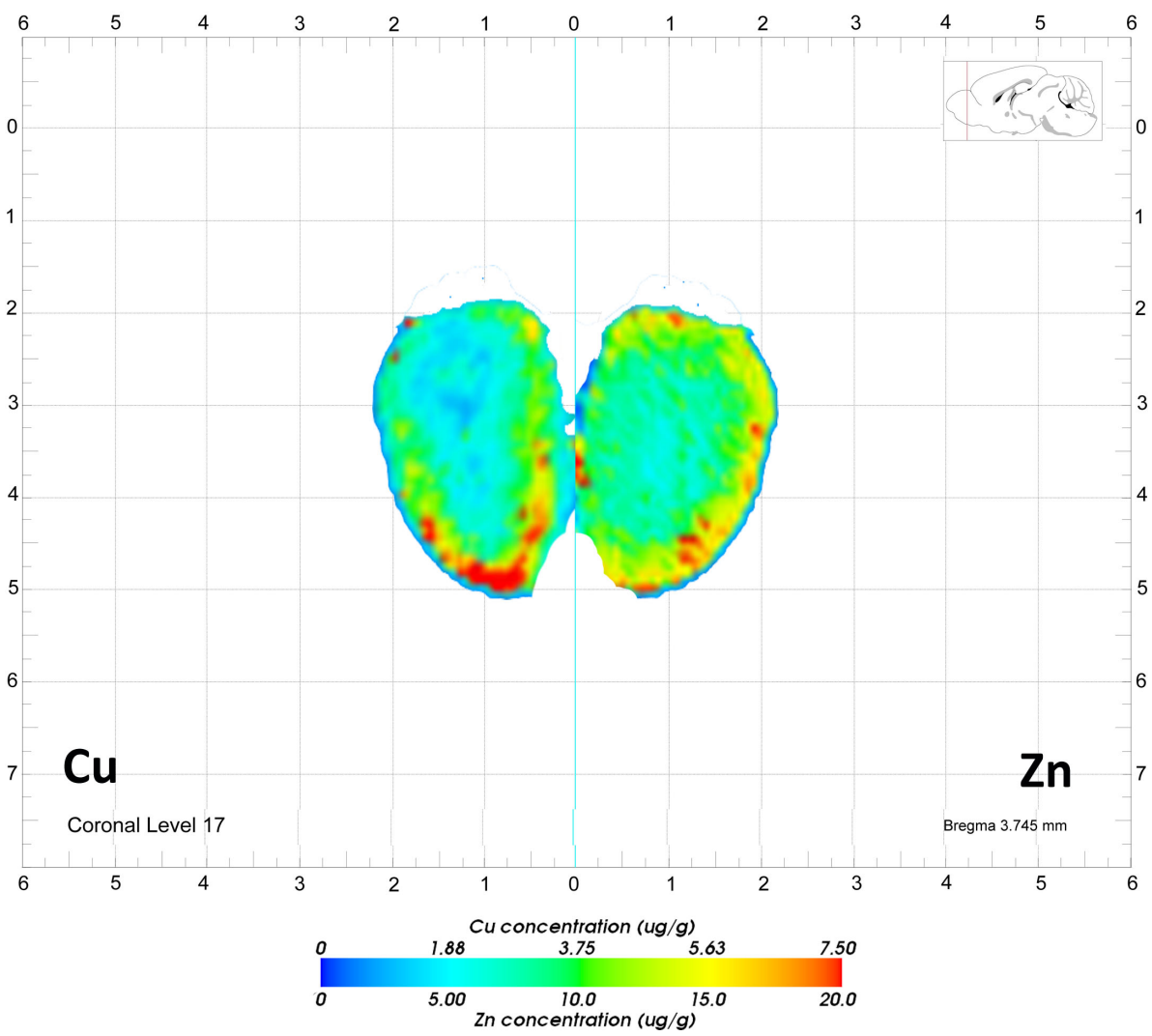
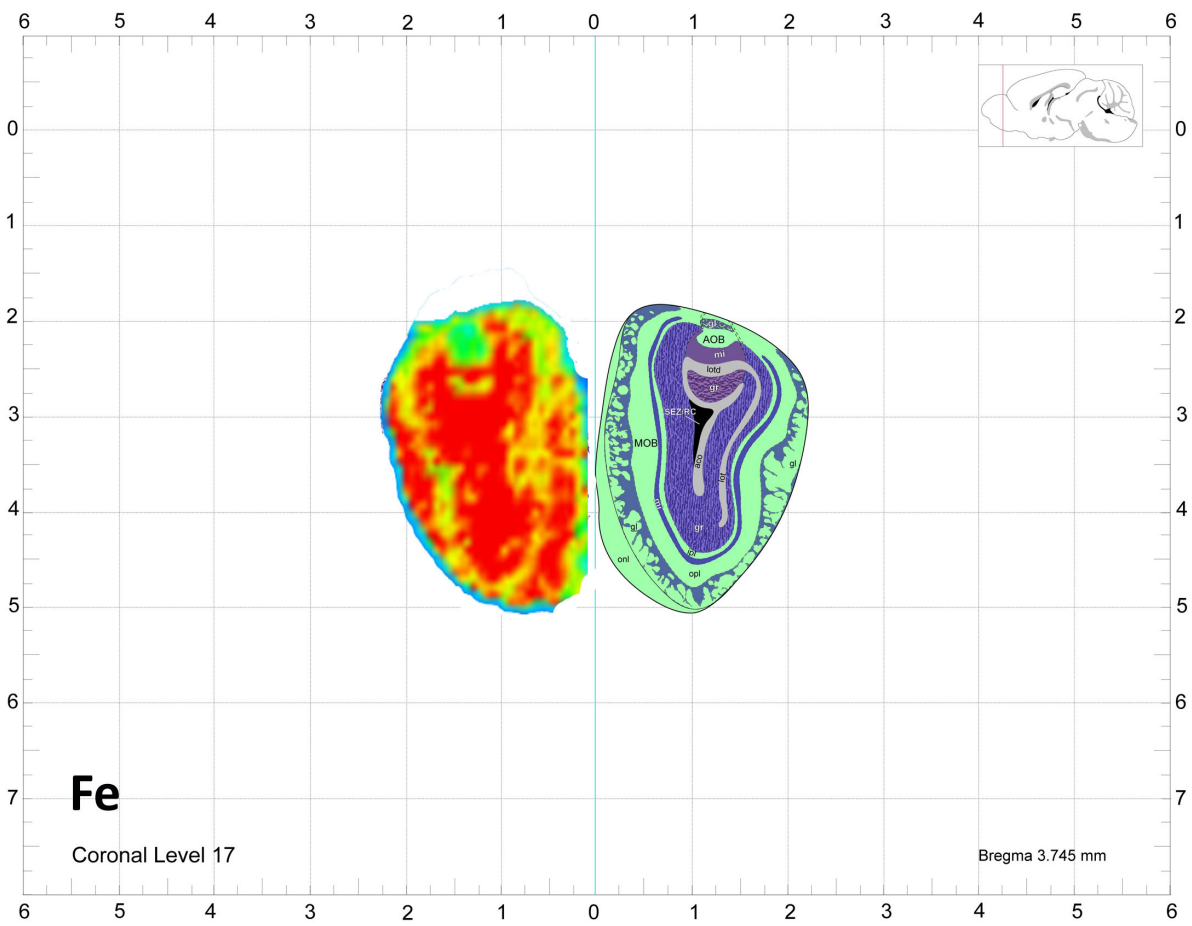


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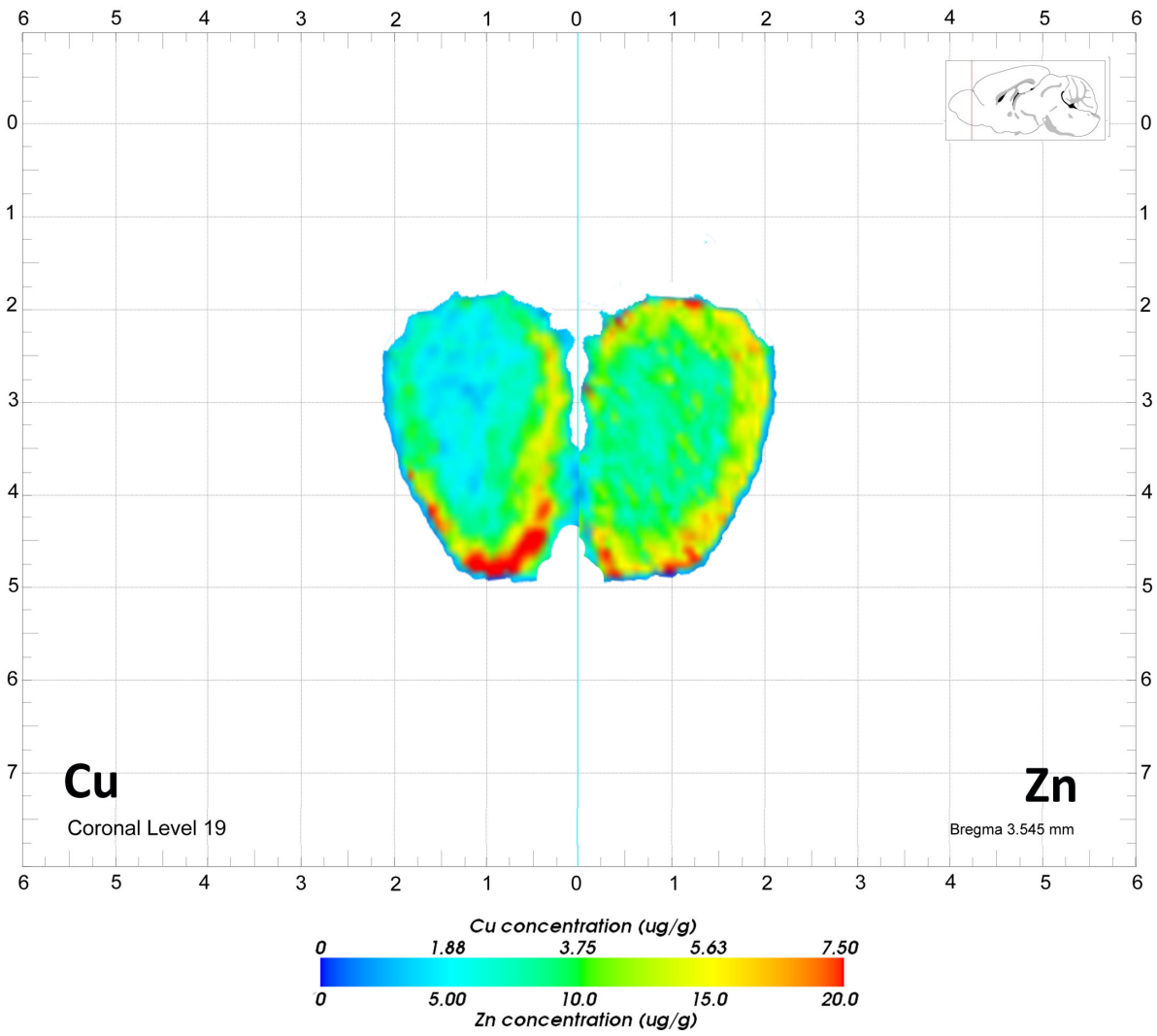
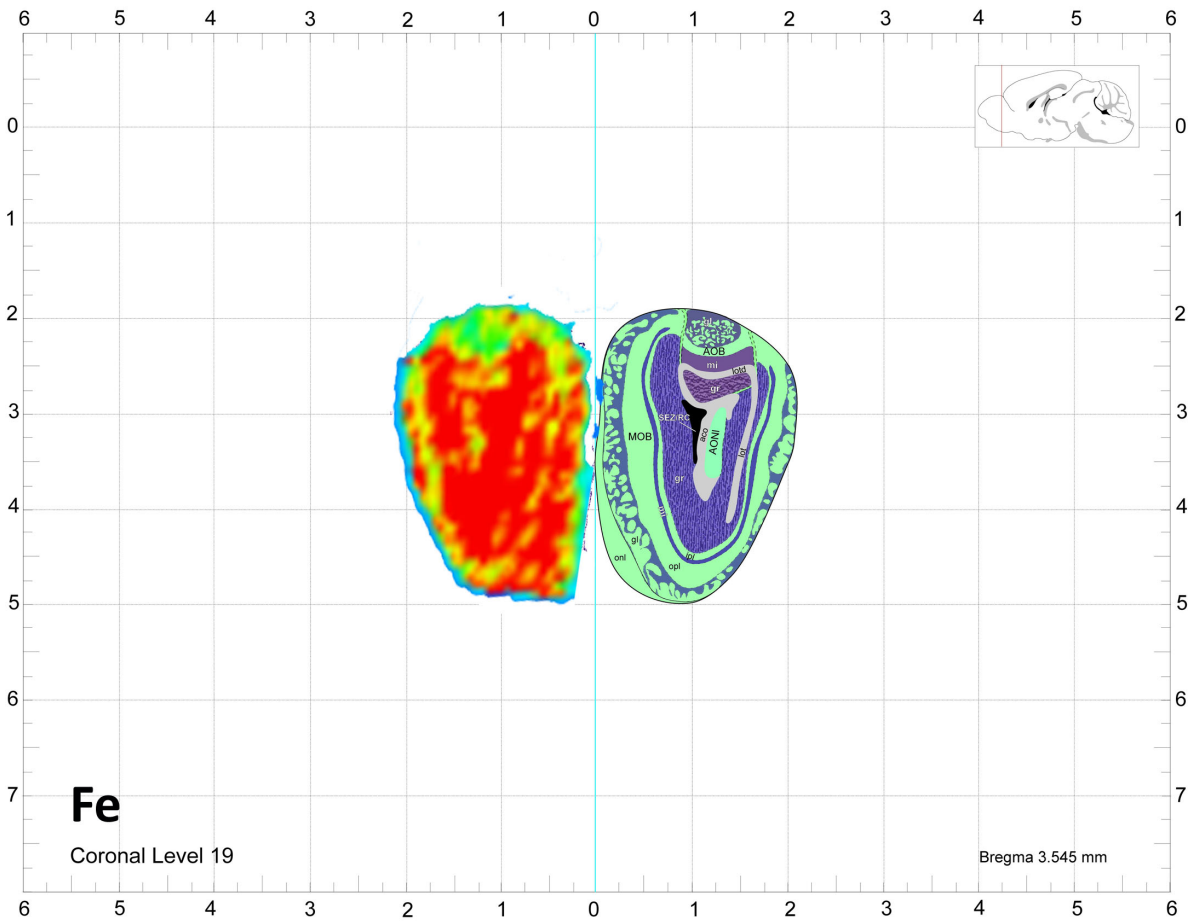


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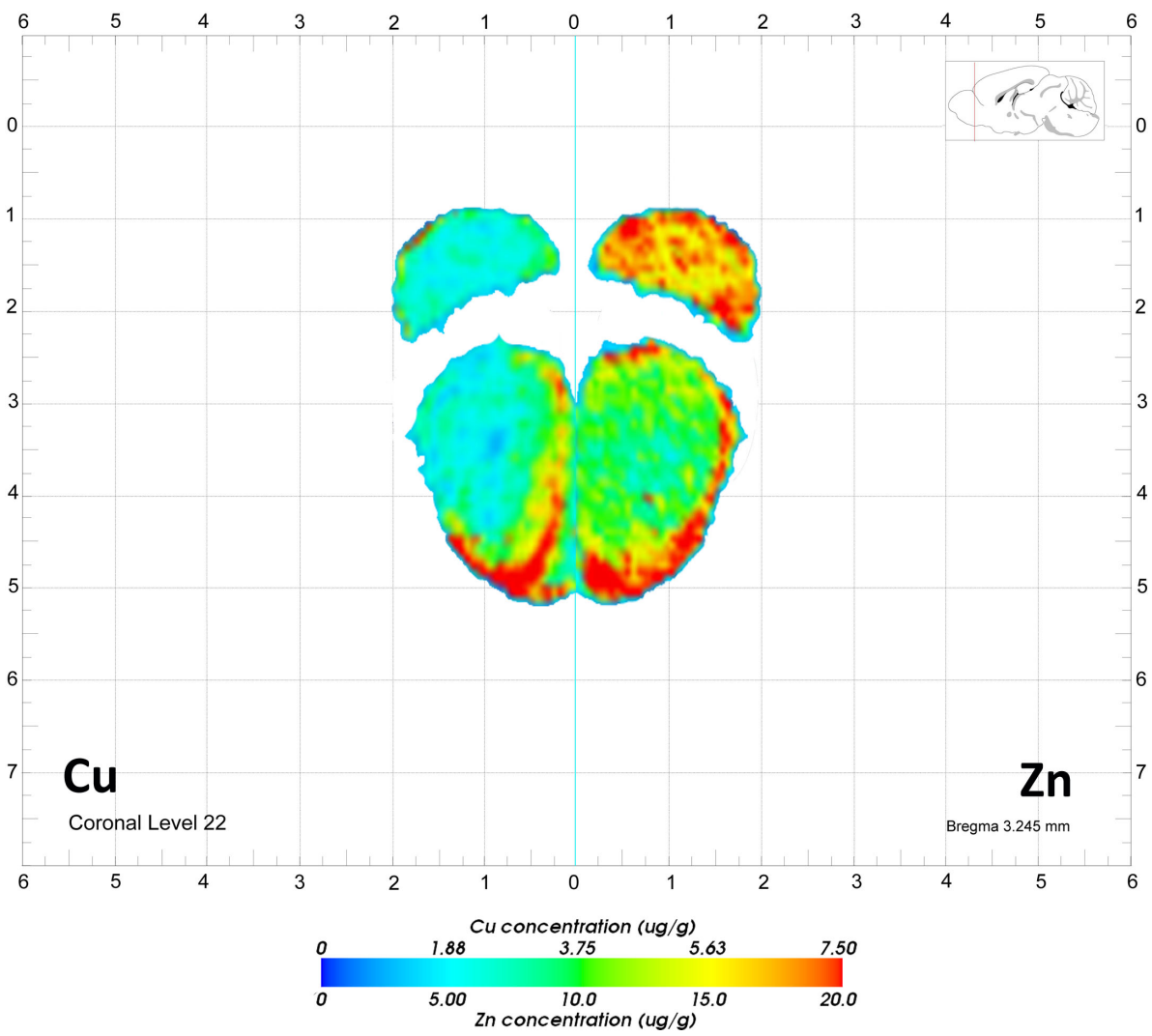
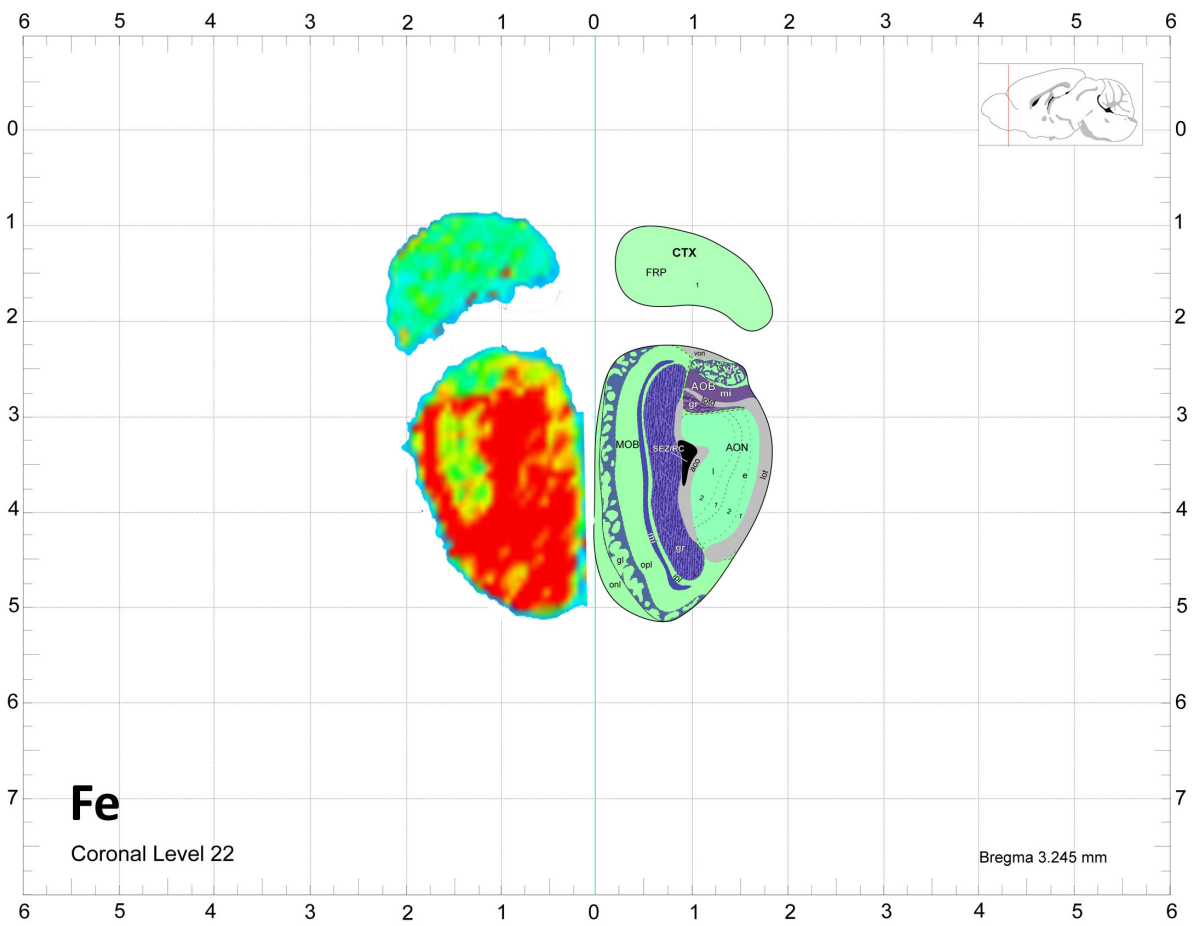


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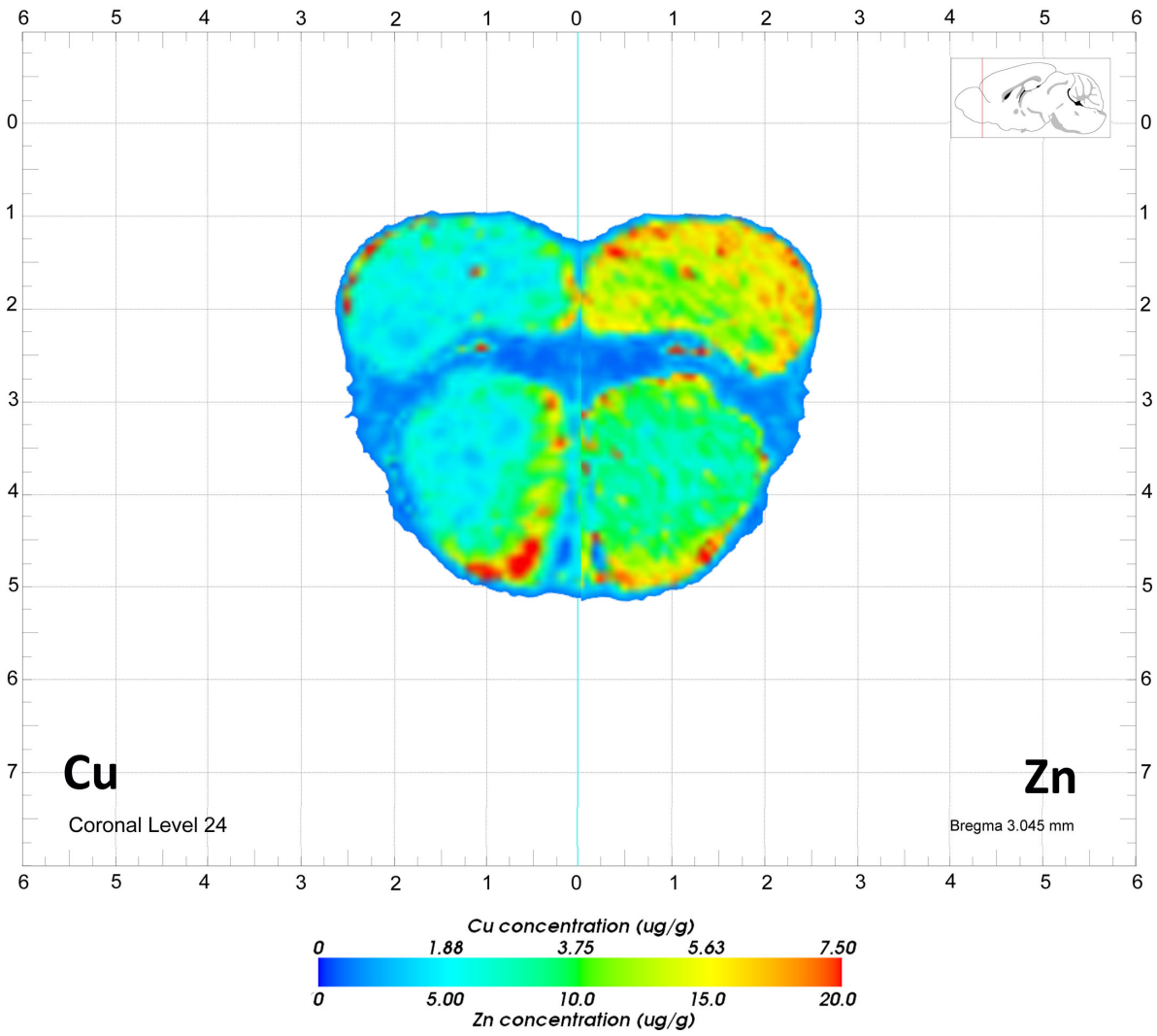
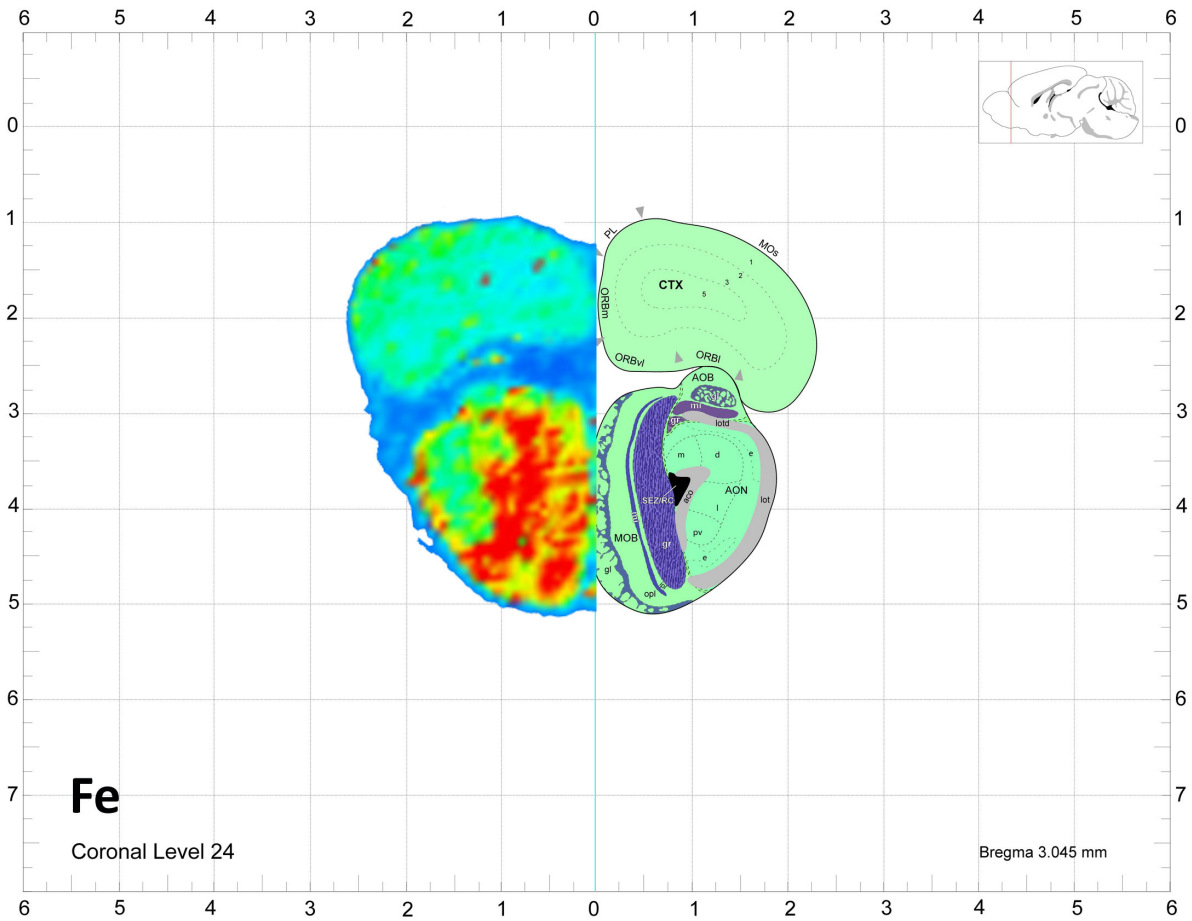


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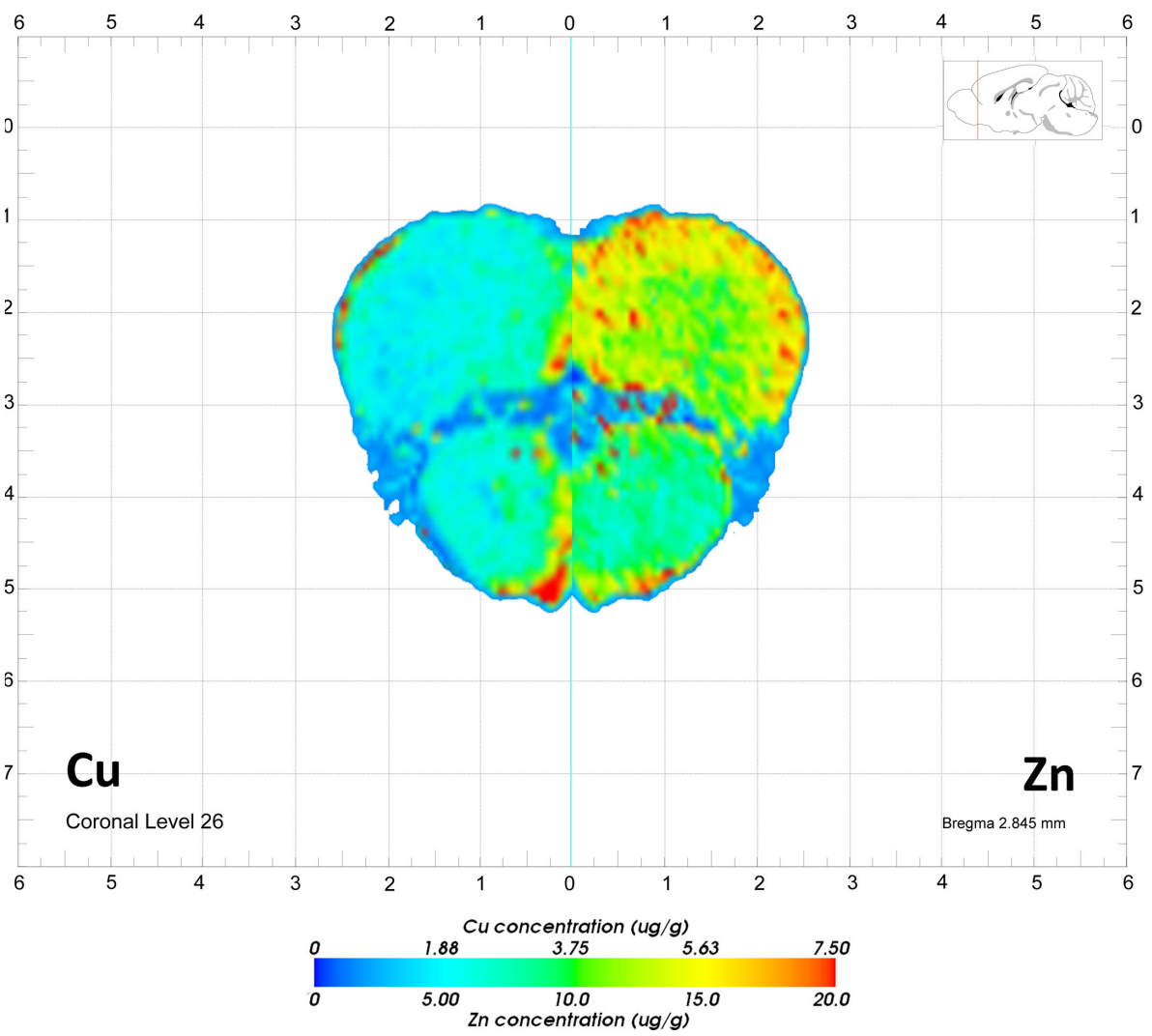
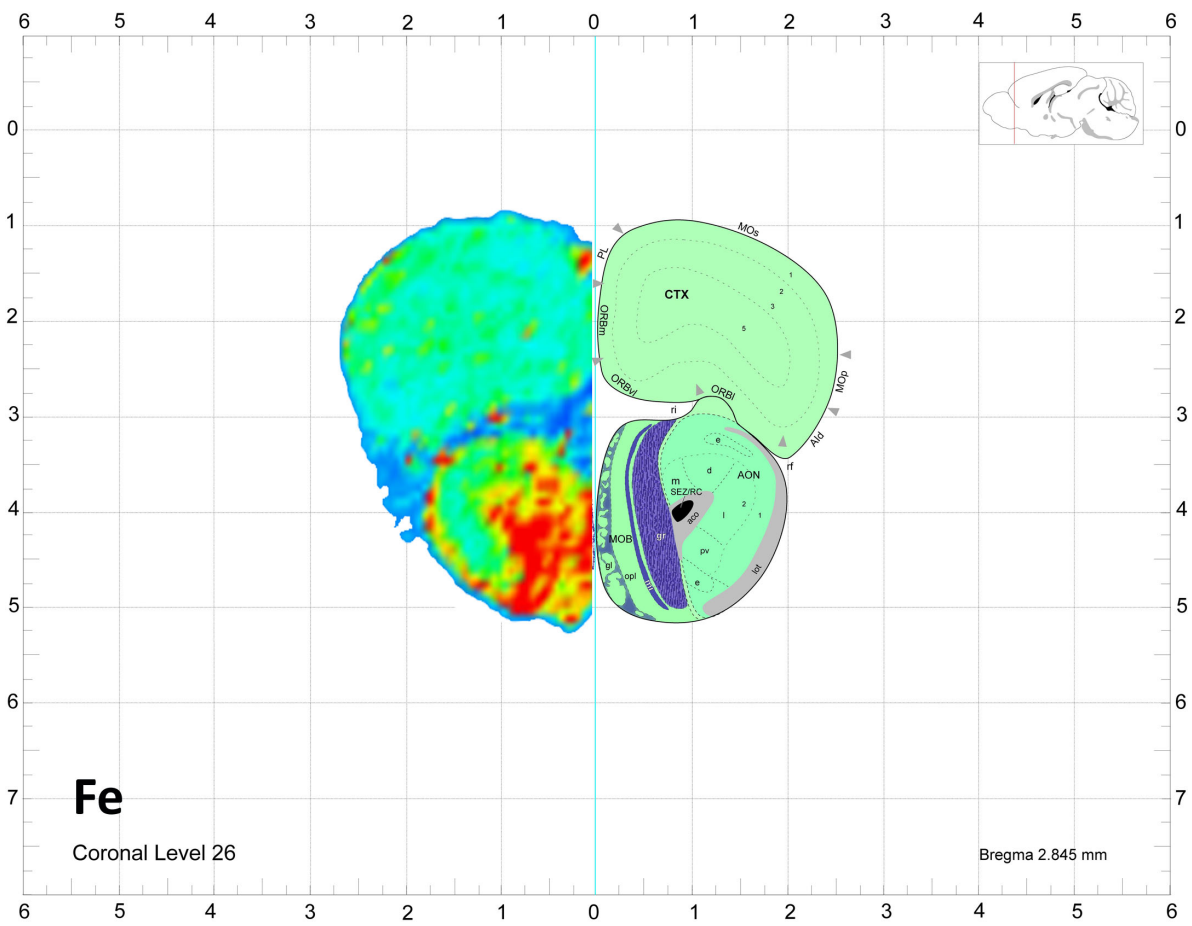


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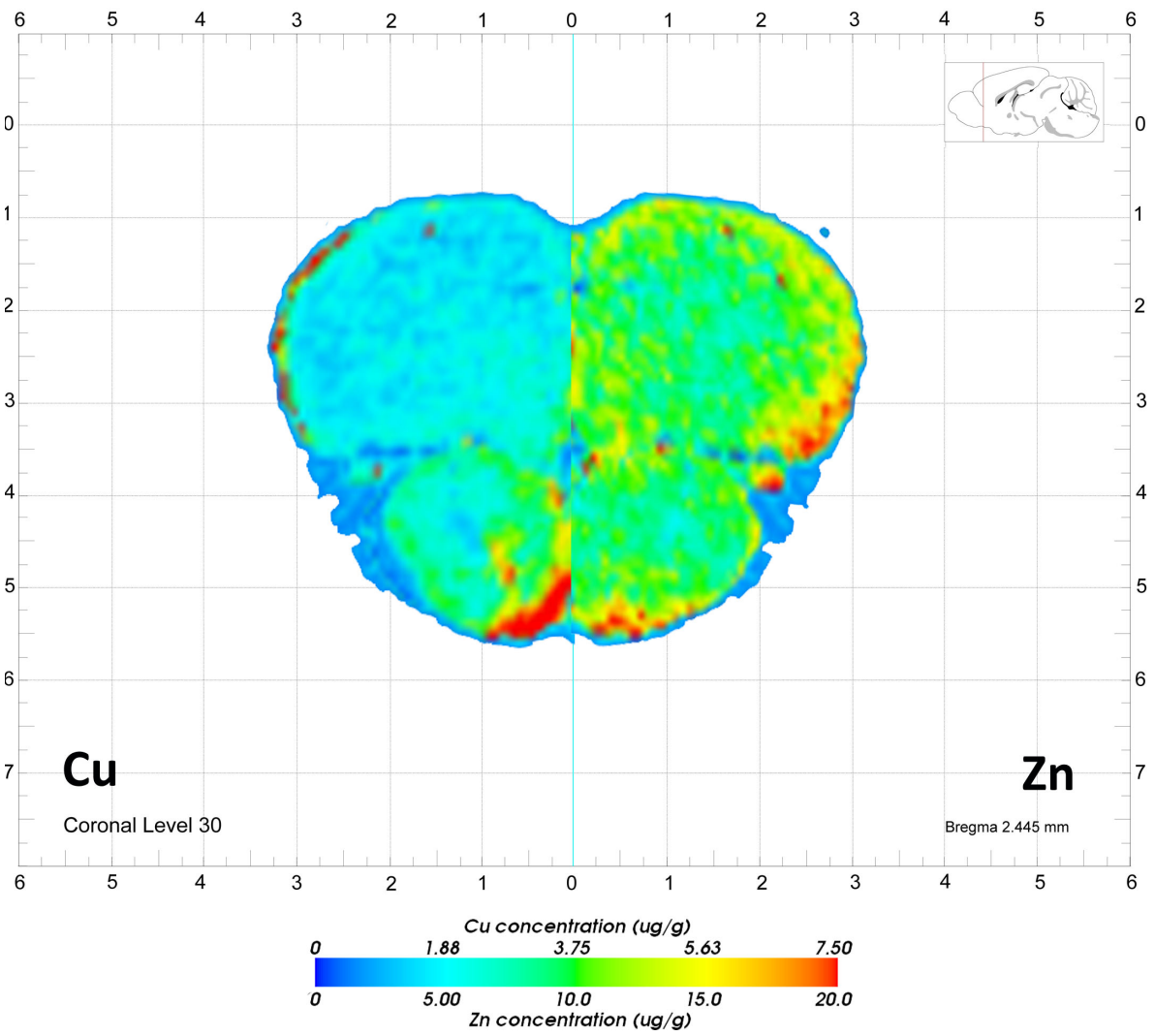
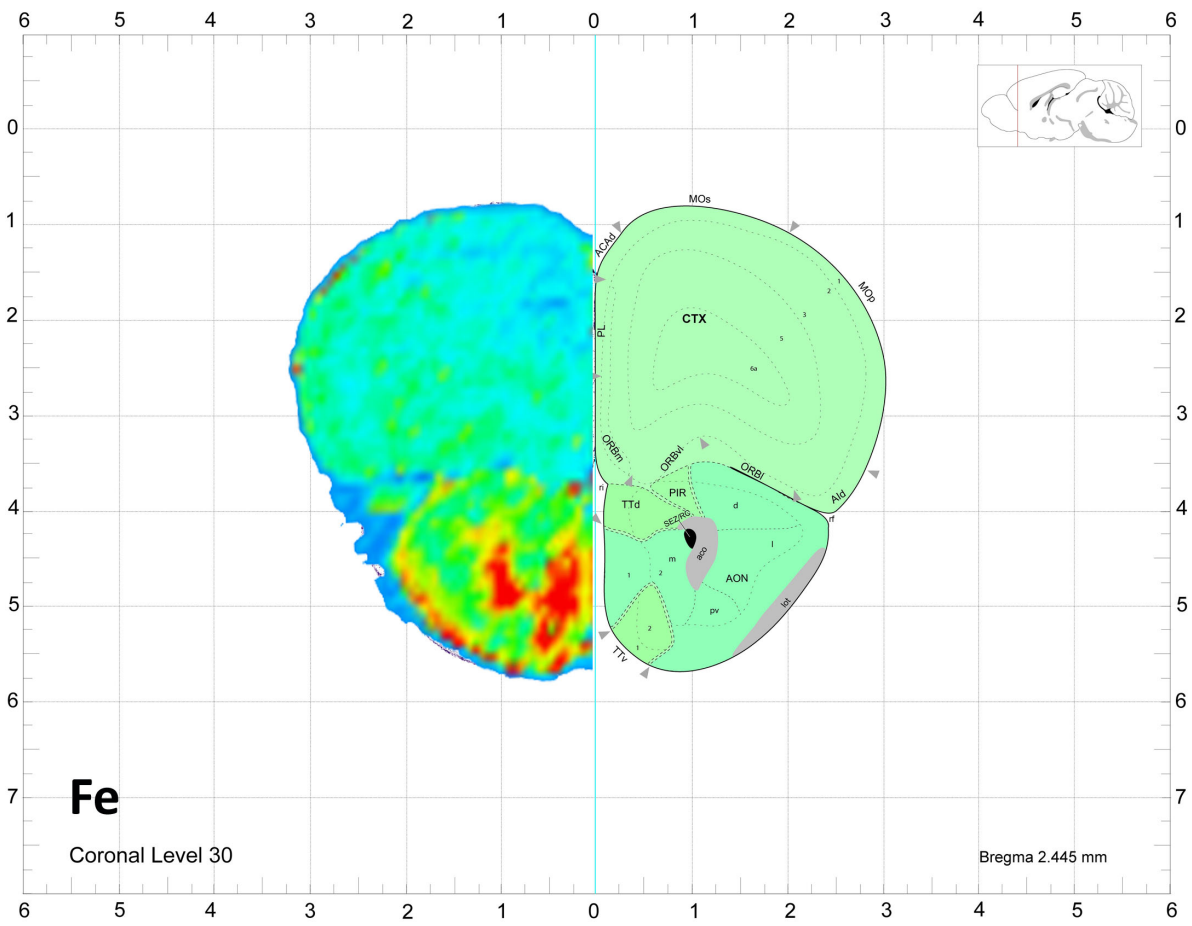


