

Publications: Prof. Dr. A. Reichenbach

Original papers

1. Hanitzsch R, Reichenbach A: Some characteristics of P III subcomponents in the isolated rabbit retina. **Activ Nerv Sup** 16 (1975) 284-287
2. Reichenbach A, Hanitzsch R: Der Nachweis von Subkomponenten von P III im ERG der isolierten Kaninchennetzhaut unter Verwendung von Natriumasparaginat. **Acta Biol Med Germ** 34 (1975) 857-863
3. Fuchs U, Reichenbach A, Siwula H, Taubert GT, Winiacki P: Die Veränderung des Zellbesatzes der Netzhaut beim Diabetiker. **Graefe's Arch Clin Exp Ophthalmol** 216 (1981) 245-251
4. Reichenbach A: Ionic dependence of frog retinal mass receptor potential. **Studia Biophys** 90 (1982) 57-58
5. Reichenbach A, Wohlrab F: Quantitative properties of Müller cells in rabbit retina as revealed by histochemical demonstration of NADH-diaphorase activity. **Graefe's Arch Clin Exp Ophthalmol** 220 (1983) 81-83
6. Nowak R, Reichenbach A: Elektrophysiologische Untersuchungen an der Froschnetzhaut über die spektrale Empfindlichkeit der Photorezeptoren. **Biomed Biochim Acta** 42 (1983) 225-233
7. Reichenbach A, Fuchs U: Photoreceptor layer composition in the retina of the frog (*Rana esculenta*). **Gegenbaurs Morphol Jahrb** 129 (1983) 299-305
8. Reichenbach A, Wohlrab F: Horizontal cells of the rabbit retina: Some quantitative properties revealed by selective staining. **Z Mikrosk-Anat Forsch** 97 (1983) 240-244
9. Reichenbach A: The glutamate-isolated mass receptor potential of the frog's retina. I. General properties and intensity dependence. **Biomed Biochim Acta** 42 (1983) 1269-1276
10. Reichenbach A: The glutamate-isolated mass receptor potential of the frog's retina. II. Sodium and potassium dependence. **Biomed Biochim Acta** 42 (1983) 1277-1285
11. Reichenbach A, El Belghiti H: Untersuchungen zur Topographie der Wachtelnetzhaut. **Z Mikrosk-Anat Forsch** 97 (1983) 816-822
12. Reichenbach A: The glutamate-isolated mass receptor potential of the frog's retina. III. Calcium dependence. **Biomed Biochim Acta** 43 (1984) 1017-1026
13. Reichenbach A, Birkenmeyer G: Preparation of isolated Müller cells of the mammalian (rabbit) retina. **Z Mikrosk-Anat Forsch** 98 (1984) 789-792
14. Reichenbach A, Leubuscher H-J: Long-lasting afterimages - an attempt to correlate subjektive findings with electrophysiological data of the retina. **Doc Ophthalmol Proc Ser** 40 (1984) 311-319
15. Baar U, Reichenbach A: Klinische Elektroretinographie in der Veterinärmedizin. I. Methodische Grundlagen und Normalwerte. **Arch Exp Vet Med** 39 (1985) 234-242
16. Reichenbach A, Baar U: Klinische Elektroretinographie in der Veterinärmedizin. II. Progressive Retinaatrophie und Hemeralopie. **Arch Exp Vet Med** 39 (1985) 243-252
17. Reichenbach A, Dettmer D, Brückner G, Neumann M, Birkenmeyer G: Morphological variability, lecithin binding, and Na^+, K^+ -activated adenosine triphosphatase activity of isolated Müller (glial) cells from the rabbit retina. **Neurosci Lett** 55 (1985) 29-34

18. Fuchs U, Tinius W, Scheidt J v, Reichenbach A: Morphometric analysis of retinal blood vessels in Retinopathia diabetica. **Graefe's Arch Clin Exp Ophthalmol** 223 (1985) 83-87
19. Reichenbach A, Baar U: Retinitis-pigmentosa-like tapetoretinal degeneration in a rabbit breed. **Doc Ophthalmol** 60 (1985) 71-78
20. Reichenbach A, Wohlrab F: Effects of alpha-amino adipic acid on the glutamate-isolated P III of the rabbit electroretinogram. **Doc Ophthalmol** 59 (1985) 359-364
21. Reichenbach A, Dettmer D, Reichelt W, Eberhardt W: Na⁺, K⁺-activated adenosine triphosphatase of isolated Müller cells from the rabbit retina shows a K⁺ dependence similar to that of brain astrocytes. **Neurosci Lett** 59 (1985) 281-284
22. Reichenbach A, Nilius B, Eberhardt W: Potassium accumulation by the glial membrane pump as revealed by membrane potential recordings from isolated rabbit retinal Müller cells. **Neurosci Lett** 63 (1986) 280-284
23. Reichenbach A, Wohlrab F: Morphometric parameters of Müller (glial) cells dependent on their topographic localization in the nonmyelinated part of the rabbit retina. A consideration of functional aspects of radial glia. **J Neurocytol** 15 (1986) 451-459
24. Reichenbach A, Eberhardt W: Intracellular recordings from isolated rabbit retinal Müller (glial) cells. **Pflügers Arch** 407 (1986) 348-353
25. Reichenbach A, Reichelt W: Postnatal development of radial glial (Müller) cells of the rabbit retina. **Neurosci Lett** 71 (1986) 125-130
26. Reichenbach A, Neumann M, Brückner G: Cell length to diameter relation of rat fetal radial glia - does impaired K⁺ transport capacity of long thin cells cause their perinatal transformation into multipolar astrocytes? **Neurosci Lett** 73 (1987) 95-100
27. Reichenbach A: Quantitative and qualitative morphology of rabbit retinal glia. A light microscopical study on cells both in situ and isolated by papaine. **J Hirnforsch** 28 (1987) 213-220
28. Reichenbach A, Dettmer D, Reichelt W, Eberhardt W: High Na⁺ affinity of the Na⁺, K⁺ pump in isolated rabbit retinal Müller (glial) cells. **Neurosci Lett** 75 (1987) 157-162
29. Eberhardt W, Reichenbach A: Spatial buffering of potassium by retinal Müller (glial) cells of various morphologies calculated by a model. **Neuroscience** 22 (1987) 687-696
30. Reichenbach A, Schultze J: (1987) Beitrag zur Kenntnis von *Spodistes grandis* STERNBERG (Coleoptera, Scarabaeidae, Dynastinae). **Reichenbachia** 24 (1987) 161-162
31. Gränitz U, Reichenbach A, Seidel B: Zur Retinaatrophie bei einem juvenilen Rotmilan - Fallbericht. **Zool Garten N F** 57 (1987) 6-10
32. Reichenbach A, Reichelt W, Schümann R: Use of Pappenheim's panoptic staining method on enzymatically isolated cells for demonstration of postnatal development of the rabbit retina. **Z Mikrosk-Anat Forsch** 101 (1987) 597-608
33. Hanke S, Reichenbach A: Quantitative - morphometric aspects of Bergmann glial (Golgi epithelial) cell development in rats. A Golgi study. **Anat Embryol** 177 (1987) 183-188
34. Nilius B, Reichenbach A: Efficient K⁺ buffering by mammalian retinal glial cells is due to cooperation of specialized ion channels. **Pflügers Arch** 411 (1988) 654-660

35. Reichenbach A, Eberhardt W: Cytotopographical specialization of enzymatically isolated rabbit retinal Müller (glial) cells: K⁺ conductivity of the cell membrane. **Glia** 1 (1988) 191-197
36. Reichenbach A, Schippel K, Schümann R, Hagen E: Ultrastructure of rabbit retinal nerve fibre layer - neuro-glial relationships, myelination, and nerve fibre spectrum. **J Hirnforsch** 29 (1988) 481-491
37. Reichenbach A, Hagen E, Schippel K, Eberhardt W: Quantitative electron microscopy of rabbit Müller (glial) cells in dependence of retinal topography. **Z Mikroskop-Anat Forsch** 102 (1988) 721-755
38. Reichenbach A, Hagen E, Schippel K, Brückner G, Reichelt W, Leibnitz L: Cytotopographical specialization of enzymatically isolated rabbit retinal Müller (glial) cells. Structure, ultrastructure, and (³H)-ouabain binding sites. **Z Mikroskop-Anat Forsch** 102 (1988) 897-912
39. Reichelt W, Dettmer E, Brückner G, Brust P, Eberhardt W, Reichenbach A: Potassium as a signal for both proliferation and differentiation of rabbit retinal (Müller) glial growing in cell culture. **Cell Signal** 1 (1989) 187-194
40. Reichenbach A: Glia:neuron index: review and hypothesis to account for different values in various mammals. **Glia** 2 (1989) 71-77
41. Stolzenburg J-U, Reichenbach A, Neumann M: Size and density of glial and neuronal cells within the cerebral neocortex of various insectivorian species. **Glia** 2 (1989) 78-84
42. Reichenbach A, Schneider H, Leibnitz L, Reichelt W, Schaaf P, Schümann R: The structure of rabbit retinal Müller (glial) cells is adapted to the surrounding retinal layers. **Anat Embryol** 180 (1989) 71-79
43. Reichenbach A: Attempt to classify glial cells by means of their process specialization using the rabbit retinal Müller cell as an example of cytotopographic specialization of glial cells. **Glia** 2 (1989) 250-259
44. Bernstein H-G, Reichenbach A, Kirschke H, Wiederanders B: Cell type-specific distribution of cathepsin B and D immunoreactivity within the rabbit retina. **Neurosci Lett** 98 (1989) 135-138
45. Reichenbach A: Organelle-free cytoplasmic volume fraction of rabbit retinal Müller (glial) cells. **J Hirnforsch** 30 (1989) 513-516
46. Richter W, Reichenbach A, Reichelt W: Orthogonal arrays of intramembranous particles in the Müller cell and astrocytic endfoot membrane of rabbit retina. Postnatal development and adulthood. **J Neurocytol** 19 (1990) 127-139
47. Wolburg H, Reichelt W, Stolzenburg J-U, Richter W, Reichenbach A: Rabbit retinal Müller cells in cell culture show gap and tight junctions which they do not express *in situ*. **Neurosci Lett** 11 (1990) 58-63
48. Reichenbach A, Schaaf P, Schneider H: Primary neurulation in teleosts - evidence for epithelial genesis of central nervous tissue as in other vertebrates. **J Hirnforsch** 31 (1990) 153-158
49. Eberhardt W, Woidich D, Reichenbach A: Determination of the extracellular tortuosity in nuclear layers of the central nervous system by resistance measurements on a geometrical model. **J Hirnforsch** 31 (1990) 1-11
50. Reichenbach A, Wolburg H, Richter W, Eberhardt W: Membrane ultrastructure preservation and membrane potentials after isolation of rabbit retinal glial (Müller) cells by papain. **J Neurosci Meth** 32 (1990) 227-233

