Table 2. Distribution of IWAT-sensory (H129) and IBAT-sympathetic (PRV152) neurons in the brain

	H129 neurons (%)	PRV152 neurons (%)	H129+PRV152 neurons (%)	Total
Medulla				
10N	4.00±1.06 (23.34)	5.33±0.99 (31.60)	10.00±3.95 (45.06*#)	19.33±5.48
12n	3.33±1.63 (27.25)	3.33±1.41 (32.54)	3.67±1.76 (40.21)	10.33±4.58
7N	19.00±8.74 (20.96)	29.33±4.35 (40.12*)	26.33±2.28 (38.92*)	74.67±12.16
AP	8.50±1.38 (19.54)	12.83±1.87 (29.09)	22.50±5.98 (51.37)	43.83±7.21
DPGi	8.83±4.11 (21.92)	13.83±2.75 (37.25*)	15.83±3.86 (40.83*)	38.50±9.39
Gi	66.00±16.35 (27.32)	57.83±7.76 (25.33)	109.17±17.05 (47.35*#)	233.00±33.64
GiA	33.33±7.21 (31.47)	23.67±2.96 (23.16)	45.17±4.65# (45.37*#)	102.17±12.52
GiV	8.83±4.13 (26.32)	6.67±3.33 (19.38)	19.00±9.28 (54.30)	34.50±16.25
IOBe	5.83±1.19 (24.52)	6.67±1.52 (27.82)	11.50±2.49 (47.66)	24.00±5.00
IOC	1.00±0.63 (12.00)	2.17±0.70 (35.33)	2.83±0.91 (52.67*)	6.00±1.84
IOD	0.17±0.17 (25.00)	0.33±0.21 (32.14)	1.00±1.00 (42.86)	1.50±1.15
IOK	3.83±1.47 (22.98)	3.50±1.31 (21.24)	5.67±1.67 (55.78)	13.00±4.33
IOM	0.33±0.33 (9.46)	0.83±0.54 (23.78)	2.33±1.61 (66.76)	3.50±1.82
IOPr	4.83±0.83 (23.03)	6.33±1.20 (28.36)	11.67±2.67* (48.61*#)	22.83±4.25
IRt	100.83±28.63 (28.02)	85.00±14.29 (25.08)	158.33±30.74 (46.90*#)	344.17±56.94
LPGi	77.67±15.06 (36.94#)	36.67±6.35* (17.46)	91.33±8.94# (45.60*#)	205.67±26.72
LRt	22.00±4.25 (22.44)	24.33±3.14 (26.72)	49.67±10.84*# (50.84*#)	96.00±16.50
LRtPC	0.50±0.50 (25.00)	0.67±0.67 (33.33)	0.83±0.83 (41.67)	2.00±2.00
MdD	33.67±5.33 (23.97)	31.67±4.40 (22.40)	78.83±14.73*# (53.63*#)	144.17±21.57
MdV	31.50±3.99 (26.29)	29.83±2.73 (25.33)	61.67±12.90*# (48.38*#)	123.00±14.31
MVeMC	0.17±0.17 (20.00)	0.17±0.17 (20.00)	0.50±0.50 (60.00)	0.83±0.83
MVePC	3.33±1.78 (22.08)	3.83±0.95 (30.25)	5.83±1.40 (47.67*)	13.00±3.40
PCRt	8.67±2.59 (19.46)	9.17±3.44 (14.78)	23.67±7.24 (65.76*#)	41.50±10.54
PCRtA	22.00±11.57 (34.14)	17.17±7.95 (27.73)	21.50±8.89 (38.13)	60.67±25.24
PMn	31.17±5.99 (25.47)	29.33±4.30 (23.75)	63.00±10.75*# (50.78*#)	123.50±15.98
Pr	9.17±5.41 (19.10)	12.17±2.27 (35.57)	14.00±1.67 (45.33*)	35.33±7.60
PSol	1.17±0.65 (21.43)	1.33±0.80 (22.86)	1.83±0.79 (55.71)	4.33±2.17
RMg	38.83±5.92 (37.01)	28.00±3.28 (26.41)	38.83±4.55 (36.58)	105.67±13.27
ROb	21.83±4.57 (30.26)	20.17±3.15 (29.01)	27.83±3.74 (40.73*#)	69.83±10.74
RPa	40.67±5.11 (21.85)	46.67±2.70 (25.14)	98.33±6.86*# (53.01*#)	185.67±10.68
RVL	15.50±3.70 (24.97)	16.00±2.82 (27.37)	26.33±4.36 (47.66*#)	57.83±8.91