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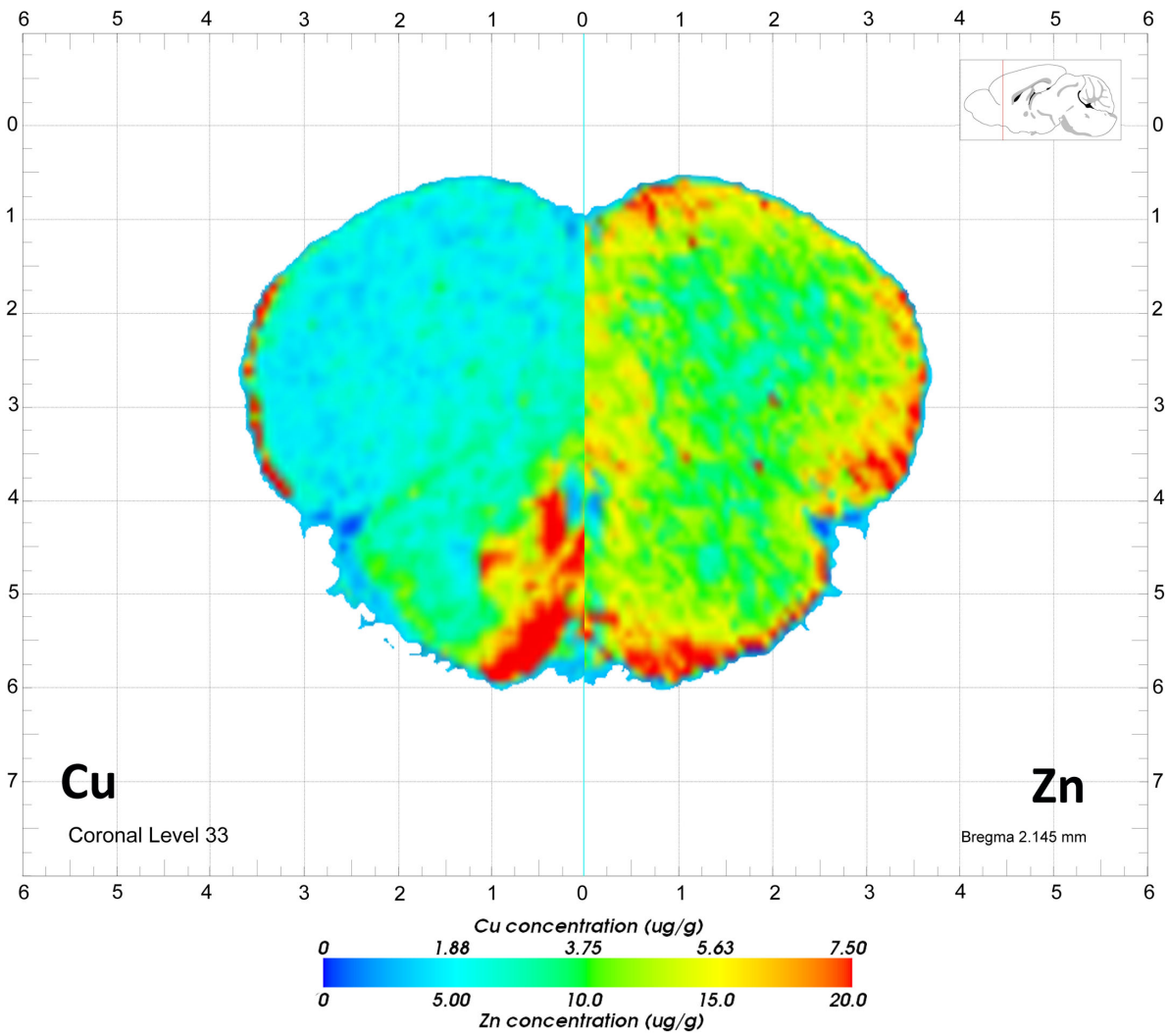
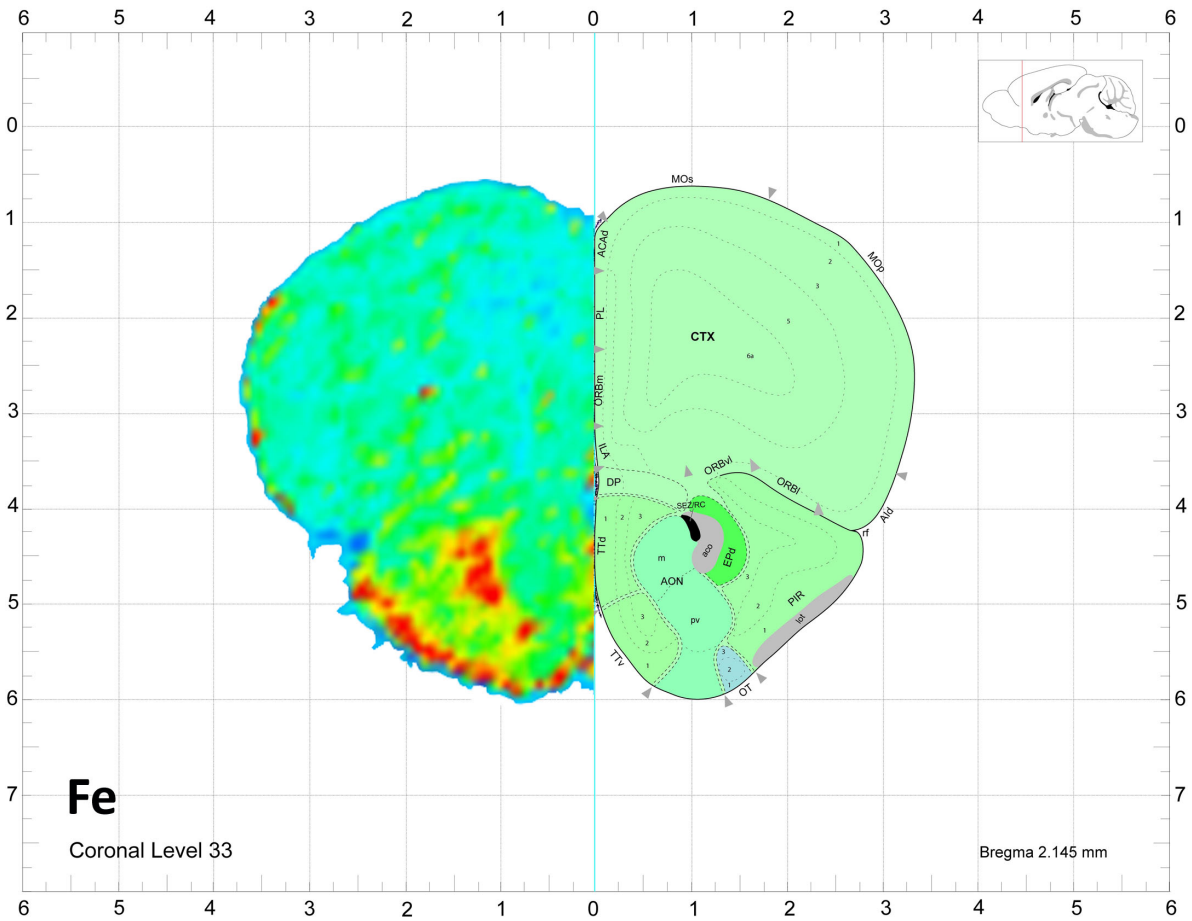


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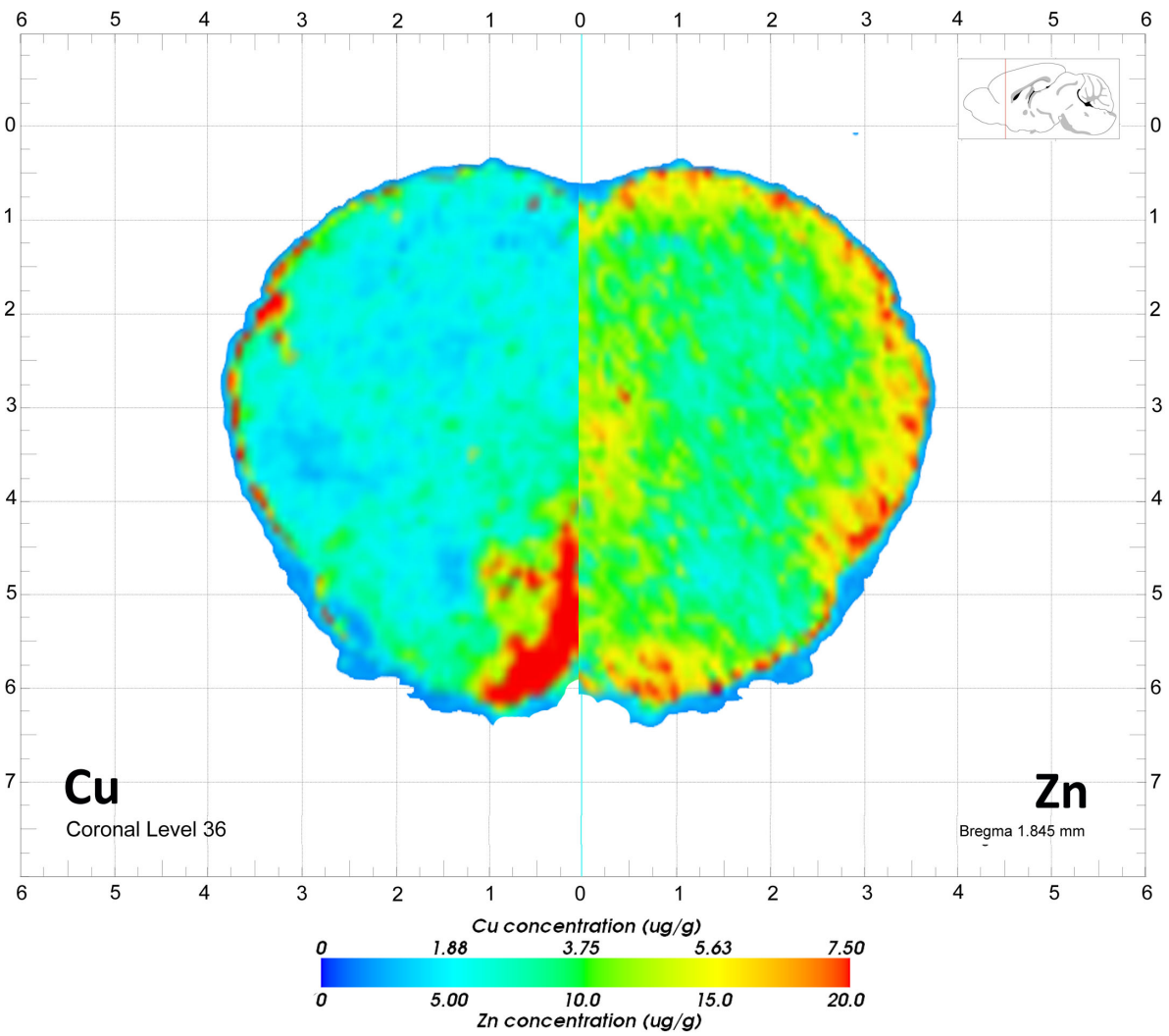
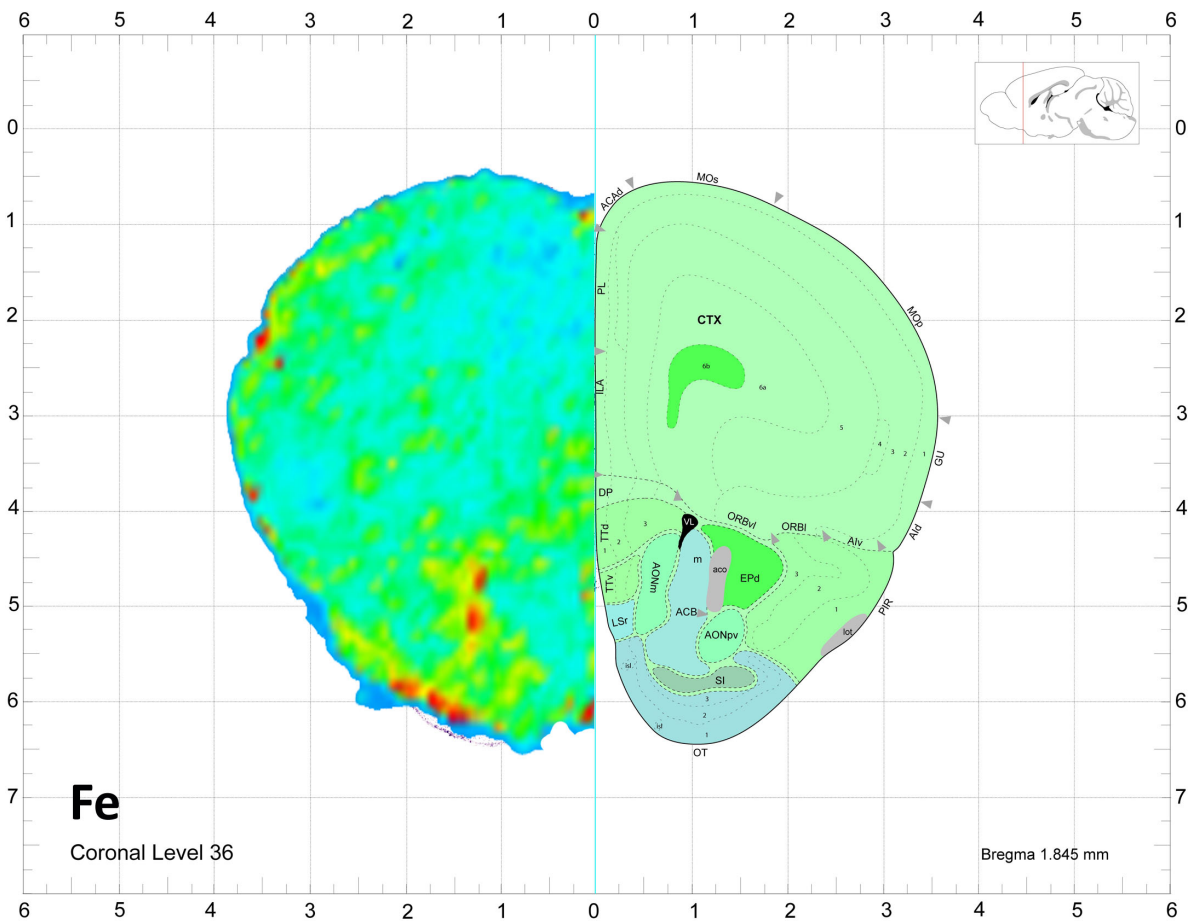


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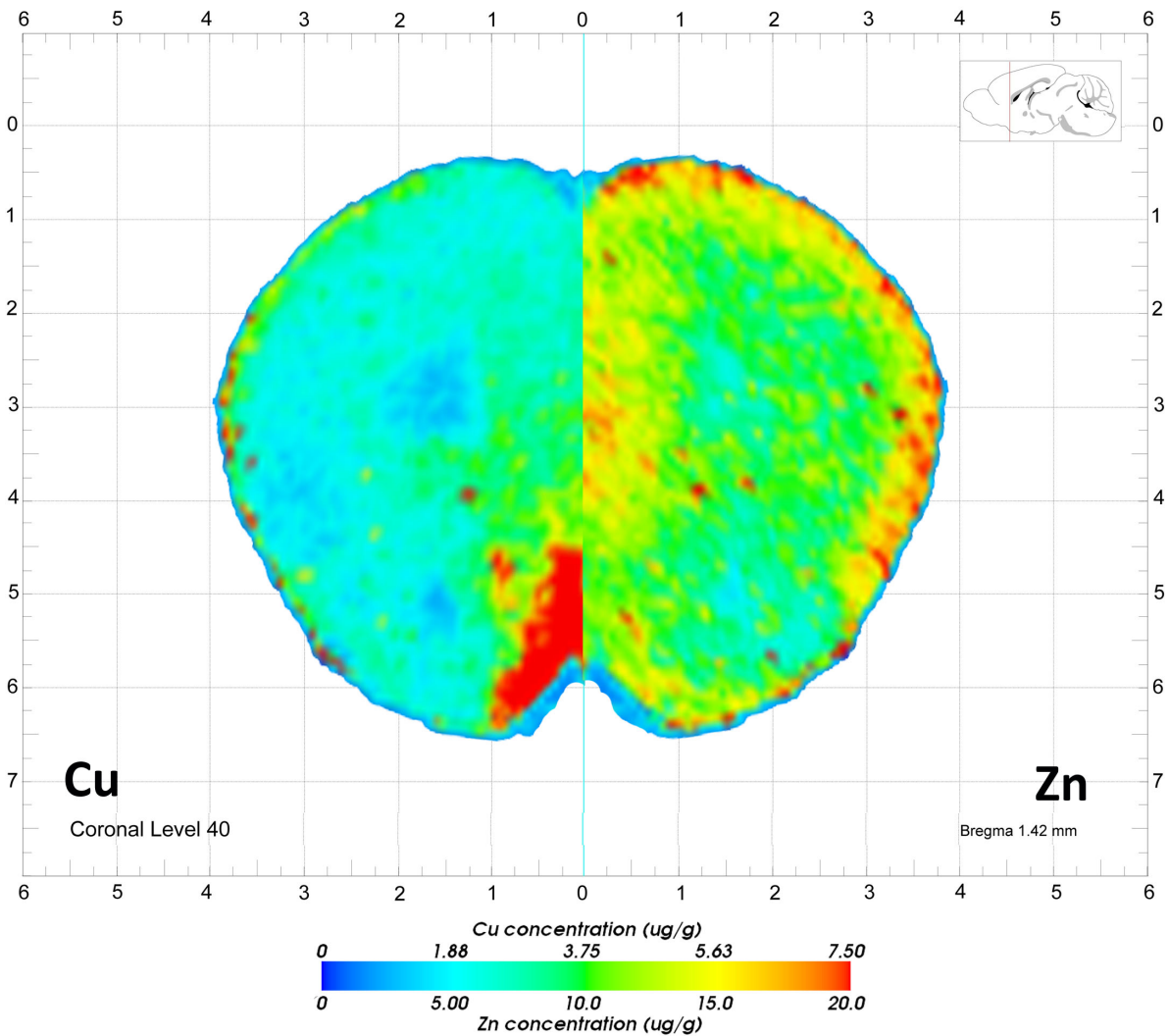
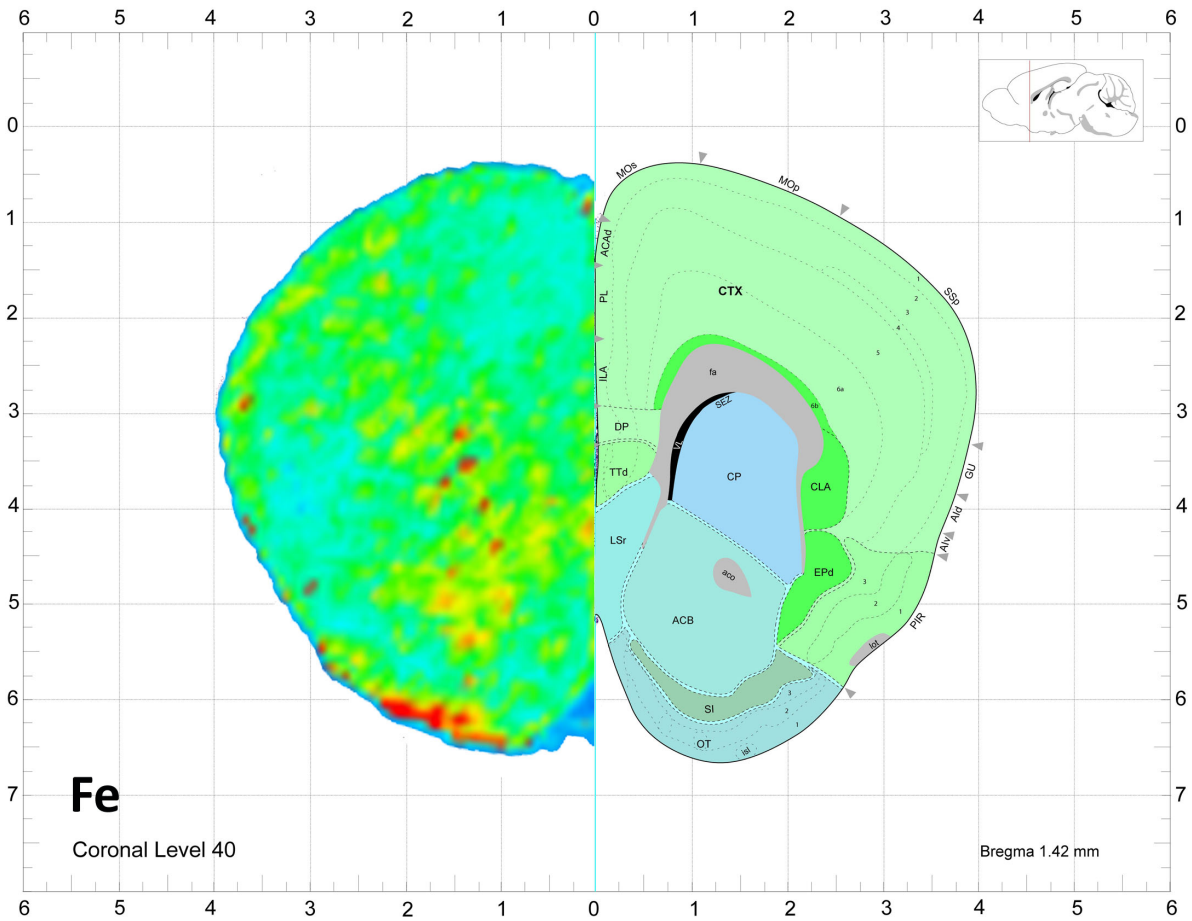


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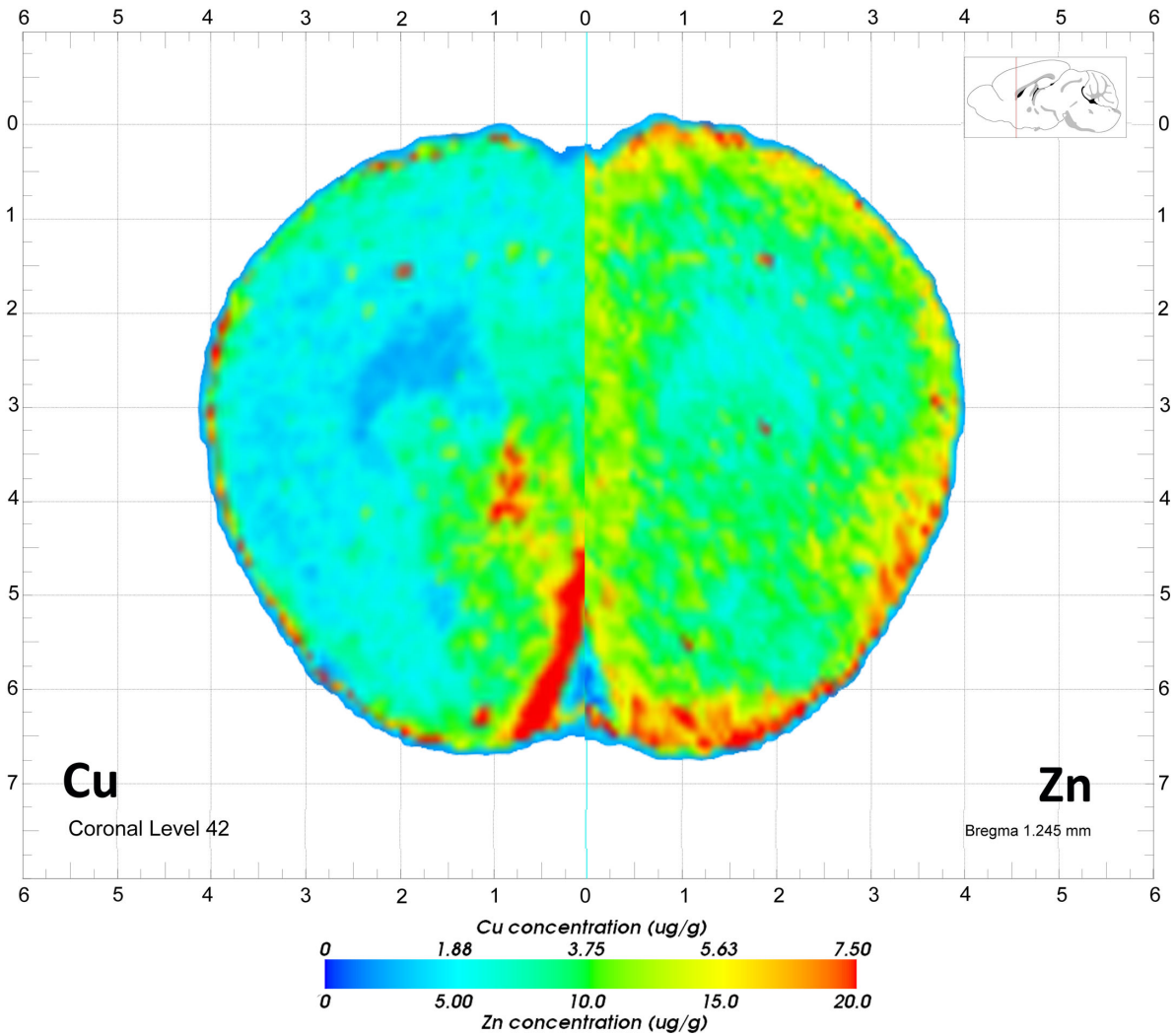
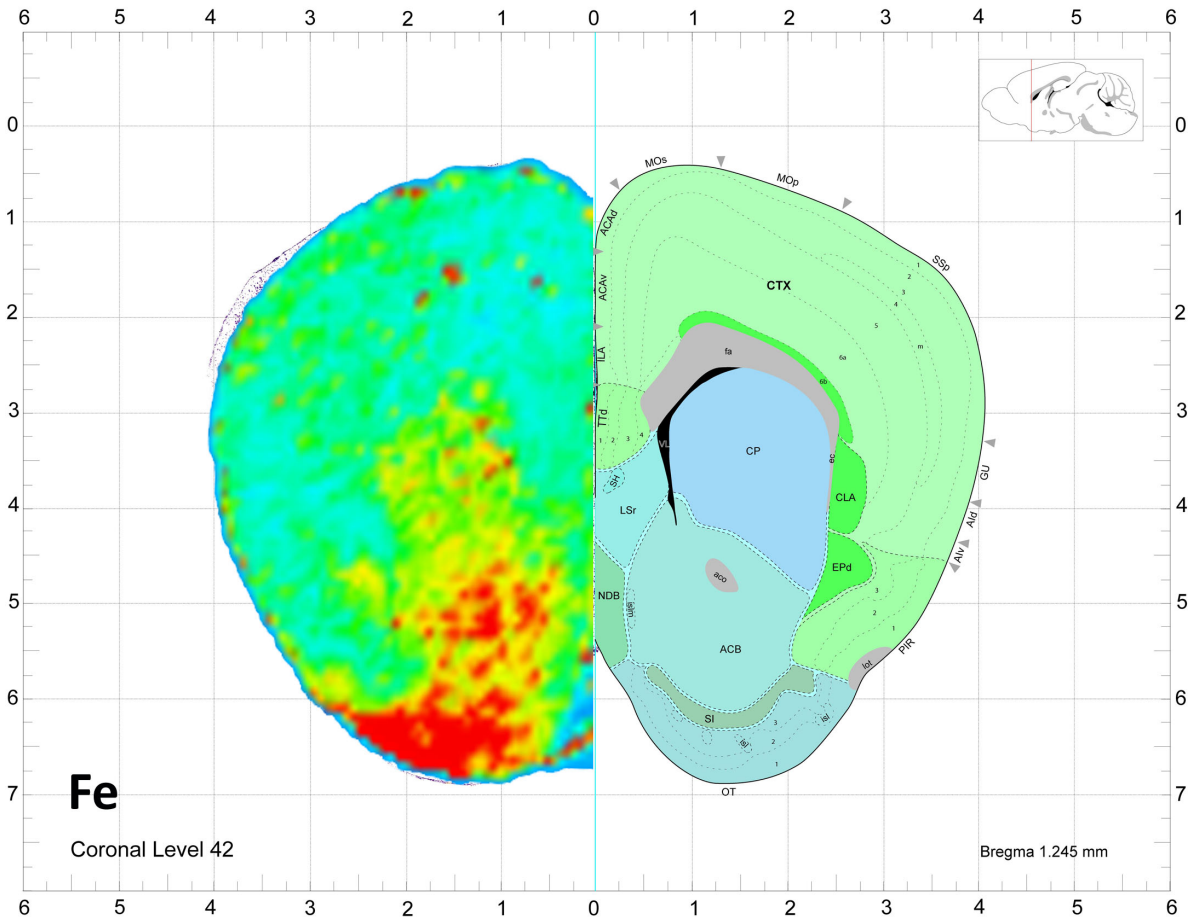


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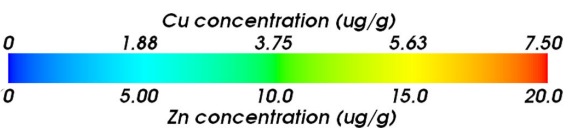
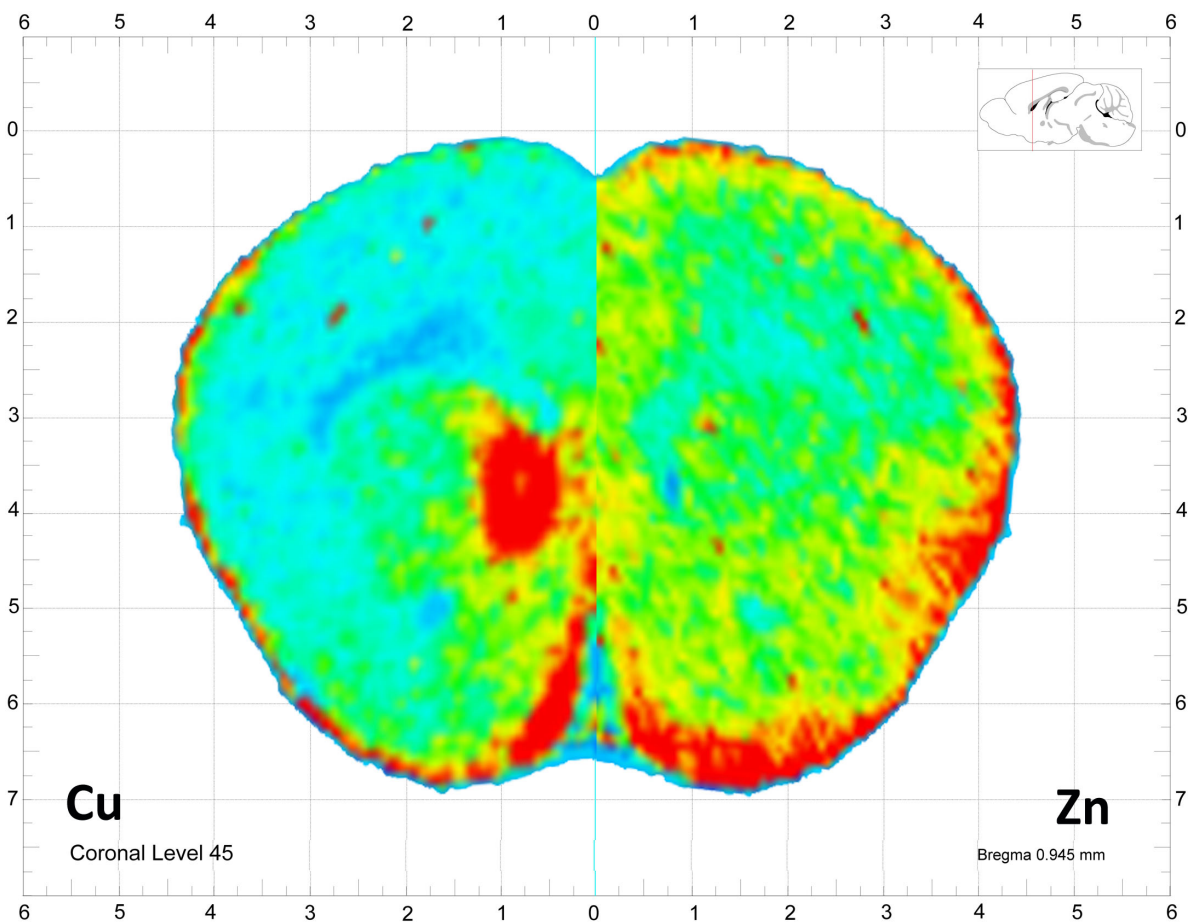
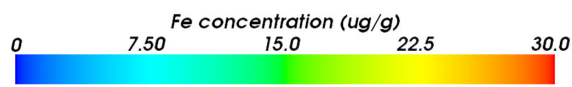
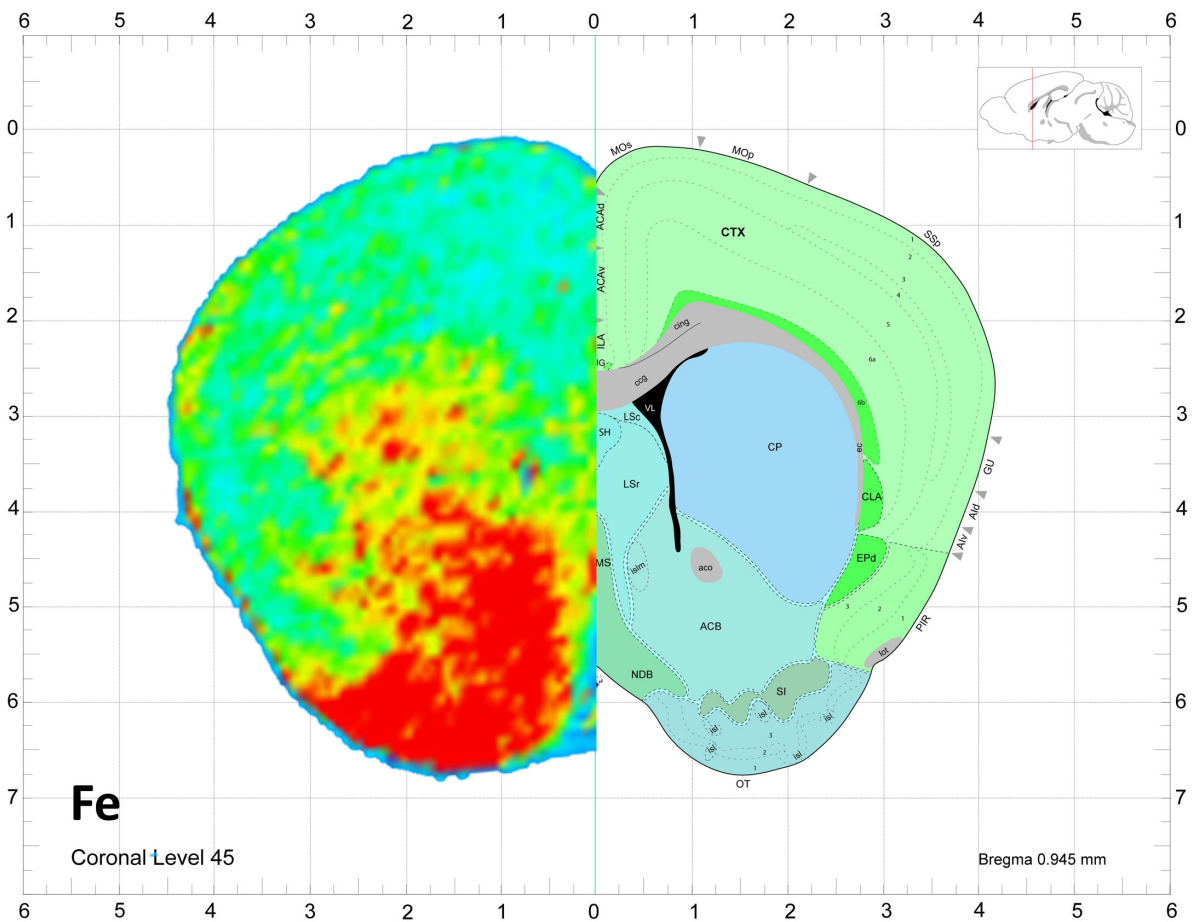