51. Reichenbach A: Radial glial cells are present in the velum medullare of adult monkeys. **J Hirnforsch** 31 (1990) 269-271
52. Reichenbach A, Schnitzer J, Friedrich A, Ziegert M, Brückner G, Schober W: (1991) Development of the rabbit retina. I. Size of eye and retina, and postnatal cell proliferation. **Anat Embryol** 183 (1991) 287-297
53. Reichenbach A: Glial K⁺ permeability and CNS K⁺ clearance by diffusion and spatial buffering. **Ann N Y Acad Sci** 633 (1991) 272-286
54. Siegel A, Reichenbach A, Hanke S, Senitz D, Brauer K, Smitz TG jr: Comparative morphometry of Bergmann glial (Golgi epithelial) cells. A Golgi study. **Anat Embryol** 183 (1991) 605-612
55. Reichenbach A, Schnitzer J, Friedrich A, Knothe A-K, Henke A: Development of the rabbit retina. II. Müller cells. **J Comp Neurol** 311 (1991) 33-44
56. Reichenbach A, Eberhardt W, Scheibe R, Deich C, Seidel B, Reichelt W, Dähnert K, Rödenbeck M: Development of the rabbit retina. IV. Tissue tensility and elasticity in dependence on topographic specializations. **Exp Eye Res** 53 (1991) 241-251
57. Reichenbach A, Siegel A, Senitz D, Smith TG jr: A comparative fractal analysis of various mammalian astroglial cell types. **Neuroimage** 1 (1992) 69-77
58. Stolzenburg J-U, Haas J, Härtig W, Paulke B-R, Wolburg H, Reichelt W, Chao T-I, Wolff JR, Reichenbach A: Phagocytosis of different kinds of latex beads by rabbit retinal Müller (glial) cells in vitro. **J Hirnforsch** 33 (1992) 557-564
59. Reichenbach A, Baar U, Petter H, Schaaf P, Osborne NN, Buse E: Neuronal ectopia in tiger retina. **J Hirnforsch** 33 (1992) 585-593
60. Reichenbach A, Henke A, Eberhardt W, Reichelt W, Dettmer D: K⁺ ion regulation in retina. **Can J Physiol Pharmacol** 70 (1992) S239-S247
61. Smith TG jr, Brauer K, Reichenbach A: Quantitative phylogenetic constancy of cerebellar Purkinje cell morphological parameters. **J Comp Neurol** 331 (1993) 402-406
62. Reichenbach A, Schnitzer J, Reichelt W, Fritzsche B, Osborne NN, Puls A, Richter U, Friedrich A, Knothe A-K, Schober W, Timmermann A: Development of the rabbit retina. III. Differential growth and density of projection neurons and interneurons. **Visual Neurosci** 10 (1993) 479-498
63. Chao TI, Pannicke T, Reichelt W, Reichenbach A: Na⁺ channels are expressed by mammalian retinal glial (Müller) cells. **NeuroReport** 4 (1993) 575-578
64. Reichenbach A, Stolzenburg J-U, Eberhardt W, Chao TI, Dettmer D, Hertz L: What do retinal Müller (glial) cells do for their neuronal "small siblings"? **J Chem Neuroanat** 6 (1993) 201-213
65. Brückner G, Brauer K, Härtig W, Wolff JR, Rickmann MJ, Derouiche A, Delpech B, Girard N, Oertel WH, Reichenbach A: Perineuronal nets provide a polyanionic, glia-associated form of microenvironment around certain neurons in many parts of the rat brain. **Glia** 8 (1993) 183-200
66. Reichenbach A: Two types of neuronal precursor cells in the mammalian retina - a short review. **J Hirnforsch** 34 (1993) 335-341
67. Pritz-Hohmeier S, Hanisch S, Malz CR, Michel H, Meyer DL, Reichenbach A: Optic tectum in congenitally monophthalmic fishes and chicks. **J Hirnforsch** 34 (1993) 407-415

68. Chao T-I, Henke A, Reichelt W, Eberhardt W, Reinhardt-Maelicke S, Reichenbach A: Three distinct types of voltage-dependent K^+ channels are expressed by Müller (glial) cells of the rabbit retina. **Pflüger's Arch** 426 (1994) 51-60
69. Faff-Michalak L, Reichenbach A, Dettmer D, Kellner M, Albrecht J: K^+ -, hypoosmolarity-, and NH_4^+ -induced taurine release from cultured rabbit Müller cells: role of Na^+ and Cl^- ions and relation to cell volume changes. **Glia** 10 (1994) 114-120
70. Pritz-Hohmeier S, Chao TI, Krenzlin J, Reichenbach A: Effect of *in vivo* application of Ginkgo-biloba extract EGb 761 (Rökan^R) on the susceptibility of mammalian retinal cells to proteolytic enzymes. **Ophthalmic Res** 26 (1994) 80-86
71. Chao TI, Skatchkov SN, Eberhardt W, Reichenbach A: Na^+ channels of Müller (glial) cells isolated from retinæ of various mammalian species including man. **Glia** 10 (1994) 173-185
72. Pritz-Hohmeier S, Härtig W, Behrmann G, Reichenbach A: Immunocytochemical demonstration of astrocytes and microglial cells in the whale brain. **Neurosci Lett** 167 (1994) 59-62
73. Reichenbach A, Ziegert M, Schnitzer J, Pritz-Hohmeier S, Schaaf P, Schober W, Schneider H: Development of the rabbit retina. V. The question of columnar units. **Devel Brain Res** 79 (1994) 72-84
74. Hanani M, Reichenbach A: Morphology of horseradish peroxidase (HRP)-injected glial cells in the myenteric plexus of guinea pig. **Cell Tissue Res** 278 (1994) 153-160
75. Reichenbach A, Kasper M, Schnitzer J, Osborne NN, Pritz-Hohmeier S: A set of early-born neurons is distinctly labeled by several specific antibodies in the adult rabbit retina. **J Brain Res** 35 (1994) 391-395
76. Deich C, Seifert B, Peichl L, Reichenbach A: Development of dendritic trees of rabbit retinal alpha ganglion cells: relation to differential retinal growth. **Vis Neurosci** 11 (1993) 979-988
77. Pfeiffer B, Grosche J, Reichenbach A, Hamprecht B: Immunocytochemical demonstration of glycogen phosphorylase in Müller (glial) cells of the mammalian retina. **Glia** 12 (1994) 62-67
78. Kniesel U, Reichenbach A, Risau W, Wolburg H: Quantification of Tight Junction Complexity by Means of Fractal Analysis. **Tissue Cell** 26 (1994) 901-912
79. Grosche J, Härtig W, Reichenbach A: Expression of glial fibrillary acidic protein (GFAP), glutamine synthetase (SG), and Bcl-2 protooncogene protein by Müller (glial) cells in retinal light damage of rats. **Neurosci Lett** 185 (1995) 119-122
80. Biedermann B, Fröhlich E, Grosche J, Wagner H-J, Reichenbach A: Mammalian Müller (glial) cells express functional D_2 dopamine receptors. **NeuroReport** 6 (1995) 609-612
81. Scheibe R, Schnitzer J, Röhrenbeck J, Wohlrab F, Reichenbach A: Development of A-type (axonless) horizontal cells in the rabbit retina. **J Comp Neurol** 354 (1995) 438-458
82. Reichenbach A, Stolzenburg J-U, Wolburg H, Härtig W, El-Hifnawi E, Martin H: Effects of enhanced extracellular ammonia concentration on cultured mammalian retinal glial (Müller) cells. **Glia** 13 (1995) 195-208
83. Härtig W, Grosche J, Distler C, Grimm D, El-Hifnawi E, Reichenbach A: Alterations of Müller (glial) cells in dystrophic retinæ of RCS rats. **J Neurocytol** 24 (1995) 507-517
84. Reichenbach A, Grimm D, Mozhaiskaja N, Distler C: Visualization of Müller (retinal glial) cells by bulk filling with Procion Yellow. **J Brain Res** 36 (1995) 305-311

