**Gray matter regions labeled in the Brainstem Navigator**

**Abbreviation Brainstem nucleus name**

1) CLi\_RLi Caudal-rostral linear raphe

2) CnF\_l CnF\_r Cuneiform nucleus

3) DR Dorsal raphe

4) IC\_l IC\_r Inferior colliculus

5) iMRt\_l iMRt\_r Inferior medullary reticular formation

iMRtl\_l iMRtl\_r - lateral part

iMRtm\_l iMRtm\_r - medial part

6) ION\_l ION\_r Inferior olivary nucleus

7) isRt\_l isRt\_r Isthmic reticular formation

8) LC\_l LC\_r Locus coeruleus

9) LDTg\_CGPn\_l LDTg\_CGPn\_r Laterodorsal tegmental nucleus - central

gray of the rhomboencephalon

10) LPB\_l LPB\_r Lateral parabrachial nucleus

11) MiTg\_PBG\_l MiTg\_PBG\_r Microcellular tegmental nucleus –

prabigeminal nucleus

12) MnR Median raphe

13) MPB\_l MPB\_r Medial parabrachial nucleus

14) mRt\_l mRt\_r Mesencephalic reticular formation

mRta\_l mRta\_r - anterior part

mRtd\_l mRtd\_r - dorsal part

mRtl\_l mRtl\_r - lateral part

15) PAG Periaqueductal gray

16) PCRtA\_l PCRtA\_r Parvicellular reticular nucleus Alpha part

17) PMnR Paramedian nucleus

18) PnO\_PnC\_l PnO\_PnC\_r Pontine reticular nucleus, oral and

caudal parts (pontis oralis and caudalis)

19) PTg\_l PTg\_r Pedunculotegmental nucleus

(also called Pedunculopontine nucleus)

20) RMg Raphe magnus

21) RN\_l RN\_r Red nucleus

RN1\_l RN1\_r - subregion 1

RN2\_l RN2\_r - subregion 2

22) ROb Raphe obscurus

23) RPa Raphe pallidus

24) SC\_l SC\_r Superior colliculus

25) sMRt\_l sMRt\_r Superior medullary reticular formation

sMRtl\_l sMRtl\_r - lateral part

sMRtm\_l sMRtm\_r - medial part

26) SN\_l SN\_r Substantia nigra

SN1\_l SN1\_r - subregion 1, compatible with reticulata

SN2\_l SN2\_r - subregion 2, compatible with compacta

27) SOC\_l SOC\_r Superior olivary complex

28) SubC\_l SubC\_r Subcoeruleus

29) Ve\_l Ve\_r Vestibular nuclei complex

30) VSM\_l VSM\_r Viscero-sensory-motor nuclei complex

31) VTA\_PBP\_l VTA\_PBP\_r Ventral tegmental area – parabrachial

pigmented nucleus complex

**Abbreviation Diencephalic nucleus name**

1) LG\_l LG\_r Lateral geniculate nucleus

2) MG\_l MG\_r Medial geniculate nucleus

3) STh\_l STh\_r Subthalamic nucleus

STh1\_l STh1\_r - subregion 1

STh2\_l STh2\_r - subregion 2

Blue: medial nuclei

Black: bilateral nuclei

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For nuclei: iMRt, LC, LDTg\_CGPn, PCRtA, PnO-PnC, ROb, RPa, sMRt, SubC

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For nuclei: DR, ION, MnR, PAG, RMg, RN, SN (brainstem), and STh (diencephalon)