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@Kayahara T., and K. Nakano (1996) Pallido-thalamo-motor cortical connections: an electron microscopic study in the macaque monkey. *Brain Res*, 706: 337-342. GPIが視床のVLo (ヒトのVoa, Vopに相当する) の一次運動野投射ニューロンに単シナプス性に連絡することを電顕的に証明した

\*Matelli M., and G. Luppino (1996) Thalamic input to mesial and superior area 6 in the macaque monkey. *J Comp Neurol*, 372: 59-87.

\*Nakano K., T. Kayahara, H. Ushiro et al. (1996) The basal ganglia-thalamo-cortical connections with special reference to output neuronal distributions in macaque monkeys. IN: *The Basal Ganglia V* eds. C. Ohye, M. Kimura, and J. McKenzie, Plenum, New York, pp 19-26.

@Nambu A., M. Takada, M. Inase et al. (1996) Dual somatotopical representations in the primate subthalamic nucleus: evidence for ordered but reversed body-map transformations from the primary motor cortex and the supplementary motor area. *J Neurosci*, 16: 2671-2683.

@Percheron G., C. Francois, B. Talbi et al. (1996) The primate motor thalamus. [Review article]. *Brain Research Reviews*, 22: 93-181. Pallidothalamic projection, cerebellothalamic projection, nigrothalamic projection について review している。非常に参考になる review である。また、文献を網羅している。

\*Rye D., R. Turner, J. Vitek et al. (1996) Anatomical investigations of the pallidotegmental pathway in monkey and man. IN: *The Basal Ganglia V* eds. C. Ohye, M. Kimura, and J. McKenzie, Plenum, New York, pp 59-75.

@Rizzolatti G., G. Luppino, and M. Matelli (1996) The classic supplementary motor area is formed by two independent areas. *Advances in Neurology*, 70: 45-56.

SMA と pre-SMA に関して、視床および大脳皮質間の連絡をまとめている

@Sakai S.T., M. Inase, and J. Tanji (1996) Comparison of cerebellothalamic and pallidothalamic projections in the monkey (*Macaca fuscata*): A double anterograde labeling study. *J Comp Neurol*, 368: 215-228.

GPI と小脳核からの入力が見床の各運動系中継核の周辺部で overlap する可能性を示唆

@ Shink E., M. Bevan, J. Bolam, and Y. Smith (1996) The subthalamic nucleus and the external pallidum: two tightly interconnected structures that control the output of the basal ganglia in the monkey. *Neuroscience*, 73: 335-357.

視床下核と GPe は強く相互連絡し、これらの核は基底核の出力ニューロンに連絡する。

\*Smith Y., A. Charara, and A. Parent (1996) Synaptic innervation of midbrain dopaminergic neurons by Glutamate-enriched terminals in the squirrel monkey. *J Comp Neurol*, 364: 231-253.

\*Calabresi P., M. De Murtas, and G. Bernardi (1997) The neostriatum beyond the motor function: experimental and clinical evidence. *Neuroscience*, 78: 39-60.

Cheng K., K. Saleem, and K. Tanaka (1997) Organization of corticostriatal and corticoamygdalar projections arising from the anterior inferotemporal area TE of the macaque monkey: a phaseolus vulgaris leucoagglutinin study. *J Neurosci*, 17: 7902-7925.

\*Heimer L., G.F. Alheid, J.S. deOlmos et al. (1997) The accumbens. Beyond the core-shell dichotomy. In: *The Neuropsychiatry of Limbic and Subcortical Disorders* eds. Stephen Salloway, Paul Malloy, and Jeffrey L. Cummings, American Psychiatric Press, Washington, DC: 43-70.

Heras S.d.l., E. Mengual, J. Velayos et al. (1997) New data on the anatomical organization of the thalamostriatal projections. *Adv Neurol*, 74: 69-81.

@Joel D., and I. Weiner (1997) The connections of the primate subthalamic nucleus: indirect pathways and the open-interconnected scheme of basal ganglia-thalamocortical. *Brain Research Reviews*, 23: 62-78. BG-thalamocortical circuits に関する、視床下核における統合機能について形態所見をもとに論じている

@Nambu A., H. Tokuno, M. Inase, and M. Takada (1997) Corticosubthalamic input zones from forelimb representations of the dorsal and ventral divisions of the premotor cortex in the macaque monkey: comparison with the input zones from the primary motor cortex and the supplementary motor area. *Neurosci Lett*, 239: 13-16.