85. Reichenbach A, Kasper M, El-Hifnawi E, Eckstein A-K, Fuchs U: Hepatic retinopathy: morphological features of retinal glial (Müller) cells accompanying hepatic failure. **Acta Neuropathol** 90 (1995) 273-281
86. Senitz D, Reichenbach A, Smith TG jr: Surface complexity of human neocortical astrocytic cells: changes with development, aging, and dementia. **J Brain Res** 36 (1995) 531-537
87. Reichenbach A, Frömter K, Engelmann J, Wolburg H, Kasper M, Schnitzer J: Müller glial cells of the tree shrew retina. **J Comp Neurol** 360 (1995) 257-270
88. Reichenbach A, Siegel A, Rickmann M, Wolff JR, Noone D, Robinson SR: Distribution of Bergmann glial somata and processes: implications for function. **J Brain Res** 36 (1995) 509-517
89. El-Hifnawi E, BenEzra D, Reichenbach A, Hettlich H-J: Distribution of cathepsin D in human ocular tissue: an immunohistochemical study. **Ann Anat** 177 (1995) 515-523
90. Reichenbach A: *Protoetia (Protoetia) anneliae* nov. spec. von den Philippinen (Insecta: Coleoptera: Lamellicornia: Cetoniinae). **Reichenbachia** 31 (1995) 45-47
91. Newman EA, Reichenbach A: The Müller cell: a functional element of the retina. **Trends Neurosci.** 19 (1996) 307-312
92. Reichenbach A: Zwei neue *Taeniodera*- Arten (*T. steinkei* spec. nov. und *T. gregori* spec. nov.) von Burma und Thailand (Insecta: Coleoptera: Scarabaeidae: Cetoninae). **Reichenbachia** 31 (1996) 179-181
93. Reichenbach A: *Trigonophorus talpa* spec. nov. von Thailand (Insecta: Coleoptera: Scarabaeidae: Cetoninae). **Reichenbachia** 31 (1996) 183-185
94. Faff L, Reichenbach A, Albrecht J: Ammonia-induced taurine release from cultured rabbit Müller cells is an osmoresistant process mediated by intracellular accumulation of cyclic AMP. **J Neurosci Res** 46 (1996) 231-238
95. Birkenmeier G, Grosche J, Reichenbach A: Immunocytochemical demonstration of $\alpha 2$ -macroglobulin receptor/low-density lipoprotein receptor-related protein ($\alpha 2$ -M-R/LRP) on Müller (glial) cells isolated from rabbit and human retina. **NeuroReport** 8 (1996) 149-151
96. Reichenbach A, Pritz-Hohmeier S, Michel H, Malz C, Meyer DL: LiCl-Induced malformations of the eyes and anterior CNS in *Xenopus laevis*. **J Brain Res** 38 (1997) 35-45
97. Bringmann A, Faude F, Reichenbach A: Mammalian retinal glial (Müller) cells express large-conductance Ca^{2+} -activated K^{+} channels that are modulated by Mg^{2+} and pH, and activated by protein kinase A. **Glia** 19 (1997) 311-323
98. Faff L, Reichenbach A, Albrecht J: Two modes of stimulation by ammonia of taurine release from cultured rabbit Müller cells. **Neurochem Int** 31 (1997) 301-305
99. Kuhrt H, Härtig W, Grimm D, Faude F, Reichenbach A: Changes in CD44 and ApoE immunoreactivities due to retinal pathology of man and rat. **J Brain Res** 38 (1997) 223-229
100. Germer A, Kühnel K, Grosche J, Friedrich A, Wolburg H, Price J, Reichenbach A, Mack A: Development of the neonatal rabbit retina in organ culture. 1. Comparison with histogenesis *in vivo*, and the effect of a gliotoxin (α -aminoadipic acid). **Anat Embryol** 196 (1997) 67-79
101. Chao TI, Grosche J, Friedrich KJ, Biedermann B, Francke M, Pannicke T, Reichelt W, Wulst M, Mühle C, Pritz-Hohmeier S, Kuhrt H, Faude F, Drommer W, Kasper M, Buse E, Reichenbach A: Comparative studies on mammalian Müller (retinal glial) cells. **J Neurocytol** 26 (1997) 439-454

102. Eckstein AK, Reichenbach A, Jacobi P, Weber P, Gregor M, Zrenner E: Hepatic retinopathia. Changes in retinal function. **Vision Res** 37 (1997) 1699-1706
103. Reichenbach A, Faude F, Enzmann V, Bringmann A, Pannicke T, Francke M, Biedermann B, Stolzenburg J-U, Skatchkov SN, Heinemann U, Wiedemann P, Reichelt W: The Müller (glial) cell in normal and diseased retina. A case for single cell electrophysiology. **Ophthalmic Res** 29 (1997) 326-340
104. Kicliter E, Meyer DL, Reichenbach A, Lugo N: Antibody to keyhole limpet hemocyanin labels horizontal cells in some amphibians, but not in others. **J Brain Res** 38 (1997) 377-381
105. Germer A, Mack A, Reichenbach A: Mammalian Müller (glial) cell glutamine synthetase activity is low in retinal organ cultures but can be stimulated by several factors. **NeuroReport** 8 (1997) 3067-3072
106. Francke M, Pannicke T, Biedermann B, Faude F, Wiedemann P, Reichenbach A, Reichelt W: Loss of inwardly rectifying potassium currents by human retinal glial cells in diseases of the eye. **Glia** 20 (1997) 210-218
107. Grosche J, Grimm D, Reichenbach A: Retinal light damage vs. normal aging of rats: altered morphology, intermediate filament expression, and nuclear organization of Müller (glial) cells. **J Brain Res** 38 (1997) 459-470
108. Bringmann A, Reichenbach A: Heterogeneous expression of Ca²⁺-dependent K⁺ currents by Müller glial cells. **NeuroReport** 8 (1997) 3841-3845
109. Mack AF, Germer A, Janke C, Reichenbach A: Müller (glial) cells in the teleost retina: consequences of continuous growth. **Glia** 22 (1998) 306-313
110. Bernstein H-G, Reichenbach A, Wiederanders B: Cathepsin E immunoreactivity in human osular tissues: influence of aging and pathological states. **Neurosci Lett** 240 (1998) 135-138
111. Biedermann B, Pannicke T, Bringmann A, Skatchkov SN, Veh R, Reichenbach A: Spermine/spermidine is expressed by retinal glial (Müller) cells, and controls distinct K⁺ channels of their membrane. **Glia** 23 (1998) 209-220
112. Albrecht J, Gadamski R, Kuhrt H, Walski M, Reichenbach A: Retinal gliopathy accompanying thioacetamide-induced liver insufficiency: light and electron microscopic observations. **Acta Neuropathol** 96 (1998) 57-66
113. Bringmann A, Skatchkov SN, Biedermann B, Faude F, Reichenbach A: Alterations of potassium channel activity in retinal Müller glial cells induced by arachidonic acid. **Neuroscience** 86 (1998) 1291-1306
114. Paasche G, Huster D, Reichenbach A: The glutathione content of retinal Müller (glial) cells: the effects of aging, and of application of free radical scavengers. **Ophthalmic Res** 30 (1998) 351-360
115. Germer A, Biedermann B, Schousboe A, Wolburg H, Mack A, Reichenbach A: Distribution of mitochondria within Müller cells. I. Correlation with retinal vascularization in different mammalian species. **J Neurocytol** 27 (1998) 329-345
116. Germer A, Wolburg H, Mack A, Reichenbach A: Distribution of mitochondria within Müller cells. II. Post-natal development of the rabbit retinal periphery in vivo and in vitro: dependence on oxygen supply. **J Neurocytol** 27 (1998) 347-359
117. Bringmann A, Kuhrt H, Germer A, Biedermann B, Reichenbach A: Müller (glial) cell development in vivo and in retinal explant cultures: morphology and electrophysiology, and the effects of elevated ammonia. **J Hirnforsch** 39 (1998) 193-206

118. Bringmann A, Biedermann B, Reichenbach A: Expression of potassium channels during postnatal differentiation of rabbit Müller glial cells. **Eur J Neurosci** 11 (1999) 2883-2896
119. Bringmann A, Francke M, Pannicke T, Biedermann B, Faude F, Enzmann V, Wiedemann P, Reichelt W, Reichenbach A: Human Müller glial cells: altered potassium channel activity in proliferative vitreoretinopathy. **Invest Ophthalmol Vis Sci** 40 (1999) 3316-3323
120. Faude F, Wiedemann P, Reichenbach A: A "detachment infusion" for macular translocation surgery. **Retina** 19 (1999) 173-174
121. Grosche J, Matyash V, Möller T, Verkhratsky A, Reichenbach A, Kettenmann H: Microdomains for neuron-glia interaction: parallel fiber signaling to Bergmann glial cells. **Nature Neurosci** 2 (1999) 139-143
122. Härtig W, Derouiche A, Welt K, Brauer K, Grosche J, Mader M, Reichenbach A, Brückner G: Cortical neurons immunoreactive for the potassium channel Kv3.1b subunit are predominantly surrounded by perineuronal nets presumed as a buffering system for cations. **Brain Res** 842 (1999) 15-29
123. Pannicke T, Reichenbach A, Reichelt W: Outwardly rectifying K⁺ channels display clustering in guinea pig retinal Müller cells. **Neurosci Lett** 276 (1999) 13-16
124. Schopf S, Bringmann A, Reichenbach A: Protein kinases A and C are opponents in modulating glial Ca²⁺-activated K⁺ channels. **Neuroreport** 10 (1999) 1323-1327
125. Skatchkov SN, Krusek J, Reichenbach A, Orkand RK: Potassium buffering by Müller cells isolated from the center and periphery of the frog retina. **Glia** 27 (1999) 171-180
126. Wolburg H, Liebner S, Reichenbach A, Gerhardt H: The pecten oculi of the chicken: a model system for vascular differentiation and barrier maturation. **Int Rev Cytol** 187 (1999) 111-159
127. Bringmann A, Schopf S, Faude F, Skatchkov SN, Enzmann V, Reichenbach A: The activity of a transient potassium current in retinal glial (Müller) cells depends on extracellular calcium. **J. Hirnforsch.** 39 (1999) 539-550
128. Gayol S, Pannicke T, Reichenbach A, Colombo JA: Cell-cell coupling in cultures of striatal and cortical astrocytes of the monkey *Cebus apella*. **J Hirnforsch** 39 (1999) 473-479
129. Bringmann A, Pannicke T, Reichenbach A, Skatchkov SN: Ca²⁺ channel-mediated currents in retinal glial (Müller) cells of the toad (*Bufo marinus*). **Neurosci Lett** 281 (2000) 155-158
130. Bringmann A, Francke M, Pannicke T, Biedermann B, Kodali H, Faude F, Reichelt W, Reichenbach A: Role of glial K⁺ channels in ontogeny and gliosis: a hypothesis based upon studies on Müller cells. **Glia** 29 (2000) 35-44
131. Bringmann A, Skatchkov SN, Pannicke T, Biedermann B, Wolburg H, Orkand RK, Reichenbach A: Müller glial cells in anuran retina. **Microsc Res Tech** 50 (2000) 384-393
132. Claudepierre T, Mornet D, Pannicke T, Forster V, Dalloz C, Bolanos F, Sahel J, Reichenbach A, Rendon A: Expression of Dp71 in Müller glial cells: a comparison with utrophin- and dystrophin-associated proteins. **Invest Ophthalmol Vis Sci** 41 (2000) 294-304
133. Hanani M, Francke M, Härtig W, Grosche J, Reichenbach A, Pannicke T: Patch-clamp study of neurons and glial cells in isolated myenteric ganglia. **Am J Physiol** 278 (2000) G644-G651