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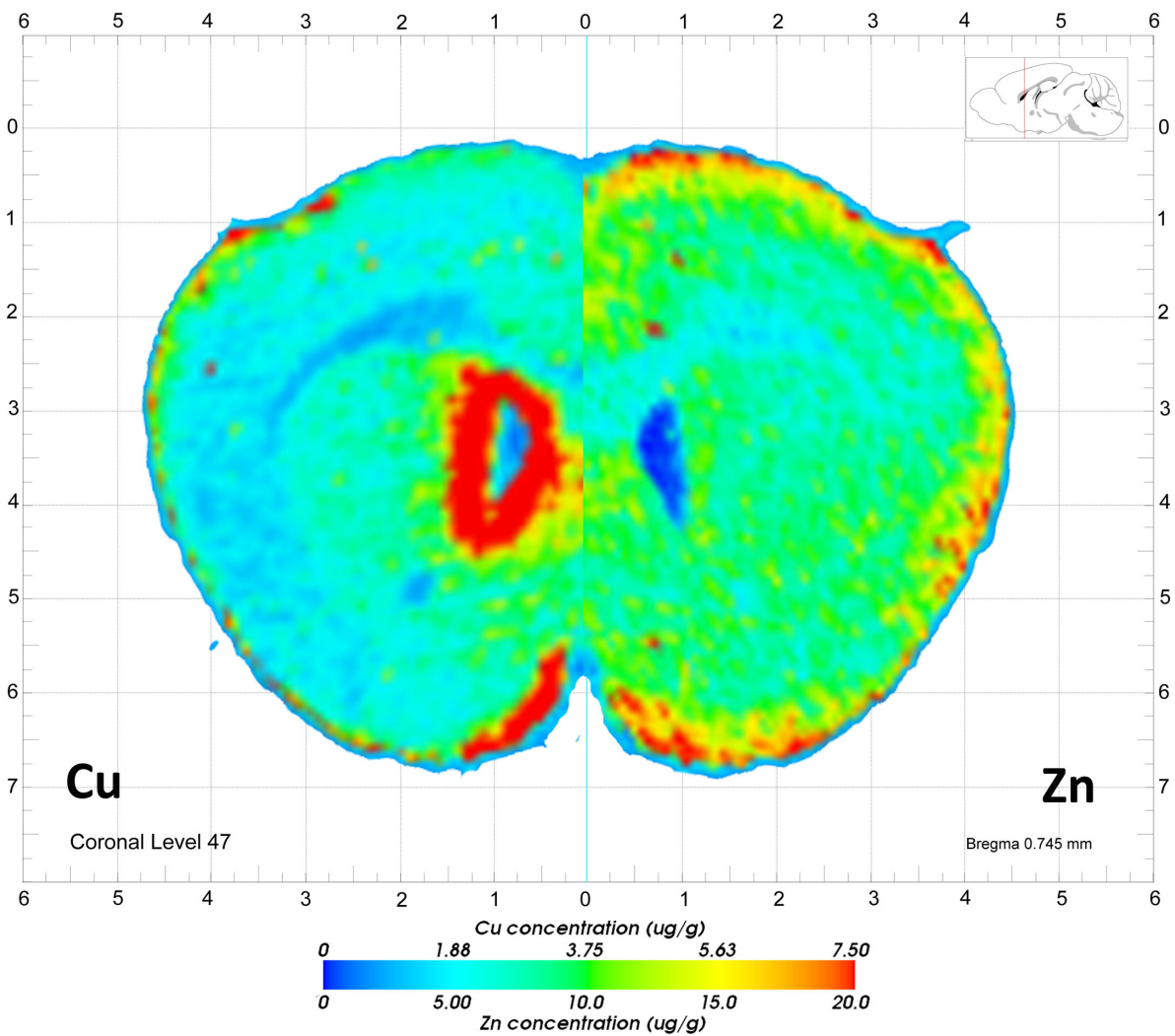
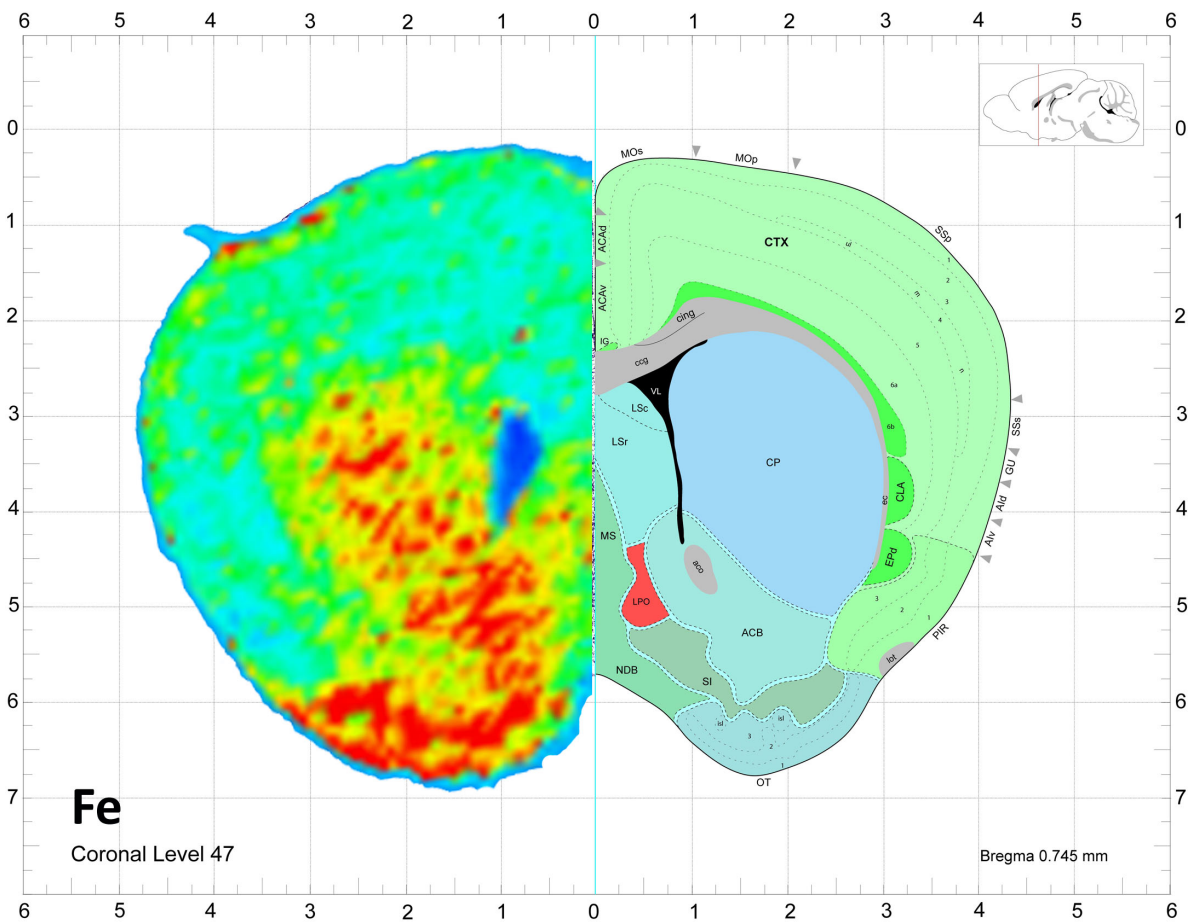


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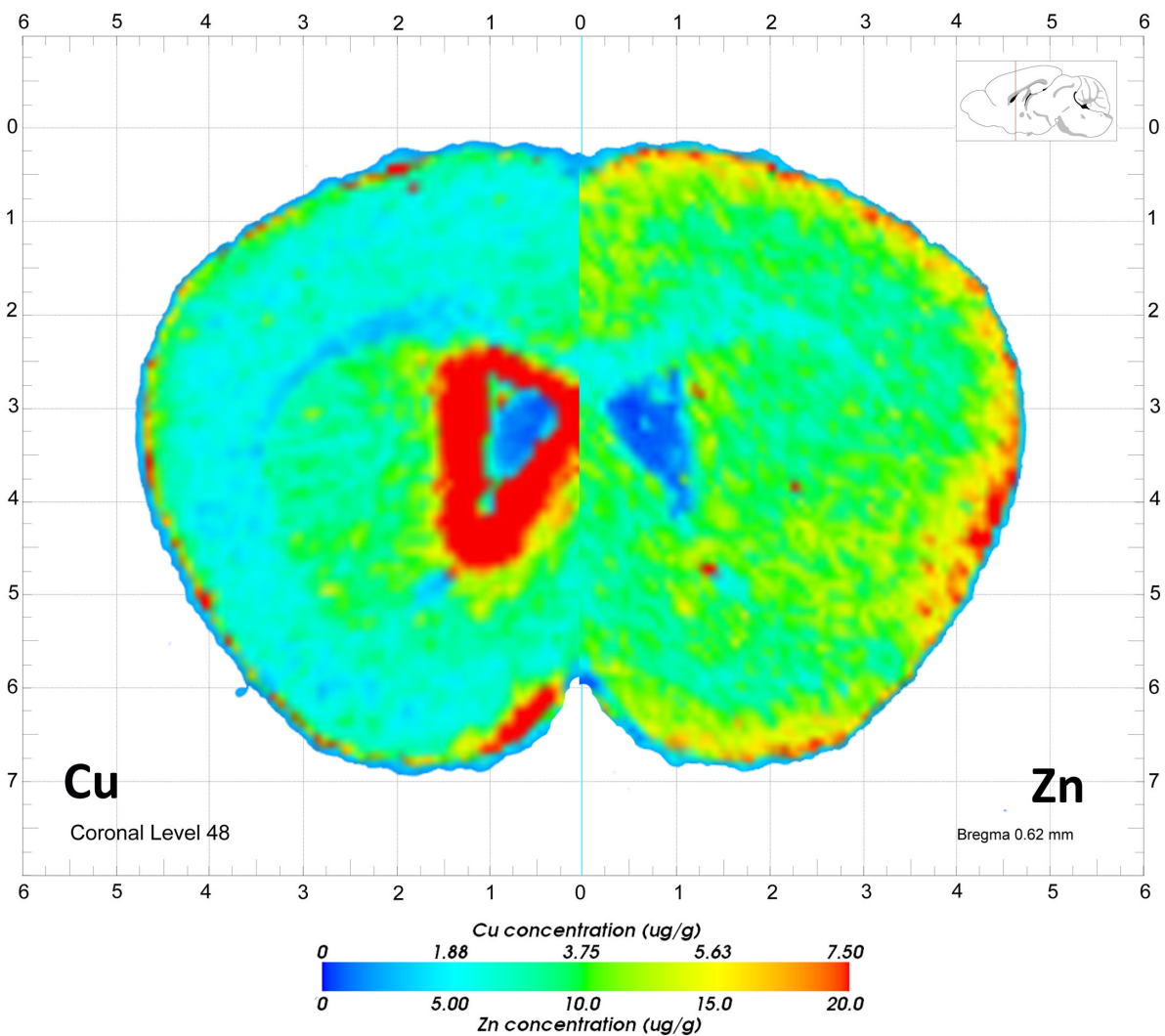
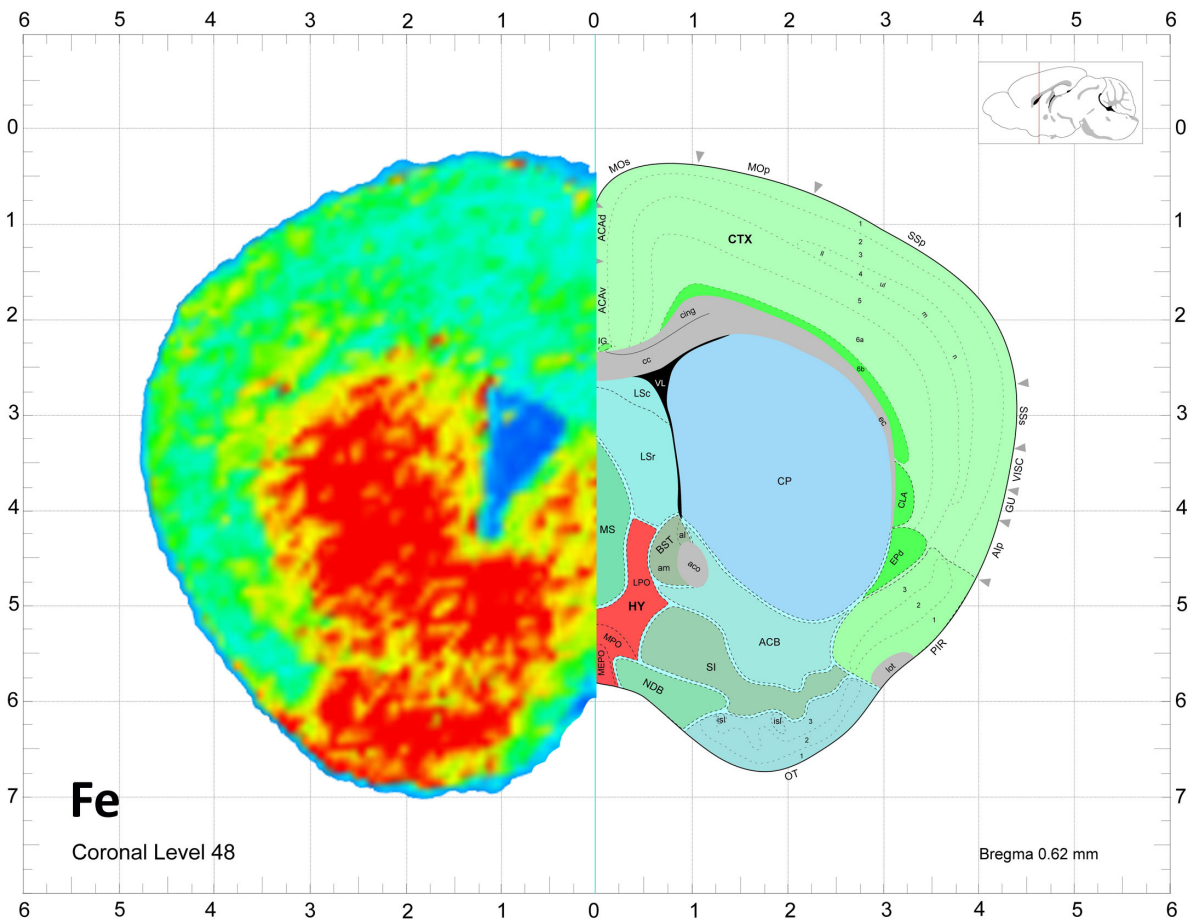


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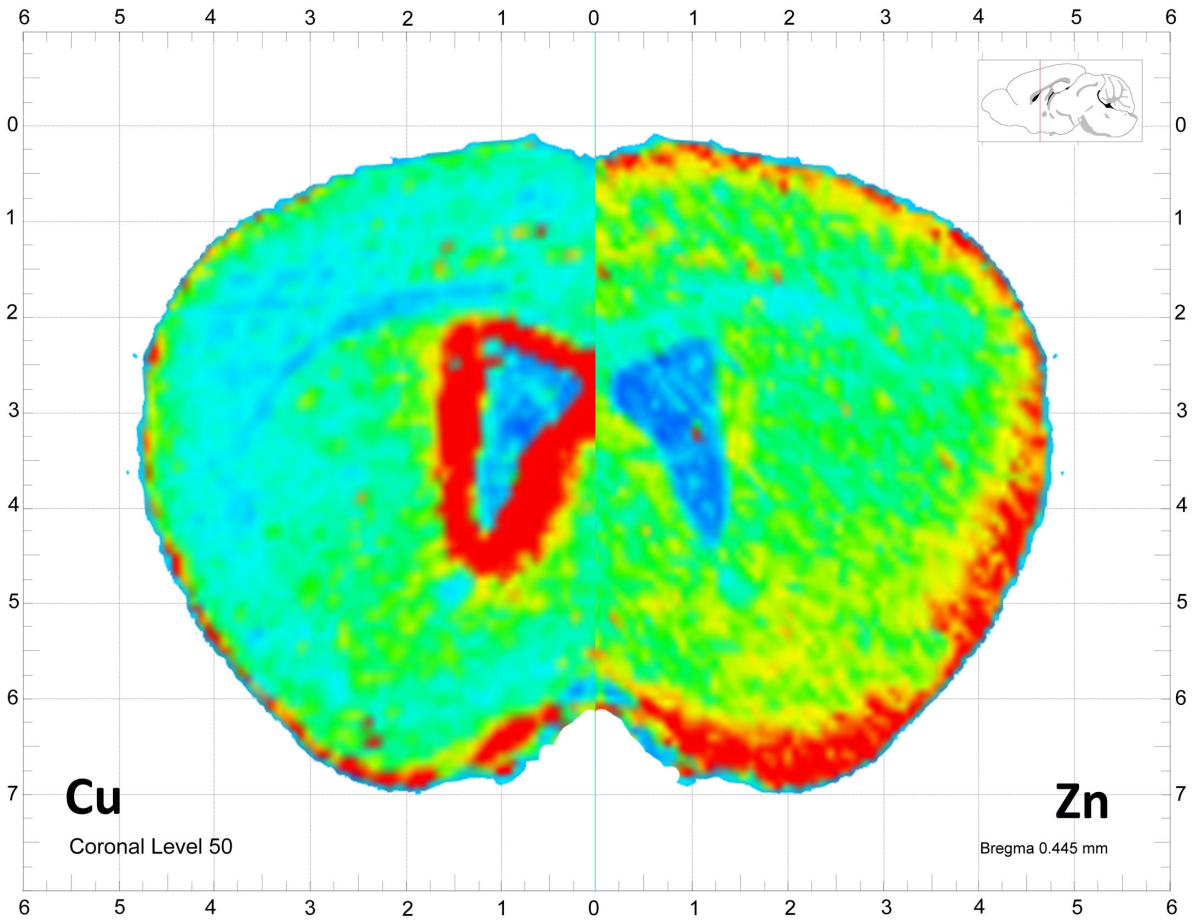
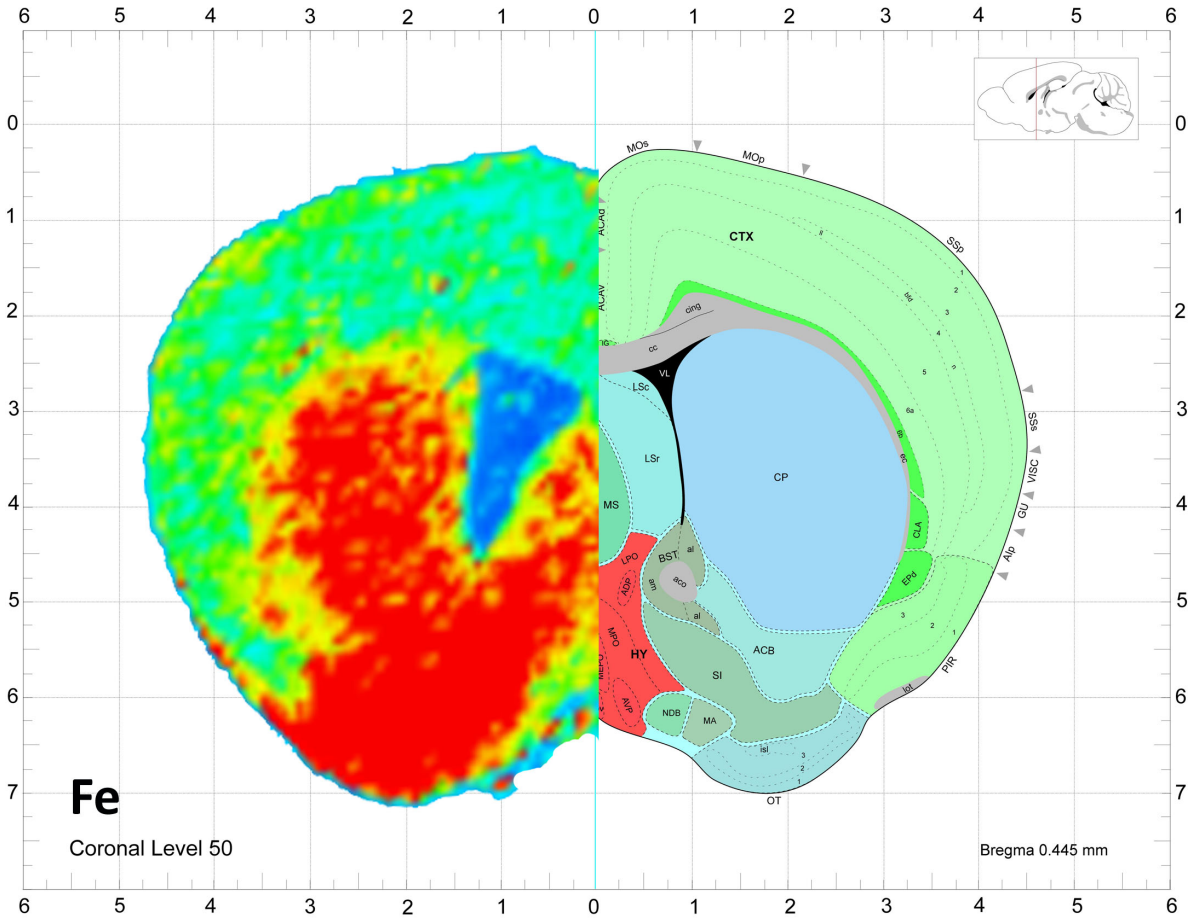


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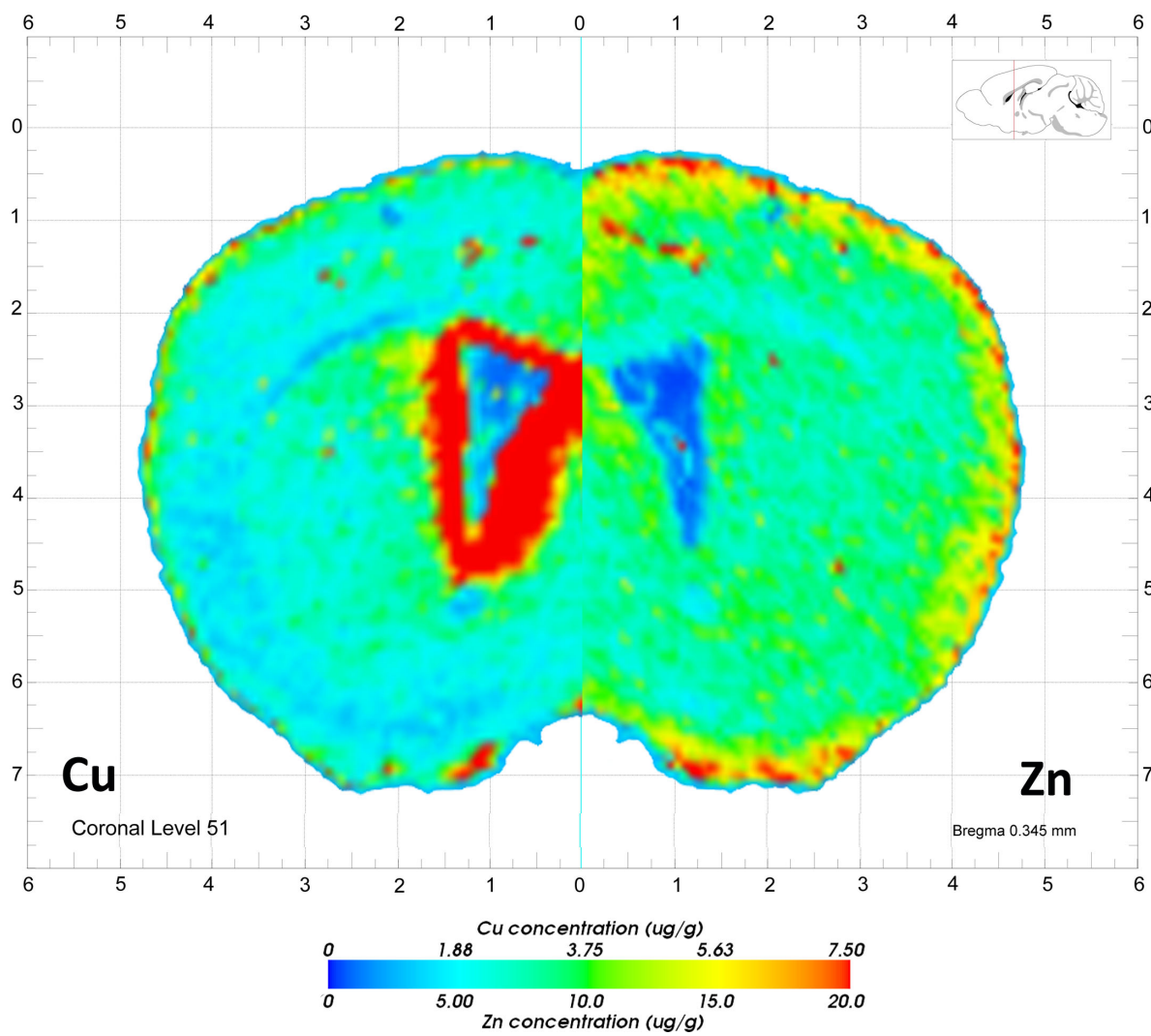
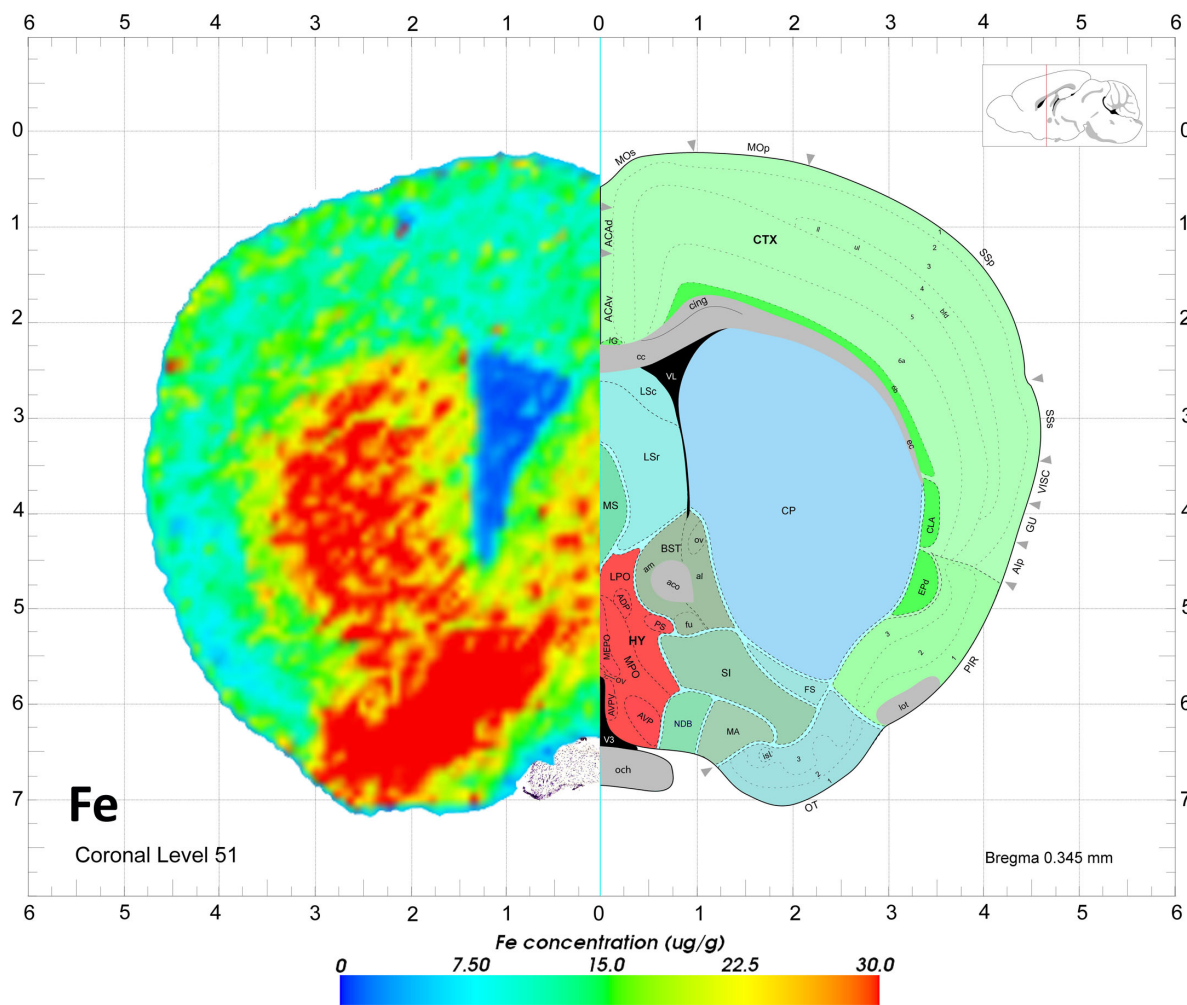


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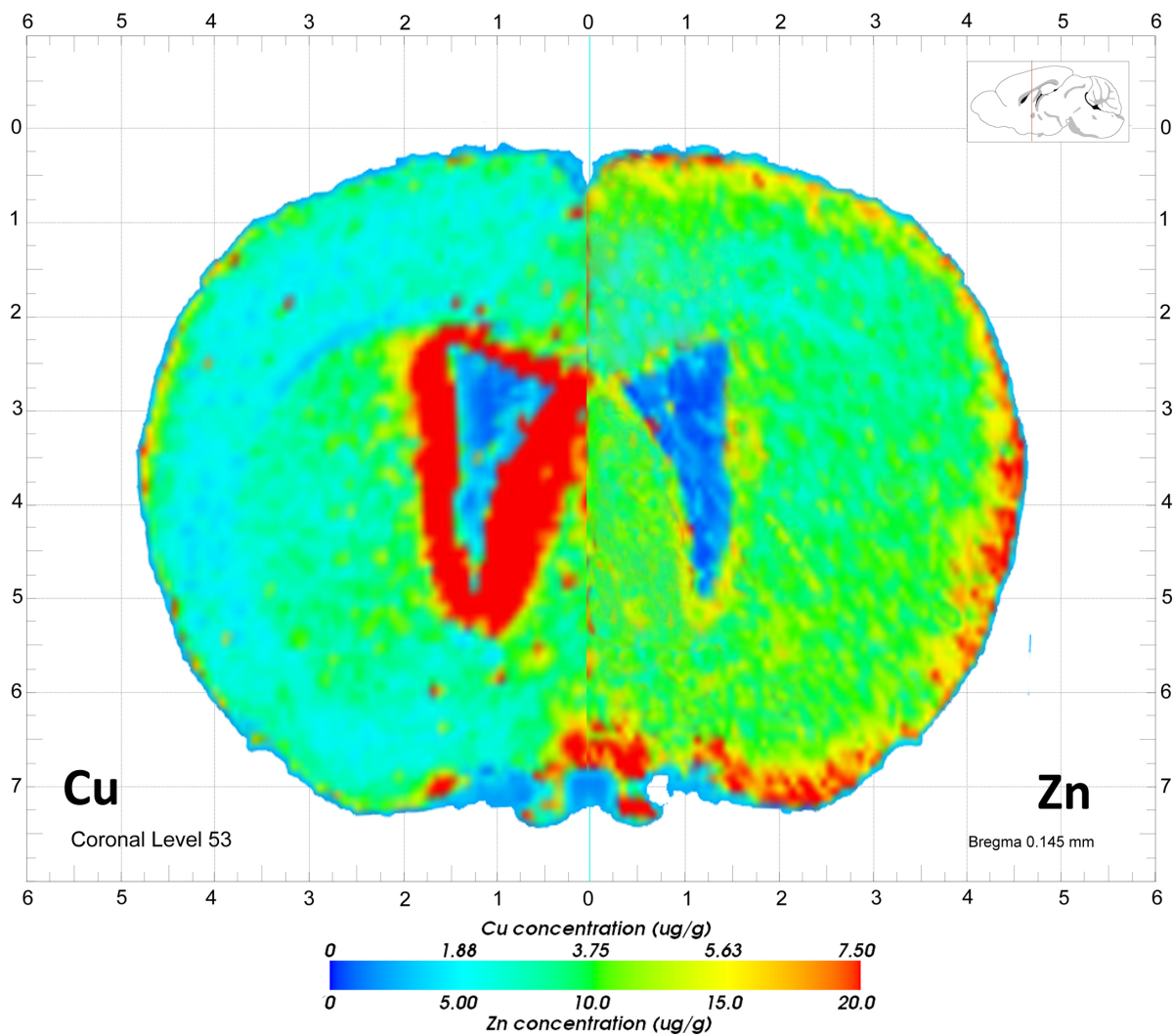
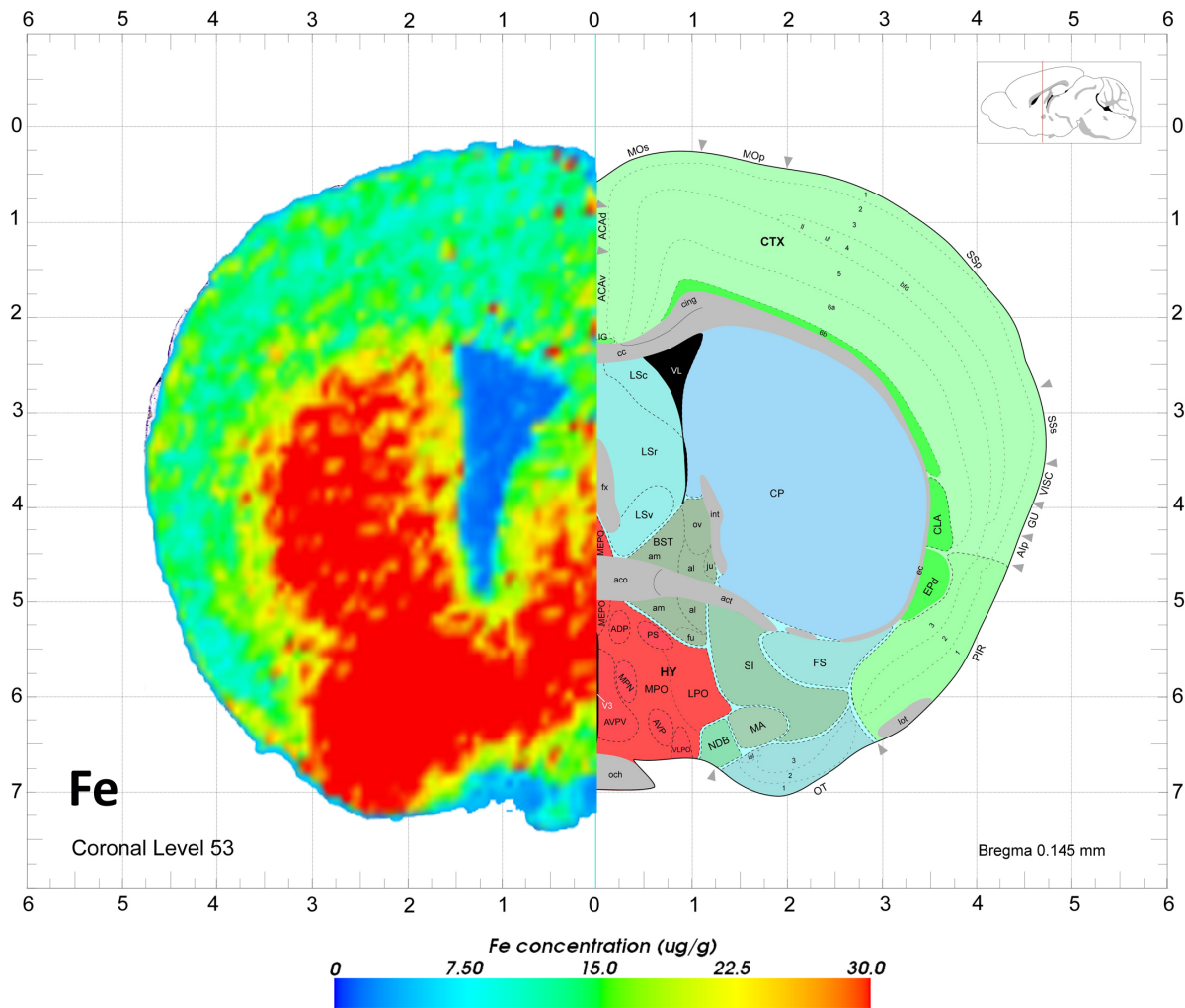


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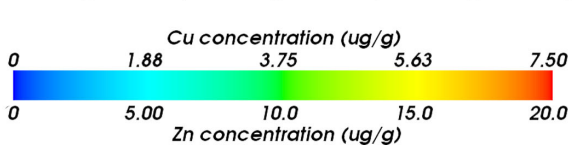
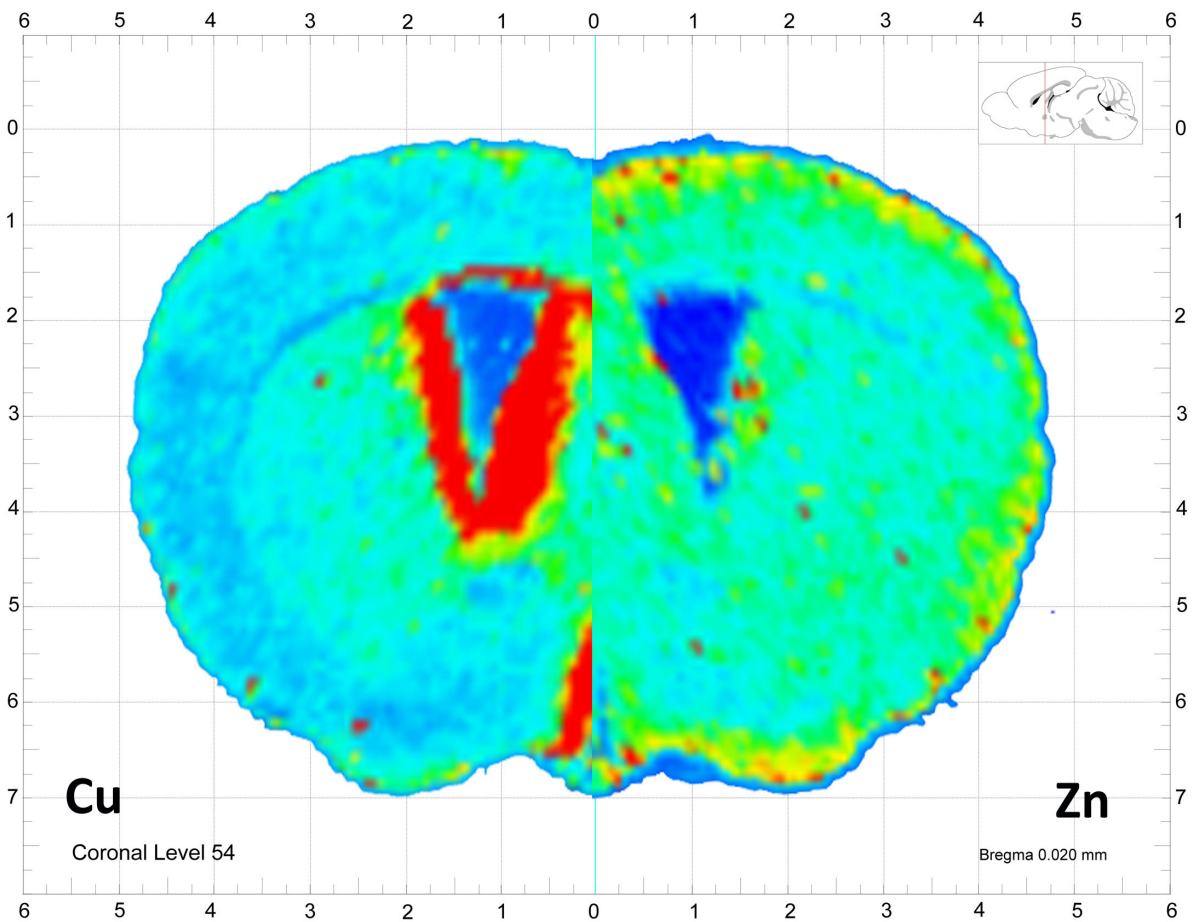
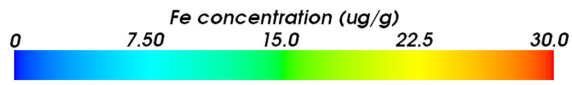
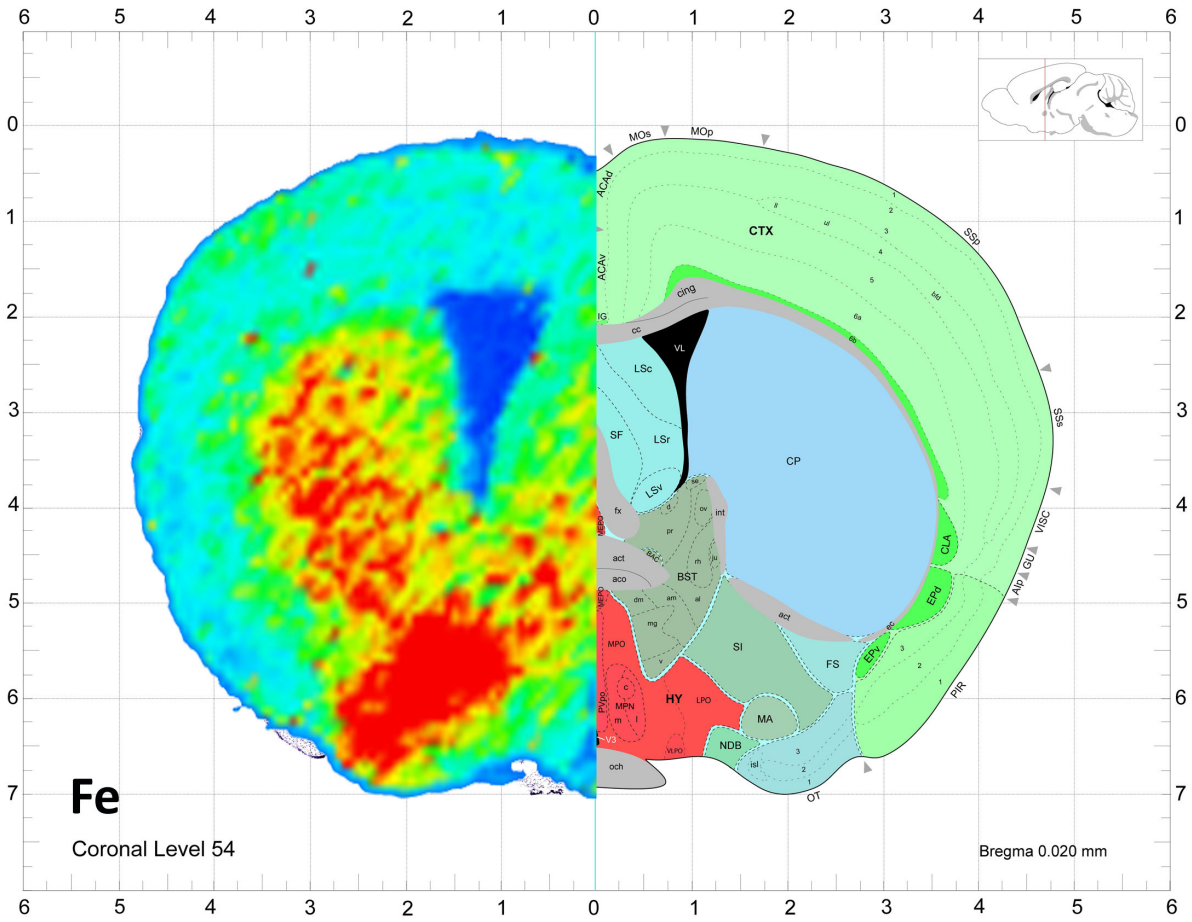


Figure 1 displays a coronal section of a rat brain at Bregma -0.08 mm, illustrating the distribution of iron (Fe) concentration (ug/g) across various brain regions. The image is divided into two main sections: the left side shows the Fe concentration map, and the right side shows the corresponding anatomical structures.

