

# Mikroskop:20092/annot

[

```
{  
    "idx": "20092+",  
    "txt_cz": "1. Pia mater",  
    "txt_en": "1. Pia mater",  
    "desc_cz": "the innermost layer of meninges, vascularized loose connective tissue",  
    "desc_en": "",  
    "insert_who": "IvaG",  
    "marks": [  
        {  
            "shape": "arrow",  
            "ori": "down",  
            "color": "green",  
            "size": "small",  
            "x_rel": "0.489811",  
            "y_rel": "0.402011"  
        }  
    ]  
},  
{  
    "idx": "20092+",  
    "txt_cz": "2. \u0160ed\u00e1 hmota",  
    "txt_en": "Substantia grisea",  
    "desc_cz": "Neuropil is a meshwork of processes of neuronal and glial cells.",  
    "desc_en": "",  
    "insert_who": "IvaG",  
    "marks": [  
        {  
            "shape": "arrow",  
            "ori": "down",  
            "color": "green",  
            "size": "small",  
            "x_rel": "0.402243",  
            "y_rel": "0.461713"  
        }  
    ]  
},  
{  
    "idx": "20092+",  
    "txt_cz": "3. B\u00edl\u00e1 hmota",  
    "txt_en": "Substantia alba",  
    "desc_cz": "",  
    "desc_en": "",  
    "insert_who": "IvaG",  
    "marks": [  
        {  
            "shape": "arrow",  
            "ori": "down",  
            "color": "green",  
            "size": "small",  
            "x_rel": "0.249913",  
            "y_rel": "0.453576"  
        }  
    ]  
},  
{  
    "idx": "20092+",  
    "txt_cz": "Capillary",  
    "txt_en": "",  
    "desc_cz": "",  
    "desc_en": "",  
    "insert_who": "Gurka",  
    "marks": [  
        {  
            "shape": "arrow",  
            "ori": "down",  
            "color": "green",  
            "size": "small",  
            "x_rel": "0.362654",  
            "y_rel": "0.420416"  
        }  
    ]  
},  
{  
    "idx": "20092+",  
    "txt_cz": "Granular cell",  
    "txt_en": "",  
    "desc_cz": "",  
    "desc_en": "",  
    "insert_who": "Gurka",  
    "marks": [  
        {  
            "shape": "arrow",  
            "ori": "down",  
            "color": "green",  
            "size": "small",  
            "x_rel": "0.375794",  
            "y_rel": "0.422718"  
        }  
    ]  
},
```

```
{
  "idx": "20092+",
  "txt_cz": "Lamina granularis externa (Lamina II)",
  "txt_en": "",
  "desc_cz": "This layer consists of small pyramidal cells mainly. Other cells include granular (stellate) cells.",
  "desc_en": "",
  "insert_who": "Gurka",
  "marks": [
    {
      "shape": "arrow",
      "ori": "down",
      "color": "green",
      "size": "small",
      "x_rel": "0.455494",
      "y_rel": "0.409122"
    }
  ]
},
{
  "idx": "20092+",
  "txt_cz": "Lamina granularis interna (Lamina IV)",
  "txt_en": "",
  "desc_cz": "Consists of numerous granular cells. Stellate cells are also present.",
  "desc_en": "",
  "insert_who": "Gurka",
  "marks": [
    {
      "shape": "arrow",
      "ori": "down",
      "color": "green",
      "size": "small",
      "x_rel": "0.375585",
      "y_rel": "0.413601"
    }
  ]
},
{
  "idx": "20092+",
  "txt_cz": "Lamina molecularis (Lamina I)",
  "txt_en": "",
  "desc_cz": "This layer mostly consists of nerve fibers, neuroglial cells and occasional horizontal cells of Cajal.",
  "desc_en": "",
  "insert_who": "Gurka",
  "marks": [
    {
      "shape": "arrow",
      "ori": "down",
      "color": "green",
      "size": "small",
      "x_rel": "0.474968",
      "y_rel": "0.403793"
    }
  ]
},
{
  "idx": "20092+",
  "txt_cz": "Lamina multiformis (Lamina VI)",
  "txt_en": "",
  "desc_cz": "This layer consists of polymorphic cells which show a wide range of shapes eg. spindle cells, fusiform cells, pyramidal cells and Martinotti cells .",
  "desc_en": "",
  "insert_who": "Gurka",
  "marks": [
    {
      "shape": "arrow",
      "ori": "down",
      "color": "green",
      "size": "small",
      "x_rel": "0.296209",
      "y_rel": "0.437617"
    }
  ]
},
{
  "idx": "20092+",
  "txt_cz": "Lamina pyramidalis externa (Lamina III)",
  "txt_en": "",
  "desc_cz": "There is no sharp demarcation between lamina II and III. In lamina III, however, pyramidal cells are slightly larger and have a more distinct pyramidal morphology.",
  "desc_en": "",
  "insert_who": "Gurka",
  "marks": [
    {
      "shape": "arrow",
      "ori": "down",
      "color": "green",
      "size": "small",
      "x_rel": "0.412449",
      "y_rel": "0.43263"
    }
  ]
},
{
  "idx": "20092+",
  "txt_cz": "Lamina pyramidalis interna (Lamina V)",
  "txt_en": "",
  "desc_cz": "Note, how large are the pyramidal layers compared to other layers of brain cortex. Dominance of giant pyramidal cells (Betz cells) is a typical characteristic of motoric cortex type. Pyramidal cells in other types of cortices are typically smaller.",
  "desc_en": "",
  "insert_who": "Gurka",
  "marks": [

```

```
{  
    "shape": "arrow",  
    "ori": "down",  
    "color": "green",  
    "size": "small",  
    "x_rel": "0.335852",  
    "y_rel": "0.442624"  
}  
]  
},  
{  
    "idx": "20092+",  
    "txt_cz": "Pyramidal cell",  
    "txt_en": "",  
    "desc_cz": "soma of the neuron has a typical pyramidal shape with one apical dendrite projecting towards the cortex and axons into white matter.",  
    "desc_en": "",  
    "insert_who": "Gurka",  
    "marks": [  
        {  
            "shape": "arrow",  
            "ori": "down",  
            "color": "green",  
            "size": "small",  
            "x_rel": "0.352995",  
            "y_rel": "0.278697"  
        }  
    ]  
}  
]
```