NTS region	98.00±17.29 (22.39)	145.00±21.42 (31.93)	209.33±39.79* (45.68*#)	452.33±54.07
SolC	12.67±2.64 (26.06)	16.33±2.93 (32.56)	20.33±4.31 (41.38)	49.33±6.54
SolCe	1.83±0.79 (10.02)	3.33±0.95 (21.58)	5.33±1.96 (68.40)	10.50±2.88
SolDL	12.00±3.47 (18.83)	21.17±3.60 (35.27)	27.17±4.81 (45.90)	60.33±9.16
SolDM	0.00±0.00 (0.00)	0.00±0.00 (0.00)	0.00±0.00 (0.00)	0.00±0.00
SolG	10.00±1.63 (20.46)	18.00±1.91 (35.67)	23.67±4.77* (43.87*)	51.67±5.83

SolI	3.00±0.26 (29.97)	4.17±0.95 (35.54)	4.50±1.48 (34.49)	11.67±2.40
SolIM	11.50±3.33 (12.63)	18.00±3.64 (18.75)	30.17±9.24 (68.62)	59.67±13.42
SolM	20.17±3.78 (22.56)	28.50±5.33 (30.74)	43.50±8.79 (46.70)	92.17±10.51
SolV	11.67±1.98 (23.19)	15.67±3.57 (29.49)	23.83±3.52* (47.32*)	51.17±7.03
SolVL	15.17±2.80 (23.19)	19.83±2.89 (29.51)	30.83±4.45* (47.30*)	65.83±6.82
sp5	0.17±0.17 (20.00)	0.17±0.17 (20.00)	0.50±0.50 (60.00)	0.83±0.83
Sp5C	6.33±3.23 (22.69)	6.00±3.08 (20.28)	12.83±5.17 (57.03*$^{\#}$)	25.17±11.29
Sp5I	1.17±0.65 (51.11)	0.50±0.34 (24.44)	0.67±0.42 (24.45)	2.33±1.12
Sp5O	0.67±0.49 (21.14)	0.67±0.33 (21.13)	1.83±0.70 (57.73)	3.17±1.25
SpVe	0.17±0.17 (7.83)	0.83±0.48 (38.25)	1.17±0.48 (53.92)	2.17±1.08
vsc	56.83±8.98 (25.35)	60.67±7.13 (27.16)	109.67±16.37*$^{\#}$ (47.49*$^{\#}$)	227.17±28.51
Pons				
A5	18.17±2.21 (25.79)	23.00±3.41 (31.30)	31.33±4.68 (42.91*$^{\#}$)	72.50±8.95
CGPn	4.50±2.59 (32.86)	3.67±1.76 (31.07)	3.33±1.15 (36.07)	11.50±5.12
DMTg	4.50±1.69 (30.70)	4.33±1.17 (29.54)	5.83±1.70 (39.76)	14.67±4.42
DRVL	0.00±0.00 (0.00)	0.83±0.83 (45.45)	1.00±1.00 (54.55)	1.83±1.83
LC	30.50±6.56 (26.75)	38.00±5.03 (34.85)	41.67±7.40 (38.40)	110.17±16.45
LDTg	10.00±2.98 (22.25)	13.33±1.91 (31.88*)	18.67±2.11 (45.87*$^{\#}$)	42.00±6.35
LPBC	13.67±3.51 (36.56)	10.00±2.32 (31.50)	9.50±2.69 (31.94)	33.17±7.15
LPBD	2.17±0.95 (29.53)	2.50±1.02 (35.84)	2.50±1.20 (34.63)	7.17±3.07
LPBV	0.17±0.17 (4.17)	0.67±0.49 (29.17)	1.00±0.63 (66.64)	1.83±1.28
mlf	7.83±2.27 (21.22)	13.33±1.23 (37.76*)	14.50±1.95 (41.02*)	35.67±2.95
Mo5	2.17±1.97 (35.58)	1.67±1.48 (29.81)	1.17±0.83 (34.61)	5.00±4.25
MPB	0.17±0.17 (12.50)	0.33±0.21 (29.17)	0.83±0.40 (58.33)	1.33±0.71
PBP	0.50±0.50 (15.00)	1.17±1.17 (35.00)	1.67±1.67 (50.00)	3.33±3.33
PnC	15.00±3.70 (36.10$^{\#}$)	11.67±2.62 (28.43)	14.83±4.28 (35.47$^{\#}$)	41.50±10.41
PnO	42.33±8.76 (37.33$^{\#}$)	25.00±4.58 (23.07)	43.67±9.35 (39.60$^{\#}$)	111.00±21.32