134. Huster D, Reichenbach A, Reichelt W: The glutathione content of retinal Müller (glial) cells: effect of pathological conditions. **Neurochem Int** 36 (2000) 461-469
135. Kacza J, Vahlenkamp TW, Enbergs H, Richt JA, Germer A, Kuhrt H, Reichenbach A, Müller H, Herden C, Stahl T, Seeger J: (2000). Neuron-glia interactions in the rat retina infected by Borna disease virus. **Arch Virol** 145 (2000) 127-147
136. Pannicke T, Faude F, Reichenbach A, Reichelt W: A function of delayed rectifier potassium channels in glial cells: maintenance of an auxiliary membrane potential under pathological conditions. **Brain Res** 862 (2000) 187-193
137. Skatchkov SN, Eaton MJ, Krusek J, Veh RW, Biedermann B, Bringmann A, Pannicke T, Orkand RK, Reichenbach A: Spatial distribution of spermine/spermidine content and K⁺-current rectification in frog retinal glial (Müller) cells. **Glia** 31 (2000) 84-90
138. Winter M, Eberhardt W, Scholz C, Reichenbach A: Failure of potassium siphoning by Müller cells: a new hypothesis of perfluorocarbon liquid-induced retinopathy. **Invest Ophthalmol Vis Sci** 41 (2000) 256-261
139. Bringmann A, Biedermann B, Faude F, Enzmann V, Reichenbach A: Na⁺ currents through Ca²⁺ channels in human retinal glial (Müller) cells. **Curr Eye Res** 20 (2000) 420-429
140. Pannicke T, Fischer W, Biedermann B, Schadlich H, Grosche J, Faude F, Wiedemann P, Allgaier C, Illes P, Burnstock G, Reichenbach A: P2X₇ receptors in Müller glial cells from the human retina. **J Neurosci** 20 (2000) 5965-5972
141. Bringmann A, Biedermann B, Schnurbusch U, Enzmann V, Faude F, Reichenbach A: Age- and disease-related changes of calcium channel-mediated currents in human Müller glial cells. **Invest Ophthalmol Vis Sci** 41 (2000) 2791-2796
142. Paasche G, Gärtner U, Germer A, Grosche J, Reichenbach A: Mitochondria of retinal Müller (glial) cells: the effects of aging and of application of free radical scavengers. **Ophthalmic Res** 32 (2000) 229-236
143. Bringmann A, Skatchkov SN, Faude F, Enzmann V, Reichenbach A: Farnesol modulates membrane currents in human retinal glial cells. **J Neurosci Res** 62 (2000) 396-402
144. Eichler W, Kuhrt H, Hoffmann S, Wiedemann P, Reichenbach A: VEGF release by retinal glia depends on both oxygen and glucose supply. **Neuroreport** 11 (2000) 3533-3537
145. Kodal H, Weick M, Moll V, Biedermann B, Reichenbach A, Bringmann A: Involvement of calcium-activated potassium channels in the regulation of DNA synthesis in cultured Müller glial cells. **Invest. Ophthalmol. Vis. Sci.** 41 (2000) 4262-4267
146. Bringmann A, Schopf S, Reichenbach A: Developmental regulation of calcium channel-mediated currents in retinal glial (Müller) cells. **J. Neurophysiol.** 84 (2000) 2975-2983
147. Enzmann V, Germer A, Francke M, Kohen L, Wiedemann P, Reichenbach A: Alterations of sensory retinal explants exposed to choroidal melanoma cells ex vivo. **Graefe's Arch Clin Exp Ophthalmol** 238 (2000) 985-992
148. Lauer D, Reichenbach A, Birkenmeier G: Alpha 2-macroglobulin-mediated degradation of amyloid beta 1-42: a mechanism to enhance amyloid beta catabolism. **Exp Neurol** 167 (2001) 385-392

149. Bringmann A, Pannicke T, Moll V, Milenkovic I, Faude F, Enzmann V, Wolf S, Reichenbach A: Up-regulation of P2X₇ receptor currents in Müller glial cells during proliferative vitreoretinopathy. **Invest. Ophthalmol. Vis. Sci.** 42 (2001) 860-867
150. Francke M, Faude F, Pannicke T, Bringmann A, Eckstein P, Reichelt W, Wiedemann P, Reichenbach A: Electrophysiology of rabbit Müller (glial) cells in experimental retinal detachment and PVR. **Invest. Ophthalmol. Vis. Sci.** 42 (2001) 1072-1079
151. Faude F, Wendt S, Biedermann B, Gärtner U, Kacza J, Seeger J, Reichenbach A, Wiedemann P: Facilitation of artificial retinal detachment for macular translocation surgery tested in rabbit. **Invest Ophthalmol Vis Sci** 42 (2001) 1328-1337
152. Felmy F, Pannicke T, Richt JA, Reichenbach A, Guenther E: Electrophysiological properties of rat retinal Müller (glial) cells in postnatally developing and in pathologically altered retinae. **Glia** 34 (2001) 190-199
153. Skatchkov SN, Thomzig A, Eaton MJ, Biedermann B, Eulitz D, Bringmann A, Pannicke T, Veh RW, Reichenbach A: Kir subfamily in frog retina: specific spatial distribution of Kir 6.1 in glial (Müller) cells. **Neuroreport** 12 (2001) 1437-1441
154. Pannicke T, Weick M, Uckermann O, Wheeler-Schilling T, Fries JE, Reichel MB, Mohr C, Stahl T, Fluss M, Kacza J, Seeger J, Richt JA, Reichenbach A: Electrophysiological alterations and upregulation of ATP receptors in retinal glial Müller cells from rats infected with the Borna disease virus. **Glia** 35 (2001) 213-223
155. Bringmann A, Schopf S, Faude F, Reichenbach A: Arachidonic acid-induced inhibition of Ca²⁺ channel currents in retinal glial (Müller) cells. **Graefes Arch Clin Exp Ophthalmol** (2001) 239 859-864
156. Kacza J, Mohr C, Pannicke T, Kuhrt H, Dietzel J, Fluss M, Richt JA, Vahlenkamp, TW Stahl T, Reichenbach, A Seeger J: Changes of the organotypic retinal organization in Borna virus-infected Lewis rats. **J Neurocytol** 30 (2001) 801-820
157. Faude F, Francke M, Makarov F, Schuck J, Gärtner U, Reichelt W, Wiedemann P, Wolburg H, Reichenbach A: Experimental retinal detachment causes widespread and multilayered degeneration in rabbit retina. **J Neurocytol** 30 (2001) 379-390
158. Eichler W, Yafai Y, Kuhrt H, Grater R, Hoffmann S, Wiedemann P, Reichenbach A: Hypoxia: modulation of endothelial cell proliferation by soluble factors released by retinal cells. **Neuroreport** 12 (2001) 4103-4108
159. Schädlich H, Wirkner K, Franke H, Bauer S, Grosche J, Burnstock G, Reichenbach A, Illes P, Allgaier C: P2X(2), P2X(2-2) and P2X(5) receptor subunit expression and function in rat thoracolumbar sympathetic neurons. **J Neurochem** 79 (2001) 997-1003
160. Franke H, Krugel U, Schmidt R, Grosche J, Reichenbach A, Illes P: P2 receptor-types involved in astrogliosis in vivo. **Br J Pharmacol** 134 (2001) 1180-1189
161. Bringmann A, Reichenbach A: Role of Müller cells in retinal degenerations. **Front Biosci** 6 (2001) E72-E92
162. Francke M, Makarov F, Kacza J, Seeger J, Wendt S, Gärtner U, Faude F, Wiedemann P, Reichenbach A: Retinal pigment epithelium melanin granules are phagocytosed by Müller glial cells in experimental retinal detachment. **J Neurocytol** 30 (2001) 131-136

163. Bringmann A, Pannicke T, Weick M, Biedermann B, Uhlmann S, Kohen L, Wiedemann P, Reichenbach A: Activation of P2Y receptors stimulates potassium and cation currents in acutely isolated human Müller (glial) cells. **Glia** 37 (2002) 139-152
164. Grosche J, Kettenmann H, Reichenbach A: Bergmann glial cells form distinct morphological structures to interact with cerebellar neurons. **J Neurosci Res** 68 (2002) 138-149
165. Eaton MJ, Skatchkov SN, Brune A, Biedermann B, Veh RW, Reichenbach A: SUR1 and Kir6.1 subunits of K(ATP)-channels are co-localized in retinal glial (Müller) cells. **Neuroreport** 13 (2002) 57-60
166. Francke M, Weick M, Pannicke T, Uckermann O, Grosche J, Goczalik I, Milenkovic I, Uhlmann S, Faude F, Wiedemann P, Reichenbach A, Bringmann A: Upregulation of extracellular ATP-induced Müller cell responses in a disease model of proliferative vitreoretinopathy. **Invest Ophthalmol Vis Sci** 43 (2002) 870-881.
167. Moll V, Weick M, Milenkovic I, Kodal H, Reichenbach A, Bringmann A: P2Y receptor-mediated stimulation of Müller glial DNA synthesis. **Invest Ophthalmol Vis Sci** 43 (2002) 766-773
168. Bringmann A, Pannicke T, Uhlmann S, Kohen L, Wiedemann P, Reichenbach A: Membrane conductance of Müller glial cells in proliferative diabetic retinopathy. **Can J Ophthalmol** 37 (2002) 221-227
169. Raap M, Biedermann B, Braun P, Milenkovic I, Skatchkov SN, Bringmann A, Reichenbach A: Diversity of Kir channel subunit mRNA expressed by retinal glial cells of the guinea-pig. **Neuroreport** 13 (2002) 1037-1040
170. Pannicke T, Bringmann A, Reichenbach A: Electrophysiological characterization of retinal Müller glial cells from mouse during postnatal development: comparison with rabbit cells. **Glia** 38 (2002) 268-272
171. Skatchkov SN, Rojas L, Eaton MJ, Orkand RK, Biedermann B, Bringmann A, Pannicke T, Veh RW, Reichenbach A: Functional expression of Kir 6.1/SUR1-K(ATP) channels in frog retinal Müller glial cells. **Glia** 38 (2002) 256-267
172. Biedermann B, Bringmann A, Reichenbach A: High-affinity GABA uptake in retinal glial (Müller) cells of the guinea pig: Electrophysiological characterization, immunohistochemical localization, and modeling of efficiency. **Glia** 39 (2002) 217-228
173. Kofuji P, Biedermann B, Siddharthan V, Raap M, Iandiev I, Milenkovic I, Thomzig A, Veh RW, Bringmann A, Reichenbach A: Kir potassium channel subunit expression in retinal glial cells: Implications for spatial potassium buffering. **Glia** 39 (2002) 292-303
174. Kacza J, Mohr C, Pannicke T, Kuhrt H, Dietzel J, Flüß M, Richt JA, Vahlenkamp TW, Stahl T, Reichenbach A, Seeger J: Changes of the organotypic retinal organization in Borna virus-infected Lewis rats. **J Neurocytol** 30 (2002) 801-820
175. Uckermann O, Grosche J, Reichenbach A, Bringmann A: ATP-evoked calcium responses of radial glial (Müller) cells in the postnatal rabbit retina. **J Neurosci Res** 70 (2002) 209-218
176. Biedermann B, Wolf S, Kohen L, Wiedemann P, Buse E, Reichenbach A, Pannicke T: Patch-clamp recording of Müller glial cells after cryopreservation. **J Neurosci Meth** 120 (2002) 173-178
177. Chávez A, Roncagliolo M, Kurth H, Reichenbach A, Palacios AG: The retinal anatomy and function of the myelin mutant *taiep* rat. **Brain Res** 964 (2003) 144-152

