

Index

A

- Acute phase, 166, 187
- Acute poststroke inflammation, 168
- Agmatine, 101
- Alzheimer's disease, 31, 48
- Amyloid, 33, 152
- Anatomy, 1, 17
- Animal models, 95
- Anterior choroid artery, 27
- Anti-amyloid properties, 154
- Anti-apoptotic action, 156
- Anti-inflammatory action, 155
- Anti-inflammatory drugs, 98
- Antioxidant action, 155
- Anti-tau properties, 155
- Astrocytes, 77, 92
- Astrogliosis, 118

B

- B cells, 91
- Basal ganglia, 2
- Biomarkers, 51
- Blood brain barrier, 32, 166, 168
- Blood supply, 14, 27
- Borders, 3
- Brain infarction, 187
- Brain injury, 47, 51
- Brain ischemia, 32, 151
- Brainstem, 2

C

- CA1, 21, 33, 36
- CA3, 34, 36
- Cane, 194
- Caregivers, 195
- Case study, 205
- Cathepsin B, 131
- Cathepsins, 133
- Ceftriaxone, 100
- Central nervous system, 2
- Cerebral cortex, 1, 8
- Cerebral hemisphere, 1
- Cerebral infarction, 188
- Cerebral ischemia, 62, 111
- Cerebral ischemia-reperfusion injury, 64
- Cerebrum, 2
- Chronic phase, 173
- Cognitive impairment, 32
- Community-based rehabilitation, 187
- Connection of fornix, 18
- Cornu ammonis, 18
- Corpus callosum, 2
- Curcumin, 149
- Cytokines, 94

D

- Dementia, 32
- Dentate gyrus, 18, 19
- Dimensions of social risk, 204
- Disability as a social model, 204

E

- Endolysosomal trafficking, 134
Endothelial cells, 78
Entorhinal cortex, 20
Epigenetic mechanisms, 63
Epigenetics, 157
Escala de Valoracion Socio Familiar, 205, 206
Evaluating reintegration, 203
Exosomes, 73
Experimental stroke, 165
Extracellular vesicles, 168

F

- Fibrotic scar deposition, 116
Fornix, 24
Functional areas, 4, 10

G

- Gasdermin D, 101
Gender impact on social risk, 211
Genes, 31
Glial activators, 112
Glial scar formation, 113
Glial scarring, 118
Glibenclamide, 99
Grey matter, 2
Guidance for family members, 195
Gut-brain-axis, 172
Gyri, 3

H

- Habenular nuclei, 25
Hippocampal formation, 18
Hippocampus, 17, 32
Histological structure, 8
Homocysteine, 61, 63

- Human ischemic stroke, 74
Hyperhomocysteinemia, 61
Hypoxic-ischemic brain injury, 45

I

- Immobility syndromes, 191
Immunological aspects, 170
Immunomodulators, 98
Immunosuppressants, 100
Improvement of social risk categories, 211
Indusium griseum, 19
Inferior surface, 2
Inflammation, 137
Innate immune response, 116
Interventricular foramen, 2
Intracellular trafficking, 135
Ischemia-reperfusion injury, 33, 131
Ischemic brain injury, 61
Ischemic preconditioning, 66

J

- JAK2, 94
JAK-STAT, 94
Japan, 187
JWH-133, 98

K

- Keenest vision, 13
Kinase, 78, 92
Koniocortex, 9
Koniocortical, 12, 10
Koskinas classification, 10

L

- Laminar organization, 9
Lateral ventricle, 2
Legal improvement, 196

Leukocytes, 89
 Limbic lobe, 18
 Lobes, 5
 Longitudinal striae, 19
 Long-term memory, 18
 Lower extremity orthoses, 193
 Lymphocytes, 89

M

Macrophages, 89, 91
 Maintenance phase, 192
 Mammillo-tegmental tract, 25
 Mammillo-thalamic tract, 25
 Medial surface, 2
 Medial temporal cortex, 35
 Melatonin, 101
 Memory loss, 32
 Memory, 25
 Methionine metabolism, 61
 Microcirculation, 156
 Microglia, 77, 91
 Microglial activation, 116
 Micro-RNA, 75
 Microscopic structure, 21
 Modulation of tissue scar, 120
 Molecular pathways, 114
 Multicellular reactivity, 113

N

Neurocan, 119
 Neurodegeneration, 31
 Neurogenesis, 156
 Neuroinflammation, 87, 96
 Neurological recovery, 120
 Neuronal circuit, 22
 Neuronal death, 137
 Neurons, 76
 Neuropathology, 32, 48, 151

Neuroprotective activity, 156
 Neuroprotective agents, 167
 Neuroregenerative approaches, 173
 Neurotoxicity, 63
 Neurovascular reactivity, 111
 Neutrophils, 89
 New memory, 26
 NMR metabolomic analysis, 64
 Novel therapeutic strategies, 165

O

Oligodendrocytes, 78
 Orthoses, 194
 Orthotic therapy, 194

P

Papez circuit, 22, 26
 Patient population cohort criteria, 205
 Perforant pathway, 23
 Pericytes, 112
 Perinatal asphyxia, 45
 Peripheral multi-organ injury, 50
 Phylogenetic classification, 10
 Phytotherapy, 102
 Poles, 2
 Post-asphyxia, 47
 Posterior cerebral artery, 27
 Post-ischemic brain, 31, 33, 73, 87, 89,
 91, 149
 Post-ischemic stroke patients, 201
 Poststroke delivery, 175
 Pyramidal cells, 21

Q

Quality of life, 201, 202
 Questionnaires, 209

R

Reactive neurovascular unit cells, 116
Recovery phase, 192
Regulatory T cells, 90
Rehabilitation hospitals and facilities, 196
Rehabilitation, 187, 188
Reintegration assessments, 203
Reintegration, 201
Robot therapy, 194

Telemedicine, 195

Telerehabilitation, 195

Telestroke, 195

Tenascin-C, 119

Therapy, 96

Third ventricle, 2

Tissue scarring, 111

Transcription factors, 94

Transplantation of stem cells, 173

Treating cerebral ischemia, 165

S

Sankey visualizations of risk variation, 209
Sarnat grading scale, 51
Scar-forming sources, 112
Schaffer's collaterals, 23
Short-term memory, 18
Side effects, 158
Social risk categories and risk factors, 209
Social risk utilizing visualizations, 205
Social risk variation, 201
Sommer's sector, 26
Spatial memory, 26
Specialized social risk assessment, 205
Statins, 100
Stem cells, 101, 168
Stroke severity impact on social risk, 215
Stroke, 88, 131
Subacute phase, 170
Subiculum, 18
Sulci, 3
superolateral surface, 2
Surfaces, 2
Symptoms of disuse, 191

U

UK-276, 98

UK-279, 98

Uncus, 4, 8

Unmyelinated, 36

V

Vascular endothelial exosomes, 78
Venous drainage, 27
Visual cortex, 7
Voluntary training, 195

W

Walking aids, 193
Wernicke's speech areas, 12
White matter, 2
WY14643, 95

Y

Young people, 202

Z

Zingiberaceae, 150

Zone, 7, 118

T

Tau protein, 36, 152