PnV	0.17±0.17 (10.18)	0.50±0.34 (29.94)	1.00±0.63 (59.88)	1.67±0.84
PPTg	3.33±1.26 (23.91)	3.50±1.09 (26.31)	6.50±2.03 (49.78)	13.33±3.79
Pr5	2.00±2.00 (31.58)	1.17±1.17 (18.42)	3.17±3.17 (50.00)	6.33±6.33
rs	6.50±1.12 (25.14)	6.67±1.41 (24.76)	14.00±3.59 (50.10*$^{\#}$)	27.17±5.86
SubCD	15.00±3.33 (33.90)	11.33±2.11 (26.27)	16.17±2.46 (39.83$^{\#}$)	42.50±7.15
SubCV	28.33±5.00 (41.66)	15.17±2.30 (20.80)	23.67±3.81 (37.54)	67.17±9.60
Midbrain				
3PC	1.67±1.48 (23.29)	1.50±0.96 (20.92)	4.00±1.61 (55.79*$^{\#}$)	7.17±3.96
CnF	1.50±0.62 (21.35)	1.33±0.49 (19.35)	2.83±0.98 (59.30)	5.67±1.86
DpMe	25.00±2.29 (22.78)	33.50±2.05 (30.21)	54.17±7.90*$^{\#}$ (47.01*$^{\#}$)	112.67±9.64
DRD	2.00±1.44 (24.41)	2.50±1.52 (30.29)	4.17±2.54 (45.30)	8.67±5.39
DRI	0.67±0.33 (10.25)	1.17±0.17 (21.28)	5.50±1.48*$^{\#}$ (68.47*$^{\#}$)	7.33±1.52
KF	2.67±1.26 (34.72)	2.33±0.99 (34.72)	1.67±0.67 (30.56)	6.67±2.82
ml	0.50±0.50 (27.27)	0.67±0.67 (36.36)	0.67±0.67 (36.37)	1.83±1.83
PAG region	65.00±7.68 (23.04)	92.17±8.22 (32.14)	130.67±17.99* (44.82*$^{\#}$)	287.83±18.29
DLPAG	0.67±0.21 (6.55)	2.33±1.05 (20.34)	5.83±1.05*$^{\#}$ (73.11*$^{\#}$)	8.83±1.70

DMPAG	5.33±1.52 (12.98)	16.83±2.93* (42.81*)	18.50±3.69* (44.21*)	40.67±5.21
LPAG	22.83±2.60 (23.87)	32.50±2.69 (32.91)	44.50±7.97* (43.22*)	99.83±8.38
PAG	15.83±2.81 (25.43)	13.50±1.52 (23.96)	19.67±2.68 (50.61)	49.00±4.88
VLPAG	20.33±4.14 (23.05)	27.00±3.53 (30.35)	42.17±6.88* (46.60*)	89.50±10.90
PN	0.50±0.50 (42.86)	0.17±0.17 (14.29)	0.50±0.50 (42.85)	1.17±1.17
R	0.17±0.17 (5.56)	1.00±0.63 (31.67)	2.00±1.29 (62.77)	3.17±2.01
RC	1.50±0.50 (23.65)	3.00±1.03 (38.75)	3.50±1.43 (37.60)	8.00±2.80
Su3	1.83±0.75 (11.53)	2.50±0.76 (39.27)	6.17±2.01 (49.20*)	10.50±3.37
Su3C	1.67±0.76 (20.11)	2.33±0.84 (28.90)	4.67±2.16 (50.99)	8.67±3.31
VLTg	1.50±0.96 (22.33)	1.67±0.76 (25.75)	4.33±2.85 (51.92)	7.50±3.96
RMC	0.33±0.33 (15.38)	0.67±0.67 (30.77)	1.17±1.17 (53.85)	2.17±2.17
VTA	10.83±2.17 (25.69)	10.67±1.65 (26.48)	20.33±3.75*$^{\#}$ (47.83*$^{\#}$)	41.83±6.49
Forebrain				
Other forebrain				
BSTMA	0.00±0.00 (0.00)	0.00±0.00 (0.00)	0.33±0.33 (100.00)	0.33±0.33
BSTMV	1.33±0.56 (24.79)	1.33±0.56 (29.24)	3.00±1.59 (45.97)	5.67±2.01
BSTMPL	0.33±0.33 (13.33)	0.83±0.83 (33.33)	1.33±1.33 (53.34)	2.50±2.50
LSV	0.50±0.50 (60.24)	0.00±0.00 (0.00)	0.33±0.21 (39.76)	0.83±0.65
MS	0.50±0.50 (37.59)	0.50±0.50 (37.59)	0.33±0.21 (24.82)	1.33±1.15
VP	0.67±0.33 (12.55)	2.00±0.82 (37.45)	2.67±0.80 (50.00*)	5.33±1.86
