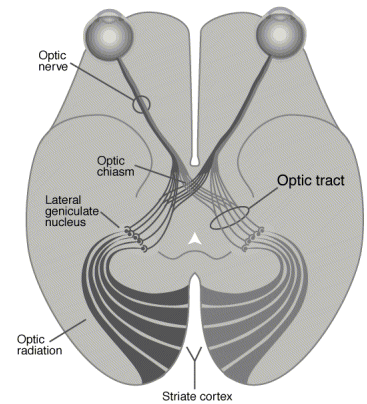


Organizzazione anatomica e funzionale del sistema visivo II: LA CORTECCIA

11 aprile 2006

Il decorso delle vie visive



I sistemi magnocellulare e parvocellulare

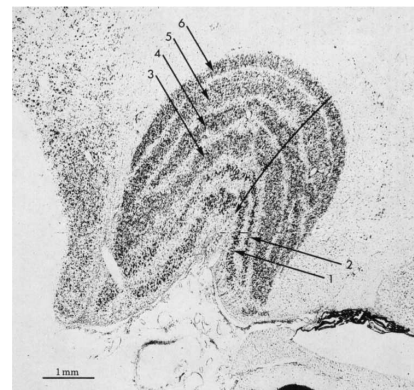
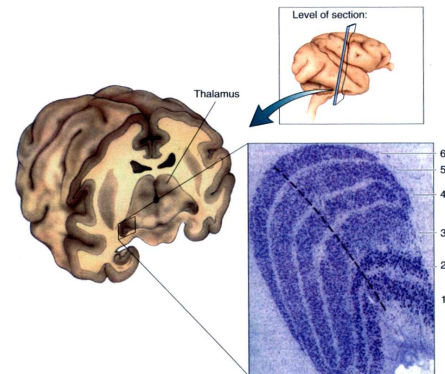
◆ Un riassunto delle proprietà dei due sistemi

Table 29-1 M and P Pathways in the Visual System

Attribute	M Cells	P Cells
Percentage of all ganglion cells	~10	~80
Distribution on retina	Densest in fovea?	Densest in fovea
Conduction velocity	~15 m/s	~6 m/s
Central projection	LGN, magnocellular	LGN, parvocellular
Ganglion cells	VI, layer 4Cα	VI, layer 4Cβ
LGN ¹ cells	Almost none	Well-developed (two types: L vs M; S vs L,M)
Chromatic opponency	Yes	Sometimes
Rod input	High (>60)	Low (<20)
Contrast sensitivity	Lower	Higher (single-cone center in fovea)
Spatial resolution	Higher (>60 Hz)	High (>30 Hz)
Temporal resolution	Some	None?

¹LGN = lateral geniculate nucleus.

Il corpo genicolato laterale



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