178. Mack AF, Uhlmann D, Germer A, Szél A, Enzmann V, Reichenbach A: Differentiation of cones in cultured rabbit retina: effects of retinal pigment epithelial cell-conditioned medium. **Neurosci Lett** 341 (2003) 53-56
179. Reber F, Geffarth R, Kasper M, Reichenbach A, Schleicher ED, Siegner A, Funk RHW: Graded sensitiveness of the various retinal neuron populations on the glycoxal-mediated formation of advanced glycation end products and ways of protection. **Greafes Arch Clin Exp Ophthalmol** 241 (2003) 213-225
180. Stahl T, Mohr C, Kacza J, Reimers C, Pannicke T, Sauder C, Reichenbach A, Seeger J: Characterization of the acute immune response in the retina of the Borna disease virus infected Lewis rats. **J Neuroimmunol** 137 (2003) 67-78
181. Uckermann O, Uhlmann S, Weick M, Pannicke T, Francke M, Reichenbach A, Wiedemann P, Bringmann A: Upregulation of purinergic P2Y receptor-mediated calcium responses in glial cells during experimental detachment of rabbit retina. **Neurosci Lett** 338 (2003) 131-134
182. Francke M, Uhlmann S, Pannicke T, Goczalik I, Uckermann O, Weick M, Härtig W, Wiedemann P, Reichenbach A, Bringmann A: Experimental dispase-induced retinopathy causes up-regulation of P2Y receptor-mediated calcium responses in Müller glial cells. **Ophthalmic Res** 35 (2003) 30-41
183. Milenkovic I, Weick M, Wiedemann P, Reichenbach A, Bringmann A: P2Y receptor-mediated stimulation of Müller glial cell DNA synthesis: dependence on EGF and PDGF receptor transactivation. **Invest Ophthalmol Vis Sci** 44 (2003) 1211-1220
184. Uhlmann S, Uhlmann D, Hauss J, Reichenbach A, Wiedemann P, Faude F: Recovery from hepatic retinopathy after liver transplantation. **Greafes Arch Clin Exp Ophthalmol** 241 (2003) 451-457
185. Birkenmeier G, Müller R, Huse K, Forberg J, Glaser C, Hedrich H, Nicklisch S, Reichenbach A. Human alpha2-macroglobulin: genotype-phenotype relation. **Exp Neurol** 184 (2003) 153-161
186. Weick M, Cherkas PS, Härtig W, Pannicke T, Uckermann O, Bringmann A, Tal M, Reichenbach A, Hanani M: P2 receptors in satellite glial cells in trigeminal ganglia of mice. **Neuroscience** 120 (2003) 969-977
187. Dalloz C, Sarig R, Fort P, Yaffe D, Bordais A, Pannicke T, Grosche J, Reichenbach A, Sahel J, Nudel U, Rendon A: Targeted inactivation of dystrophin gene product Dp71: phenotypic impact in mouse retina. **Human Molec Genet** 12 (2003) 1543-1554
188. Bringmann A, Pannicke T, Francke M, Milenkovic I, Weick M, Uckermann O, Uhlmann S, Wiedemann P, Reichenbach A: Proliferation of retinal glial (Müller) cells: role of P2 receptors and potassium channels. **Biomed Res** 14 (2003) 38-46
189. Uhlmann S, Bringmann A, Uckermann O, Pannicke T, Weick M, Ulbricht E, Goczalik I, Reichenbach A, Wiedemann P, Francke M. Early glial cell reactivity in experimental retinal detachment: effect of suramin. **Invest Ophthalmol Vis Sci** 44 (2003) 4114-4122
190. Uckermann O, Iandiev I, Francke M, Franze K, Grosche J, Wolf S, Kohen L, Wiedemann P, Reichenbach A, Bringmann A. Selective staining by vital dyes of Müller glial cells in retinal wholemounts. **Glia** 45 (2004) 59-66
191. Wolf S, Schnurbusch U, Wolburg H, Wiedemann P, Grosche J, Reichenbach A. Peeling of the Basal Membrane in the Human Retina: Ultrastructural Effects. **Ophthalmology** 111 (2004) 248-253

192. Eaton MJ, Veh RW, Makarov F, Shuba YM, Reichenbach A, Skatchkov SN. Tandem-pore K⁺ channels display an uneven distribution in amphibian retina. **NeuroReport** 15 (2004) 321-324
193. Chavez AE, Pannicke T, Roncagliolo M, Reichenbach A, Palacios AG. Electrophysiological properties of retinal Müller glial cells from myelin mutant rat. **Glia** 45 (2004) 338-345
194. Biedermann B, Bringmann A, Franze K, Faude F, Wiedemann P, Reichenbach A. GABA_A receptors in Müller glial cells of the human retina. **Glia** 46 (2004) 302-310
195. Eichler W, Yafai Y, Keller T, Wiedemann P, Reichenbach A. PEDF derived from glial Müller cells: a possible regulator of retinal angiogenesis. **Exp Cell Res** 299 (2004) 68-78
196. von Mach MA, Hengstler JG, Brulport M, Eberhardt M, Schormann W, Hermes M, Prawitt D, Zabel B, Grosche J, Reichenbach A, Müller B, Weilemann LS, Zulewski H. In vitro cultured islet-derived progenitor cells of human origin express human albumin in SCID mouse liver in vivo. **Stem Cells** 22 (2004) 1134-1141
197. Kuhrt H, Walski M, Reichenbach A, Albrecht J. Rabbit retinal organ culture as an in-vitro model of hepatic retinopathy. **Graefes Arch Clin Exp Ophthalmol** 242 (2004) 512-522
198. Cherkas PS, Huang T-Y, Pannicke T, Tal M, Reichenbach A, Hanani M. The effects of axotomy on neurons and satellite glial cells in mouse trigeminal ganglion. **Pain** 110 (2004) 290-298
199. Lundkvist A, Reichenbach A, Betsholtz C, Carmeliet P, Wolburg H, Pekny M. Under stress, the absence of intermediate filaments from Müller cells in the retina has structural and functional consequences. **J Cell Sci** 117 (2004) 3481-3488
200. Pannicke T, Iandiev I, Uckermann O, Biedermann B, Kutzeras F, Wiedemann P, Wolburg H, Reichenbach A, Bringmann A. A potassium channel-linked mechanism of glial cell swelling in the postischemic retina. **Molec Cell Neurosci** 26 (2004) 493-502
201. Sinnreich O, Kratzsch J, Reichenbach A, Gläser C, Huse K, Birkenmeier G: Plasma levels of transforming growth factor- β and α 2-macroglobulin before and after radical prostatectomy: association to clinicopathological parameters. **Prostate** 61 (2004) 201-208
202. Wolf S, Schnurbusch U, Wolburg H, Wiedemann P, Grosche J, Reichenbach A. Peeling of the Basal Membrane in the Human Retina: Ultrastructural Effects. Author reply. **Ophthalmology** 111 (2004) 1792-1973
203. Milenkovic I, Weick M, Wiedemann P, Reichenbach A, Bringmann A. Neuropeptide Y-evoked proliferation of retinal glial (Müller) cells. **Graefes Arch Clin Exp Ophthalmol** 242 (2004) 944-950
204. Schopf S, Ruge H, Bringmann A, Reichenbach A, Skatchkov SN. Switch of K⁺ buffering conditions in rabbit retinal Müller glial cells during postnatal development. **Neurosci Lett** 365 (2004) 167-170
205. Faude F, Reichenbach A, Wiedemann P. Zur Geschichte der Hypothese einer Mitwirkung der Müllerzellen bei der Entwicklung des idiopathischen Makulaforamens. **Klin Monatsbl Augenheilkd** 221 (2004) 519-520