Preoptic area				
AVPe	2.67±0.88 (26.11)	3.33±1.45 (27.78)	6.00±2.63 (46.11)	12.00±4.65
HDB	0.00±0.00 (0.00)	0.00±0.00 (0.00)	0.33±0.33 (100.00)	0.33±0.33
LPO	4.83±0.70 (14.80)	9.17±1.58 (25.21*)	24.17±6.57*$^{\#}$ (59.99*$^{\#}$)	38.17±8.12
LSI	0.00±0.00 (0.00)	0.00±0.00 (0.00)	0.50±0.50 (100.00)	0.50±0.50
MnPO	2.50±1.38 (24.18)	3.17±0.98 (30.66)	4.67±1.65 (45.16*)	10.33±3.48
MPOL	1.33±0.42 (16.47)	3.00±0.73 (37.34*)	3.67±0.95 (46.19*)	8.00±1.86
MPOM	6.50±1.96 (14.80)	12.33±2.68 (36.63)	18.00±4.47 (48.57)	36.83±8.05
SI	1.67±0.92 (18.40)	2.33±0.92 (25.50)	4.83±2.14 (56.10)	8.83±3.22
VMPO	1.33±0.80 (39.17)	0.67±0.33 (26.67)	0.83±0.31 (34.16)	2.83±1.01
VOLT	0.00±0.00 (0.00)	0.17±0.17 (20.24)	0.67±0.49 (79.76)	0.83±0.65
Hypothalamus				
AHA	4.17±1.76 (19.21)	4.67±1.91 (28.53)	9.17±3.59 (52.26*)	18.00±7.18
AHC	0.83±0.31 (22.22)	0.83±0.17 (23.61)	1.67±0.21*$^{\#}$ (54.17*$^{\#}$)	3.33±0.33
AHP	6.33±0.95 (27.54)	8.00±1.75 (32.35)	10.83±2.77 (40.11)	25.17±4.70
Arc	0.33±0.21 (14.17)	1.00±0.63 (21.67)	3.50±1.93 (64.16)	4.83±2.54
ArcL	0.50±0.34 (17.86)	0.83±0.48 (39.29)	0.83±0.40 (42.85)	2.17±1.17
ArcLP	0.50±0.22 (16.67)	0.67±0.21 (19.44)	2.33±0.67*$^{\#}$ (63.89*$^{\#}$)	3.50±0.50
ArcMP	1.17±0.54 (18.00)	1.33±0.61 (20.46)	4.00±1.57 (61.54)	6.50±2.49
DM	11.33±4.30 (17.57)	15.00±3.54 (27.06)	29.17±5.56* (55.37*)	55.50±11.94
DMC	3.00±1.46 (20.22)	4.67±1.86 (31.47)	7.17±3.40 (48.31)	14.83±6.58
DMD	2.33±1.50 (26.98)	2.33±1.12 (33.93)	2.50±1.23 (39.09)	7.17±3.62
DMV	2.33±1.61 (15.75)	3.00±1.55 (27.65)	7.67±5.07 (56.60)	13.00±8.12

DTM	0.50±0.50 (15.00)	0.67±0.49 (40.00)	0.83±0.65 (45.00)	2.00±1.63
LA	3.17±1.22 (11.47)	4.83±2.56 (15.71)	13.33±5.00 (72.82*$^{\#}$)	21.33±8.47
LH	51.50±4.86 (22.71)	56.00±5.49 (24.39)	125.83±19.74*$^{\#}$ (52.90*$^{\#}$)	233.33±22.07
MPA	19.33±7.46 (20.28)	21.83±3.66 (24.18)	47.83±6.44*$^{\#}$ (55.54*$^{\#}$)	89.00±13.07
PVH region	106.83±15.00 (35.58)	99.67±11.19 (33.40)	93.67±12.29 (31.02)	300.17±28.78
PaAP	7.67±1.86 (42.46)	5.50±0.56 (32.66)	4.00±0.73 (24.88)	17.17±2.24
PaLM	18.17±2.74 (38.02)	17.33±2.74 (35.36)	14.00±3.03 (26.62)	49.50±8.16
PaMM	19.17±3.77 (35.76)	16.83±2.65 (33.09)	16.67±3.44 (31.15)	52.67±9.10
PaMP	27.33±7.05 (35.85)	24.33±4.17 (36.07)	20.17±3.77 (28.08)	71.83±12.23
PaPo	28.67±3.90 (31.33)	30.17±4.25 (31.77)	34.83±4.25 (36.90)	93.67±5.62
PaV	5.83±1.47 (36.63)	5.50±1.28 (35.41)	4.00±0.93 (27.96)	15.33±3.47
PH	12.17±5.16 (27.45)	11.83±3.75 (31.45)	21.33±12.12 (41.10)	45.33±20.86