The Fe concentration map on the left uses a color scale ranging from 0 (blue) to 30.0 (red) ug/g. The highest concentrations (red/orange) are observed in the central and lateral regions, particularly in the areas corresponding to the CP (Caudate Putamen) and ST (Striatum). The lowest concentrations (blue) are found in the peripheral regions, such as the MOs (Medial Orbitofrontal Cortex) and MOp (Medial Orbitofrontal Cortex, posterior).

The anatomical structures on the right are labeled with abbreviations: MOs, MOp, ACAd, ACAdV, IG, cing, VL, LSc, SF, TRS, MEPO, LSc, ST, int, pr, rh, BAC, BST, al, am, ma, PD, PO, MPN, MPO, VLP, NDB, OT, MA, AAA, FS, Epi, PIR, GU, VSC, Alp, and CP. The CP is the large, light blue structure in the center. The ST is a large, dark blue structure on the left. The MOs and MOp are at the top. The ACAd and ACAdV are on the left side. The IG is on the left side. The cing is on the left side. The VL is a small, dark blue structure. The LSc is a small, dark blue structure. The SF is a small, dark blue structure. The TRS is a small, dark blue structure. The MEPO is a small, dark blue structure. The LSc is a small, dark blue structure. The ST is a large, dark blue structure. The int is a small, dark blue structure. The pr is a small, dark blue structure. The rh is a small, dark blue structure. The BAC is a small, dark blue structure. The BST is a small, dark blue structure. The al is a small, dark blue structure. The am is a small, dark blue structure. The ma is a small, dark blue structure. The PD is a small, dark blue structure. The PO is a small, dark blue structure. The MPN is a small, dark blue structure. The MPO is a small, dark blue structure. The VLP is a small, dark blue structure. The NDB is a small, dark blue structure. The OT is a small, dark blue structure. The MA is a small, dark blue structure. The AAA is a small, dark blue structure. The FS is a small, dark blue structure. The Epi is a small, dark blue structure. The PIR is a small, dark blue structure. The GU is a small, dark blue structure. The VSC is a small, dark blue structure. The Alp is a small, dark blue structure. The CP is a large, light blue structure.

The color scale for Fe concentration (ug/g) is provided at the bottom: 0, 7.50, 15.0, 22.5, 30.0.

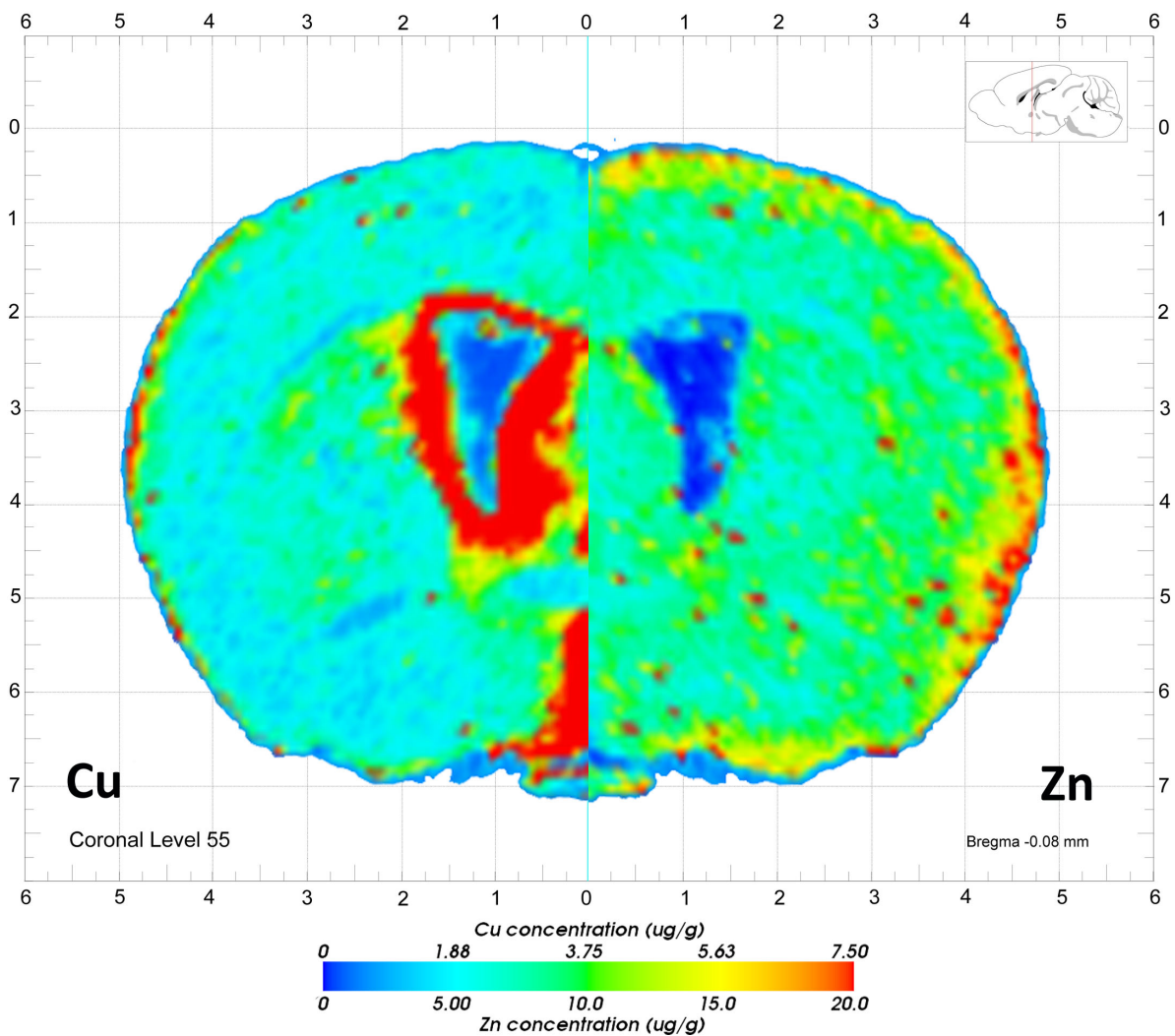


Plate 25

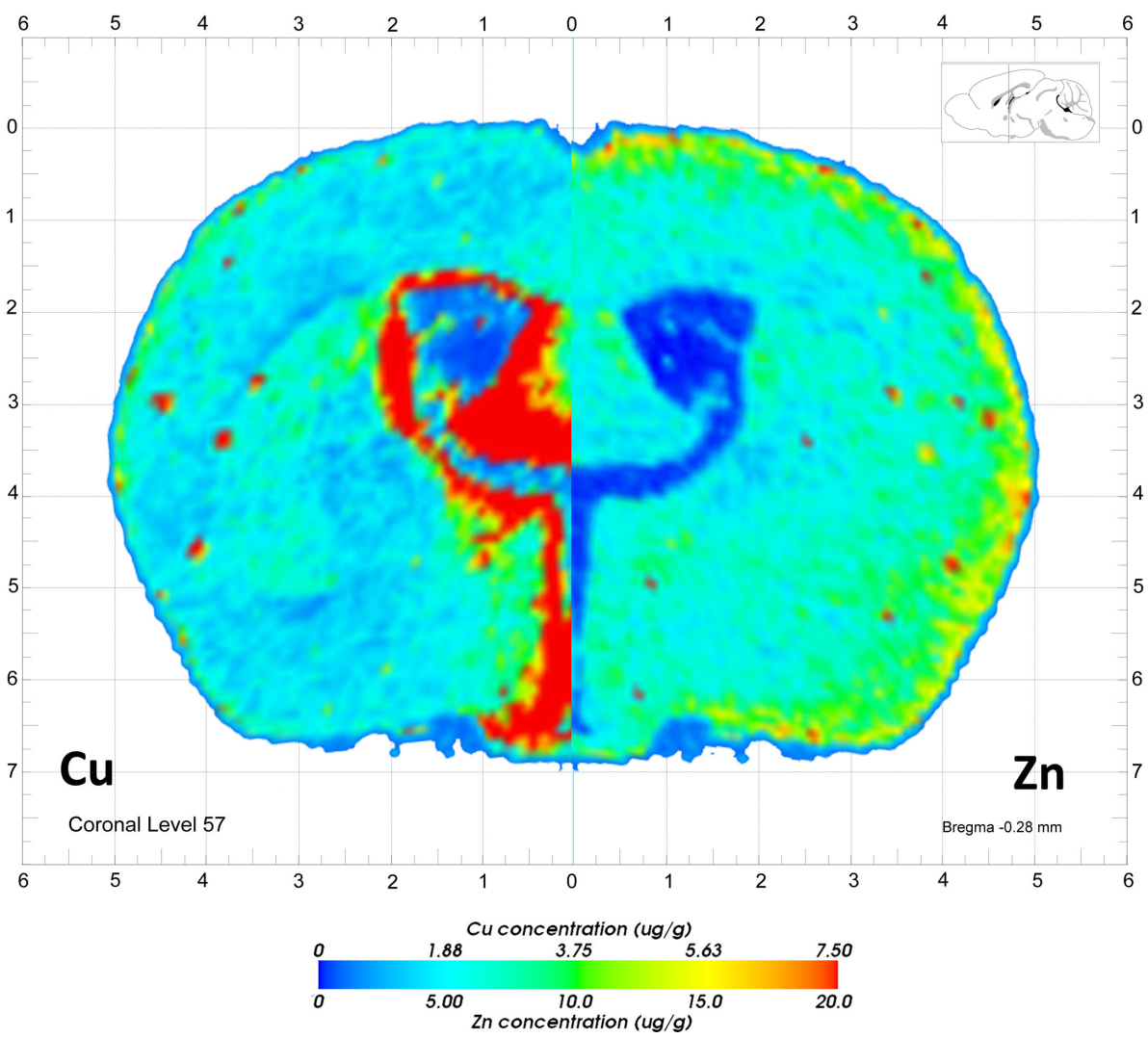
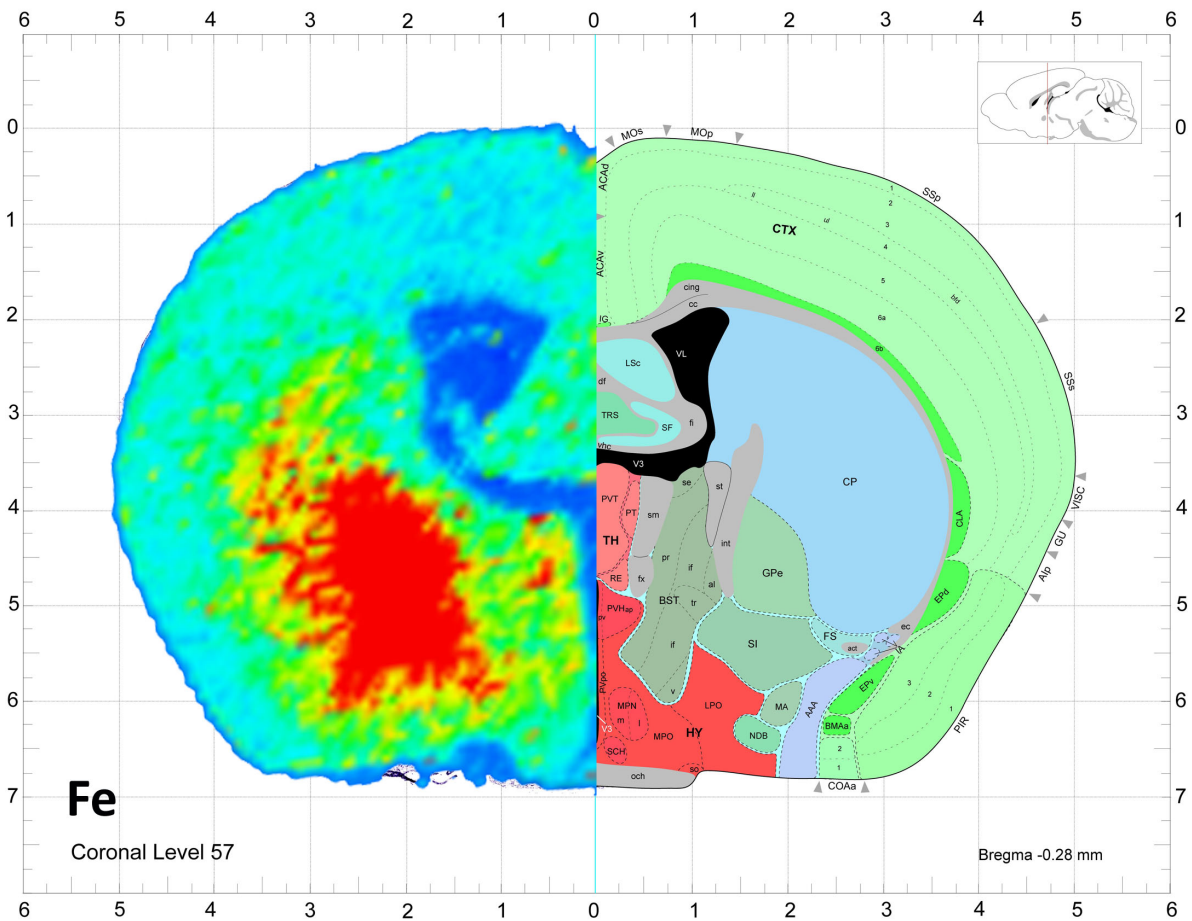


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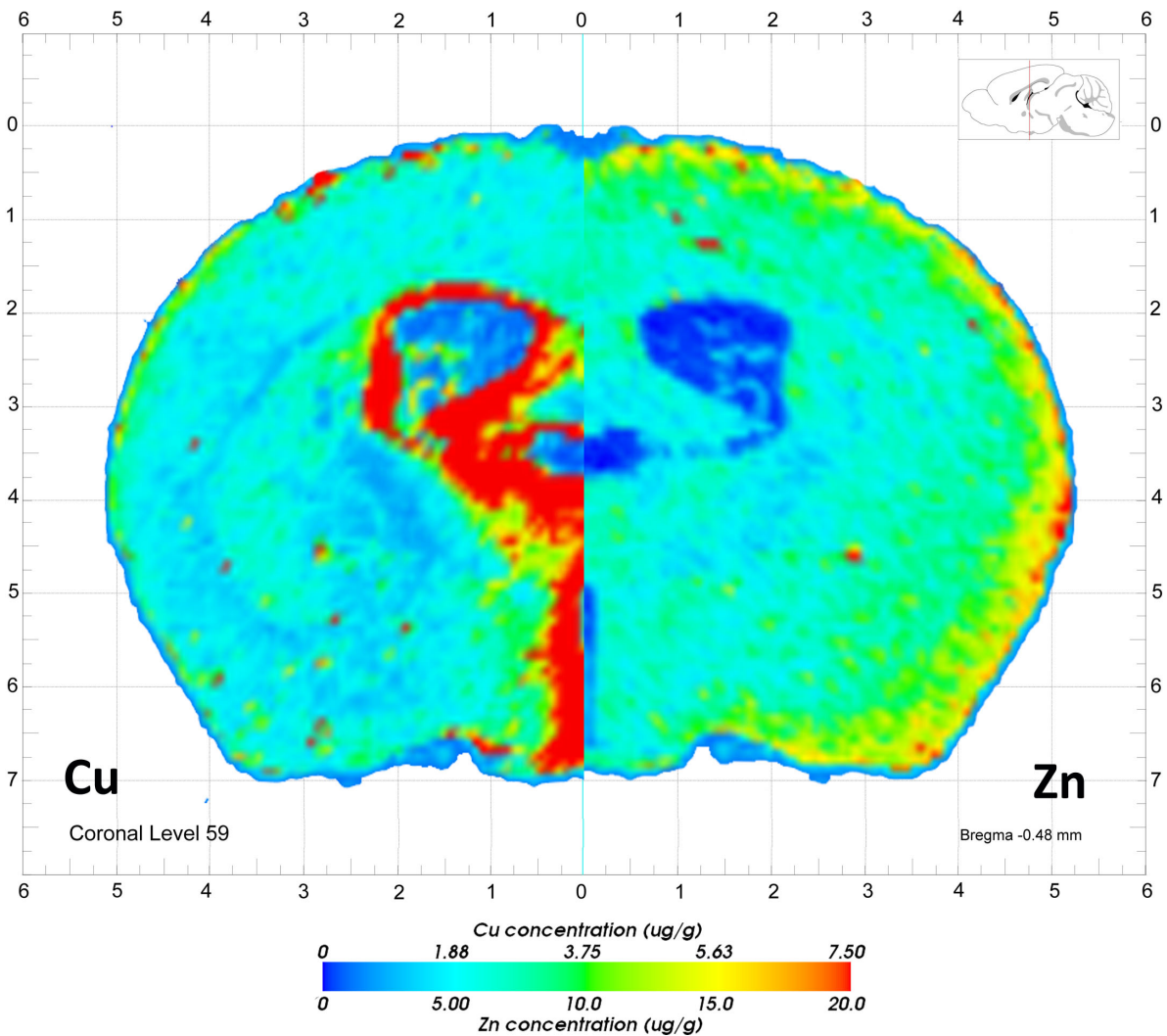
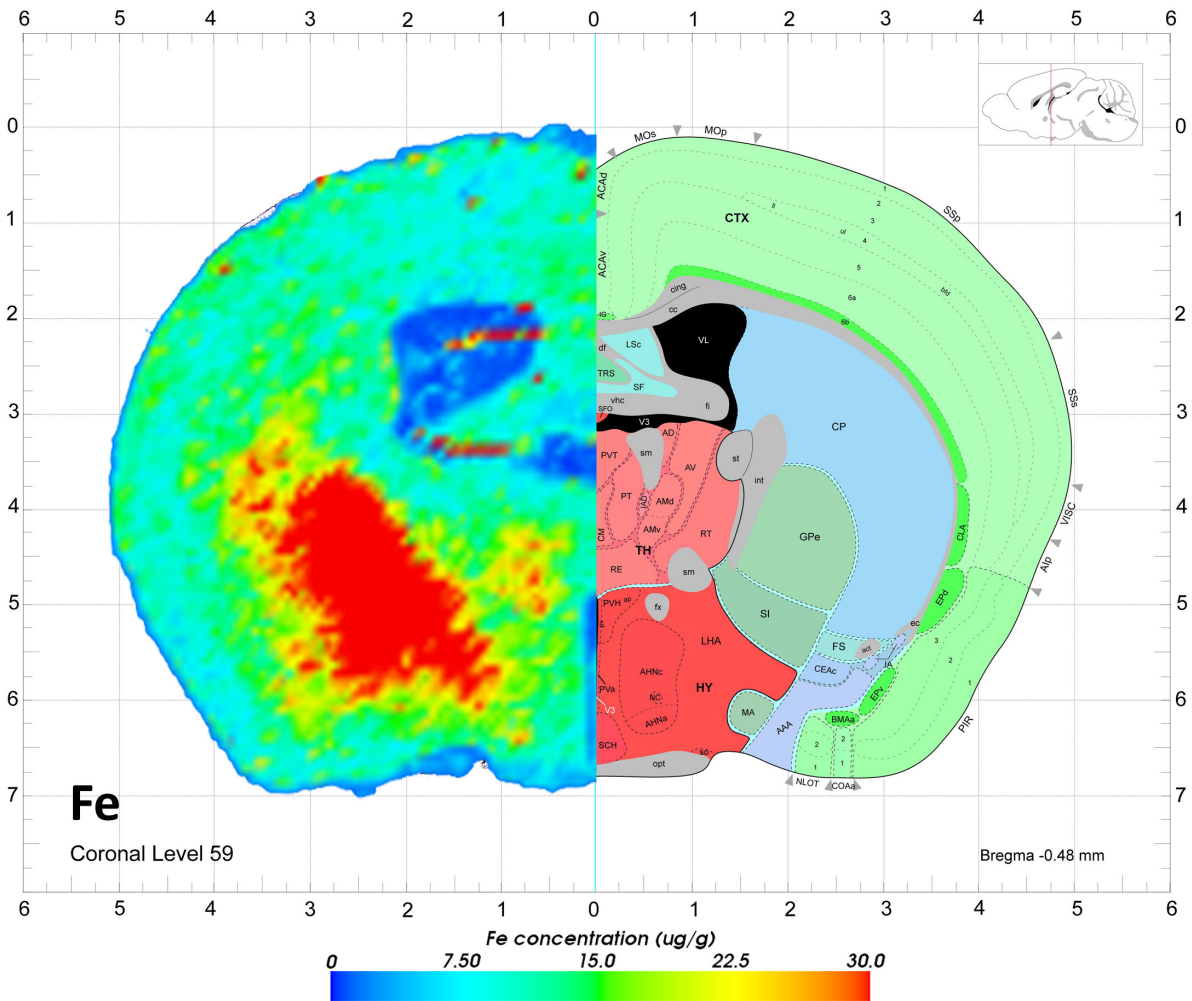


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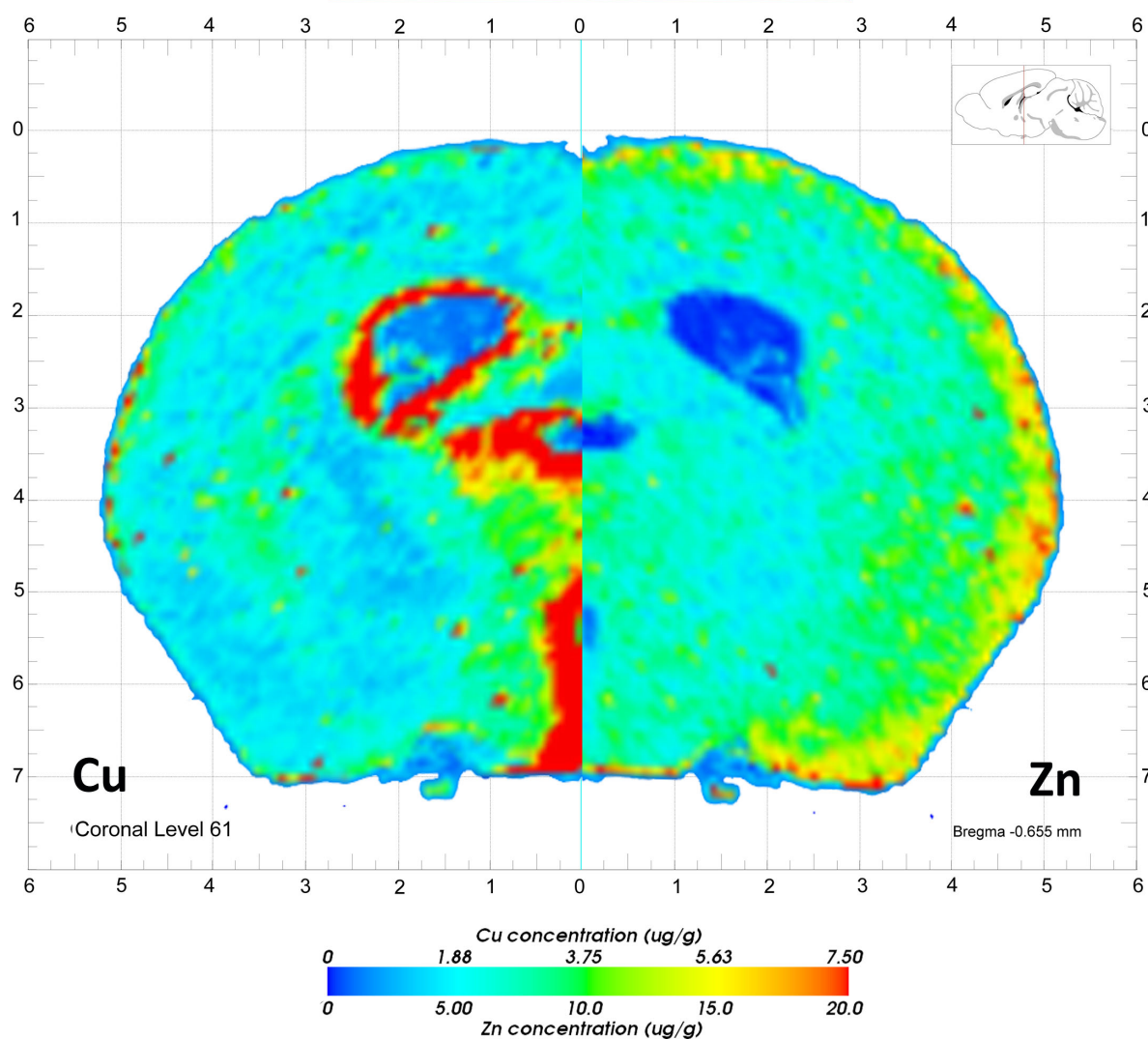
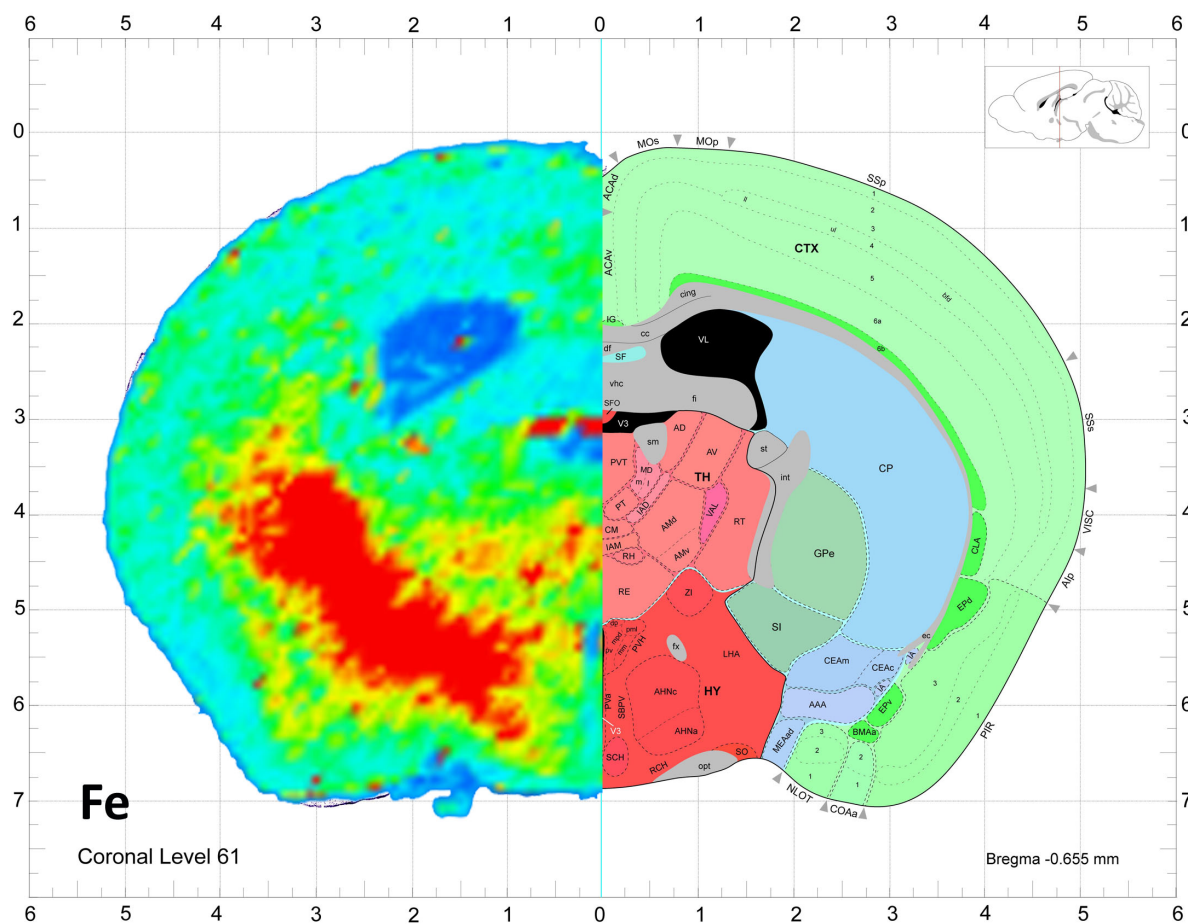


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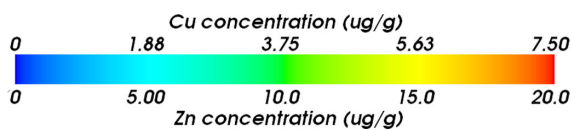
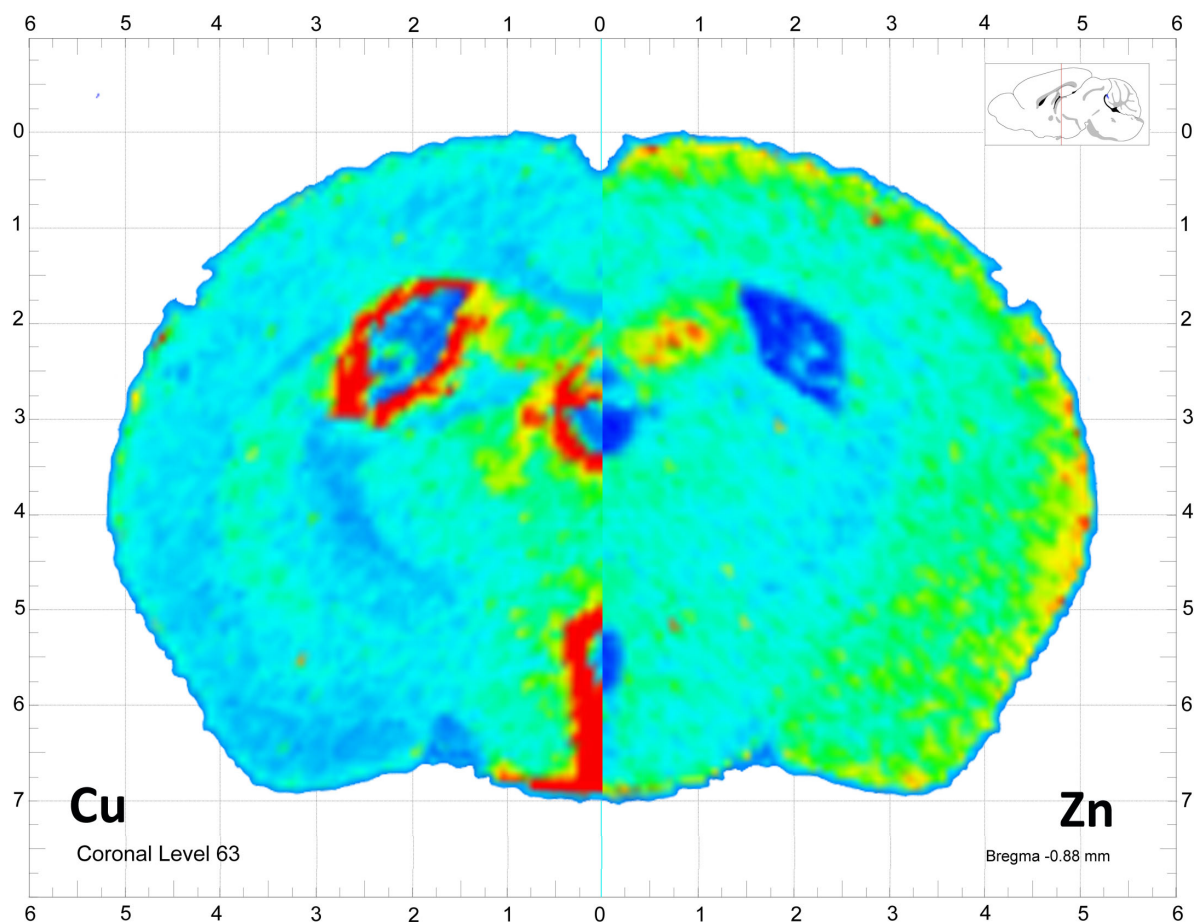
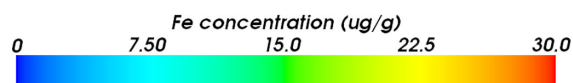
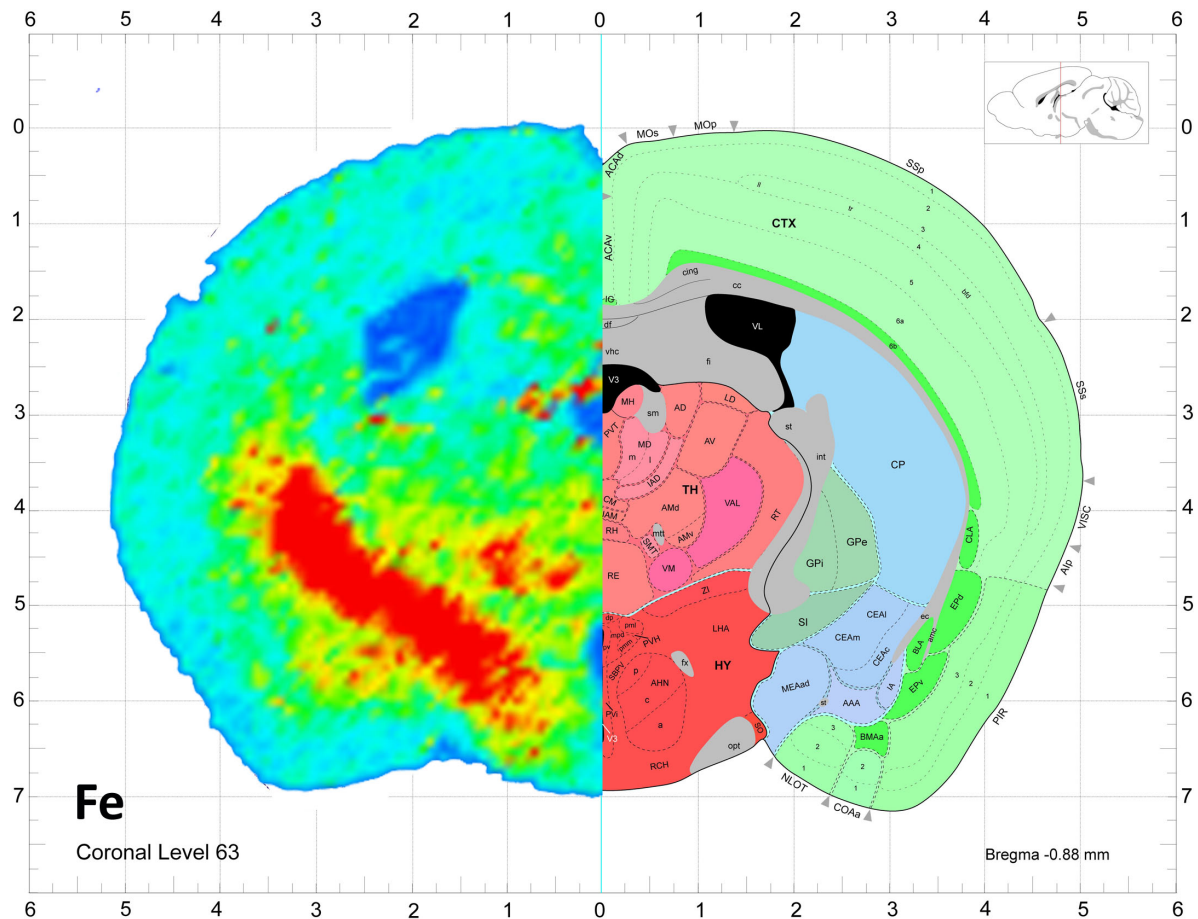