206. Eichler W, Yafai Y, Wiedemann P, Reichenbach A. Angiogenesis-related factors derived from retinal glial (Müller) cells in hypoxia. **NeuroReport** 15 (2004) 1633-1637
207. Allgaier C, Reinhardt R, Schädlich H, Rubuni P, Bauer S, Reichenbach A, Illes P. Somatic and axonal effects of ATP via P2X₂ but not P2X₇ receptors in rat thoracolumbar sympathetic neurones. **J Neurochem** 90 (2004) 359-367
208. Hollborn M, Birkenmeier G, Saalbach A, Iandiev I, Reichenbach A, Wiedemann P, Kohen L. Expression of LRP1 in retinal pigment epithelial cells and its regulation by growth factors. **Invest Ophthalmol Vis Sci** 45 (2004) 2033-2038
209. Hollborn M, Krause C, Iandiev I, Yafai Y, Tenckhoff S, Bigl M, Schnurrbusch UE, Limb GA, Reichenbach A, Kohen L, Wolf S, Wiedemann P, Bringmann A. Glial cell expression of hepatocyte growth factor in vitreoretinal proliferative disease. **Lab Invest** 84 (2004) 963-972
210. Hollborn M, Reichenbach A, Wiedemann P, Kohen L. Contrary effects of cytokines on mRNAs of cell cycle- and ECM-related proteins in hRPE cells *in vitro*. **Curr Eye Res** 28 (2004) 215-223
211. Uckermann O, Vargova L, Ulbricht E, Klaus C, Weick M, Rillich K, Wiedemann P, Reichenbach A, Syková E, Bringmann A. Glutamate-evoked alterations of glial and neuronal cell morphology in the guinea-pig retina. **J Neurosci** 24 (2004) 10149-10158
212. Bringmann A, Reichenbach A, Wiedemann P. Pathomechanisms of cystoid macular edema. **Ophthalmic Res** 36 (2004) 241-249
213. Yafai Y, Iandiev I, Wiedemann P, Reichenbach A, Eichler W. Retinal endothelial angiogenic activity: effects of hypoxia and glial (Müller) cells. **Microcirculation** 11 (2004) 577-586
214. Weick M, Wiedemann P, Reichenbach A, Bringmann A. Resensitization of P2Y receptors by growth factor-mediated activation of the phosphatidylinositol-3 kinase in retinal glial cells. **Invest Ophthalmol Vis Sci** 46 (2005) 1525-1532
215. Sarthy VP, Pignataro L, Pannicke T, Weick M, Reichenbach A, Marc R. Glutamate transport in retinal Müller cells from glutamate/aspartate transport (GLAST) knockout mice. **Glia** 49 (2005) 184-196
216. Pfeiffer-Guglielmi B, Francke M, Reichenbach A, Fleckenstein B, Jung G, Hamprecht B. Glycogen phosphorylase isozyme pattern in mammalian retinal Müller (glial) cells and in astrocytes of retina and optic nerve. **Glia** 49 (2005) 84-95
217. Stöhr H, Molday LL, Molday RS, Weber BHF, Biedermann B, Reichenbach A, Krämer F. Membrane-associated guanylate kinase proteins MPP4 and MPP5 associate with Veli3 at distinct intercellular junctions of the neurosensory retina. **J Comp Neurol** 481 (2005) 31-41
218. Pannicke T, Uckermann O, Iandiev I, Biedermann B, Wiedemann P, Perlman I, Reichenbach A, Bringmann A. Altered membrane physiology in Müller glial cells after transient ischemia of the rat retina. **Glia** 50 (2005) 1-11

219. Francke M, Faude F, Pannicke T, Uckermann O, Weick M, Wolburg H, Wiedemann P, Reichenbach A, Uhlmann S, Bringmann A: Glial cell-mediated spread of retinal degeneration during detachment: a hypothesis based upon studies in rabbits. **Vision Res** 45 (2005) 1781-1791
220. Hollborn M, Tenckhoff S, Jahn K, Iandiev I, Biedermann B, Schnurrbusch UEK, Limb GA, Reichenbach A, Wolf S, Wiedemann P, Kohen L, Bringmann A: Changes in retinal gene expression in proliferative vitreoretinopathy: glial cell expression of HB-EGF. **Molec Vision** 11 (2005) 397-413
221. Uckermann O, Uhlmann S, Pannicke T, Francke M, Gamsalijew R, Makarow F, Ulbricht E, Wiedemann P, Reichenbach A, Osborne NN, Bringmann A: Ischemia-reperfusion causes exsudative detachment of the rabbit retina. **Invest Ophthalmol Vis Sci** 46 (2005) 2592-2600
222. Fries JE, Goczalik IM, Wheeler-Schilling TH, Kohler K, Guenther E, Wolf S, Wiedemann P, Bringmann A, Reichenbach A, Francke M, Pannicke T: Identification of P2Y receptor subtypes in human Müller glial cells by physiology, single cell RT-PCR, and immunohistochemistry. **Invest Ophthalmol Vis Sci** 46 (2005) 3000-3007
223. Iandiev I, Pannicke T, Reichel MB, Wiedemann P, Reichenbach A, Bringmann A: Expression of aquaporin-1 immunoreactivity by photoreceptor cells in the mouse retina. **Neurosci Lett** 388 (2005) 96-99
224. Bringmann A, Uckermann O, Pannicke T, Iandiev I, Reichenbach A, Wiedemann P: Neuronal versus glial cell swelling in the ischaemic retina. **Acta Ophthalmol Scand** 83 (2005) 528-538
225. Uckermann O, Pannicke T, Wiedemann P, Reichenbach A, Bringmann A, Uhlmann S. Triamcinolone does not alter glial cell activation in the experimentally detached rabbit retina. **J Ocular Pharmacol Therapeutics** 21 (2005) 266-274
226. Franke H, Klimke K, Brinckmann U, Grosche J, Francke M, Sperlagh B, Reichenbach A, Liebert UG, Illes P: P2X₇ receptor-mRNA and -protein in the mouse retina; changes during retinal degeneration in BALB/Crds mice. **Neurochem Int** 47 (2005) 235-242
227. Uckermann O, Kutzera F, Wolf A, Pannicke T, Reichenbach A, Wiedemann P, Wolf S, Bringmann A: The glucocorticoid triamcinolone acetonide inhibits osmotic swelling of retinal glial cells via stimulation of endogenous adenosine signaling. **J Pharmacol Exp Ther** 315 (2005) 1036-1045
228. Milenkovic I, Birkenmeier G, Wiedemann P, Reichenbach A, Bringmann A: Effect of alpha2-macroglobulin on retinal glial cell proliferation. **Graefes Arch Clin Exp Ophthalmol** 243 (2005) 811-816
229. Pannicke T, Biedermann B, Uckermann O, Weick M, Bringmann A, Wolf S, Wiedemann P, Habermann G, Buse E, Reichenbach A: Physiological properties of retinal Müller glial cells from the cynomolgus monkey, *Macaca fascicularis* - a comparison to human Müller cells. **Visison Res** 45 (2005) 1781-1791

230. Pannicke T, Uckermann O, Iandiev I, Wiedemann P, Reichenbach A, Bringmann A: Ocular inflammation alters swelling and membrane characteristics of rat Müller glial cells. **J Neuroimmunol** 161 (2005) 145-154
231. Skatchkov SN, Eaton MJ, Shuba YM, Kucheryavykh YV, Derst C, Veh RW, Wurm A, Iandiev I, Pannicke T, Bringmann A, Reichenbach A: Tandem-pore domain potassium channels are functionally expressed in retinal (Müller) glial cells. **Glia** 53 (2006) 266-276
232. Iandiev I, Biedermann B, Bringmann A, Reichel MB, Reichenbach A, Pannicke T: Atypical gliosis in Müller cells of the slowly degenerating *rds* mutant mouse retina. **Exp Eye Res** 82 (2006) 449-457
233. Jaekel B, Mühlberg K, Gracia de Ariba S, Reichenbach A, Verdaguer E, Pallas M, Camins A, Nörenberg W, Allgaier C: Neuroprotection associated with alternative splicing of NMDA receptors in rat cortical slices. **Brit J Pharmacol** 147 (2006) 622-633
234. Iandiev I, Tenckhoff S, Pannicke T, Biedermann B, Hollborn M, Wiedemann P, Reichenbach A, Bringmann A: Differential regulation of Kir4.1 and Kir2.1 expression in the ischemic rat retina. **Neurosci Lett** 396 (2006) 97-101
235. Uckermann O, Wolf A, Kutzera F, Kalisch F, Beck-Sickinger A, Wiedemann P, Reichenbach A, Bringmann A: Glutamate release by neurons evokes a purinergic inhibitory mechanism of osmotic glial cell swelling in the rat retina: activation by neuropeptide Y. **J Neurosci Res** 83 (2006) 538-550
236. Dilsiz N, Sahaboglu A, Yildiz MZ, Reichenbach A: Protective effects of various antioxidants during ischemia-reperfusion in the rat retina. **Graefes Arch Clin Exp Ophthalmol** 244 (2006) 627-633
237. Weuste M, Wurm A, Iandiev I, Wiedemann P, Reichenbach A, Bringmann A: HB-EGF: increase in the ischemic rat retina and inhibition of osmotic glial cell swelling. **Biochem Biophys Res Comm** 347 (2006) 310-318
238. Pannicke T, Iandiev I, Wurm A, Uckermann O, vom Hagen F, Reichenbach A, Wiedemann P, Hammes H-P, Bringmann A: Diabetes Alters Osmotic Swelling Characteristics and Membrane Conductance of Glial Cells in Rat Retina. **Diabetes** 55 (2006) 633-639
239. Kuhla B, Lüth HJ, Haferburg D, Weick M, Reichenbach A, Arendt T, Münch G. Pathological effects of glyoxalase I inhibition in SH-SY5Y neuroblastoma cells. **J Neurosci Res** 83 (2006) 1591-1600.
240. Bringmann A, Pannicke T, Grosche J, Francke M, Wiedemann P, Skatchkov SN, Osborne NN, Reichenbach A. Müller cells in the healthy and diseased retina. **Progr Retinal Eye Res** 25 (2006) 397-424.
241. Kalisch F, Wurm A, Iandiev I, Uckermann O, Dilsiz N, Reichenbach A, Wiedemann P, Bringmann A. Atrial natriuretic peptide inhibits osmotical glial cell swelling in the ischemic rat retina: Dependence on glutamatergic-purinergic signaling. **Exp Eye Res** 83 (2006) 962-971.