PMD	0.00±0.00 (0.00)	0.50±0.34 (32.50)	1.00±0.63 (67.50)	1.50±0.96
PMV	1.00±0.52 (13.90)	1.17±0.48 (34.30)	2.50±0.96 (51.80)	4.67±1.84
SCh	1.17±0.48 (19.35)	2.83±1.64 (37.40)	3.17±1.45 (43.25)	7.17±3.45
SChDM	0.33±0.33 (3.33)	1.17±0.60 (22.00)	2.33±1.02 (74.67*$^{\#}$)	3.83±1.82
SChVL	0.83±0.83 (7.94)	2.67±1.54 (45.87)	2.33±0.99 (46.19$^{\#}$)	5.83±3.24
TC	13.00±2.03 (22.65)	16.50±1.59 (29.18)	28.33±4.80*$^{\#}$ (48.17*$^{\#}$)	57.83±2.87
VMHC	0.00±0.00 (0.00)	0.00±0.00 (0.00)	0.33±0.21 (100.00)	0.33±0.21
VMHDM	0.00±0.00 (0.00)	0.00±0.00 (0.00)	1.33±0.49 (100.00)	1.33±0.49
VMHVL	0.00±0.00 (0.00)	0.17±0.17 (10.00)	1.67±0.33*$^{\#}$ (90.00$^{\#}$)	1.83±0.31
Thalamus				
LHbL	0.67±0.33 (10.65)	1.83±0.79 (37.56)	2.67±1.09 (51.79)	5.17±2.14
LHbM	0.17±0.17 (3.33)	1.33±0.49 (33.33)	2.17±0.87 (63.34*)	3.67±1.36
PrC	1.17±0.79 (14.48)	1.33±0.49 (20.19)	3.33±1.12 (65.33*$^{\#}$)	5.83±2.12
pv	3.00±1.21 (39.16)	1.33±0.80 (17.36)	2.17±1.25 (43.48)	6.50±3.14
SPF	0.67±0.49 (30.88)	0.83±0.54 (38.25)	0.67±0.67 (30.87)	2.17±1.64
ZI	0.83±0.83 (45.36)	0.67±0.67 (36.61)	0.33±0.33 (18.03)	1.83±1.83
ME	0.17±0.17 (12.50)	0.33±0.33 (25.00)	0.83±0.83 (62.50)	1.33±1.33

Data are expressed as means ± SEM (n=6)

*p<0.05 vs. H129, $^{\#}p$<0.05 vs. PRV152

10N, dorsal motor nucleus of vagus; 12n, root of hypoglossal nerve; 3PC, oculomotor nucleus; 7N, facial nucleus; A5, noradrenaline cells; AHA, anterior hypothalamic area, anterior part; AHC, anterior hypothalamic area, central part; AHP, anterior hypothalamic area, posterior part; AP, area postrema; Arc, arcuate hypothalamic nucleus; ArcL, arcuate hypothalamic nucleus, lateral part; ArcLP, arcuate hypothalamic nucleus, lateroposterior part; ArcMP, arcuate hypothalamic nucleus, medial posterior part; AVPe, anteroventral periventricular nucleus; BSTMA, bed nucleus of the stria terminalis, medial division, anterior part; BSTMV, bed nucleus of stria terminalis, medial division, ventral part; BSTMPL, bed nucleus of the stria terminalis, medial division, posterolateral part; CGPn, central gray of the pons; CnF, cuneiform nucleus; DLPAG, dorsolateral periaqueductal gray; DM, dorsomedial hypothalamic nucleus; DMC, dorsomedial hypothalamic nucleus, compact part; DMD, dorsomedial hypothalamic nucleus, dorsal part; DMPAG, dorsomedial periaqueductal gray; DMTg, dorsomedial tegmental area; DMV, dorsomedial hypothalamic nucleus, ventral part; DPGi, dorsal