@Sidibe, M., Bevan, M.D., Bolam et al. (1997) Efferent connections of the internal globus pallidus in the squirrel monkey: I. Topography and synaptic organization of the pallidothalamic projection, *J Comp Neurol*, 382:323-347.

sensrimotor striatum, associative striatum, limbic striatum から GPI を介する視床への投射を比較した。 ventral striatum は GPI の rostromedial pole に投射する。 GPI からの limbic input と associative

input は視床束傍核で収束する。

@Shink, E., Sidibe, M., and Smith, Y., 1997, Efferent connections of the internal globus pallidus in the squirrel monkey: II. Topography and synaptic organization of pallidal efferents to the pedunculopontine nucleus. *J Comp Neurol*, 382:348-363.

淡蒼球から脚橋被蓋核への投射のシナプトロジーおよび同核における統合機能について論じている（淡蒼球内節の異なる領域からの入力には single neuron に収束する可能性あり）。

@Winn P., V.J. Brown, and W.L. Inglis (1997) On the relationships between the striatum and the pedunculopontine tegmental nucleus. *Crit Rev Neurobiol*, 11: 241-261 can thus be grouped into one "neurochemical family" of areas. PPN にかんする詳細な review で参考になる

\*Heras S.de.las., E. Mengual, J.L. Velayos, and J.M. Gimenez-Amaya (1998) Reexamination of topographic distribution of thalamic neurons projecting to the caudate nucleus. A retrograde labeling study in the cat. *Neurosci Res*, 31: 283-293.

\*Heras S.de.las., E. Mengual, and J.M. Gimenez-Amaya (1998) Overlapping territories between the thalamostriatal and nigrothalamic projections in cats. *NeuroReport*, 9: 1913-1916.

\*Kayahara T., and K. Nakano (1998) The globus pallidus sends axons to the thalamic reticular nucleus neurons projecting to the centromedian nucleus of the thalamus: a light and electron microscope study in the cat. *Brain Res Bulletin*, 45: 623-630.

@Smith Y., M.D. Bevan, E. Shink, and J.P. Bolam (1998) Microcircuitry of the direct and indirect pathways of the basal ganglia. *Neurosci*, 86: 353-387.

大脳基底核の Review。 Alexander & Crutcher (1990)の basal ganglia circuits は簡素化しすぎ、不都合な面もある。特に indirect pathway について改変の必要性があると論じている（シナプトロジーの観点から）。

\*Gimenez-Amaya J., and E. Scarnati (1999) The thalamus as a place for interaction between the input and the output systems of the basal ganglia: a commentary. *J Chemical Neuroanat*, 16: 149-152.

@Inase M., H. Tokuno, A. Nambu, T. Akazawa, and M. Takada (1999) Corticostriatal and corticosubthalamic input zones from the presupplementary motor area in the macaque monkey: comparison with the input zones from the supplementary motor area. *Brain Res*, 833: 191-201.

SMA と pre-SMA から視床下核への投射の局在性について比較した

Heras S. de.las., E. Mengual, and J.M. Gimenez-Amaya (1999) Double retrograde tracer study of the thalamostriatal projections to the cat caudate nucleus. *Synapse*, 32: 80-92.

\*Mengual E., S.de.las. Heras, E. Erro, J.L. Lanciego, and J.M. Gimenez-Amaya(1999) Thalamic interaction between the input and the output systems of the basal ganglia. *J Chemical Neuroanat*, 16: 187-200.

\*Parent M., M. Levesque, and A. Parent (1999) The pallidofugal projection system in primates: evidence for neurons branching ipsilaterally and contralaterally to the thalamus and brainstem. *J Chemical Neuroanat*, 16: 153-165.

@Rouiller E., J. Tanne, V. Moret, and D. Boussaoud (1999) Origin of thalamic inputs to the primary, premotor, and supplementary motor cortical areas and to area 46 in macaque monkeys: a multiple retrograde tracing study. *J Comp Neurol*, 409: 131-152.

運動野、運動前野、補足運動野、前頭前野に投射する個々の視床運動系中継核の投射頻度を記載