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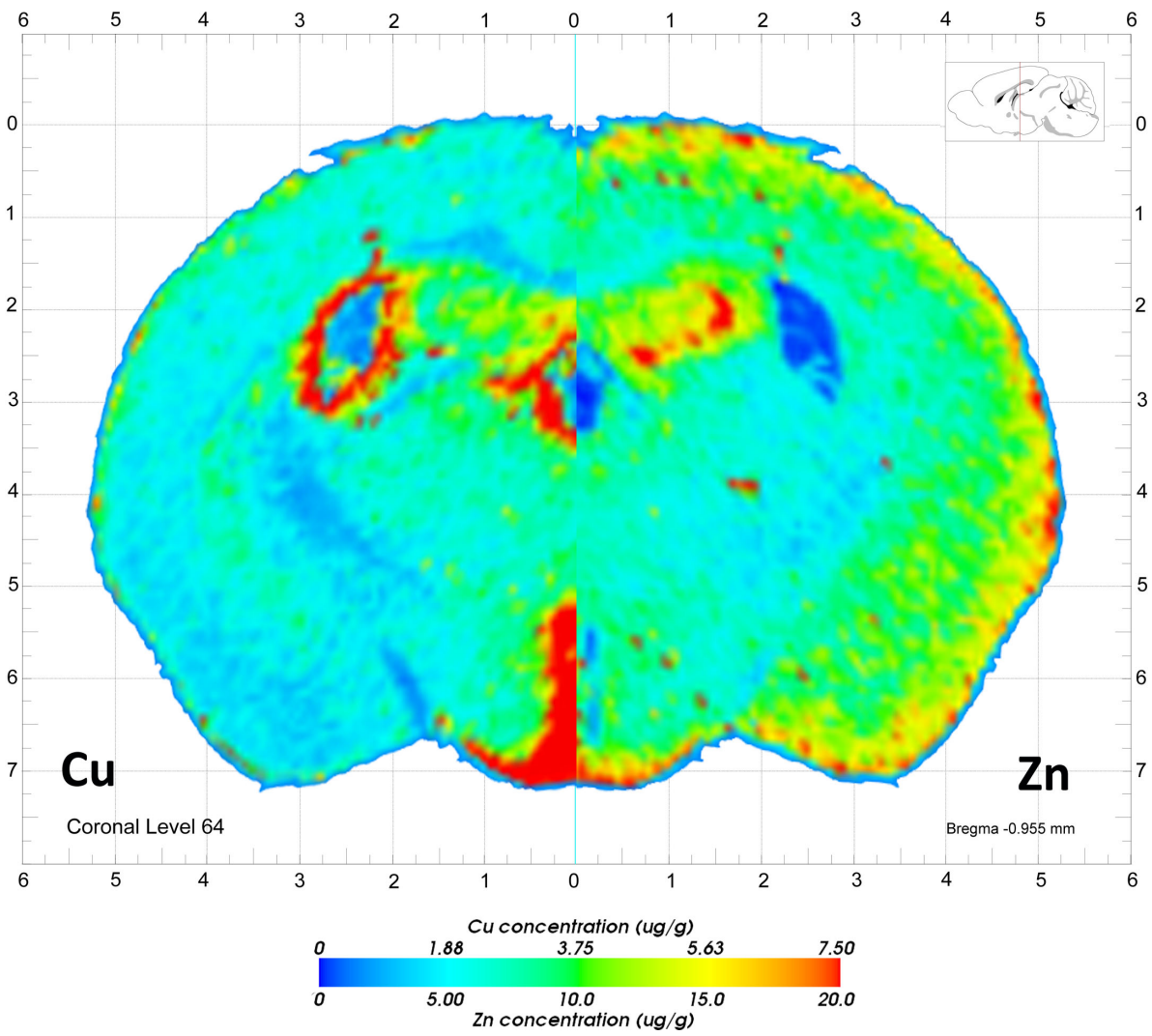
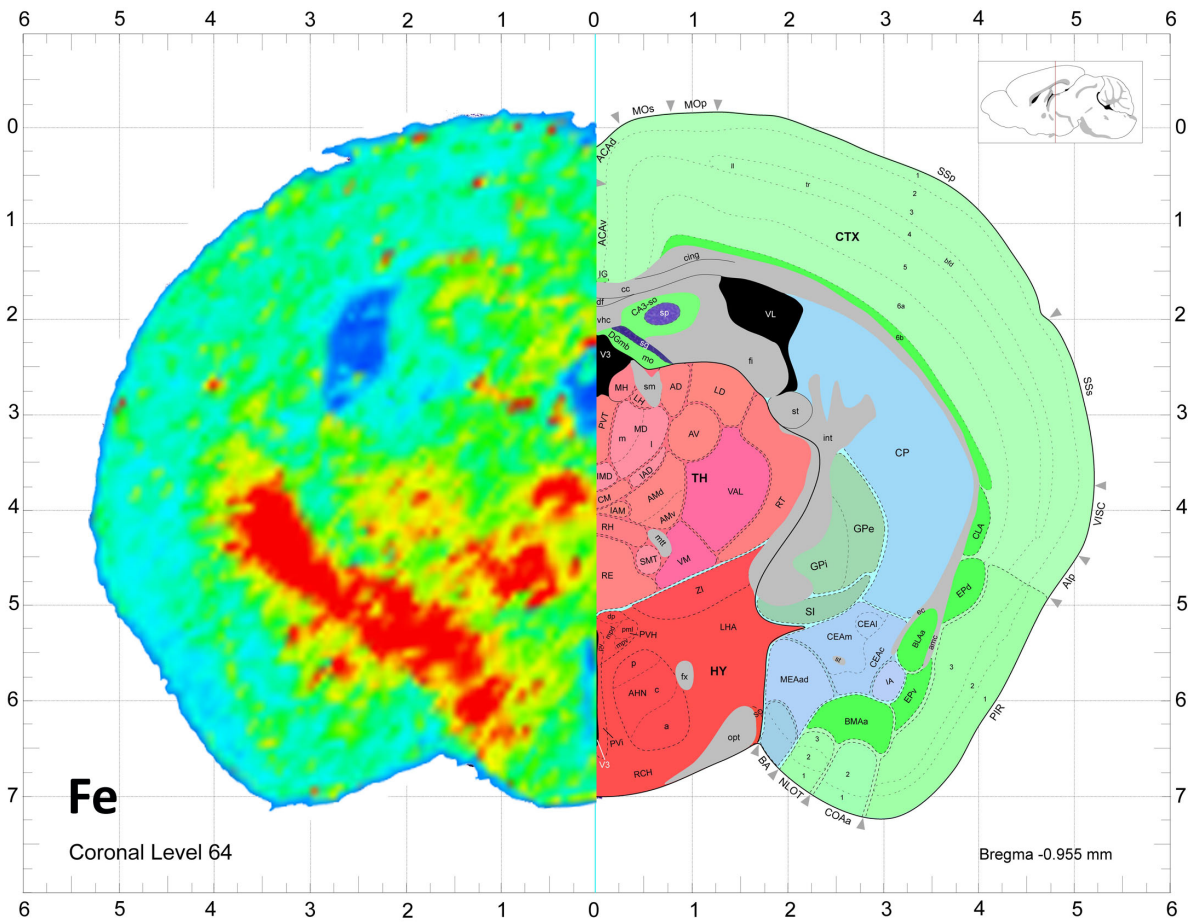


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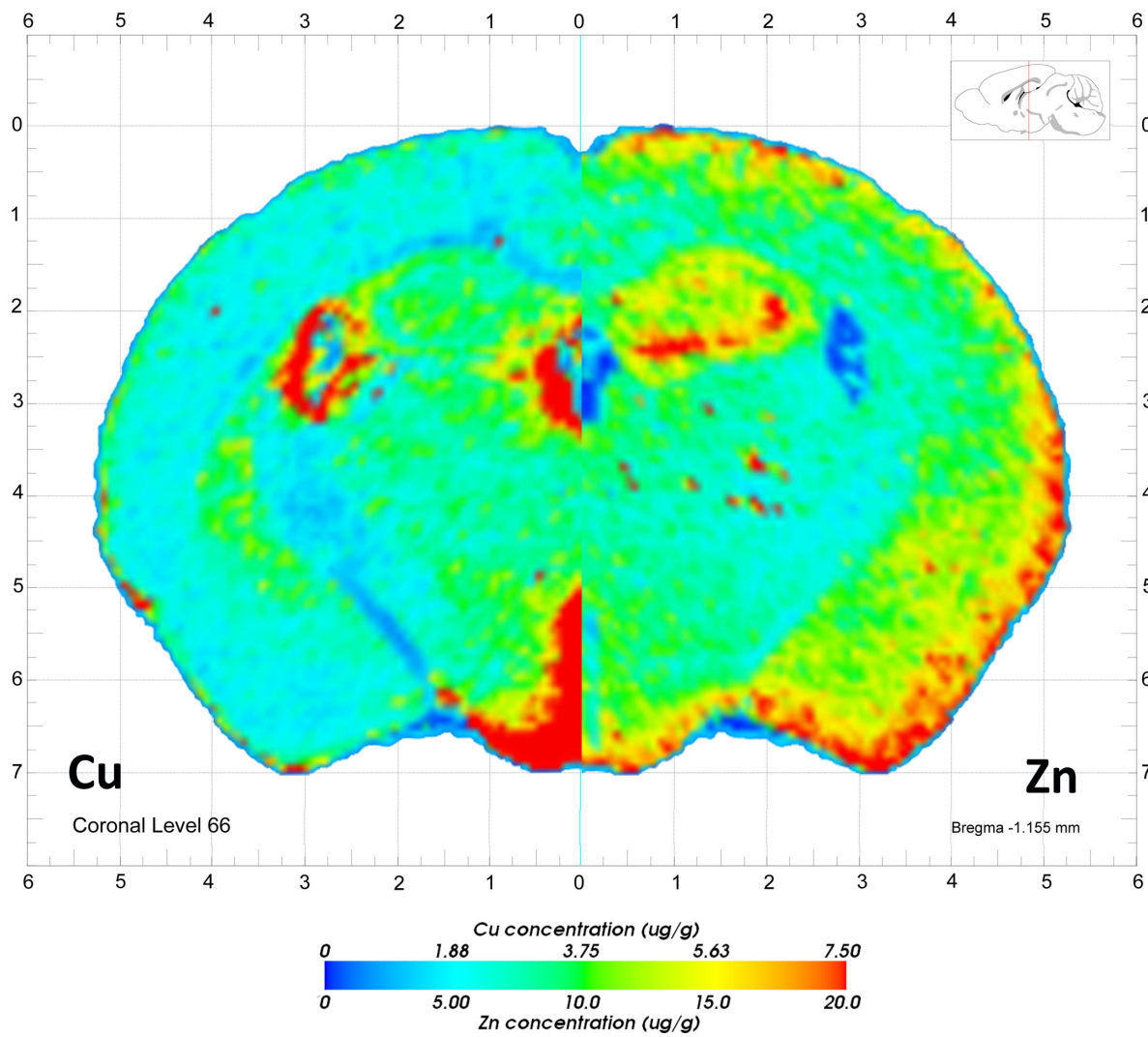
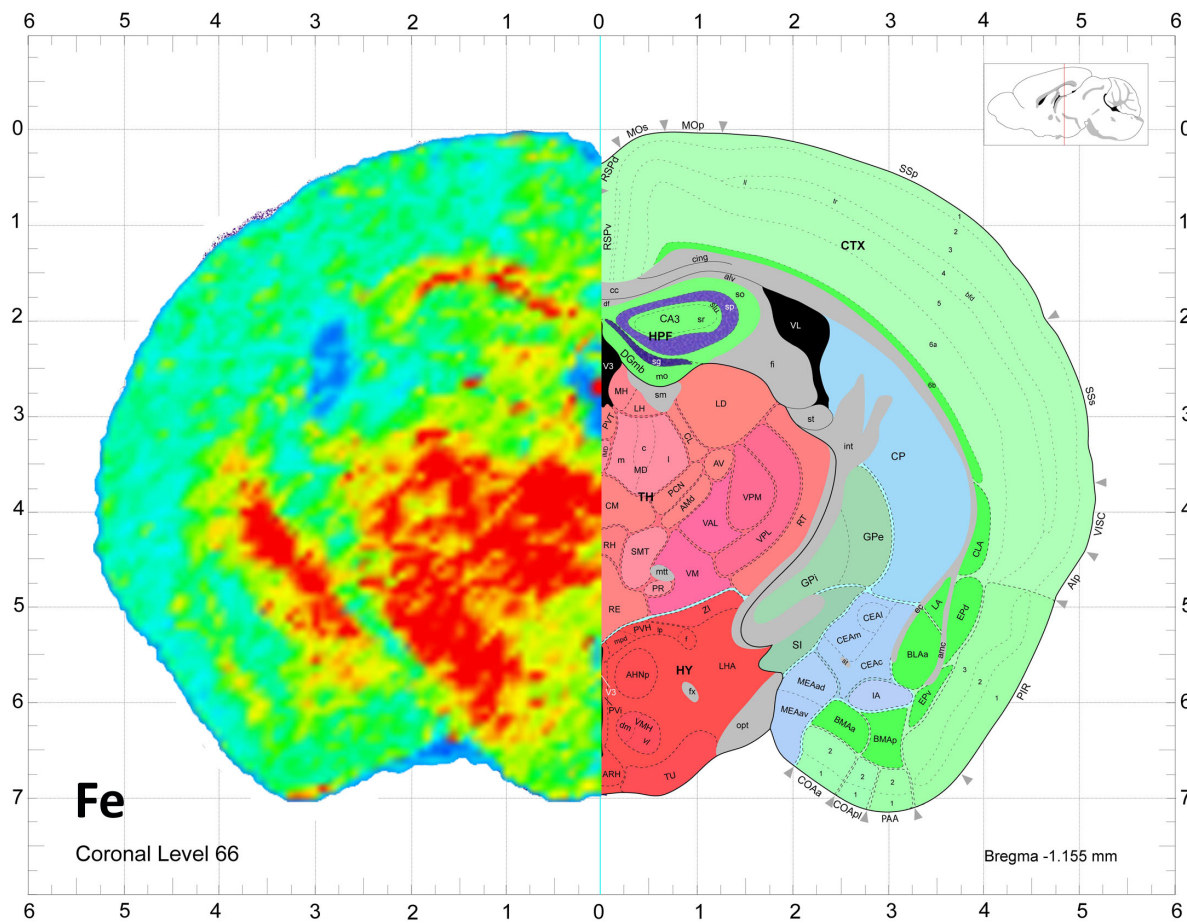


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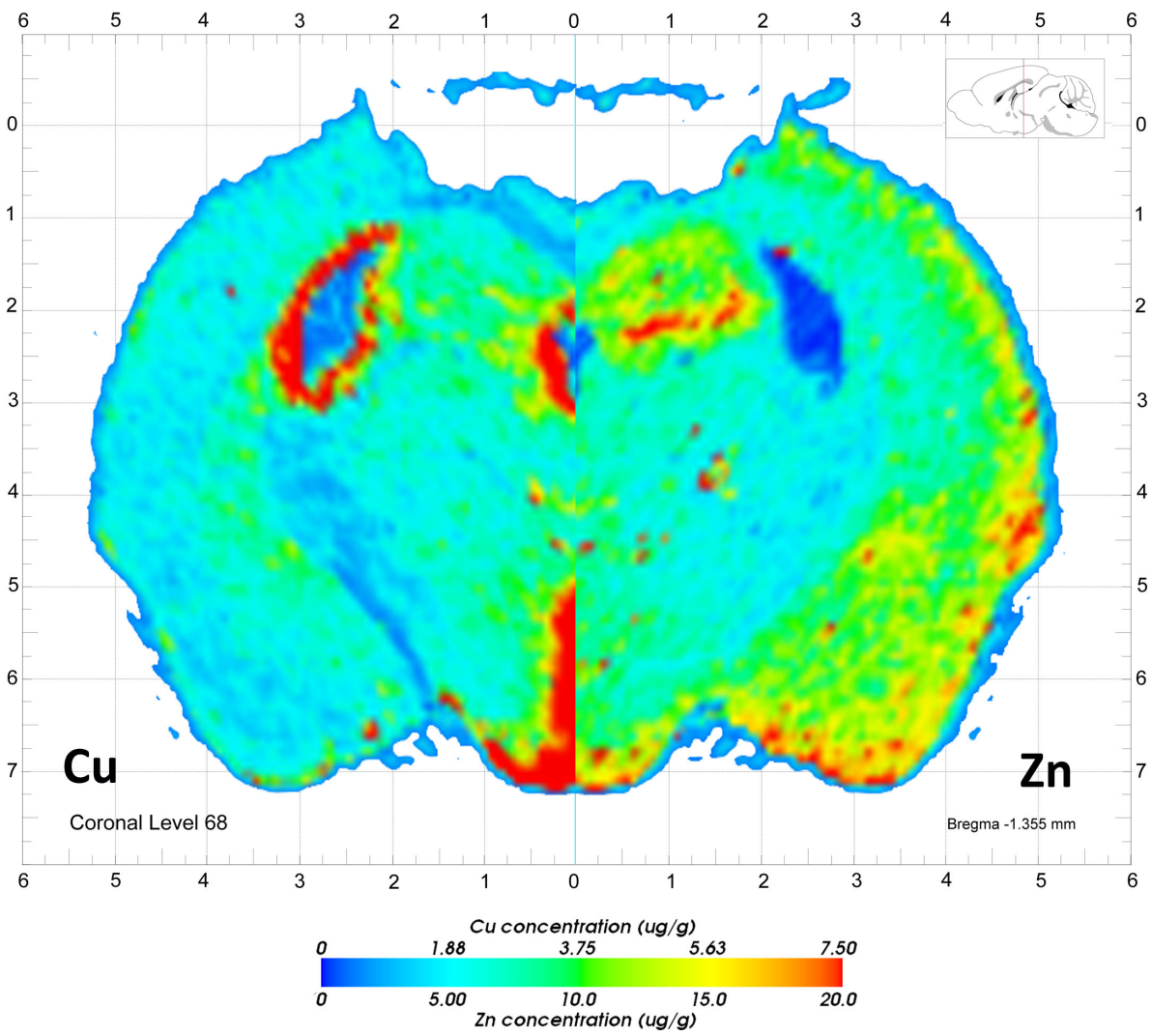
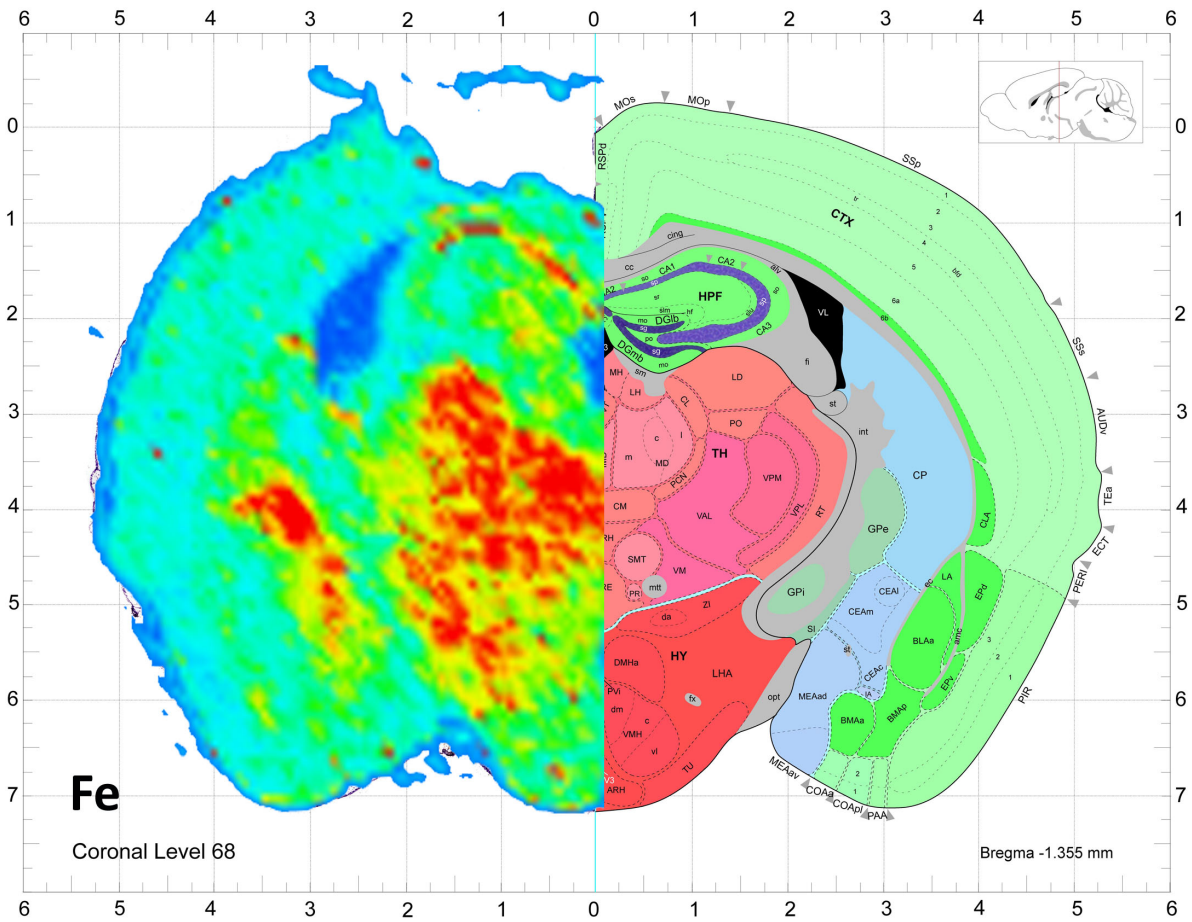


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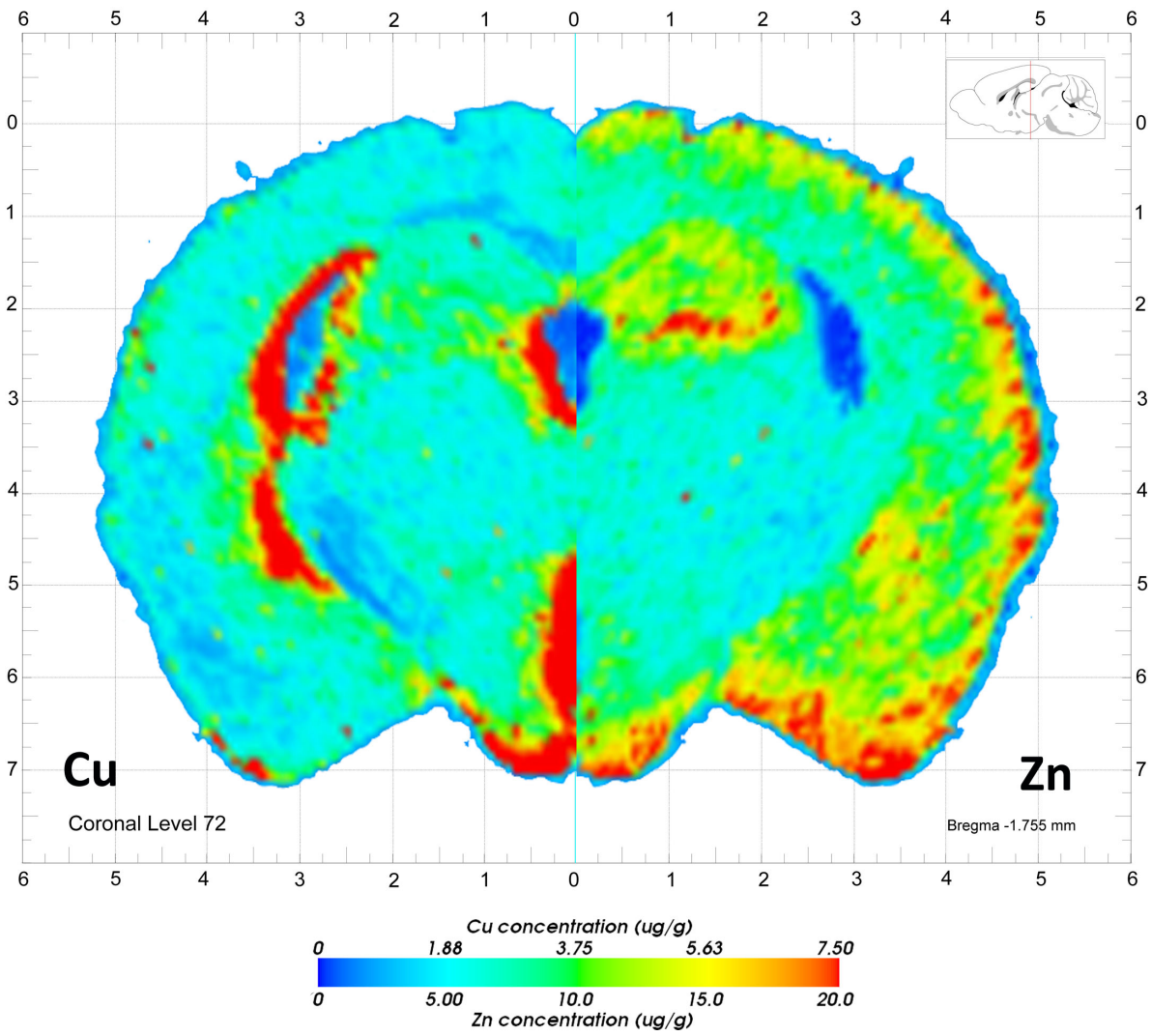
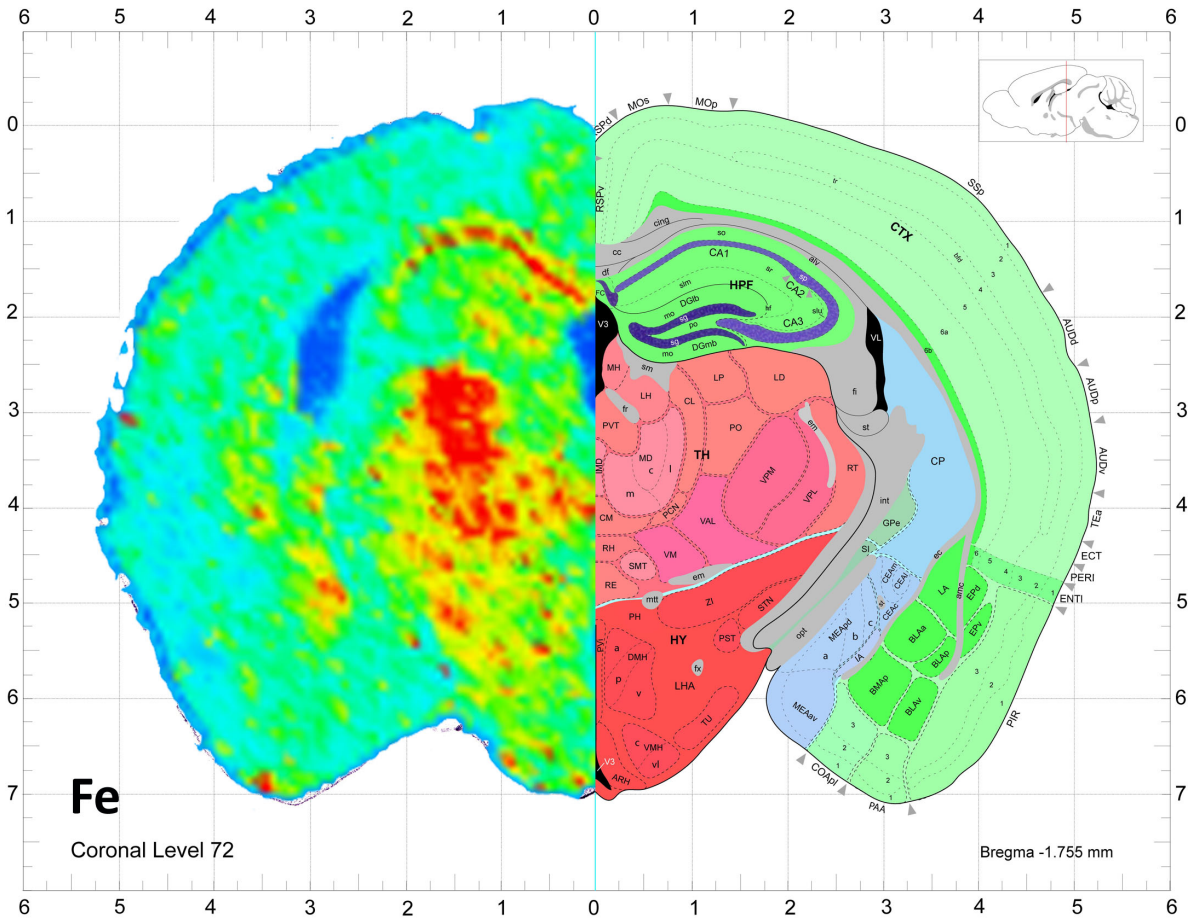


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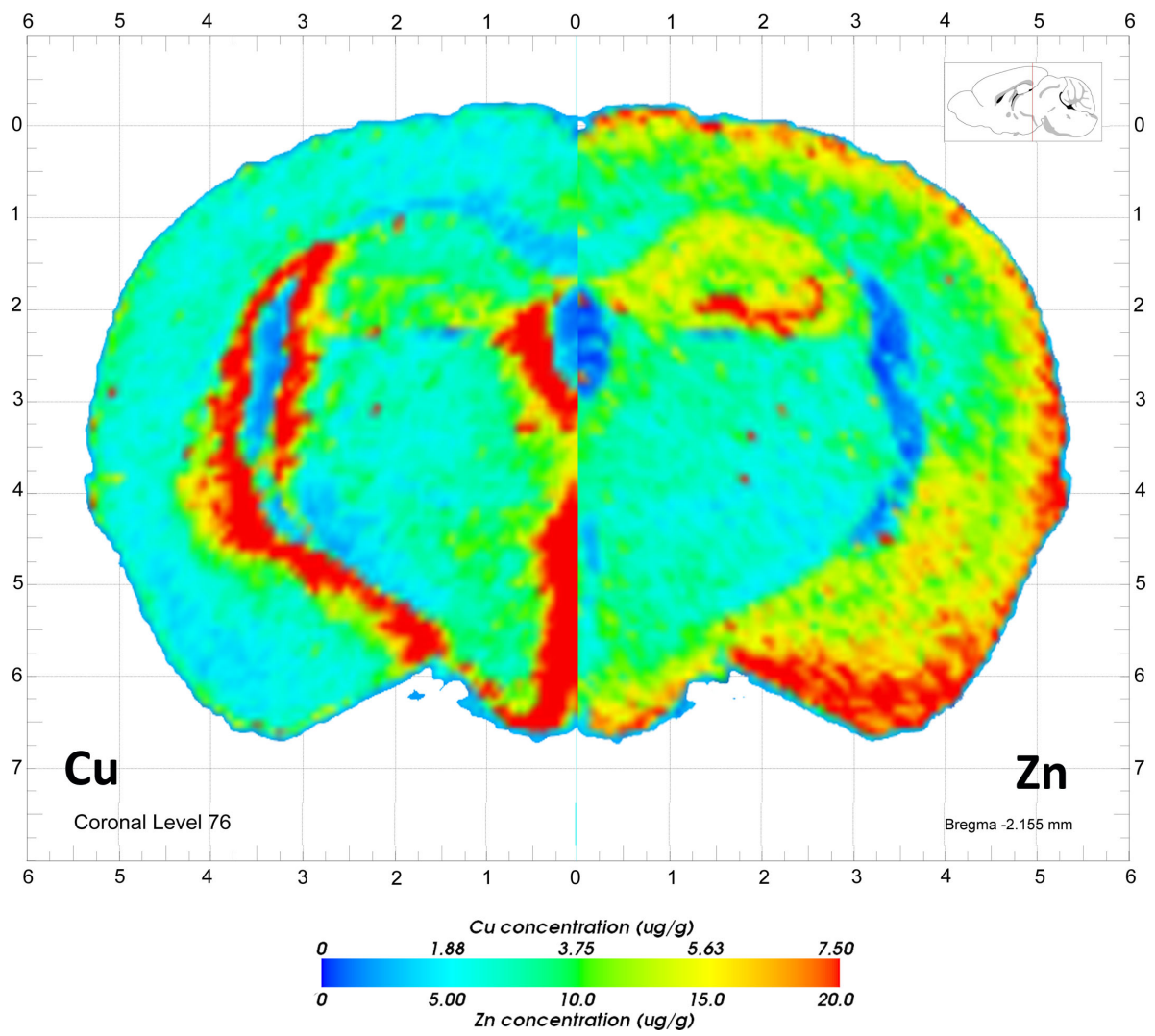
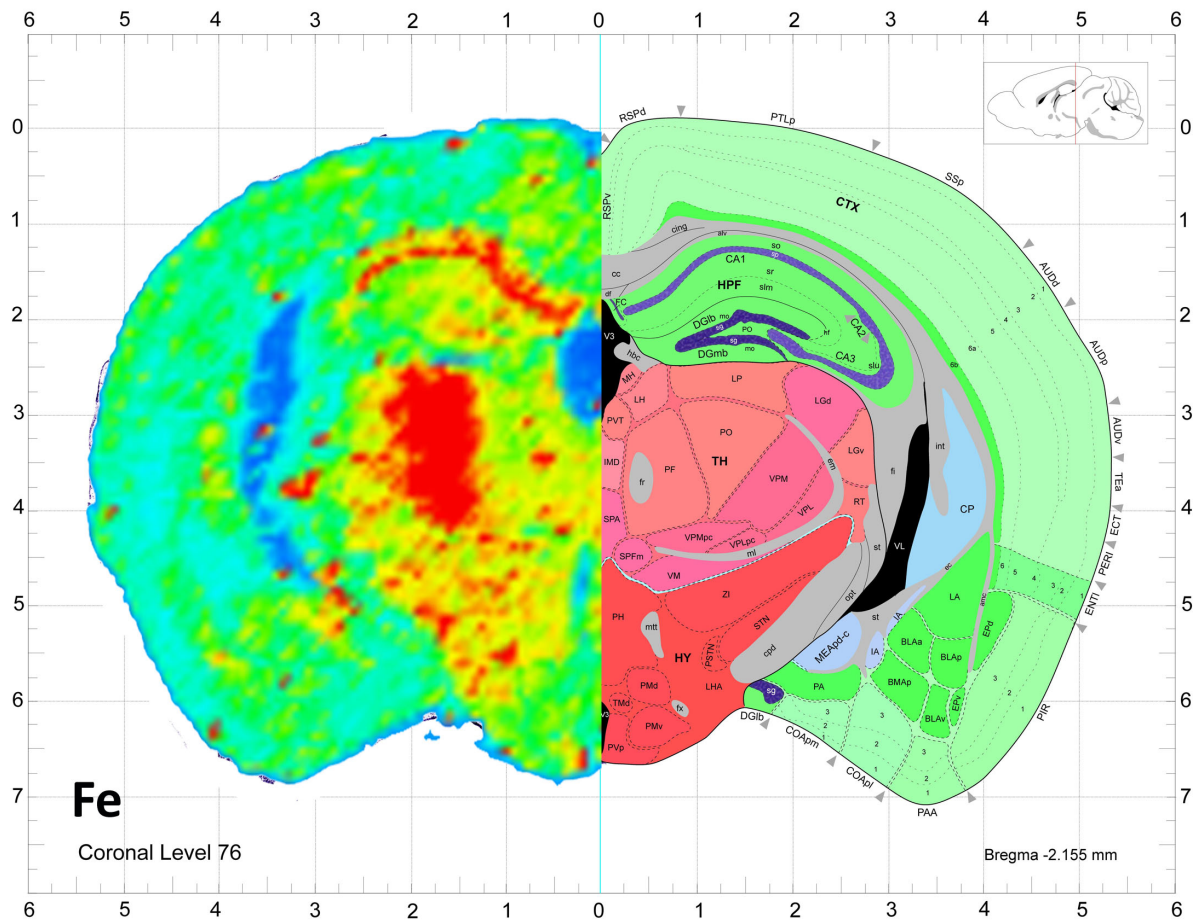


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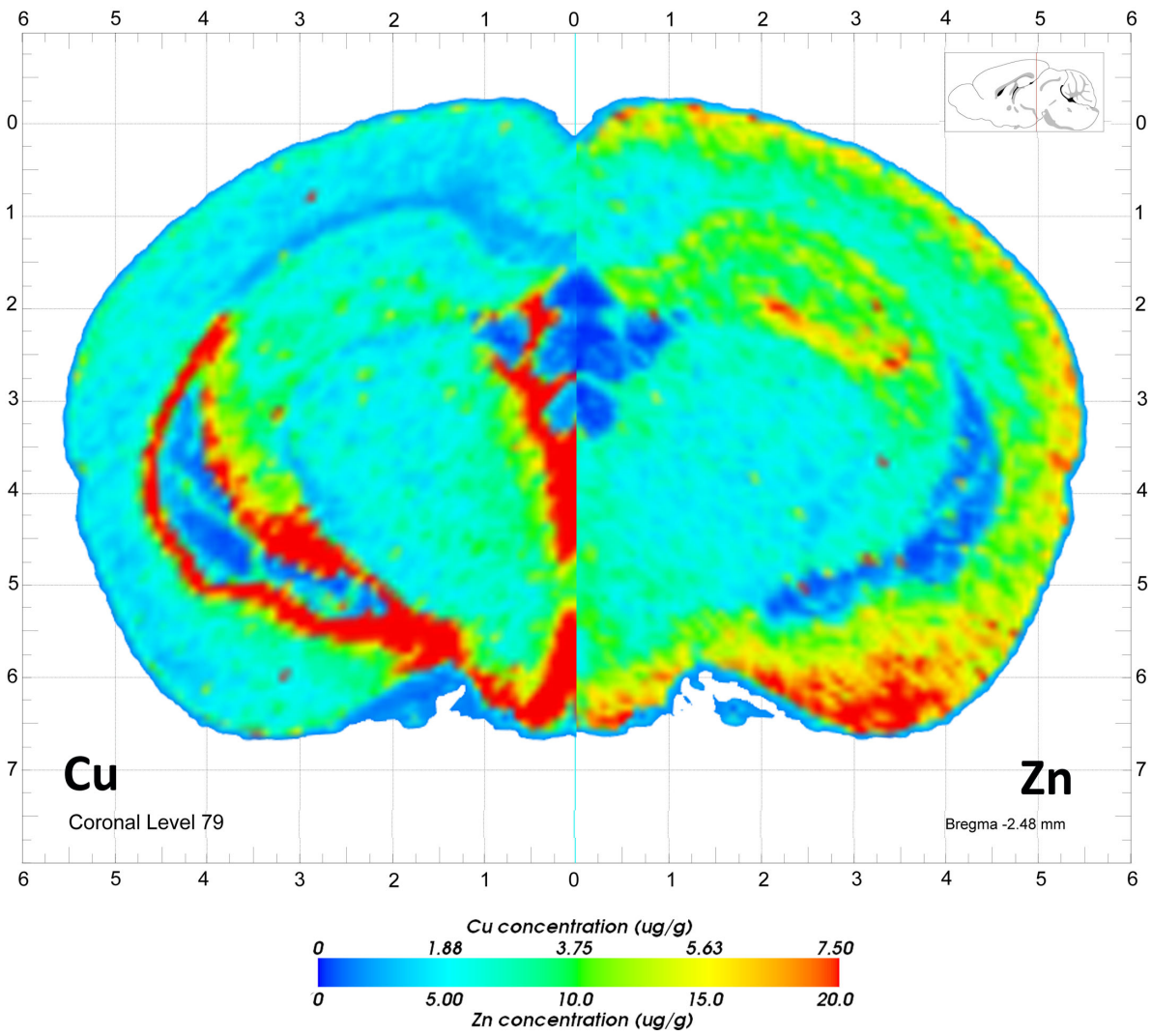
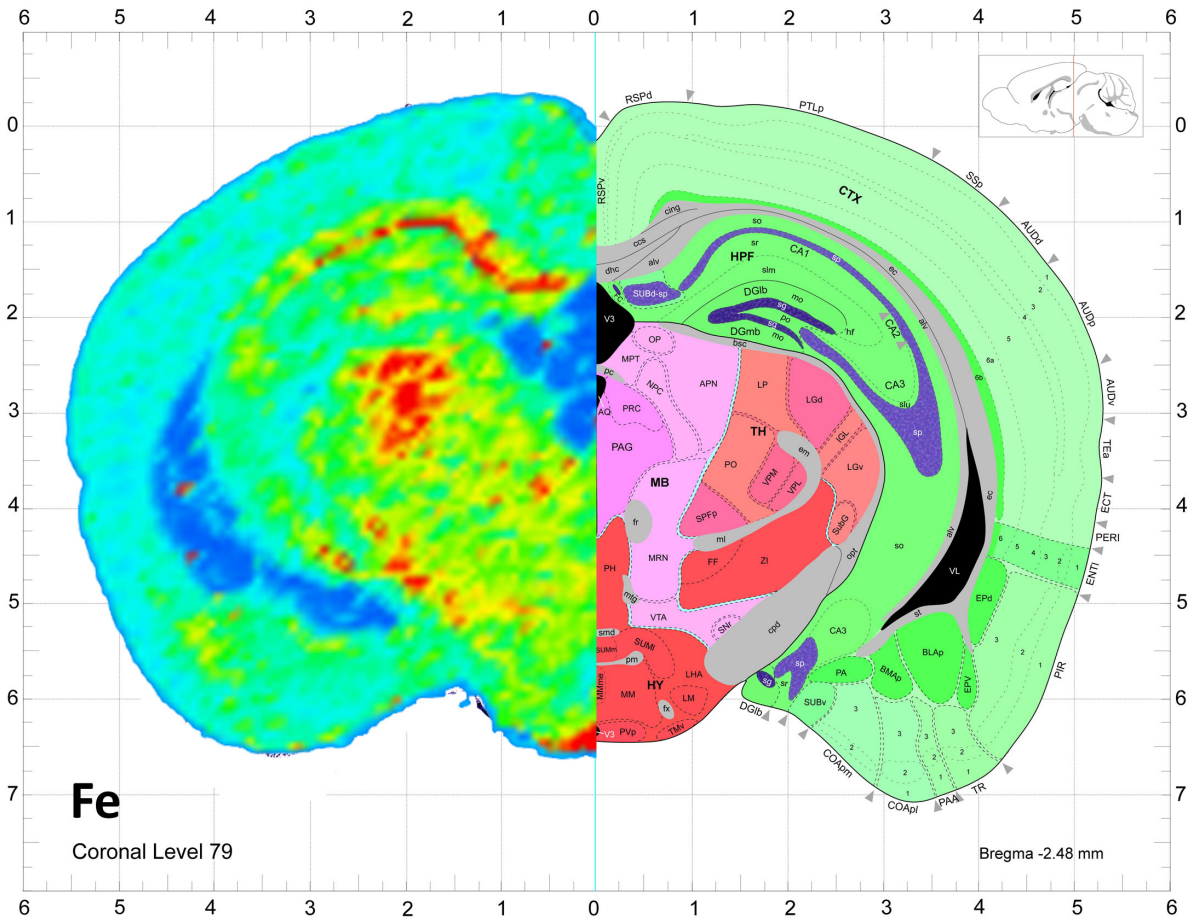