paragigantocellular nucleus; DpMe, deep mesencephalic nucleus; DRD, dorsal raphe nucleus, dorsal part; DRI, dorsal raphe nucleus, interfascicular part; DRVL, dorsal raphe nucleus, ventrolateral part; DTM, dorsal tuberomammillary nucleus; Gi, gigantocellular reticular nucleus; GiA, gigantocellular reticular nucleus, alpha part; GiV, gigantocellular reticular nucleus, ventral part; HDB, nucleus of the horizontal limb of the diagonal band; IOBe, inferior olive, beta subnucleus; IOC, inferior olive, subnucleus C of medial nucleus; IOD, inferior olive, dorsal nucleus; IOK, inferior olive, cap of Kooy of the medial nucleus; IOM, inferior olive, medial nucleus; IOPr, inferior olive, principal nucleus; IRt, intermediate reticular nucleus; KF, Kölliker-Fuse nucleus; LA, lateroanterior hypothalamic nucleus; LC, locus coeruleus; LDTg, laterodorsal tegmental nucleus; LH, lateral hypothalamic area; LHbL, lateral habenular

nucleus, lateral part; LHbM, lateral habenular nucleus, medial part; LPAG, lateral periaqueductal gray; LPBC, lateral parabrachial nucleus, central part; LPBD, lateral parabrachial nucleus, dorsal part; LPBV, lateral parabrachial nucleus, ventral part; LPGi, lateral paragigantocellular nucleus; LPO, lateral preoptic area; LRt, lateral reticular nucleus; LRtPC, lateral reticular nucleus, parvicellular part; LSI, lateral septal nucleus, intermediate part; LSV, lateral septal nucleus, ventral part; MdD, medullary reticular nucleus, dorsal part; MdV, medullary reticular nucleus, ventral part; ME, median eminence; ml, medial lemniscus; mlf, medial longitudinal fasciculus; MnPO, median preoptic nucleus; Mo5, motor trigeminal nucleus; MPA, medial preoptic area; MPB, medial parabrachial nucleus; MPOL, medial preoptic nucleus, lateral part; MPOM, medial preoptic nucleus, medial part; MS, medial septal nucleus; MVeMC, medial vestibular nucleus, magnocellular part; MVePC, medial vestibular nucleus, parvicellular part; NTS, nucleus of the solitary tract; PaAP, paraventricular hypothalamic nucleus, anterior parvicellular part; PAG, periaqueductal gray; PaLM, paraventricular hypothalamic nucleus, lateral magnocellular part; PaMM, paraventricular hypothalamic nucleus, medial magnocellular part; PaMP, paraventricular hypothalamic nucleus, medial parvicellular part; PaPo, paraventricular hypothalamic nucleus, posterior part; PaV, paraventricular hypothalamic nucleus, ventral part; PBP, parabrachial