

# Cerebellum (preparation)

For pictures please visit <https://www.wikiskripta.eu/index.php?curid=34497>.

## Preparation 1

Title: **Cerebellum - Clear Magnification (HE)**

Description: 1 - the pial surface of the cerebellum, the pia mater also extends into the groove (sulcus) between the cerebellar turns (gyri)

and supplies blood vessels, cortex: 2 - Purkinje cells - the most prominent structure already visible under clear magnification,

3 - stratum moleculare, 4 - stratum granulare, 5 - white matter of the cerebellar hemisphere

## Preparation 2

Title: **Cerebellum - clear enlargement (cresyl violet)**

Description: 1 - a groove between the cerebellar folia (convolutions), 2 - the pia mater on the surface of the cerebellum also extends into the sulci,

cortex: 3 - stratum moleculare, 4 - Purkinje cells - the most prominent structure visible already at clear magnification,

5 - stratum granulare, 6 - white matter of the cerebellar hemisphere

## Preparation 3

Title: **Cerebellum - Overview of Cortex Layers (HE)**

Description: 1 - sulcus supplying pia mater ligament with blood vessels, 2 - stratum moleculare, 3 - Purkinje cells, 4 - stratum granulare

## Preparation 4

Title: **Cerebellum - cortical layers detail (HE)**

Description: 1 - nuclei belonging to stratum moleculare cells (stellate and basket cells), 2 - Purkinje cells,

3 - nuclei belonging to stratum granulosum cells (granular and Golgi cells)

## Preparation 5

Title: **Cerebellum - an overview of the layers of the cortex (cresyl violet)**

Description: 1 - pia mater with vessels, 2 - stratum moleculare, 3 - Purkinje cells, 4 - stratum granulare

## Preparation 6

Title: **Cerebellum - cortical layers detail (cresyl violet)**

Description: 1 - nuclei belonging to stratum moleculare cells (stellate and basket cells), 2 - Purkinje cells,

3 - nuclei belonging to stratum granulosum cells (granular and Golgi cells), granular cells are the smallest cells in the human body

## Preparation 7

Title: **Cerebellar cortex - Purkinje cell in full glory (silvering)**

Description: 1 - Purkinje cell, 2 - branching of the dendritic tree of the Purkinje cell in the stratum moleculare (3),

4 - stratum moleculare cells, 5 - stratum granulare with nuclei of granular cells (6)

# Preparation 8

Title: **Cerebellar cortex - overview of layers (immunohistochemical evidence)**

Description: 1 – stratum moleculare, 2 – Purkinje cells, 3 – stratum granulare

## Nervous tissue

- Brain (preparation)
- Cerebellum (preparation)
- Spinal cord (preparation)
- Autonomous ganglion (preparation)
- Peripheral nerve (preparation)

## Links

- Modul Buněčné základy medicíny (3. LF UK)

## Study materials for the preparation

- Cerebellum