242. Pfeiffer-Guglielmi B, Coles JA, Francke M, Reichenbach A, Fleckenstein B, Jung G, Nicaise G, Hamprecht B: Immunocytochemical analysis of rat vagus nerve by antibodies against glycogen phosphorylase isozymes. **Brain Res** 1110 (2006) 23-29.
243. Iandiev I, Uckermann O, Pannicke T, Wurm A, Tenckhoff S, Pietsch UC, Reichenbach A, Wiedemann P, Bringmann A: Glial cell reactivity in a porcine model of retinal detachment. **Invest Ophthalmol Vis Sci** 47 (2006) 2161-2171.
244. Iandiev I, Biedermann B, Reichenbach A, Wiedemann P, Bringmann A: Expression of aquaporin-9 immunoreactivity by catecholaminergic amacrine cells in the rat retina. **Neurosci Lett** 398 (2006) 264-267.
245. Wurm A, Pannicke T, Iandiev I, Wiedemann P, Reichenbach A, Bringmann A: The developmental expression of K⁺ channels in retinal glial cells is associated with a decrease of osmotic cell swelling. **Glia** 54 (2006) 411-423.
246. Iandiev I, Pannicke T, Biedermann B, Wiedemann P, Reichenbach A, Bringmann A: Ischemia-reperfusion alters the immunolocalization of glial aquaporins in rat retina. **Neurosci Lett** 408 (2006) 108-112.
247. Brückner G, Pavlica S, Morawsaki M, Palacios AG, Reichenbach A: Organization of brain extracellular matrix in the Chilean fat-tailed mouse opossum *Thylamys elegans* (Waterhouse, 1839). **J Chem Neuroanat** 32 (2006) 143-158.
248. Lu Y, Franze K, Seifert G, Steinhäuser C, Kirchhoff F, Wolburg H, Guck J, Janmey P, Wei, EQ, Käs J, Reichenbach A: Viscoelastic properties of individual glial cells and neurons in the CNS. **PNAS** 103 (2006) 17759-17764.
249. Wurm A, Pannicke T, Iandiev I, Bühner E, Pietsch U-C, Reichenbach A, Wiedemann P, Uhlmann S, Bringmann A: Changes in Membrane Conductance Play a Pathogenic Role in Osmotic Glial Cell Swelling in Detached Retinas. **Am J Pathol** 169 (2006) 1990-1998.
250. Kucheryavykh YV, Kucheryavykh LY, Nichols CG, Maldonado HM, Baksi K, Reichenbach A, Skatchkov SN, Eaton MJ: Downregulation of Kir4.1 inward rectifying potassium channel subunits by RNAi impairs potassium transfer and glutamate uptake by cultured cortical astrocytes. **Glia** 55 (2007) 274-281.
251. Dietzel J, Kuhrt H, Stahl T, Kacza J, Seeger J, Weber M, Uhlig A, Reichenbach A, Grosche J, Pannicke T: Morphometric analysis of the retina from horses infected with the Borna disease virus. **Vet Pathol** 44 (2007) 57-63.
252. Yafai Y, Lange J, Wiedemann P, Reichenbach A, Eichler W: Pigment epithelium-derived factor as a an opponent of growth-stimulatory factors in retinal glial-endothelial cell interactions. **Glia** 55 (2007) 642-651.
253. Bringmann A, Iandiev I, Pannicke T, Wurm A, Bühner E, Reichenbach A, Wiedemann P, Uhlmann S. Porcine Müller glial cells increase expression of BK_{Ca} channels in retinal detachment. **Curr Eye Res.** 32 (2007) 143-151.

254. Franze K, Grosche J, Skatchkov SN, Schinkinger S, Foja C, Schild D, Uckermann O, Travis K, Reichenbach A, Guck J: Müller cells are living optical fibers in the vertebrate retina. **PNAS** 104 (2007) 8287-8292.
255. Reichenbach A, Wurm A, Pannicke T, Iandiev I, Wiedemann P, Bringmann A: Müller cells as players in retinal degeneration and edema. **Graefes Arch Clin Exp Ophthalmol.** (2007) 627-636.
256. Pfeiffer-Guglielmi B, Francke M, Reichenbach A, Hamprecht B: Glycogen phosphorylase isozymes and energy metabolism in the rat peripheral nervous system--an immunocytochemical study. **Brain Res.** 1136 (2007):20-27.
257. Iandiev I, Pannicke T, Härtig W, Grosche J, Wiedemann P, Reichenbach A, Bringmann A: Localization of aquaporin-0 immunoreactivity in the rat retina. **Neurosci Lett.** 426 (2007) 81-86.
258. Iandiev I, Pannicke T, Reichenbach A, Wiedemann P, Bringmann A: Diabetes alters the localization of glial aquaporins in rat retina. **Neurosci Lett.** 421 (2007) 132-136.
259. Giaume C, Kirchhoff F, Matute C, Reichenbach A, Verkhratsky A: Glia: the fulcrum of brain diseases. **Cell Death Differ.** 14 (2007):1324-1335.
260. Iandiev I, Wurm A, Pannicke T, Wiedemann P, Reichenbach A, Robson SC, Zimmermann H, Bringmann A. Ectonucleotidases in Müller glial cells of the rodent retina: Involvement in inhibition of osmotic swelling. **Purinergic Signalling** 3 (2007) 423-433.
261. Wurm A, Pannicke T, Wiedemann P, Reichenbach A, Bringmann A: Glial cell-derived glutamate mediates autocrine cell volume regulation in the retina: activation by VEGF. **J Neurochem.** 104 (2008) 386-399.
262. Ulbricht E, Pannicke T, Hollborn M, Raap M, Goczalik I, Iandiev I, Härtig W, Uhlmann S, Wiedemann P, Reichenbach A, Bringmann A, Francke M: Proliferative gliosis causes mislocation and inactivation of inwardly rectifying K⁺ (Kir) channels in rabbit retinal glial cells. **Exp Eye Res** 86 (2008) 305-313.
263. Hirrlinger PG, Wurm A, Hirrlinger J, Bringmann A, Reichenbach A: Differential osmotic swelling of glial cells in the murine hippocampus, cerebellum and retina. **J Neurochem.** 105 (2008) 1405-1417.
264. Fort PE, Sene A, Pannicke T, Forster V, Mornet D, Nudel U, Yaffe D, Reichenbach A, Sahel JA, Rendon A. Kir4.1 and AQP4 associate with Dp71- and utrophin-DAPs complexes in specific and defined microdomains of Müller retinal glial cell membranes. **Glia** 56 (2008) 597-610.
265. Iandiev I, Pannicke T, Hollborn M, Wiedemann P, Reichenbach A, Grimm C, Remé CE, Bringmann A. Localization of glial aquaporin-4 and Kir4.1 in the light-injured murine retina. **Neurosci Lett** 434 (2008) 317-321.
266. Kucheryavykh YV, Shuba YM, Antonov SM, Inyushin MY, Cubano L, Pearson WD, Kurata H, Reichenbach A, Veh RW, Nichols CG, Eaton MJ, Skatchkov SN. Complex rectification of Müller cell Kir currents. **Glia** 56 (2008) 775-790.

267. Iandiev I, Wurm A, Hollborn M, Wiedemann P, Grimm C, Remé CE, Reichenbach A, Pannicke T, Bringmann A. Müller cell response to blue light injury of the rat retina. **Invest Ophthalmol Vis Sci**. 49 (2008) 3559-3567.
268. Bolz S, Schuettauf F, Fries JE, Thaler S, Reichenbach A, Pannicke T. K⁺ currents fail to change in reactive retinal glial cells in a mouse model of glaucoma. **Graefes Arch Clin Exp Ophthalmol**. 246 (2008) 1249-1254.
269. Wurm A, Iandiev I, Hollborn M, Wiedemann P, Reichenbach A, Zimmermann H, Bringmann A, Pannicke T. Purinergic receptor activation inhibits osmotic glial cell swelling in the diabetic rat retina. **Exp Eye Res** 87 (2008) 385-393.
270. Kuhrt H, Wurm A, Karl A, Iandiev I, Wiedemann P, Reichenbach A, Bringmann A, Pannicke T. Müller cell gliosis in retinal organ culture mimics ischemic alterations *in vivo*. **Int J Dev Neurosci**, 26 (2008) 745-751.
271. Lange J, Yafai Y, Reichenbach A, Wiedemann P, Eichler W. Regulation of pigment epithelium-derived factor production and release by retinal glial (Müller) cells under hypoxia. **Invest Ophthalmol Vis Sci** 49 (2008) 5161-5167
272. Goczałik I, Ulbricht E, Hollborn M, Raap M, Uhlmann S, Weick M, Pannicke T, Wiedemann P, Bringmann A, Reichenbach A, Francke M. Expression of CXCL8, CXCR1, and CXCR2 in neurons and glial cells of the human and rabbit retina. **Invest Ophthalmol Vis Sci** 49 (2008) 4578-4589
273. Hollborn M, Francke M, Iandiev I, Bühner E, Foja C, Kohen L, Reichenbach A, Wiedemann P, Bringmann A, Uhlmann S. Early activation of inflammation- and immuno response-related genes after experimental detachment of the porcine retina. **Invest Ophthalmol Vis Sci** 49 (2008) 1262-1273
274. Boettcher C, Ulbricht E, Helmlinger D, Mack AF, Reichenbach A, Wiedemann P, Wagner H-P, Seeliger MW, Bringmann A, Priller J. Long-term engraftment of systematically transplanted, gene-modified bone marrow-derived cells in the adult mouse retina. **Br J Ophthalmol** 92 (2008) 272-275
275. Reichenbach A, Pannicke T. A new glance at glia. **Science** 322 (2008) 693-694.
276. Landsberger M, von der Emde G, Haverkate D, Schuster S, Gentsch J, Ulbricht E, Reichenbach A, Makarov F, Wagner H-J. Dim light vision – morphological and functional adaptations of the eye of the mormyrid fish, *Gnathonemus petersii*. **J Physiol (Paris)** 102 (2008) 291-303.
277. Hirrlinger J, Scheller A, Hirrlinger PG, Kellert B, Tang W, Wehr MC, Goebbels S, Reichenbach A, Sprengel R, Rossner MJ, Kirchhoff F. Split-Cre complementation indicates coincident activity of different genes *in vivo*. **PLoS ONE** 4 (2009) 1-10.
278. Joly S, Fracke M, Ulbricht E, Beck S, Seeliger M, Hirrlinger P, Hirrlinger J, Lang KS, Zinkemangel M, Odermatt B, Samardzija M, Reichenbach A, Grimm C, Remé CE. Cooperative phagocytes. Resident microglia and bone marrow immigrants remove dead photoreceptors in retinal lesions. **Amer J Pathol** 174 (2009) 2310-2323.