pigmented nucleus; PCRt, parvicellular reticular nucleus; PCRtA, parvicellular reticular nucleus, alpha part; PH, posterior hypothalamic area; PMn, paramedian reticular nucleus; PMD, premammillary nucleus, dorsal part; PMV, premammillary nucleus, ventral part; PN, paranigral nucleus; PnC, pontine reticular nucleus, caudal part; PnO, pontine reticular nucleus, oral part; PnV, pontine reticular nucleus, ventral part; PPTg, pedunculopontine tegmental nucleus; Pr, prepositus nucleus; Pr5, principal sensory trigeminal nucleus; PrC, precommissural nucleus; PSol, parasolitary nucleus; pv, periventricular fiber system; PVH, paraventricular hypothalamic nucleus; R, red nucleus; RC, raphe cap; RMC, red nucleus, magnocellular part; RMg, raphe magnus nucleus; ROb, raphe obscurus nucleus; RPa, raphe pallidus nucleus; rs, rubrospinal tract; RVL, rostroventrolateral reticular nucleus; SCh, suprachiasmatic nucleus; SChDM, suprachiasmatic nucleus, dorsomedial part; SChVL, suprachiasmatic nucleus, ventrolateral part; SI, substantia innominata; SolC, nucleus of the solitary tract, commissural part; SolCe, nucleus of the solitary tract, central part; SolDL, solitary nucleus, dorsolateral part; SolDM, nucleus of the solitary tract, dorsomedial part; SolG, nucleus of the solitary tract, gelatinous part; SolI, nucleus of the solitary tract, interstitial part; SolIM, nucleus of the solitary tract, intermediate part; SolM, nucleus of the solitary tract, medial part; SolV, solitary nucleus, ventral part; SolVL, nucleus of the solitary tract, ventrolateral part; sp5, spinal trigeminal tract; Sp5C, spinal trigeminal nucleus, caudal part; Sp5I, spinal trigeminal nucleus, interpolar part; Sp5O, spinal trigeminal nucleus, oral part; SPF, subparafascicular thalamic nucleus; SpVe, spinal vestibular nucleus; Su3, supraoculomotor periaqueductal gray; Su3C, supraoculomotor cap; SubCD, subcoeruleus nucleus, dorsal part; SubCV, subcoeruleus nucleus, ventral part; TC, tuber cinereum area; VLPAG, ventrolateral periaqueductal gray; VLTg, ventrolateral tegmental area; VMHC, ventromedial hypothalamic nucleus, central part; VMHDM, ventromedial hypothalamic nucleus, dorsomedial part; VMHVL, ventromedial hypothalamic nucleus, ventrolateral part; VMPO, ventromedial preoptic nucleus; VOLT, vascular organ of the lamina terminalis; VP, ventral pallidum; vsc, ventral spinocerebellar tract; VTA, ventral tegmental area; ZI, zona incerta