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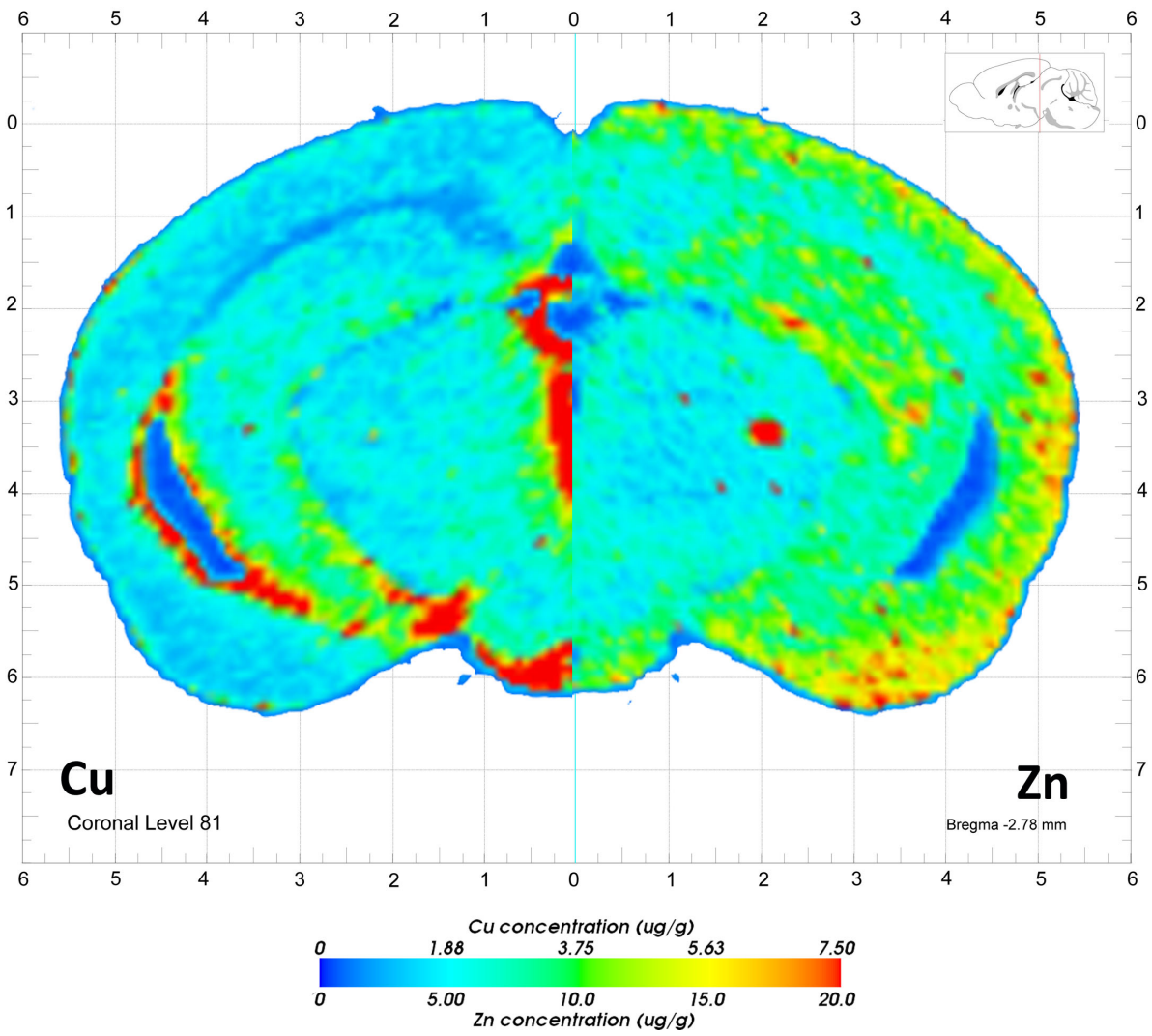
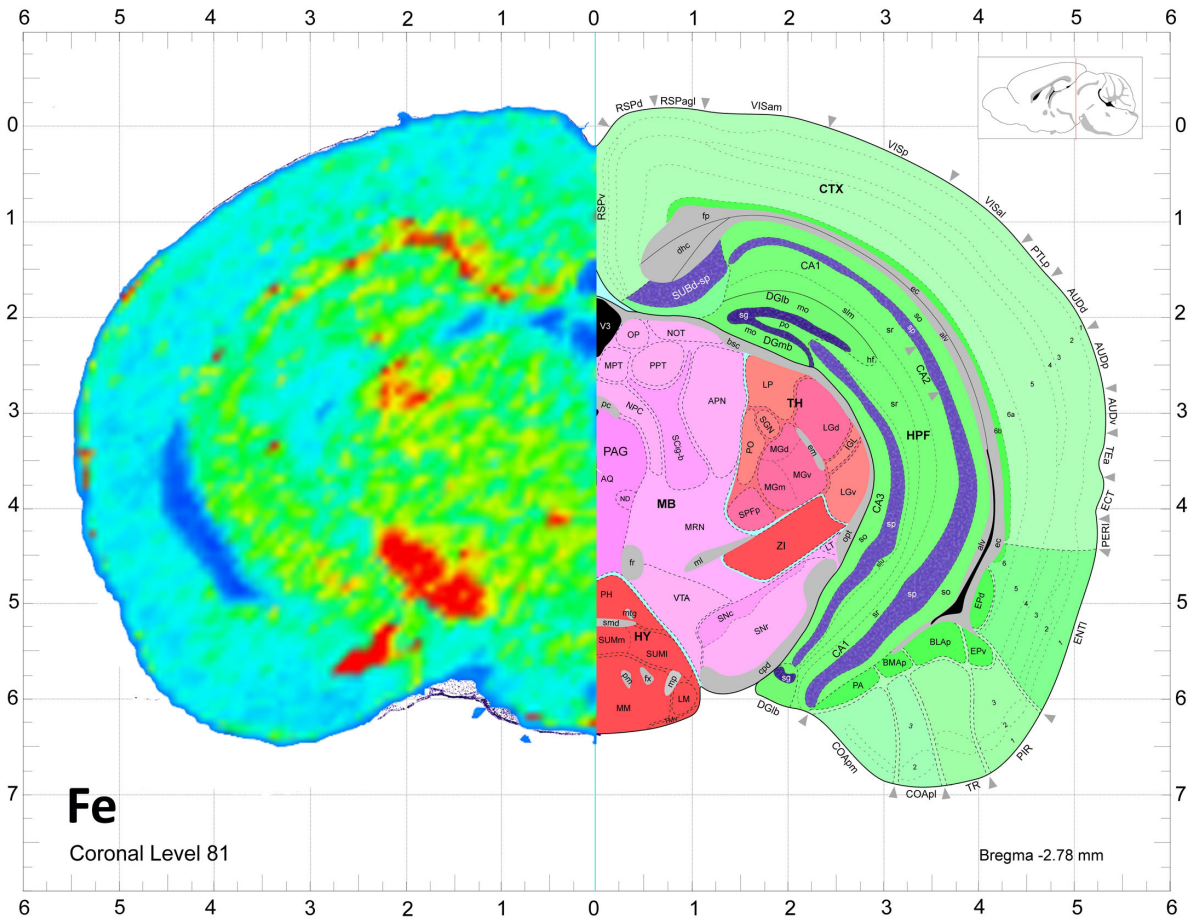


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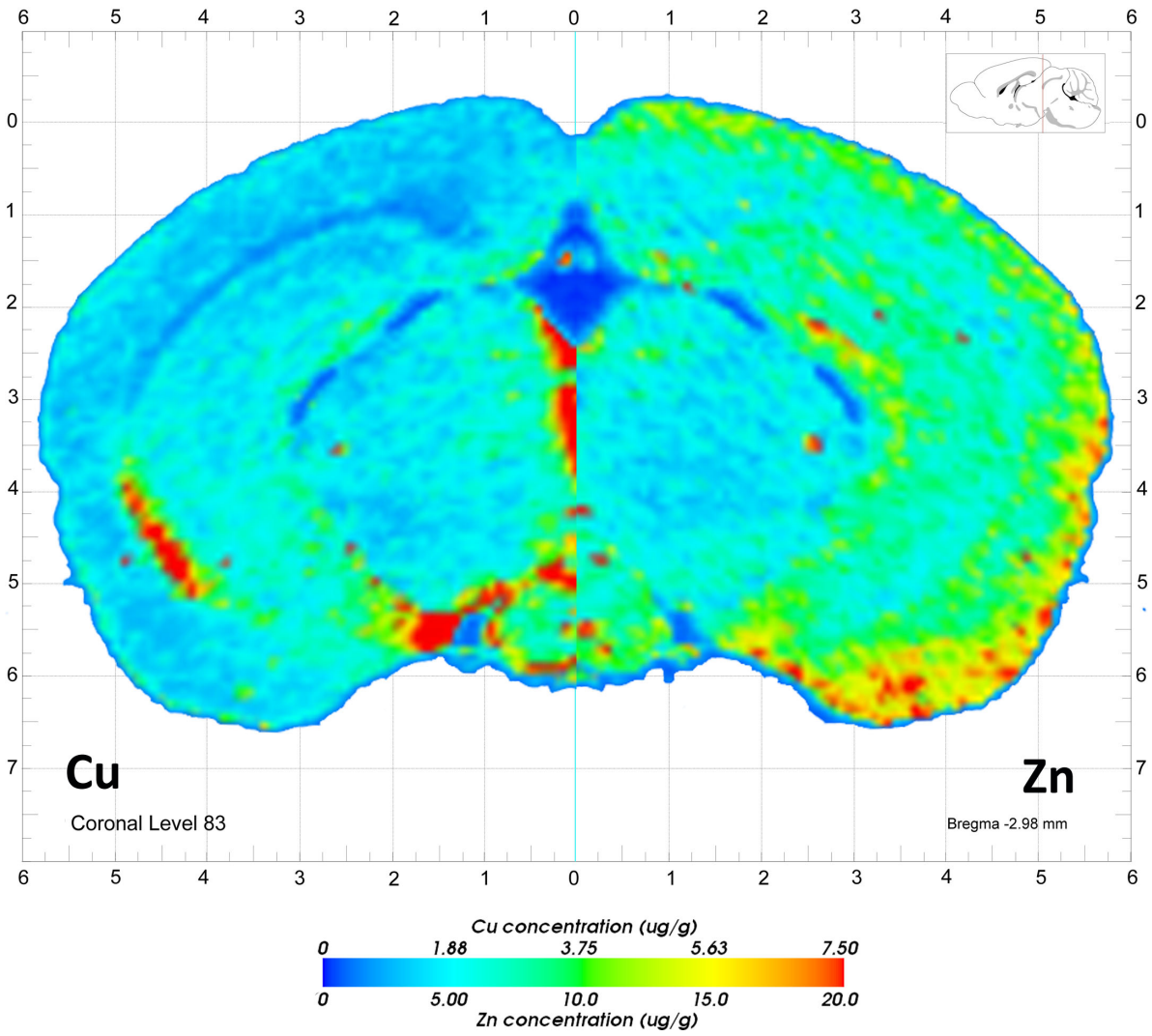
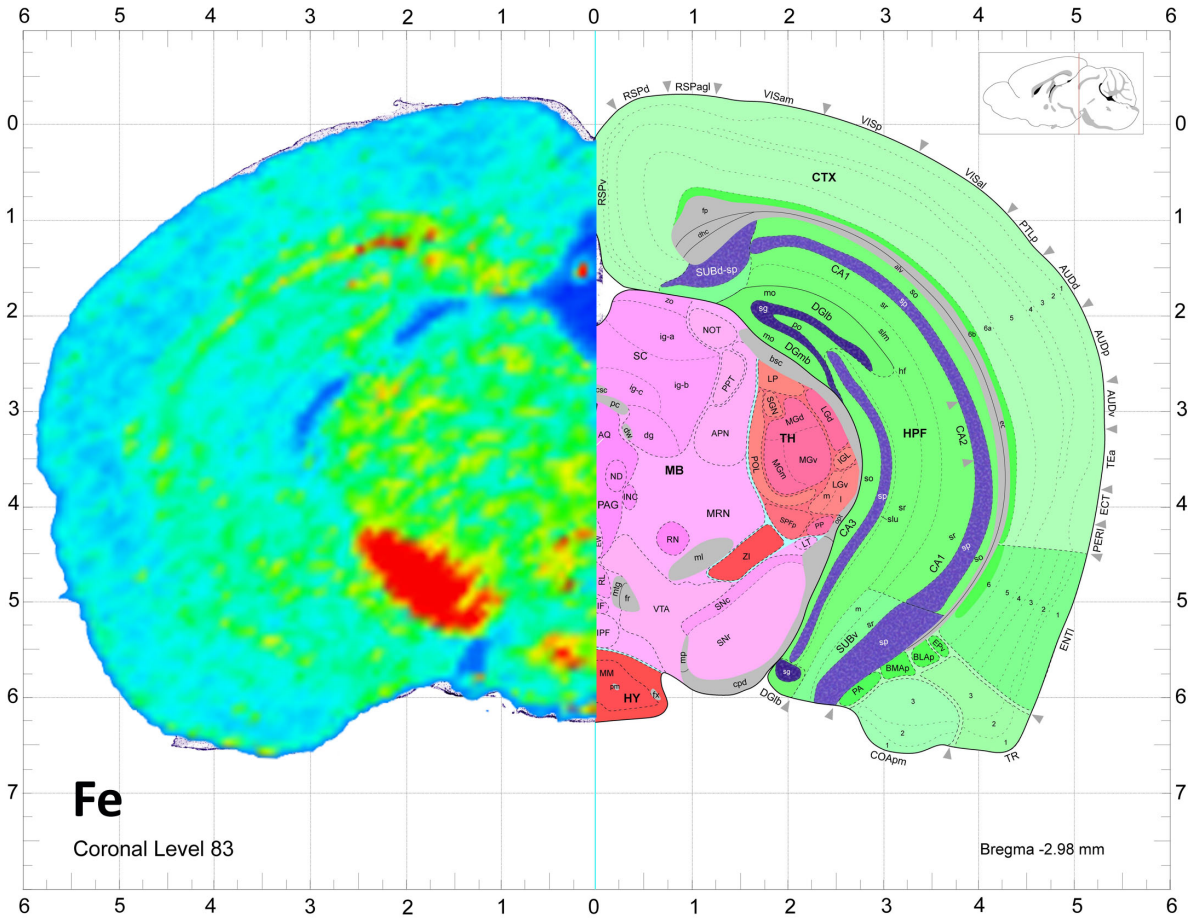


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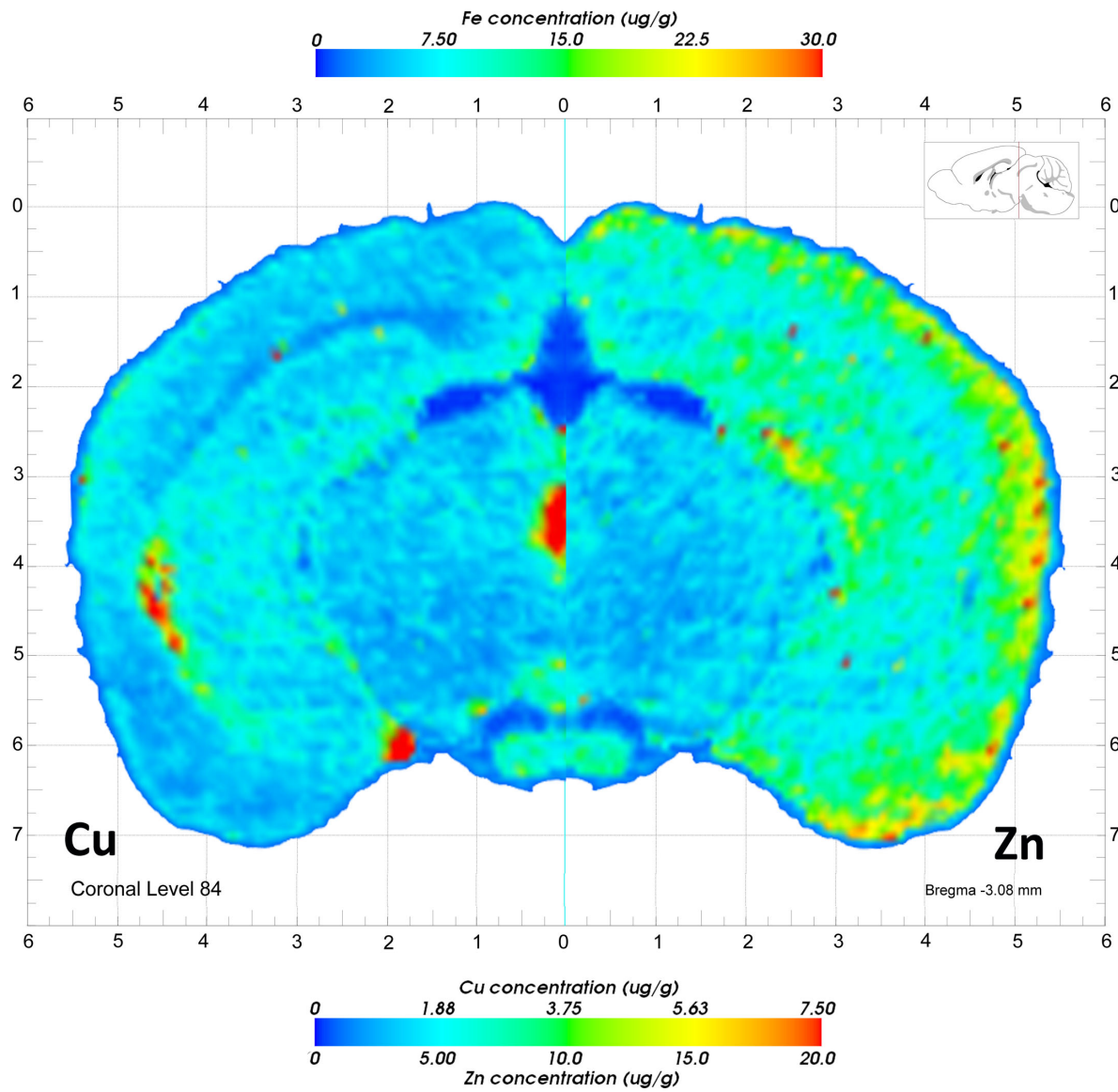
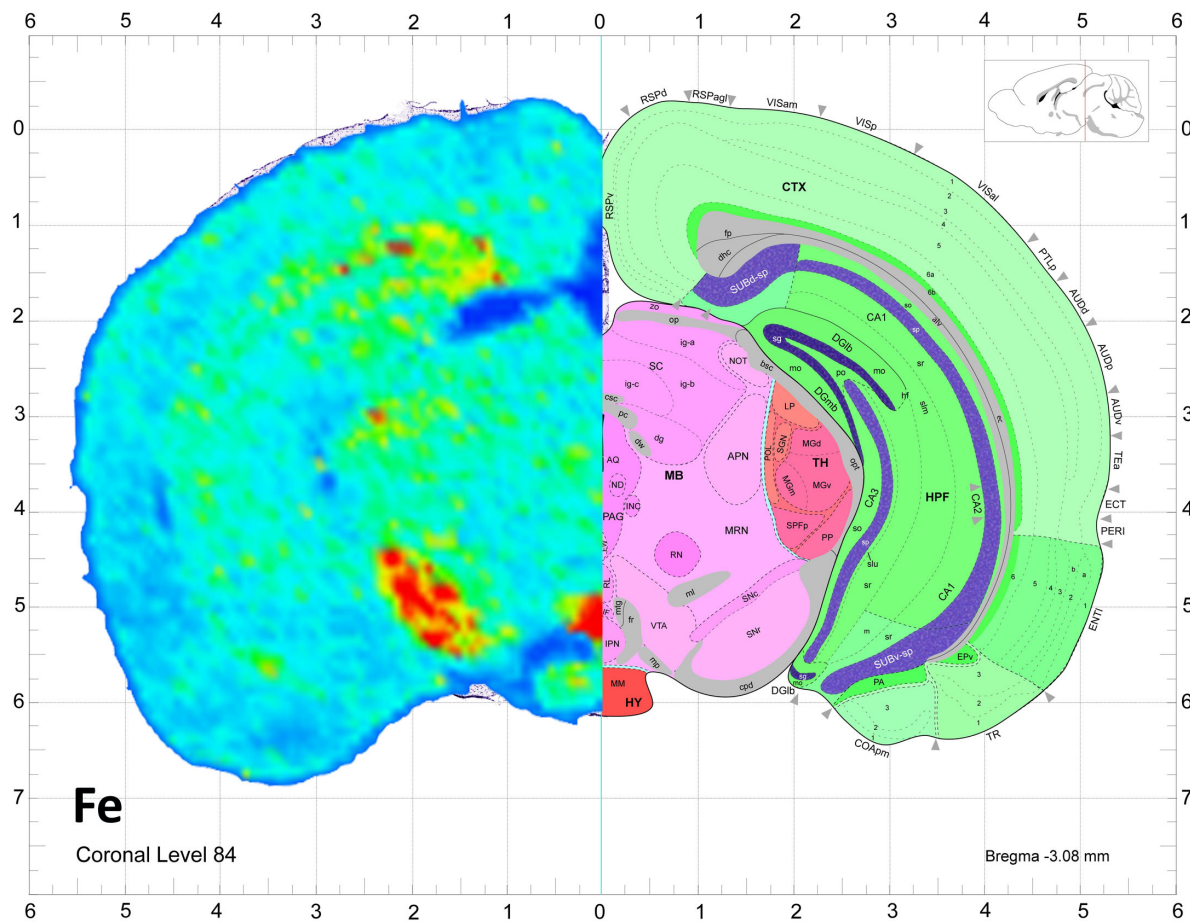


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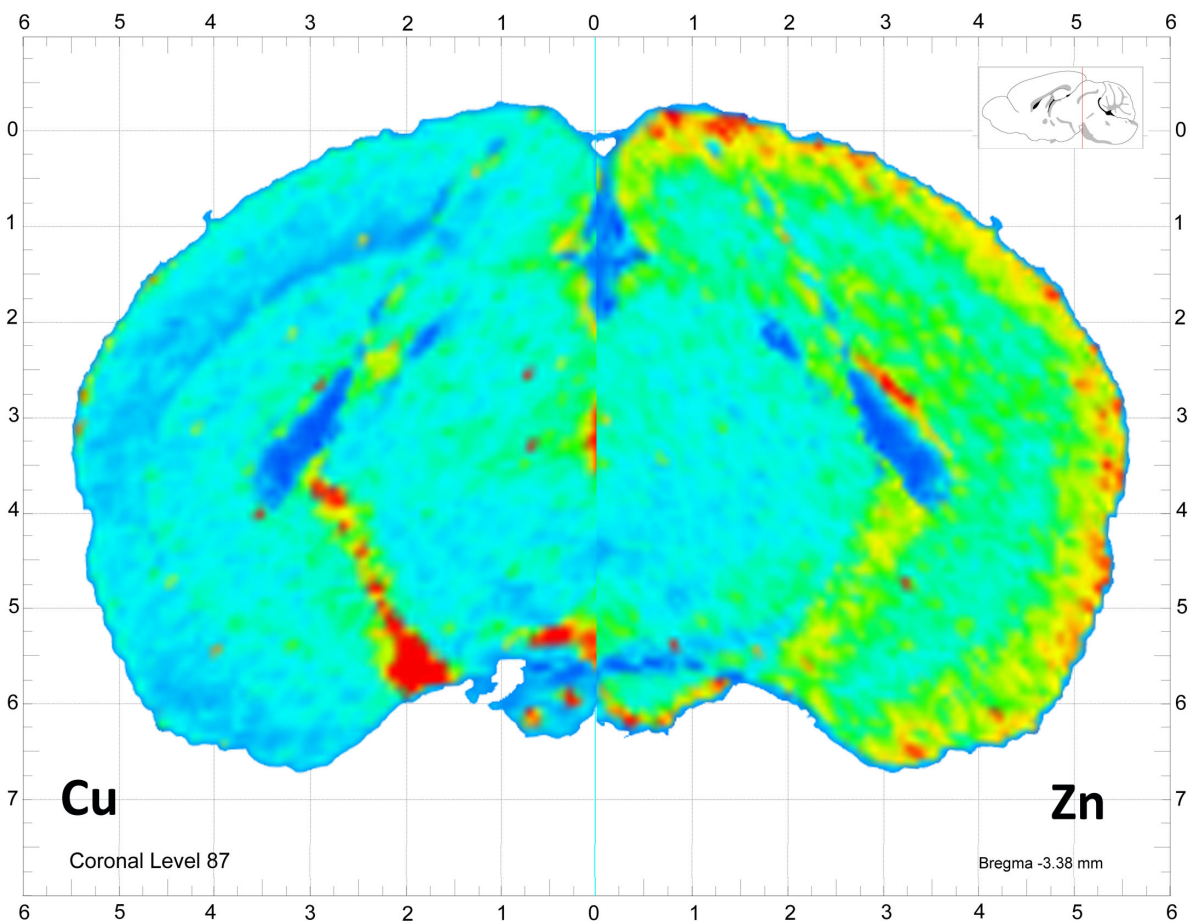
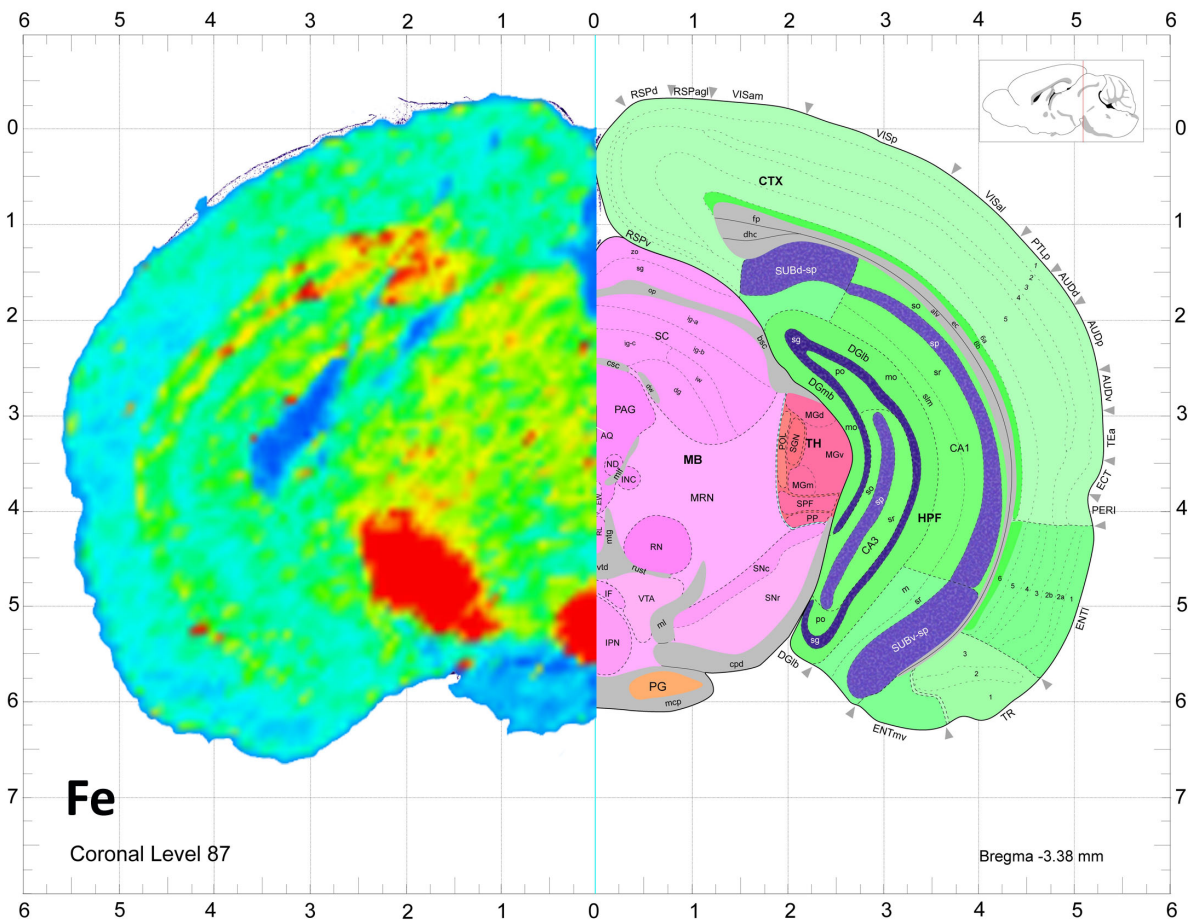


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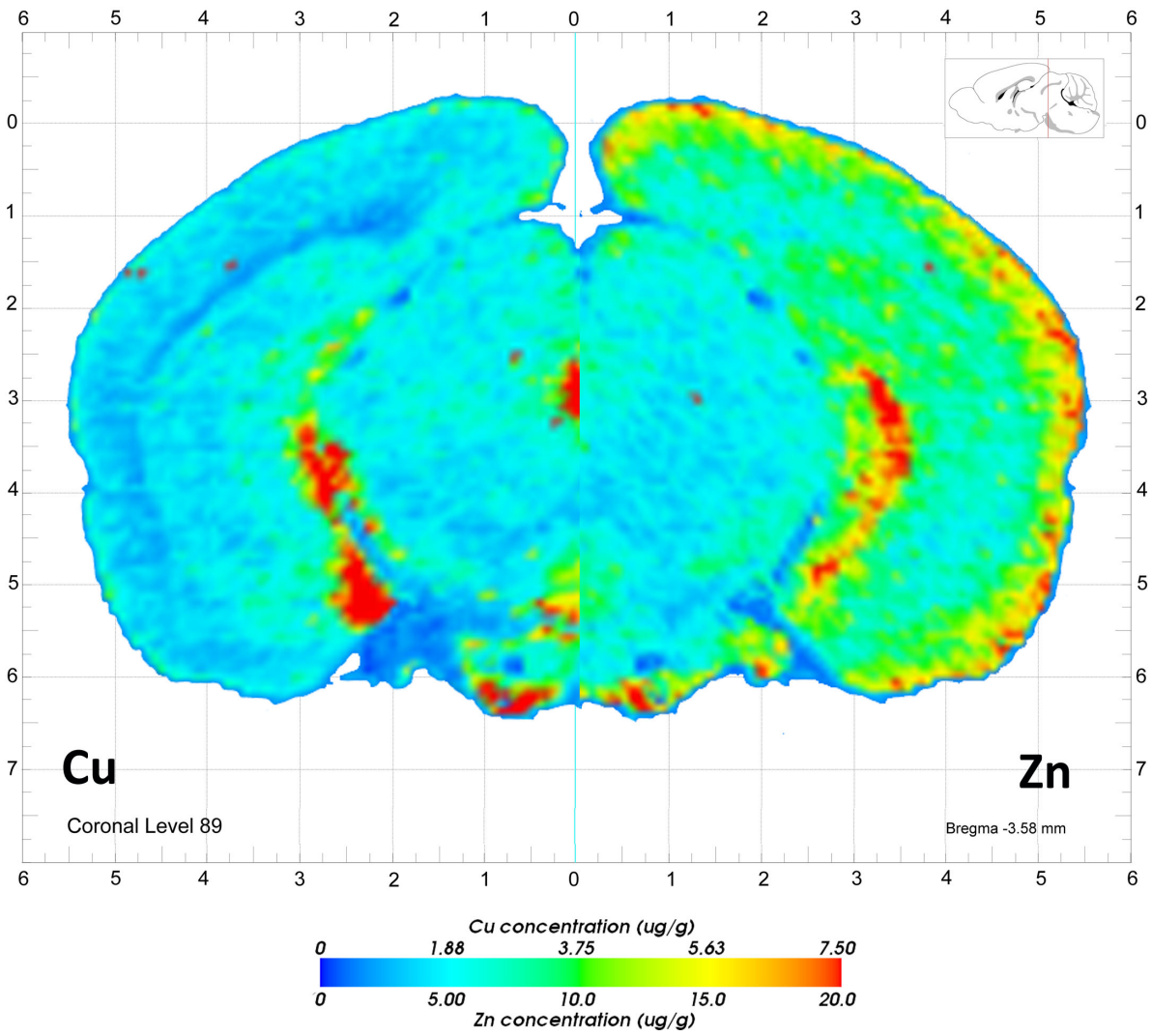
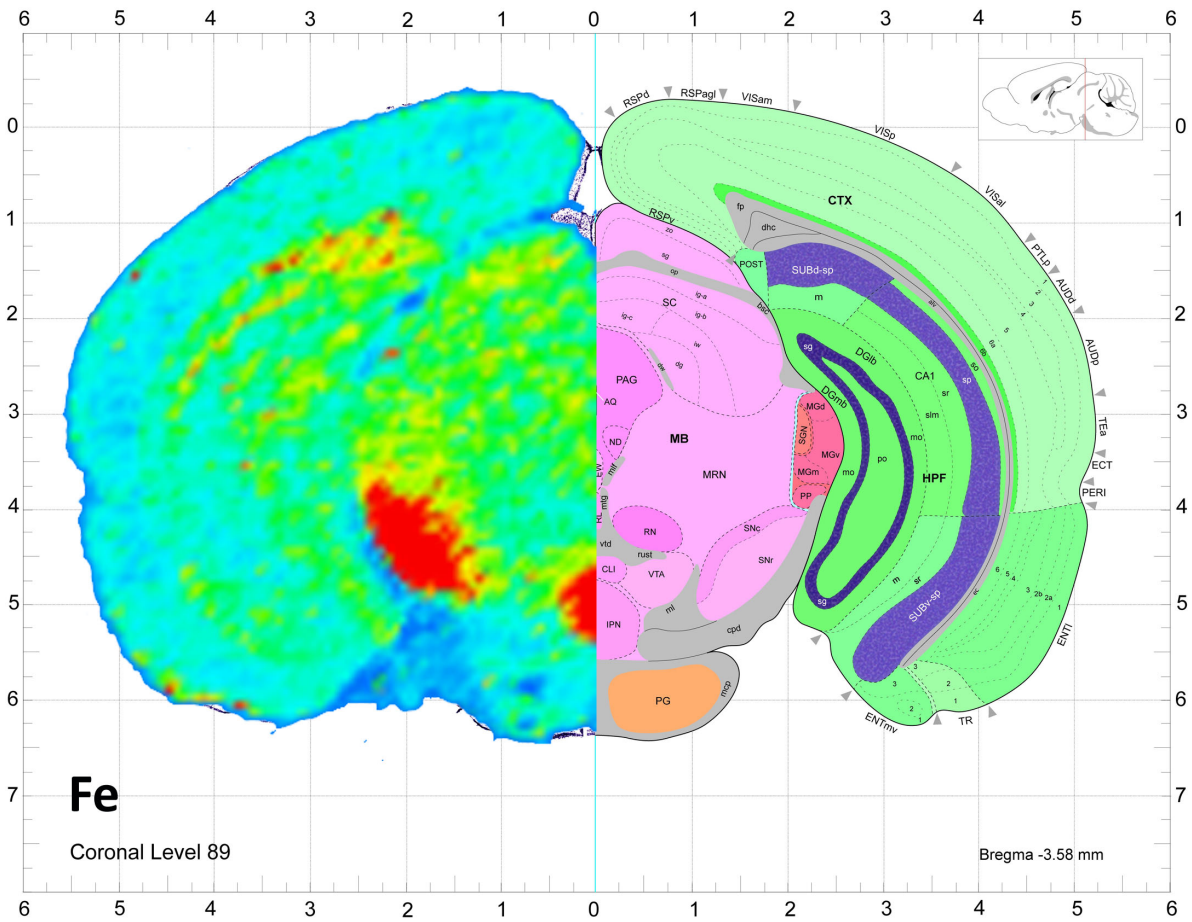


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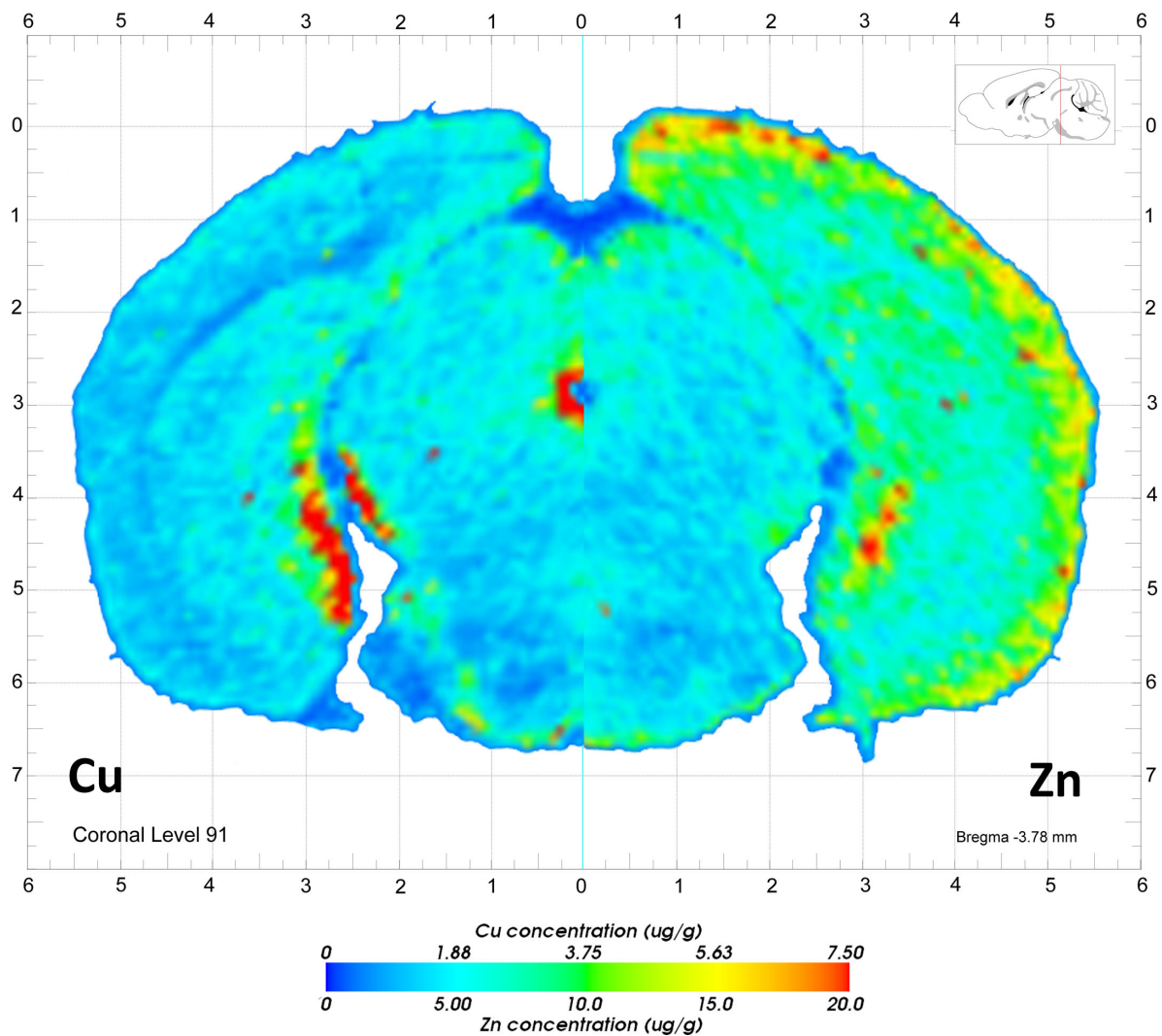
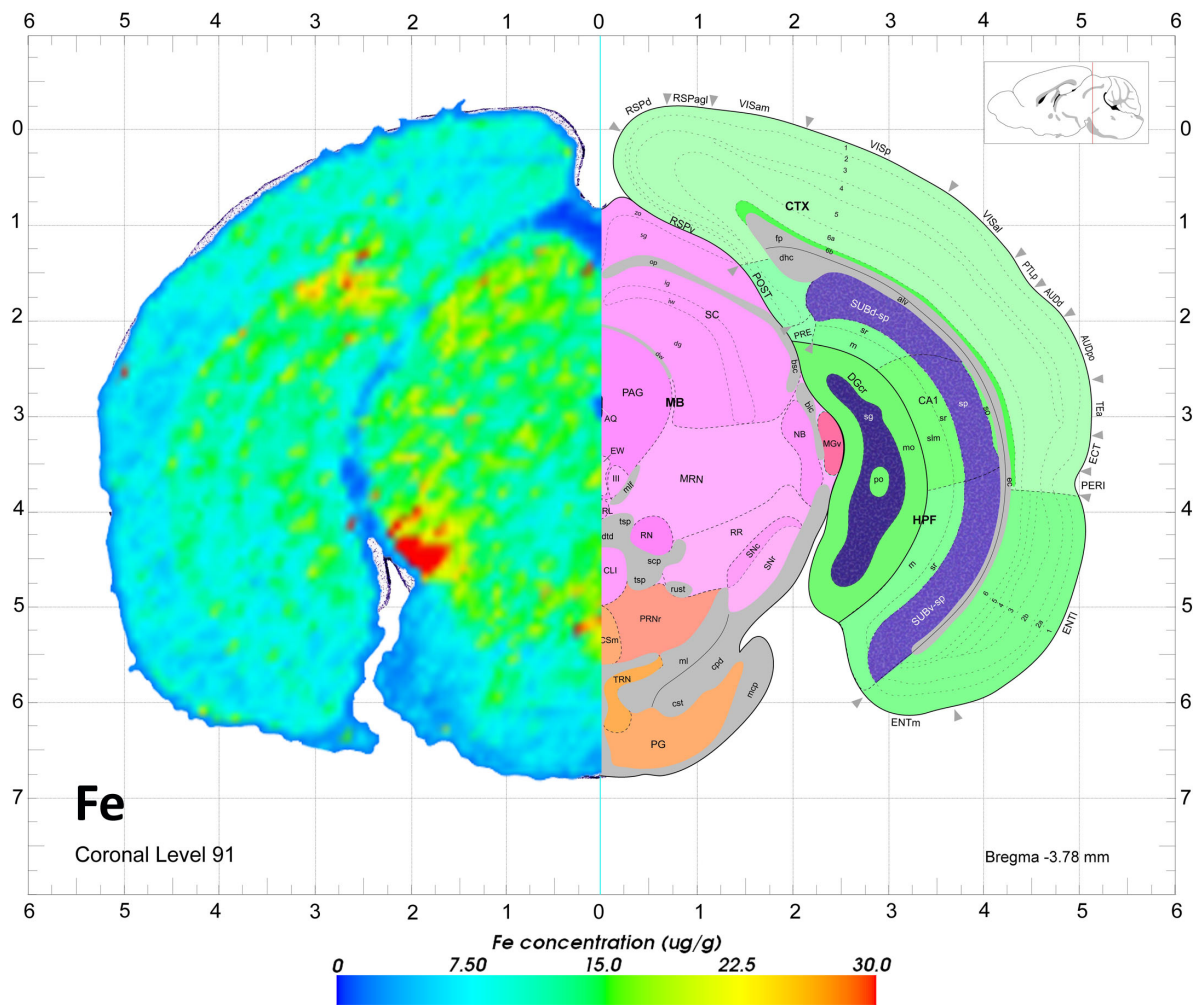