279. Lipp S, Wurm A, Pannicke T, Wiedemann P, Reichenbach A, Chen J, Bringmann A. Calcium responses mediated by type 2 IP₃-receptors are required for osmotic volume regulation of retinal glial cells in mice. **Neurosci Lett.** 457 (2009) 85-88.
280. Rillich K, Gentsch J, Reichenbach A, Bringmann A, Weick M. Light stimulation evokes two different calcium responses in Müller glial cells of the guinea pig retina. **Eur J Neurosci.** 29 (2009) 1165-1176.
281. Bringmann A, Pannicke T, Biedermann B, Francke M, Iandiev I, Grosche J, Wiedemann P, Albrecht J, Reichenbach A. Role of retinal glial cells in neurotransmitter uptake and metabolism. **Neurochem Int.** 54 (2009) 143-160.
282. Härtig W, Reichenbach A, Voigt C, Boltze J, Bulavina L, Schuhmann MU, Seeger J, Schusser GF, Freytag C, Grosche J. Triple fluorescence labelling of neuronal, glial and vascular markers revealing pathological alterations in various animal models. **J Chem Neuroanat.** 37 (2009) 128-138.
283. Housley GD, Bringmann A, Reichenbach A. Purinergic signaling in special senses. **Trends Neurosci.** 32 (2009) 128-141.
284. Pfeiffer-Guglielmi B, Francke M, Roski C, Hanani M, Reichenbach A, Hamprecht B. Immunohistochemical localization of glycogen phosphorylase isozymes in the rat gastrointestinal muscle layers and enteric nervous system. **Neurochem Res.** 34 (2009) 876-883.
285. Rehak M, Hollborn M, Iandiev I, Pannicke T, Karl A, Wurm A, Kohen L, Reichenbach A, Wiedemann P, Bringmann A. Retinal gene expression and Müller cell responses after branch retinal vein occlusion in the rat. **Invest Ophthalmol Vis Sci.** 50 (2009) 2359-2367.
286. Franze K, Gerdemann J, Weick M, Betz T, Pawlizak S, Lakadamyali M, Bayer J, Rillich K, Gögler M, Lu Y-B, Reichenbach A, Janmey P, Käs J. Neurite branch retraction is caused by a threshold-dependent mechanical impact. **Biophys J.** 97 (2009) 1883-1890.
287. Wurm A, Erdmann I, Bringmann A, Reichenbach A, Pannicke T. Expression and function of P₂Y receptors on Müller cells of the postnatal rat retina. **Glia** 57 (2009) 1680-1690.
288. Tackenberg MA, Tucker BA, Swift JS, Jiang C, Redenti S, Greenberg KP, Flannery JG, Reichenbach A, Young MJ. Müller cell activation, proliferation and migration following laser injury. **Mol Vis.** 15 (2009) 1886-1896.
289. Sene A, Tadayoni R, Pannicke T, Wurm A, El Mathari B, Benard R, Roux MJ, Yaffe D, Mornet D, Reichenbach A, Sahel J-A, Rendon A. Functional implication of DP71 in osmoregulation and vascular permeability of the retina. **PlosOne** 4 (2009) e7329.
290. Wurm A, Lipp S, Pannicke T, Linnertz R, Färber K, Wiedemann P, Reichenbach A, Bringmann A. Involvement of A₁ adenosine receptors in osmotic volume regulation of retinal glial cells in mice **Mol Vis.** 15 (2009) 1858-1867.

291. Wurm A, Lipp S, Pannicke T, Linnertz R, Krügel U, Schulz A, Färber K, Zahn D, Grosse J, Wiedemann P, Chen J, Schöneberg T, Illes P, Reichenbach A, Bringmann A. Endogenous purinergic signaling is required for osmotic volume regulation of retinal glial cells. **J Neurochem.** (2010) *in press*

Books / Book articles

1. Brückner G, Hess K, Reichenbach A, Brauer K: Stages of cell proliferation and structural determination in the developing brain shown by a cell isolation procedure. In: Trojan S, Stastny F (eds) **Ontogenesis of the Brain**, Vol 4, Univ Carolina Pragensis 1987, pp101-104
2. Reichenbach A, Eberhardt W: Contribution of retinal glia to light-evoked potentials of the retina. In: Haschke W, Speckmann E-J (eds): **Slow Activity Changes in the Brain**, Verlag: Friedrich-Schiller-Universität, Jena 1993, pp 91-96
3. Reichenbach A, Pritz-Hohmeier S: Normal and disturbed early development of the eye anlagen. **Prog Eye Res** 14 (1995) 1-46
4. Reichenbach A, Robinson S: The involvement of Müller cells in the outer retina. In: Djamgoz M, Archer SN, Vallergera S (eds): **Neurobiology and Clinical aspects of the Outer Retina**, Chapman & Hall, London 1995, pp 395-416
5. Reichenbach A, Robinson SR: (1995) Ependymoglia and ependymoglia-like cells. In: Ransom BR, Kettenmann H (eds): **Neuroglial Cells**, Oxford University Press, Oxford 1995, pp 58-84
6. Reichenbach A, Robinson SR: Phylogenetic constraints on retinal organization and development: an Haeckelian perspective. **Prog Retinal Res** 15 (1995) 139-171
7. Reichenbach A, Skatchkov SN, Reichelt W: The retina as a model of glial function in the brain. In: Laming P, Sykova E, Reichenbach A, Hatton G, Bauer H (eds): **Glial Cells and their Role in Behaviour**, Cambridge University Press, New York 1998, pp 63-82
8. Reichenbach A, Germer A, Bringmann A, Biedermann B, Pannicke T, Francke M, Kuhrt H, Reichelt W, Mack A: Glio-Neuronal interactions in retinal development. In: Chalupa LM, Finlay BL (eds): **Development and Organization of the Retina from Molecules to Function**, Vol 299 NATO ASI Series A, Life Sciences, Plenum Press 1998, pp121-146
9. Reichenbach A, Pálhalmi J, Bringmann A, Biedermann B, Francke M, Pannicke T, Paasche G, Germer A, Kuhrt H, Grosche J, Härtig W, Reichelt W, Juhász G, Skatchkov SN, Faude F: Interactions between neurons and glial cells in the retina. **Séminaires ophtalm d'IPSEN** 10 (1998) 37-54
10. Reichenbach A: Neuroglia – das andere zelluläre Element im Nervensystem: Die Müllersche Gliazelle. Socio-medico Verlag, Wessobrunn 1999, pp 1-217
11. Bringmann A, Faude F, Reichenbach A, Wiedemann P: Müller cells in retinal disease. In: Kriegelstein GK (ed): **Retinology today – in memoriam Klaus Heimann**. ad manum medici Verlag für Medizin und Naturwissenschaften, Germering 2000, pp 32-36
12. Reichenbach A, Wolburg H: Astrocytes and ependymal glia. In: Kettenmann H, Ransom BR (eds): **Neuroglial Cells**, second edition, Oxford University Press, 2004, pp.19-35
13. Bringmann A, Francke M, Reichenbach A: Müller cells in retinopathies. In: Hertz L (ed) **Non-Neuronal Cells in the Nervous System: Function and Dysfunction, part III: Pathological Conditions** (Bittar EE, series ed, Advances in Molecular and Cell Biology, 31-III) Elsevier, Amsterdam..., 2004, pp 1117-1132

14. Reichenbach A, Derouiche A, Grosche J, Hanani M: Structural associations of glia with the various compartments of neurons. In: Hatton GI, Parpura V (eds) **Glial Neuronal Signaling**. Kluwers Publ., 2004, pp 53-97
 15. Finlay B, de Lima Silveira CL, Reichenbach A: Comparative Aspects of Visual System Development. In: Kremers J (ed) **The Structure, Function and Evolution of the Primate Visual System**. John Wiley & Sons, 2005, pp 37-72
 16. Reichenbach A, Wolburg H: Structural association of astrocytes with neurons and vasculature / defining territorial boundaries. In: Parpura V, Haydon PG. (eds) **Astrocytes in (Patho-) Physiology of the Nervous System**. 2008, pp 245-280, Boston, MA: Springer
 17. Reichenbach A. **Die Wirbeltiernetzhaut – ein merkwürdiges Sinnesorgan**. Sitzungsberichte der Sächsischen Akademie der Wissenschaften 130 (6) 2008, pp 1-40.
 18. Wolburg H, Wolburg-Buchholz K, Mack A, Reichenbach A: Ependymal glia. In: Squire L et al. (eds) **The New Encyclopedia of Neuroscience**, Vol. 3, 2009, pp 1133-1140
 19. Bringmann A, Reichenbach A: Müller cells. In: Squire L et al. (eds) **The New Encyclopedia of Neuroscience**, Vol. 5, 2009, pp.1083-1093
 20. Verkhratsky A, Reichenbach A. Bergmann glia. In: Squire L et al. (eds) **The New Encyclopedia of Neuroscience**, Vol. 2, 2009, pp 161-171
 21. Franze K, Reichenbach A, Käs J. Biomechanics of the CNS. In: Kamkin A, Kiseleva I (eds.) **Mechanosensitivity in Cells and Tissues: Mechanosensitivity of the Nervous System** (Vol. 2). Springer 2009, pp 173-231.
 22. Bringmann A, Reichenbach A. Neuroglia in the Diabetic Retina. In: Hammes H-P, Porta M (eds.) **Experimental Approaches to Diabetic Retinopathy**. Karger, Basel..., 2010, pp. 79-97.
 23. Reichenbach A, Bringmann A. **Müller Cells in the Healthy and Diseased Retina**. Springer, New York... 2010, *in press*
-