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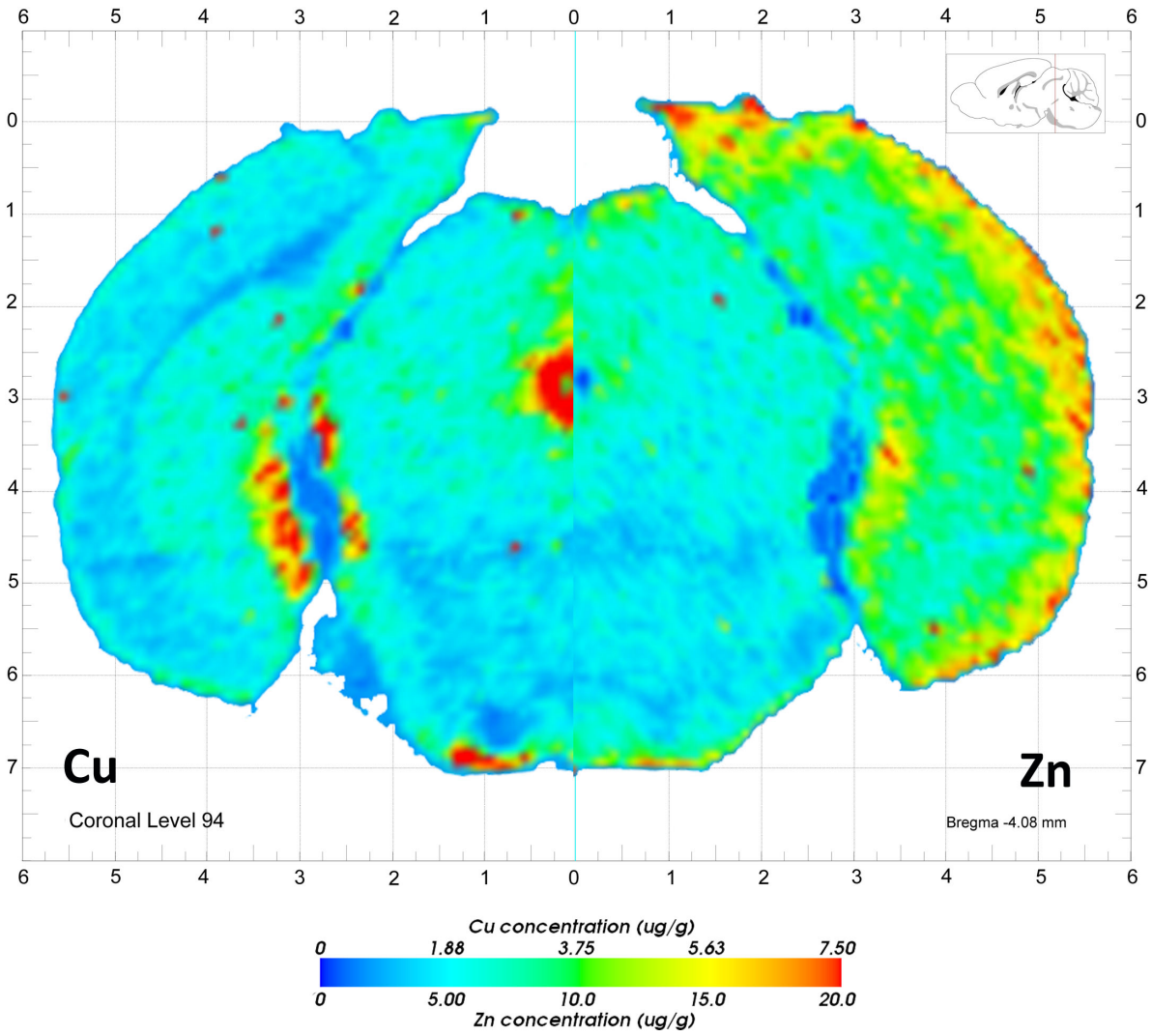
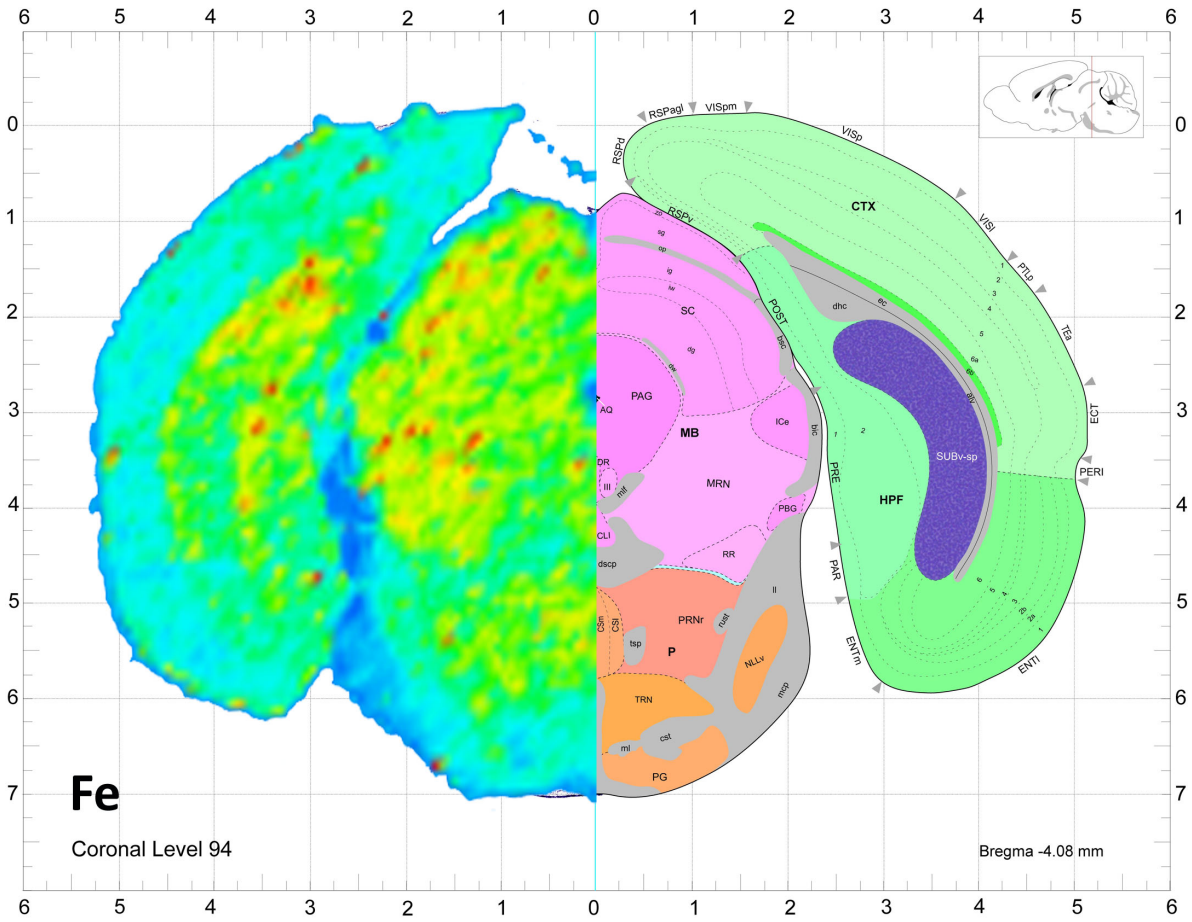


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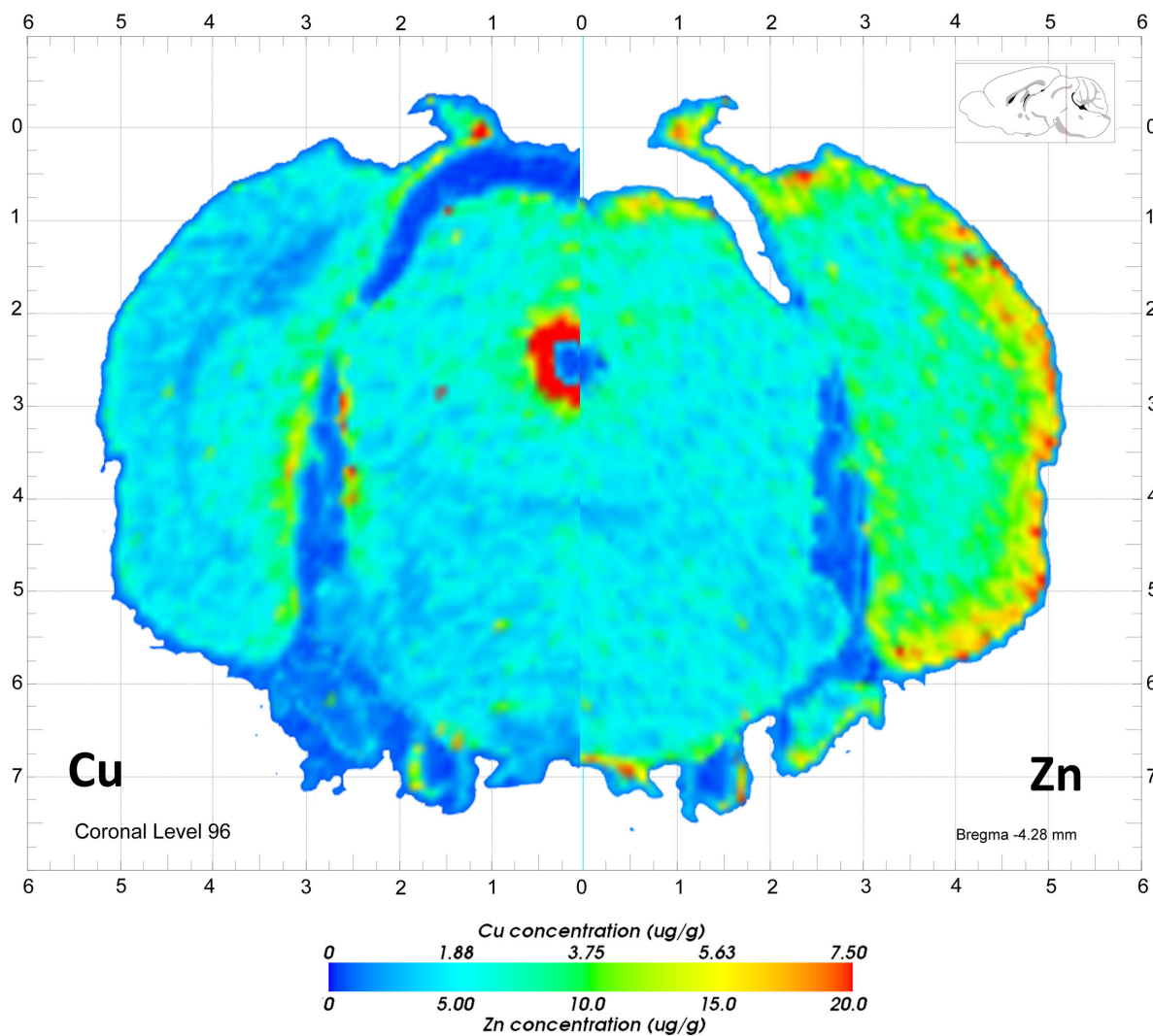
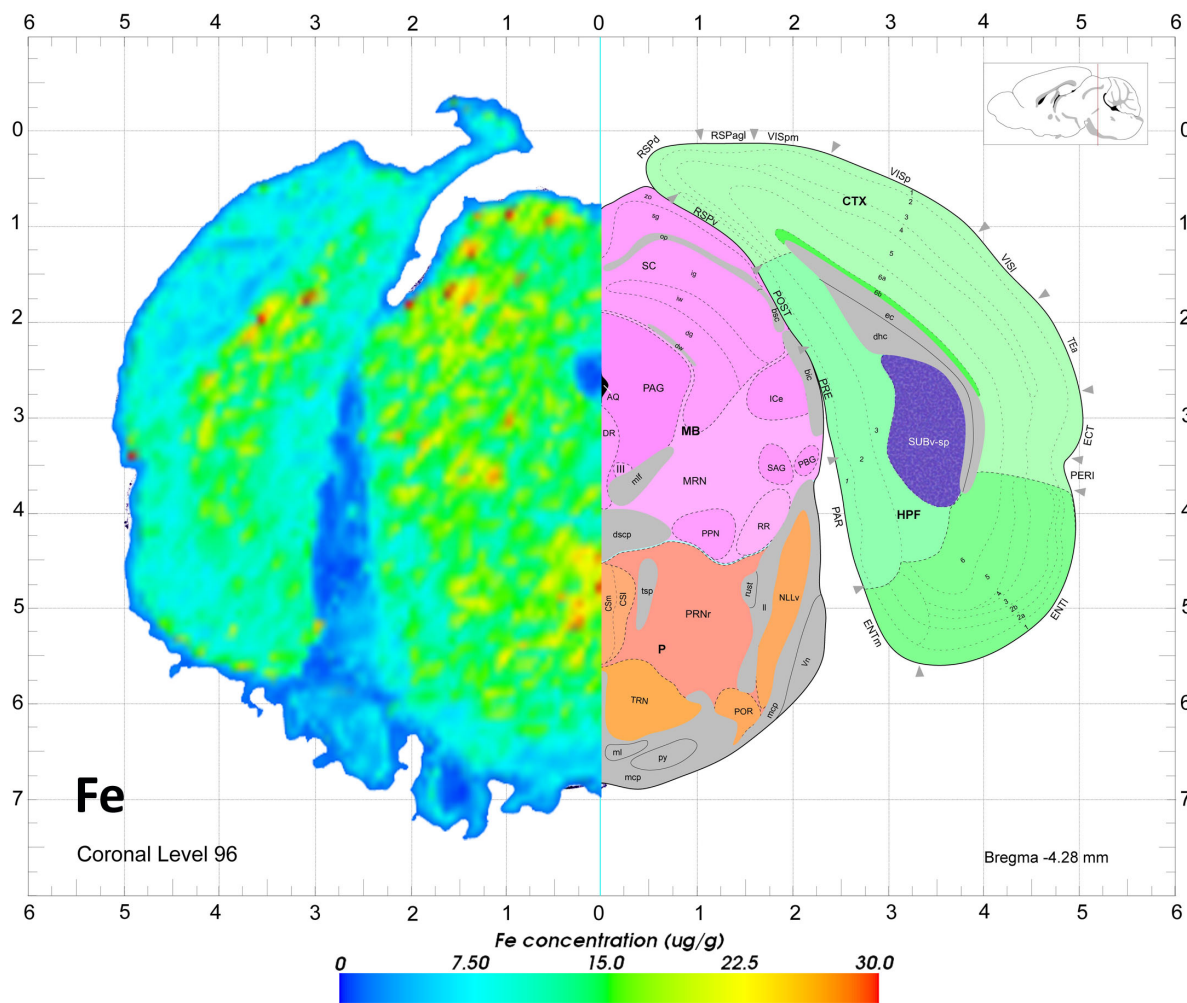


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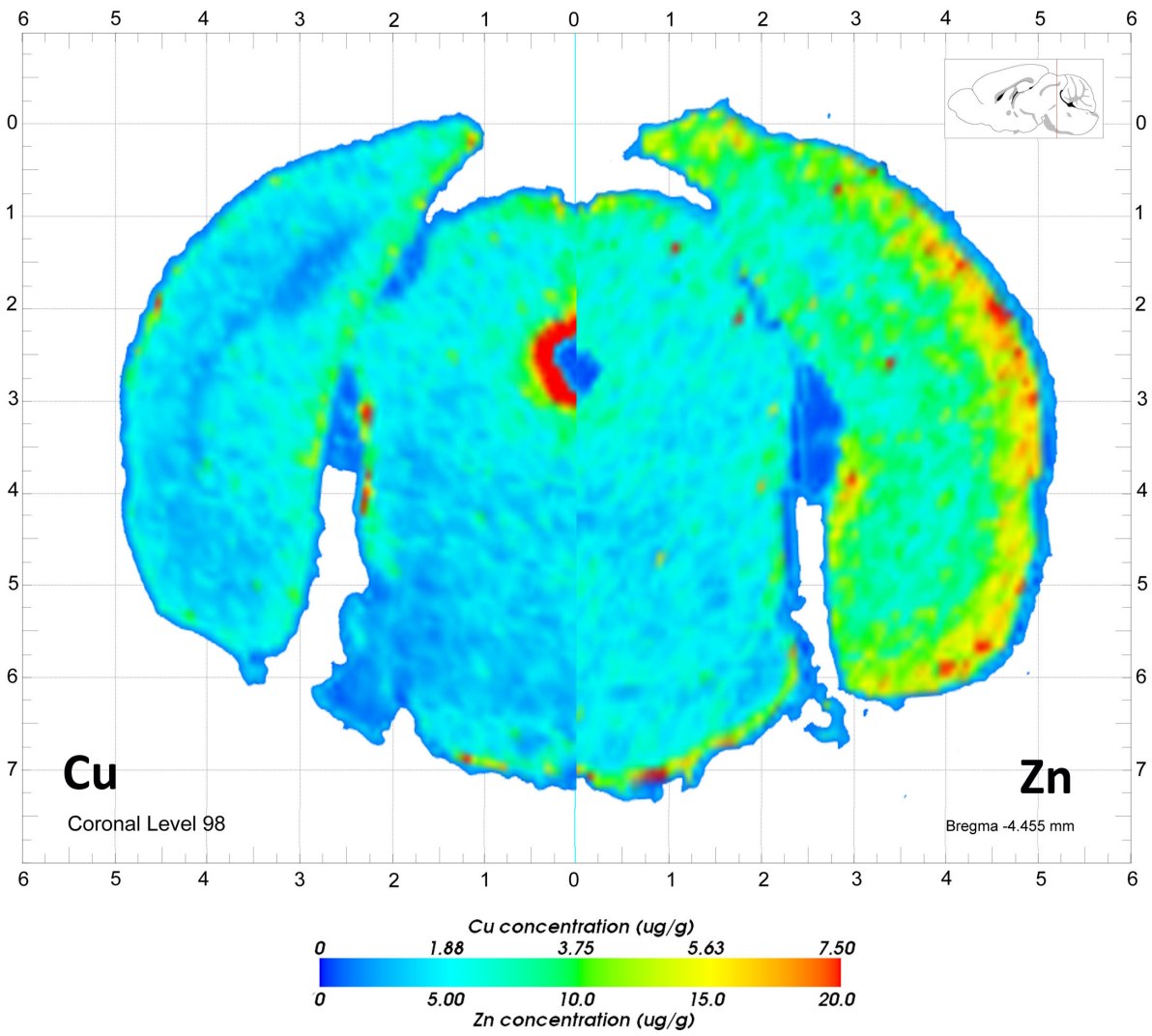
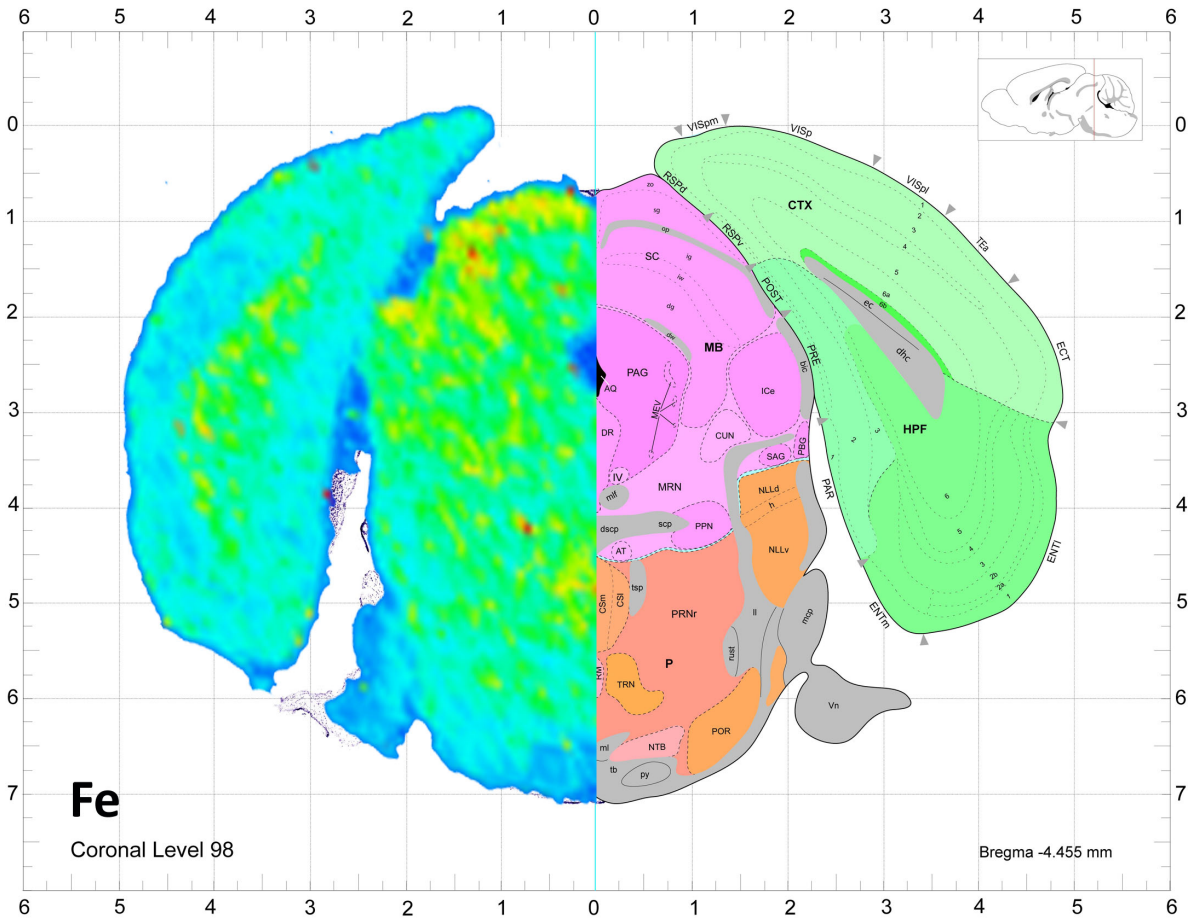


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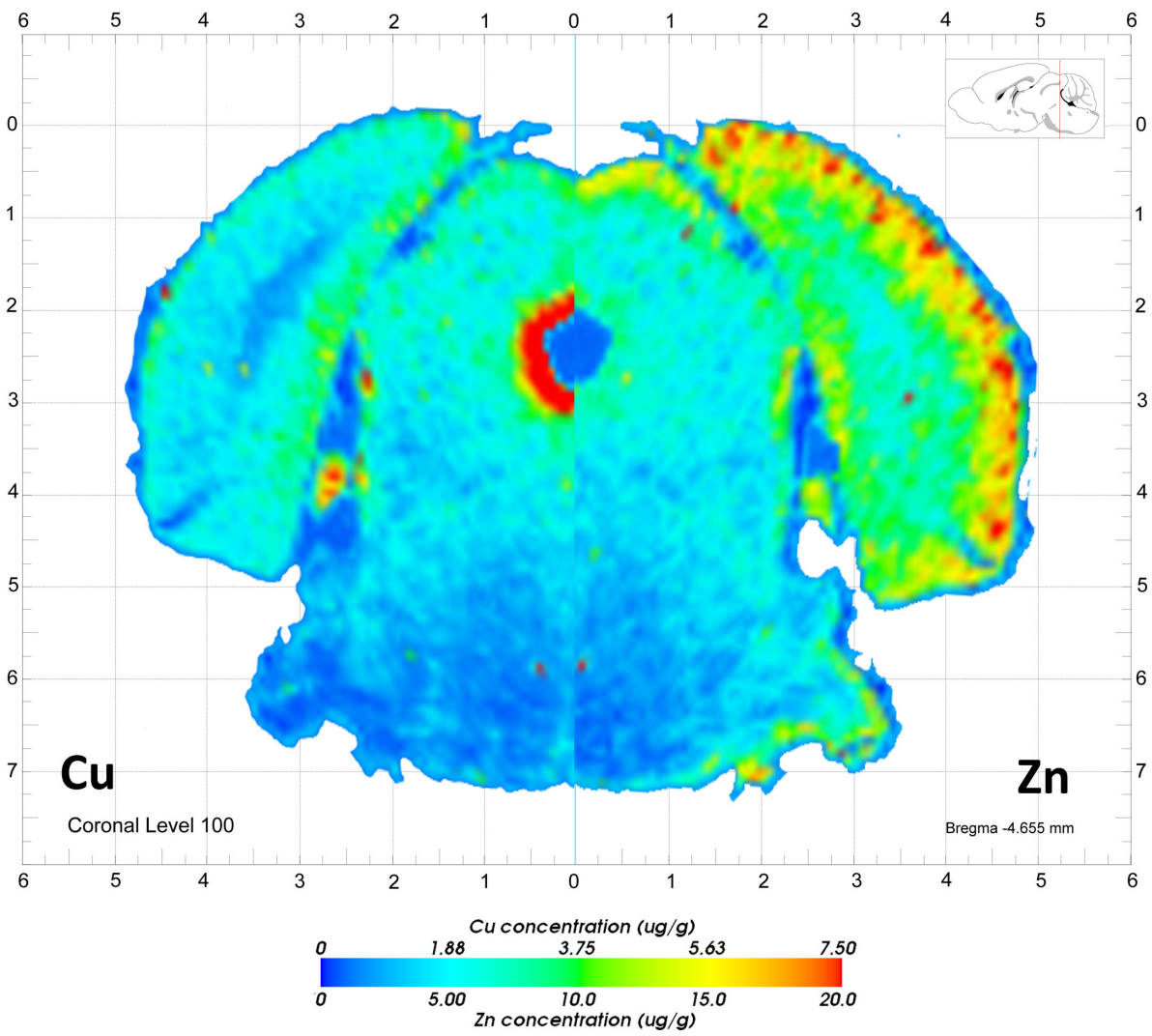
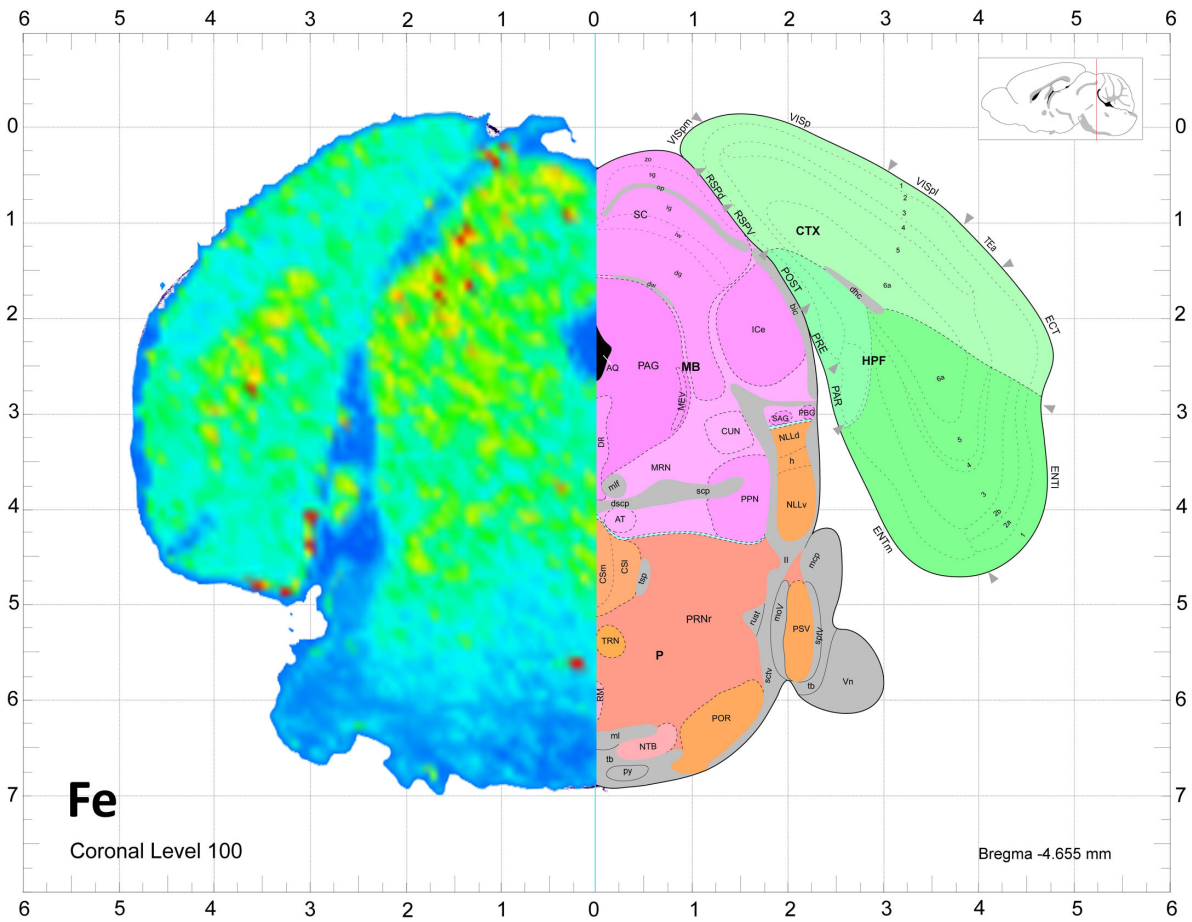


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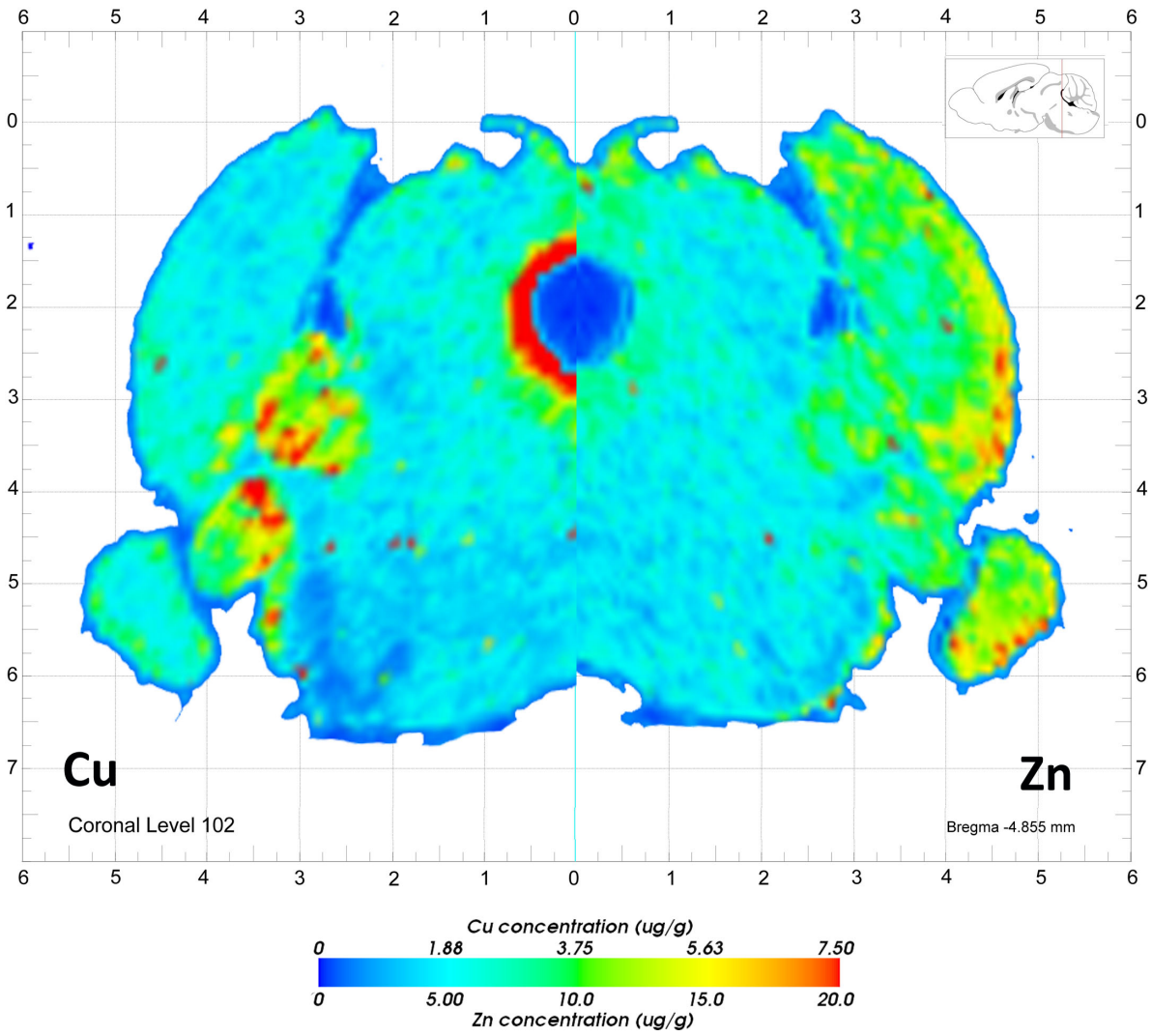
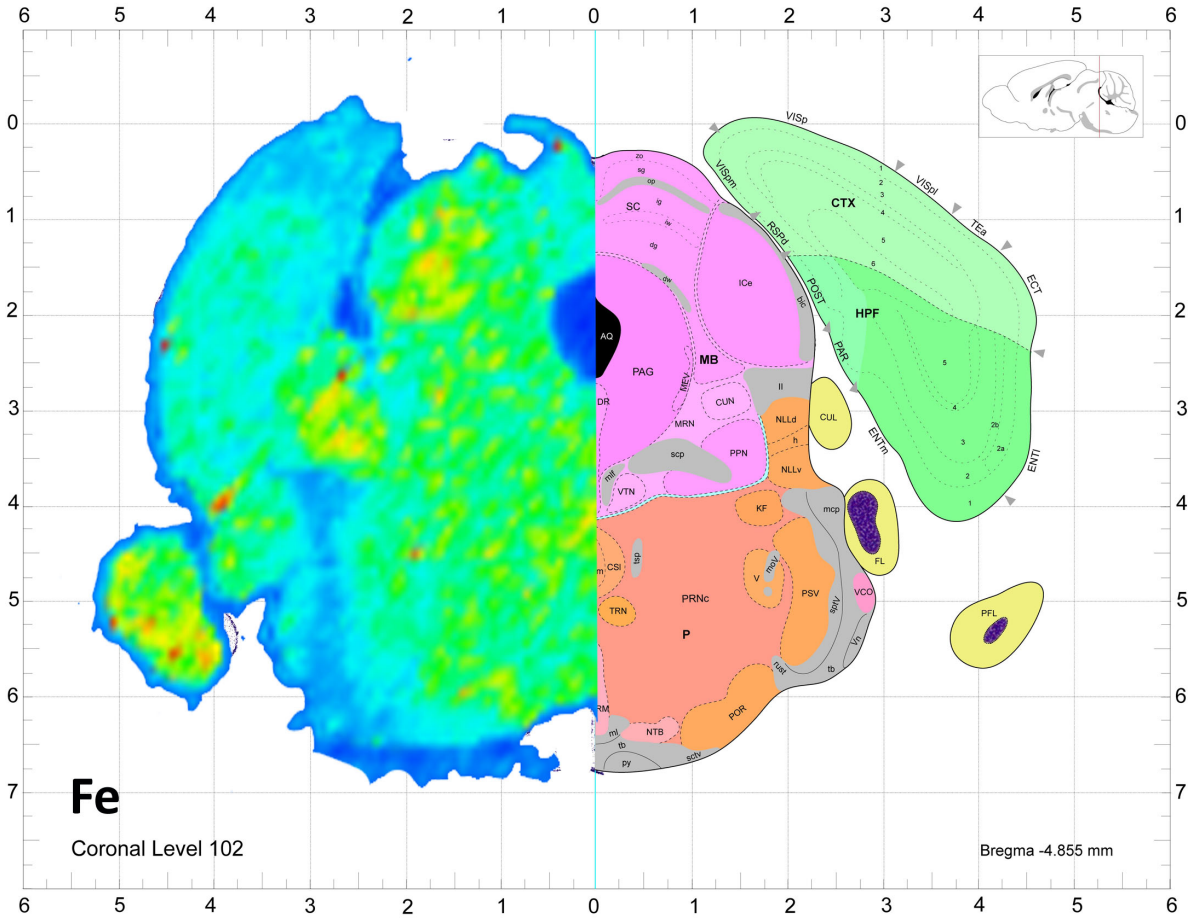
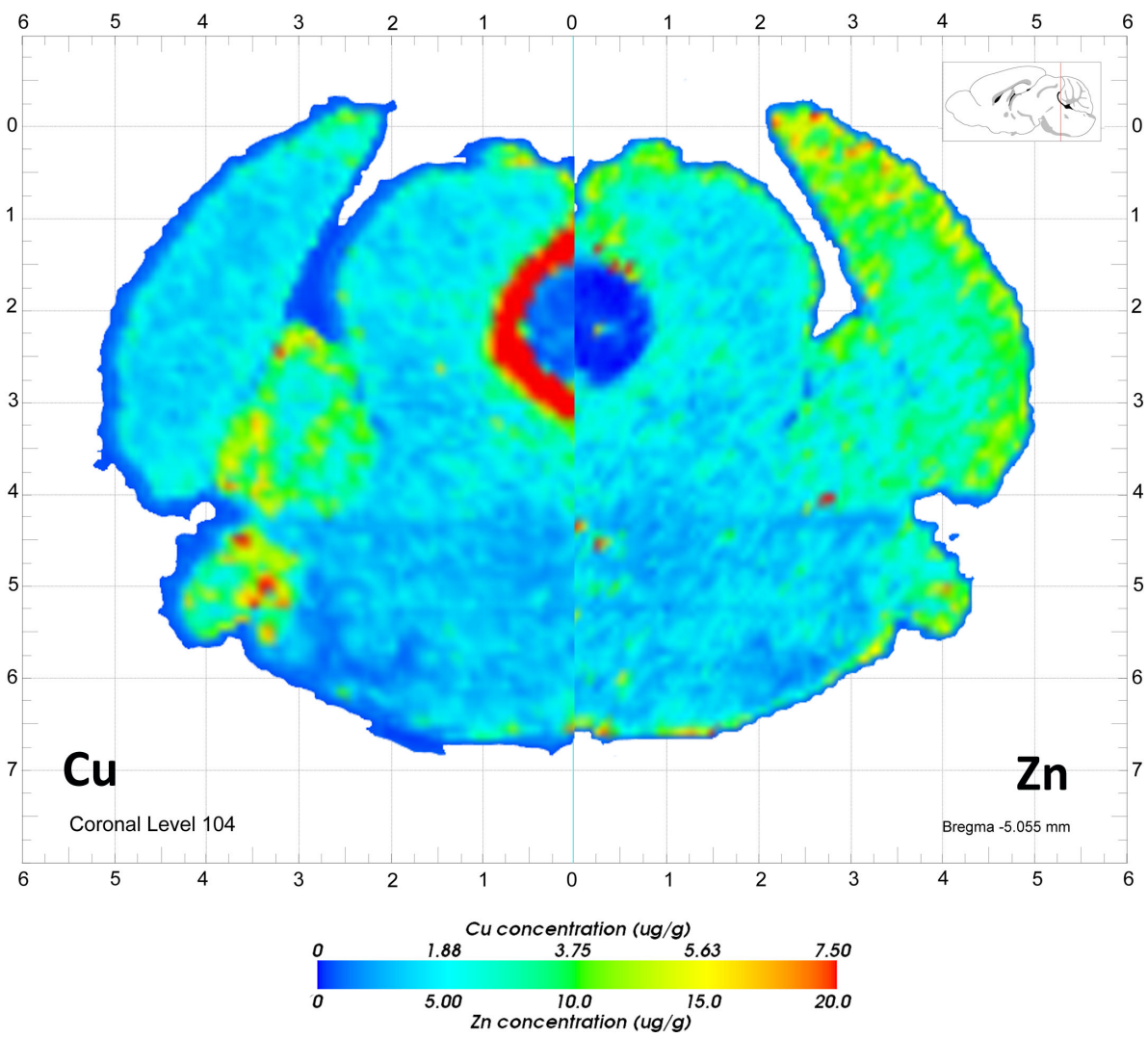
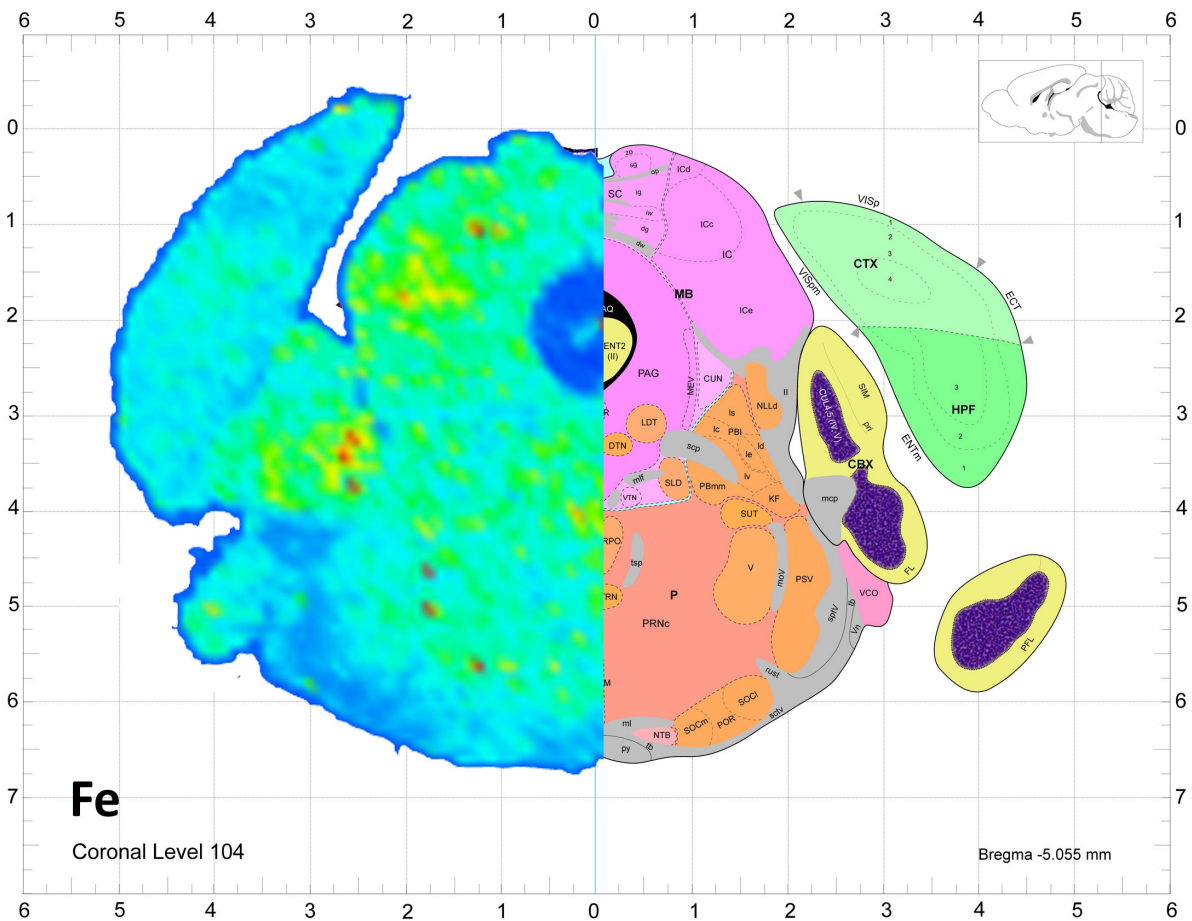


Plate 46



Reference Atlas Nomenclature

0-9 A B C D E F G H I J K L M N O P R S T U V X Y Z

Abbreviation Structure

0-9

6b Layer 6b, isocortex

A

A13	Dopaminergic A13 group
AAA	Anterior amygdalar area
ab	angular path
ACA	Anterior cingulate area
ACAd	Anterior cingulate area, dorsal part
ACAv	Anterior cingulate area, ventral part
ACB	Nucleus accumbens
aco	anterior commissure, olfactory limb
act	anterior commissure, temporal limb
ACVI	Accessory abducens nucleus
ACVII	Accessory facial motor nucleus
AD	Anterodorsal nucleus
ADP	Anterodorsal preoptic nucleus
AHA	Anterior hypothalamic area
AHN	Anterior hypothalamic nucleus
AHNa	Anterior hypothalamic nucleus, anterior part
AHNc	Anterior hypothalamic nucleus, central part
AHNd	Anterior hypothalamic nucleus, dorsal part
AHNp	Anterior hypothalamic nucleus, posterior part
AI	Agranular insular area
AId	Agranular insular area, dorsal part
Alp	Agranular insular area, posterior part
Alv	Agranular insular area, ventral part
alv	alveus
AM	Anteromedial nucleus
AMB	Nucleus ambiguus
AMBd	Nucleus ambiguus, dorsal division
amc	amygdalar capsule
AMd	Anteromedial nucleus, dorsal part
AMv	Anteromedial nucleus, ventral part
AOB	Accessory olfactory bulb
AOBgl	Accessory olfactory bulb, glomerular layer
AOBgr	Accessory olfactory bulb, granular layer
AOBmi	Accessory olfactory bulb, mitral layer
aolt	accessory olfactory tract
AON	Anterior olfactory nucleus

AONd	Anterior olfactory nucleus, dorsal part
AONe	Anterior olfactory nucleus, external part
AONI	Anterior olfactory nucleus, lateral part
AONm	Anterior olfactory nucleus, medial part
AONpv	Anterior olfactory nucleus, posteroventral part
aot	accessory optic tract
AP	Area postrema
apd	ansa peduncularis
apf	ansoparamedian fissure
APN	Anterior pretectal nucleus
AQ	cerebral aqueduct
arb	arbor vitae
ARH	Arcuate hypothalamic nucleus
ASO	Accessory supraoptic group
AT	Anterior tegmental nucleus
ATN	Anterior group of the dorsal thalamus
AUD	Auditory areas
AUDd	Dorsal auditory area
AUDp	Primary auditory area
AUDpo	Posterior auditory area
AUDv	Ventral auditory area
AV	Anteroventral nucleus of thalamus
AVP	Anteroventral preoptic nucleus
AVPV	Anteroventral periventricular nucleus
<u>B</u>	
B	Barrington's nucleus
BA	Bed nucleus of the accessory olfactory tract
BAC	Bed nucleus of the anterior commissure
bct	bulbocerebellar tract
bic	brachium of the inferior colliculus
BLA	Basolateral amygdalar nucleus
BLAa	Basolateral amygdalar nucleus, anterior part
BLAp	Basolateral amygdalar nucleus, posterior part
BLAv	Basolateral amygdalar nucleus, ventral part
BMA	Basomedial amygdalar nucleus
BMAa	Basomedial amygdalar nucleus, anterior part
BMAp	Basomedial amygdalar nucleus, posterior part
BS	Brain stem
bsc	brachium of the superior colliculus
BST	Bed nuclei of the stria terminalis
BSTa	Bed nuclei of the stria terminalis, anterior division
BSTal	Bed nuclei of the stria terminalis, anterior division, anterolateral area
BSTam	Bed nuclei of the stria terminalis, anterior division, anteromedial area
BSTd	Bed nuclei of the stria terminalis, posterior division, dorsal nucleus
BSTdm	Bed nuclei of the stria terminalis, anterior division, dorsomedial
nucleus	

BSTfu	Bed nuclei of the stria terminalis, anterior division, fusiform nucleus
BSTif nucleus	Bed nuclei of the stria terminalis, posterior division, interfascicular
BSTju nucleus	Bed nuclei of the stria terminalis, anterior division, juxtacapsular
BSTmg nucleus	Bed nuclei of the stria terminalis, anterior division, magnocellular
BSTov	Bed nuclei of the stria terminalis, anterior division, oval nucleus
BSTp	Bed nuclei of the stria terminalis, posterior division
BSTpr	Bed nuclei of the stria terminalis, posterior division, principal nucleus
BSTrh	Bed nuclei of the stria terminalis, anterior division, rhomboid nucleus
BSTse	Bed nuclei of the stria terminalis, posterior division, strial extension
BSTtr nucleus	Bed nuclei of the stria terminalis, posterior division, transverse
BSTv	Bed nuclei of the stria terminalis, anterior division, ventral nucleus

C

c	central canal, spinal cord/medulla
CA	Ammon's Horn
CA1	Field CA1
CA1slm	Field CA1, stratum lacunosum-moleculare
CA1so	Field CA1, stratum oriens
CA1sp	Field CA1, pyramidal layer
CA1sr	Field CA1, stratum radiatum
CA2	Field CA2
CA2slm	Field CA2, stratum lacunosum-moleculare
CA2so	Field CA2, stratum oriens
CA2sp	Field CA2, pyramidal layer
CA2sr	Field CA2, stratum radiatum
CA3	Field CA3
CA3slm	Field CA3, stratum lacunosum-moleculare
CA3slu	Field CA3, stratum lucidum
CA3so	Field CA3, stratum oriens
CA3sp	Field CA3, pyramidal layer
CA3sr	Field CA3, stratum radiatum
cbc	cerebellar commissure
cbf	cerebellum related fiber tracts
cbp	cerebellar peduncles
cbt	corticobulbar tract
cc	corpus callosum
ccg	genu of corpus callosum
ccr	corpus callosum, rostrum
ccs	corpus callosum, splenium
cct	cuneocerebellar tract
CEA	Central amygdalar nucleus
CEAc	Central amygdalar nucleus, capsular part
CEAl	Central amygdalar nucleus, lateral part

CEAm	Central amygdalar nucleus, medial part
cett	cervicothalamic tract
CH	Cerebrum
chfl	choroids fissure
chpl	choroids plexus
cic	inferior colliculus commissure
cing	cingulum bundle
CL	Central lateral nucleus of the thalamus
CLA	Clastrum
CLI	Central linear nucleus raphé
cm	cranial nerves
CM	Central medial nucleus of the thalamus
CN	Cochlear nuclei
CNlam	Granular lamina of the cochlear nuclei
CNspg	Cochlear nucleus, subpeduncular granular region
CNU	Cerebral nuclei
COA	Cortical amygdalar area
COAa	Cortical amygdalar area, anterior part
COAp	Cortical amygdalar area, posterior part
COApI	Cortical amygdalar area, posterior part, lateral zone
COApm	Cortical amygdalar area, posterior part, medial zone
CP	Caudoputamen
cpd	cerebal peduncle
cpt	corticopontine tract
crt	corticorubral tract
CS	Superior central nucleus raphé
csc	superior colliculus commissure
CSl	Superior central nucleus raphé, lateral part
CSm	Superior central nucleus raphé, medial part
cst	corticospinal tract
cstc	corticospinal tract, crossed
cstu	corticospinal tract, uncrossed
ctb	central tegmental bundle
cte	corticotectal tract
CTX	Cerebral cortex
CTXpl	Cortical plate
CTXsp	Cortical subplate
CU	Cuneate nucleus
cuf	cuneate fascicle
CUL4	Lobule IV
CUL5	Lobule V
CUN	Cuneiform nucleus
cvb	efferent cochleovestibular bundle
cVIIIIn	cochlear nerve

D

das	dorsal acoustic stria
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db	precommissural fornix diagonal band
dc	dorsal column
dcm	dorsal commissure of the spinal cord
DCN	Dorsal column nuclei
DCO	Dorsal cochlear nucleus
df	dorsal fornix
DG	Dentate gyrus
DGcr	Dentate gyrus crest
DGcr-mo	Dentate gyrus crest, molecular layer
DGcr-po	Dentate gyrus crest, polymorph layer
DGcr-sg	Dentate gyrus crest, granule cell layer
DGlB	Dentate gyrus lateral blade
DGlB-mo	Dentate gyrus lateral blade, molecular layer
DGlB-po	Dentate gyrus lateral blade, polymorph layer
DGlB-sg	Dentate gyrus lateral blade, granule cell layer
DGmb	Dentate gyrus medial blade
DGmb-mo	Dentate gyrus medial blade, molecular layer
DGmb-po	Dentate gyrus medial blade, polymorph layer
DGmb-sg	Dentate gyrus medial blade, granule cell layer
DG-sg	Dentate gyrus, granule cell layer
dhc	dorsal hippocampal commissure
dl	dorsolateral fascicle
dlf	dorsal longitudinal fascicle
DMH	Dorsomedial nucleus of the hypothalamus
DMHa	Dorsomedial nucleus of the hypothalamus, anterior part
DMHp	Dorsomedial nucleus of the hypothalamus, posterior part
DMHv	Dorsomedial nucleus of the hypothalamus, ventral part
DMX	Dorsal motor nucleus of the vagus nerve
DORpm	Thalamus, polymodal association cortex related
DORsm	Thalamus, sensory-motor cortex related
DP	Dorsal peduncular area
DR	Dorsal nucleus raphé
drt	dorsal roots
dscp	superior cerebellar peduncle decussation
DT	Dorsal terminal nucleus of the accessory optic tract
dtd	dorsal tegmental decussation
DTN	Dorsal tegmental nucleus
dt	dorsal tegmental tract

E

Ec	external capsule
ECO	Efferent cochlear group
ECT	Ectorhinal area
ECU	External cuneate nucleus
ee	corpus callosum, extreme capsule
eg	endorhinal groove
em	external medullary lamina of the thalamus

ENT	Entorhinal area
ENTl	Entorhinal area, lateral part
ENTm	Entorhinal area, medial part, dorsal zone
ENTmv	Entorhinal area, medial part, ventral zone
EP	Endopiriform nucleus
EPd	Endopiriform nucleus, dorsal part
EPI	Epithalamus
eps	extrapyramidal fiber systems
epsc	cerebral nuclei related
EPv	Endopiriform nucleus, ventral part
EW	Edinger-Westphal nucleus

F

fa	corpus callosum, anterior forceps
FC	Fasciola cinerea
FF	Fields of Forel
fi	fimbria
fiber tracts	fiber tracts
fp	corpus callosum, posterior forceps
fpr	fasciculus proprius
fr	fasciculus retroflexus
FRP	Frontal pole, cerebral cortex
FS	Fundus of striatum
fx	columns of the fornix
fxpo	postcommissural fornix
fxprg	precommissural fornix, general
fxs	fornix system

G

GENd	Geniculate group, dorsal thalamus
GENv	Geniculate group, ventral thalamus
GPe	Globus pallidus, external segment
GPi	Globus pallidus, internal segment
GR	Gracile nucleus
grf	gracile fascicle
GRN	Gigantocellular reticular nucleus
grv	grooves
grv of CBX	grooves of the cerebellar cortex
grv of CTX	grooves of the cerebral cortex
GU	Gustatory areas
gVIIIn	genu of the facial nerve

H

HB	Hindbrain
hbc	habenular commissure
hc	hippocampal commissures
hf	hippocampal fissure

hht	hypothalamohypophysial tract
HIP	Hippocampal region
HPF	Hippocampal formation
HY	Hypothalamus

I

IA	Intercalated amygdalar nucleus
IAD	Interanterodorsal nucleus of the thalamus
iaf	internal arcuate fibers
IAM	Interanteromedial nucleus of the thalamus
ias	intermediate acoustic stria
IB	Interbrain
IC	Inferior colliculus
ICB	Infracerebellar nucleus
ICc	Inferior colliculus, central nucleus
ICd	Inferior colliculus, dorsal nucleus
ICe	Inferior colliculus, external nucleus
icf	intercrural fissure
icp	inferior cerebellar peduncle
IF	Interfascicular nucleus raphé
IG	Induseum griseum
IGL	Intergeniculate leaflet of the lateral geniculate complex
III	Oculomotor nucleus
IIIIn	oculomotor nerve
IIIn	optic nerve
ILA	Infralimbic area
ILM	Intralaminar nuclei of the dorsal thalamus
im	internal medullary lamina of the thalamus
IMD	Intermediodorsal nucleus of the thalamus
In	olfactory nerve
INC	Interstitial nucleus of Cajal
int	internal capsule
INV	Interstitial nucleus of the vestibular nerve
IO	Inferior olivary complex
ipf	intraparafloccular fissure
IPF	Interpeduncular fossa
IPN	Interpeduncular nucleus
IRN	Intermediate reticular nucleus
isl	Islands of Calleja
islM	Major island of Calleja
ISN	Inferior salivatory nucleus
Isocortex	Isocortex
IV	Trochlear nucleus
IVd	trochlear nerve decussation
IVF	interventricular foramen
iVIIIn	intermediate nerve
IVn	trochlear nerve

IXn glossopharyngeal nerve

J

jrb juxtarestiform body

K

KF Kolliker-Fuse subnucleus

L

LA Lateral amygdalar nucleus
lab longitudinal association bundle
LAT Lateral group of the dorsal thalamus
LAV Lateral vestibular nucleus
LC Locus ceruleus
LD Lateral dorsal nucleus of thalamus
LDT Laterodorsal tegmental nucleus
lfbs lateral forebrain bundle system
lfbst thalamus related
LGd Dorsal part of the lateral geniculate complex
LGv Ventral part of the lateral geniculate complex
LGvl Ventral part of the lateral geniculate complex, lateral zone
LGvm Ventral part of the lateral geniculate complex, medial zone
LH Lateral habenula
LHA Lateral hypothalamic area
LIN Linear nucleus of the medulla
ll lateral lemniscus
LM Lateral mammillary nucleus
lot lateral olfactory tract, body
lotd dorsal limb
lotg lateral olfactory tract, general
LP Lateral posterior nucleus of the thalamus
LPO Lateral preoptic area
LRN Lateral reticular nucleus
LRNm Lateral reticular nucleus, magnocellular part
LRNp Lateral reticular nucleus, parvicellular part
LS Lateral septal nucleus
LSc Lateral septal nucleus, caudal (caudodorsal) part
LSr Lateral septal nucleus, rostral (rostroventral) part
LSv Lateral septal nucleus, ventral part
LSX Lateral septal complex
LT Lateral terminal nucleus of the accessory optic tract
LTN Lateral tegmental nucleus
LZ Hypothalamic lateral zone

M

MA Magnocellular nucleus

MARN	Magnocellular reticular nucleus
MB	Midbrain
MBmot	Midbrain, motor related
MBO	Mammillary body
MBsen	Midbrain, sensory related
MBsta	Midbrain, behavioral state related
mcp	middle cerebellar peduncle
mct	medial corticohypothalamic tract
MD	Mediodorsal nucleus of thalamus
MDc	Mediodorsal nucleus of the thalamus, central part
MDl	Mediodorsal nucleus of the thalamus, lateral part
MDm	Mediodorsal nucleus of the thalamus, medial part
MDRN	Medullary reticular nucleus
MDRNd	Medullary reticular nucleus, dorsal part
MDRNv	Medullary reticular nucleus, ventral part
MEA	Medial amygdalar nucleus
MEAd	Medial amygdalar nucleus, anterodorsal part
MEAv	Medial amygdalar nucleus, anteroventral part
MEApd	Medial amygdalar nucleus, posterodorsal part
MEApd-a	Medial amygdalar nucleus, posterodorsal part, sublayer a
MEApd-b	Medial amygdalar nucleus, posterodorsal part, sublayer b
MEApd-c	Medial amygdalar nucleus, posterodorsal part, sublayer c
MEApv	Medial amygdalar nucleus, posteroventral part
MED	Medial group of the dorsal thalamus
MEPO	Median preoptic nucleus
MEV	Midbrain trigeminal nucleus
MEZ	Hypothalamic medial zone
mfb	medial forebrain bundle
mfbc	cerebrum related
mfb	medial forebrain bundle system
mfbse	epithalamus related
mfb	midbrain related
mfb	mammillary related
mfb	dorsal thalamus related
mfb	hypothalamus related
MG	Medial geniculate complex
MGd	Medial geniculate complex, dorsal part
MGm	Medial geniculate complex, medial part
MGv	Medial geniculate complex, ventral part
MH	Medial habenula
ml	medial lemniscus
mlf	medial longitudinal fascicle
MM	Medial mammillary nucleus
Mmme	Medial mammillary nucleus, median part
MO	Somatomotor areas
MOB	Main olfactory bulb
MOBgl	Main olfactory bulb, glomerular layer

MOBgr	Main olfactory bulb, granule layer
MOBipl	Main olfactory bulb, inner plexiform layer
MOBmi	Main olfactory bulb, mitral layer
MOBopl	Main olfactory bulb, outer plexiform layer
MOp	Primary motor area
MOs	Secondary motor area
moV	motor root of the trigeminal nerve
mp	mammillary peduncle
MPN	Medial preoptic nucleus
MPNc	Medial preoptic nucleus, central part
MPNI	Medial preoptic nucleus, lateral part
MPNm	Medial preoptic nucleus, medial part
MPO	Medial preoptic area
MPT	Medial pretectal area
MRN	Midbrain reticular nucleus
MS	Medial septal nucleus
MSC	Medial septal complex
MT	Medial terminal nucleus of the accessory optic tract
mtc	middle thalamic commissure
mtg	mammillotegmental tract
MTN	Midline group of the dorsal thalamus
mtt	mammillothalamic tract
mtV	midbrain tract of the trigeminal nerve
MV	Medial vestibular nucleus
MY	Medulla
MY-mot	Medulla, motor related
MY-sat	Medulla, behavioral state related
MY-sen	Medulla, sensory related

N

NB	Nucleus of the brachium of the inferior colliculus
NC	Nucleus circularis
ND	Nucleus of Darkschewitsch
NDB	Diagonal band nucleus
nf	nodular fissure
NI	Nucleus incertus
NIS	Nucleus intercalates
NLL	Nucleus of the lateral lemniscus
NLLd	Nucleus of the lateral lemniscus, dorsal part
NLLh	Nucleus of the lateral lemniscus, horizontal part
NLLv	Nucleus of the lateral lemniscus, ventral part
NLOT	Nucleus of the lateral olfactory tract
NLOT1	Nucleus of the lateral olfactory tract, molecular layer
NLOT2	Nucleus of the lateral olfactory tract, pyramidal layer
NOT	Nucleus of the optic tract
NPC	Nucleus of the posterior commissure
NR	Nucleus of Roller

nst	nigrostriatal tract
NTB	Nucleus of the trapezoid body
NTS	Nucleus of the solitary tract
NTSce	Nucleus of the solitary tract, central part
NTSco	Nucleus of the solitary tract, commissural part
NTSge	Nucleus of the solitary tract, gelatinous part
NTSI	Nucleus of the solitary tract, lateral part
NTSm	Nucleus of the solitary tract, medial part
ntt	nigrothalamic fibers

Q

och	optic chiasm
oct	olivocerebellar tract
OLF	Olfactory areas
onl	olfactory nerve layer of main olfactory bulb
OP	Olivary pretectal nucleus
opt	optic tract
ORB	Orbital area
ORBl	Orbital area, lateral part
ORBm	Orbital area, medial part
ORBv	Orbital area, ventral part
ORBvl	Orbital area, ventrolateral part
OT	Olfactory tubercle
OT1	Olfactory tubercle, molecular layer
OT2	Olfactory tubercle, pyramidal layer
OT3	Olfactory tubercle, polymorph layer
OV	Vascular organ of the lamina terminalis

P

P	Pons
PA	Posterior amygdalar nucleus
PAA	Piriform-amygdalar area
PAG	Periaqueductal gray
PAL	Pallidum
PALc	Pallidum, caudal region
PALd	Pallidum, dorsal region
PALm	Pallidum, medial region
PALv	Pallidum, ventral region
pap	pallidothalamic pathway
PAR	Parasubiculum
PARN	Parvicellular reticular nucleus
PAS	Parasolitary nucleus
PB	Parabrachial nucleus
PBG	Parabigeminal nucleus
PBl	Parabrachial nucleus, lateral division
PBlc	Parabrachial nucleus, lateral division, central lateral part
PBl d	Parabrachial nucleus, lateral division, dorsal lateral part

PBl _e	Parabrachial nucleus, lateral division, external lateral part
PBl _s	Parabrachial nucleus, lateral division, superior lateral part
PBl _v	Parabrachial nucleus, lateral division, ventral lateral part
PB _m	Parabrachial nucleus, medial division
PB _{me}	Parabrachial nucleus, medial division, external medial part
PB _{mm}	Parabrachial nucleus, medial division, medial medial part
PB _{mv}	Parabrachial nucleus, medial division, ventral medial part
pc	posterior commissure
pce	precentral fissure
pcf	preculminate fissure
PCG	Pontine central gray
PCN	Paracentral nucleus
PD	Posterodorsal preoptic nucleus
per	perforant path
PERI	Perirhinal area
PF	Parafascicular nucleus
pfs	parafloccular sulcus
PG	Pontine gray
PGRN	Paragigantocellular reticular nucleus
PGRN _d	Paragigantocellular reticular nucleus, dorsal part
PGRN _l	Paragigantocellular reticular nucleus, lateral part
PH	Posterior hypothalamic nucleus
php	proprio-hypothalamic pathways
php _d	proprio-hypothalamic pathways, dorsal
php _l	proprio-hypothalamic pathways, lateral
php _m	proprio-hypothalamic pathways, medial
php _v	proprio-hypothalamic pathways, ventral
PHY	Perihypoglossal nuclei
PIN	Pineal body
PIR	Piriform area
PIR ₁	Piriform area, molecular layer
PIR ₂	Piriform area, pyramidal layer
PIR ₃	Piriform area, polymorph layer
PIS	pineal stalk
PL	Prelimbic area
plf	posterolateral fissure
pm	principal mammillary tract
PM _d	Dorsal premammillary nucleus
P-mot	Pons, motor related
PMR	Paramedian reticular nucleus
pms	paramedian sulcus
PM _v	Ventral premammillary nucleus
pmx	pre-mammillary commissure
PO	Posterior complex of the thalamus
poc	preoptic commissure
POL	Posterior limiting nucleus of the thalamus
POR	Superior olivary complex, periolivary region

POST	Postsubiculum
PP	Peripeduncular nucleus
ppf	prepyramidal fissure
PPN	Pedunculopontine nucleus
PPT	Posterior pretectal nucleus
PPY	Parapyramidal nucleus
PPYd	Parapyramidal nucleus, deep part
PPYs	Parapyramidal nucleus, superficial part
PR	Perireunensis nucleus
PRC	Precommissural nucleus
PRE	Presubiculum
pri	primary fissure
PRNc	Pontine reticular nucleus, caudal part
PRNr	Pontine reticular nucleus
PRNv	Pontine reticular nucleus, ventral part
PRP	Nucleus prepositus
PRT	Pretectal region
PS	Parastrial nucleus
P-sat	Pons, behavioral state related
PSCH	Suprachiasmatic preoptic nucleus
P-sen	Pons, sensory related
psf	posterior superior fissure
PST	Preparasubthalamic nucleus
PSTN	Parasubthalamic nucleus
PSV	Principal sensory nucleus of the trigeminal
PT	Parataenial nucleus
ptf	pallidotegmental fascicle
PTLp	Posterior parietal association areas
PVa	Periventricular hypothalamic nucleus, anterior part
pvbh	periventricular bundle of the hypothalamus
pvbt	periventricular bundle of the thalamus
PVH	Paraventricular hypothalamic nucleus
PVHam	Paraventricular hypothalamic nucleus, magnocellular division, anterior magnocellular part
PVHap	Paraventricular hypothalamic nucleus, parvicellular division, anterior parvicellular part
PVHd	Paraventricular hypothalamic nucleus, descending division
PVHdp	Paraventricular hypothalamic nucleus, descending division, dorsal parvicellular part
PVHf	Paraventricular hypothalamic nucleus, descending division, forniceal part
PVHlp	Paraventricular hypothalamic nucleus, descending division, lateral parvicellular part
PVHm	Paraventricular hypothalamic nucleus, magnocellular division
PVHmm	Paraventricular hypothalamic nucleus, magnocellular division, medial magnocellular part

PVHmpd	Paraventricular hypothalamic nucleus, parvicellular division, medial parvicellular part, dorsal zone
PVHmpv	Paraventricular hypothalamic nucleus, descending division, medial parvicellular part, ventral zone
PVHp	Paraventricular hypothalamic nucleus, parvicellular division
PVHpm	Paraventricular hypothalamic nucleus, magnocellular division, posterior magnocellular part
PVHpml	Paraventricular hypothalamic nucleus, magnocellular division, posterior magnocellular part, lateral zone
PVHpmm	Paraventricular hypothalamic nucleus, magnocellular division, posterior magnocellular part, medial zone
PVHp	Paraventricular hypothalamic nucleus, parvicellular division, periventricular part
PVi	Periventricular hypothalamic nucleus, intermediate part
PVp	Periventricular hypothalamic nucleus, posterior part
PVpo	Periventricular hypothalamic nucleus, preoptic part
PVR	Periventricular region
PVT	Paraventricular nucleus of the thalamus
PVZ	Periventricular zone
py	pyramid
pyd	pyramidal decussation

R

RAmb	Midbrain raphé nuclei
RC	rhinocele
RCH	Retrochiasmatic area
rct	reticulocerebellar tract
RE	Nucleus of reunions
rf	rhinal fissure
RH	Rhomboid nucleus
RHP	Retrohippocampal region
ri	rhinal incisure
RL	Rostral linear nucleus raphé
RM	Nucleus raphé magnus
RN	Red Nucleus
RO	Nucleus raphé obscurus
RPA	Nucleus raphé pallidus
RPO	Nucleus raphé pontis
RR	Midbrain reticular nucleus, retrorubral area
rrt	rubroreticular tract
RSP	Retrosplenial area
RSPagl	Retrosplenial area, lateral agranular part
RSPd	Retrosplenial area, dorsal part
RSPv	Retrosplenial area, ventral part
rst	reticulospinal tract
rstl	reticulospinal tract, lateral part
rstm	reticulospinal tract, medial part

RT	Reticular nucleus of the thalamus
rust	rubrospinal tract

S

SAG	Nucleus sagulum
sAMY	Striatum-like amygdalar nuclei
SBPV	Subparaventricular zone
SCdg	Superior colliculus, motor related, deep gray layer
SCdw	Superior colliculus, motor related, deep white layer
SCH	Suprachiasmatic nucleus
SCig	Superior colliculus, motor related, intermediate gray layer
SCig-a	Superior colliculus, motor related, intermediate gray layer, sublayer a
SCig-b	Superior colliculus, motor related, intermediate gray layer, sublayer b
SCig-c	Superior colliculus, motor related, intermediate gray layer, sublayer c
SCiw	Superior colliculus, motor related, intermediate white layer
SCm	Superior colliculus, motor related
SCop	Superior colliculus, optic layer
scp	superior cerebellar peduncles
s crt	spinocervical tract
SCs	Superior colliculus, sensory related
SCsg	Superior colliculus, superficial gray layer
sct	spinocerebellar tract
sctd	dorsal spinocerebellar tract
sctv	ventral spinocerebellar tract
SCzo	Superior colliculus, zonal layer
sec	secondary fissure
SEZ	subependymal zone
SF	Septofimbrial nucleus
SFO	Subfornical organ
SG	Supragenua nucleus
SGN	Supragenulate nucleus
SH	Septohippocampal nucleus
shp	spinothalamic pathway
SI	Substantia innominata
sif	simple fissure
SLC	Subceruleus nucleus
SLD	Sublaterodorsal nucleus
sm	stria medullaris
smd	supramammillary decussation
SMT	Submedial nucleus of the thalamus
SNC	Substantia nigra, compact part
SNI	Substantia nigra, lateral part
snp	striatonigral pathway
SNr	Substantia nigra, reticular part
SO	Supraoptic nucleus
SOC	Superior olivary complex
SOCI	Superior olivary complex, lateral part

SOCm	Superior olivary complex, medial part
sop	spino-olivary pathway
SPA	Subparafascicular area
SPF	Subparafascicular nucleus
SPFm	Subparafascicular nucleus, magnocellular part
SPFp	Subparafascicular nucleus, parvicellular part
SPIV	Spinal vestibular nucleus
sptV	spinal tract of the trigeminal nerve
SPVC	Spinal nucleus of the trigeminal, caudal part
SPVI	Spinal nucleus of the trigeminal, interpolar part
SPVO	Spinal nucleus of the trigeminal, oral part
SPVOcdm	Spinal nucleus of the trigeminal, oral part, caudal dorsomedial part
SPVOfdm	Spinal nucleus of the trigeminal, oral part, middle dorsomedial part, dorsal zone
SPVOfmv	Spinal nucleus of the trigeminal, oral part, middle dorsomedial part, ventral zone
SPVOdm	Spinal nucleus of the trigeminal, oral part, rostral dorsomedial part
SPVOvl	Spinal nucleus of the trigeminal, oral part, ventrolateral part
srp	spinoreticular pathway
SS	Somatosensory areas
SSN	Superior salivatory nucleus
SS-n	Primary somatosensory area, nose
SSp	Primary somatosensory area
SSp-bfd	Primary somatosensory area, barrel field
SSp-l	Primary somatosensory area, lower limb
SSp-m	Primary somatosensory area, mouth
SSp-ul	Primary somatosensory area, upper limb
SSs	Supplemental somatosensory area
sst	spinothalamic tract
SS-tr	Primary somatosensory area, trunk
st	stria terminalis
step	spinotelenchephalic pathway
stf	subthalamic fascicle
STN	Subthalamic nucleus
stp	spinotectal pathway
STR	Striatum
STRd	Striatum dorsal region
STRv	Striatum ventral region
sttl	lateral spinothalamic tract
sttv	ventral spinothalamic tract
SUB	Subiculum
SUBd	Subiculum, dorsal part
SUBd-m	Subiculum, dorsal part, molecular layer
SUBd-sp	Subiculum, dorsal part, pyramidal layer
SUBd-sr	Subiculum, dorsal part, stratum radiatum
SubG	Subgeniculate nucleus
SUBv	Subiculum, ventral part

SUBv-m	Subiculum, ventral part, molecular layer
SUBv-sp	Subiculum, ventral part, pyramidal layer
SUBv-sr	Subiculum, ventral part, stratum radiatum
SUM	Supramammillary nucleus
SUMl	Supramammillary nucleus, lateral part
SUMm	Supramammillary nucleus, medial part
sup	supraoptic commissures
supa	supraoptic commissures, anterior
supd	supraoptic commissures, dorsal
supv	supraoptic commissures, ventral
SUT	Supratrigeminal nucleus
SUV	Superior vestibular nucleus
sV	sensory root of the trigeminal nerve
svp	spinovestibular pathway

I

Tb	trapezoid body
tct	trigeminocerebellar tract
TEa	Temporal association areas
TH	Thalamus
TM	Tuberomammillary nucleus
TMd	Tuberomammillary nucleus, dorsal part
TMv	Tuberomammillary nucleus, ventral part
tn	terminal nerve
tp	thalamic peduncles
TR	Postpiriform transition area
TRN	Tegmental reticular nucleus
TRS	Triangular nucleus of septum
ts	solitary tract
tsp	tectospinal pathway
tspc	crossed tectospinal pathway
tspd	direct tectospinal pathway
TT	Taenia tecta
TTd	Taenia tecta, dorsal part
ttp	tectothalamic pathway
TTv	Taenia tecta, ventral part
TU	Tuberal nucleus

U

uf	uncinate fascicle
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V

V	Motor nucleus of trigeminal
V3	third ventricle
V4	fourth ventricle
V4r	lateral recess
VAL	Ventral anterior-lateral complex of the thalamus

vc	ventral commissure of the spinal cord
VCO	Ventral cochlear nucleus
VENT	Ventral group of the dorsal thalamus
vhc	ventral hippocampal commissure
VI	Abducens nucleus
VII	Facial motor nucleus
VIIIIn	vestibulocochlear nerve
VIIIn	facial nerve
VIn	abducens nerve
VIS	Visual areas
VISal	Anterolateral visual area
VISam	Anteromedial visual area
VISC	Visceral area
VISl	Lateral visual area
VISp	Primary visual area
VISpl	Posterolateral visual area
VISpm	posteromedial visual area
VL	lateral ventricle
VLPO	Ventrolateral preoptic nucleus
vlt	ventrolateral hypothalamic tract
VM	Ventral medial nucleus of the thalamus
VMH	Ventromedial hypothalamic nucleus
VMHa	Ventromedial hypothalamic nucleus, anterior part
VMHc	Ventromedial hypothalamic nucleus, central part
VMHdm	Ventromedial hypothalamic nucleus, dorsomedial part
VMHvl	Ventromedial hypothalamic nucleus, ventrolateral part
Vn	trigeminal nerve
VNC	Vestibular nuclei
von	vomeronasal nerve
VP	Ventral posterior complex of the thalamus
VPL	Ventral posterolateral nucleus of the thalamus
VPLpc	Ventral posterolateral nucleus of the thalamus, parvicellular part
VPM	Ventral posteromedial nucleus of the thalamus
VPMpc	Ventral posteromedial nucleus of the thalamus, parvicellular part
vert	ventral roots
VS	ventricular systems
vsp	vestibulospinal pathway
VTA	Ventral tegmental area
vtd	ventral tegmental decussation
VTN	Ventral tegmental nucleus
vVIIIIn	vestibular nerve
X	
x	Nucleus x
XII	Hypoglossal nucleus
XIIIn	hypoglossal nerve
XIn	accessory spinal nerve

Xn vagus nerve

Y

y Nucleus y

Z

z Nucleus z

ZI Zona incerta