

QUELLENVERZEICHNIS

- Alt C, Laschinger M, Engelhardt B „Functional expression of the lymphoid chemokines CCL19 (ELC) and CCL21(SLC) at the blood – brain barrier suggest their involvement in G – protein – dependent lymphocyte recruitment into the central nervous system during experimental autoimmune encephalitis“ European Journal of Immunology 2002, Vol.32(8): 2133 – 2144
- Alter A, Duddy M, Hebert S „Determination of human B cell migration across brain endothelial cells“ Journal of Neuroimmunology 2003; 170 (9): 4497 – 4505
- Arnett H. „TNF – α promotes proliferation of oligodendrocyte progenitors and remyelination“ Nature Neuroscience Nov. 2001, Vol. 4 (11): 1116 – 1122
- Asensio, VC, Campbell IL „Chemokines in the CNS: plurifunctional mediators in diverse states“ Trends in Neuroscience 1999, Vol.22: 504 – 512
- Bajetto A, Bonavia R „Characterization of chemokines and their Receptors in the central nervous system: physiopathological implications“ Journal of Neurochemistry 2002, Vol. 82, 1311 – 1329
- Bakhiet M, Tjernkud A; Mousa A et al. „RANTES promotes growth and survival of human first – trimester forebrain astrocytes“ Nature Cell Biology 2001 Vol. 3: 150 – 157
- Balashov KE „CCR5 + and CXCR3+ T- cells are increased in multiple sclerosis and their ligands MIP – 1alpha and IP – 10 are expressed in demyelinating brain lesions.“ Proc. Natl. Acad. Sci. USA 1999, Vol. 96 (12): 6873 – 6878
- Barnes DA, Huston M, Holmes R et al. „Induction of RANTES expression by astrocytes and astrocytoma cell lines“ Journal Neuroimmunology December 1996, Vol. 71: 207 – 214
- Biber K, Dijkstra I, Trebst C et al. „Functional expression of CXCR3 in cultured mouse and human astrocytes and microglia“ Neuroscience 2002, Vol.112: 487 – 497
- Blakemore WF „Pattern of remyelination in the CNS” Nature 1974 June, Vol.249: 577 – 78
- Blakemore WF, Keirstead HS „The origin of remyelinating cells in the central nervous system” Journal Neuroimmunology 1999, Vol.98 (1):69 – 76
- Bunge MB, Bunge RP „Ultrastructural study of remyelination in an experimental lesion in the adult cat spinal cord“ Journal Biophys. Biochem.Cytology 1961, Vol.10, 67 – 94

- Columba – Cabezas S, Serafini B, Ambrosini E „Lymphoid chemokines CCL19 and CCL21 are expressed in the central nervous system during experimental autoimmune encephalomyelitis: implications for the maintenance of chronic neuroinflammation“ *Brain Pathology* 2003, Vol. 13 (1):38 – 51
- Copelman CA, Cuzner ML, Groome N et al. „Temporal analysis of growth factor mRNA expression in myelinating rat brain aggregate cultures: increments in CNTF, FGF – 2, IGF – I and PDGF – AA are induced by antibody – mediated demyelination“ *Glia* 2000, Vol. 30 (4): 342 – 51
- De Groot „The role of chemokines and chemokine receptors in CNS inflammation“ *Progress in Brain Research* 2001, Vol.132: 533 –544
- Decker L, Avellana – Adalid V, Nait – Oumesmar B et al. „Oligodendrocyte precursor migration and Differentiation: Combined effects of PSA residues, growth factors and substrates“ *Molecular Cell Neuroscience* 2000, Vol.16 (4) : 422 – 39
- Diemel LT, Copelman CA, Cuzner ML „Macrophages in CNS remyelination : friend or foe?“ *Neurochem. Res.* 1998, Vol 23 (3) : 341 – 7
- Eugenin EA, Berman JW „Chemokine – dependent mechanisms of leukocyte trafficking across a model of the blood brain barrier“ *Methods* 2003, Vol.29: 351 – 361
- Filipovic R, Jakovceski I, Zevecic N „GRO – alpha and CXCR2 in the human fetal brain and multiple sclerosis lesions“ *Development Neuroscience* 2003, Vol. 25: 279 – 290
- Filipovic R, Rakic S, Zevecic N „Expression of Golli proteins in adult human brain and multiple sclerosis lesions“ *Journal Neuroimmunology* 2002, Vol. 127: 1 – 12
- Franklin R „What roles do growth factors play in CNS remyelination?“ *Progress in Brain Research* 2001, Vol 132, 185 – 193
- Franklin R „Why does remyelination fail in multiple sclerosis?“ *Nature Reviews/ Neuroscience* September 2002, Vol. 3: 705 – 714
- Frost EE „PDGF and FGF2 regulate oligodendrocyte progenitor responses to demyelination“ *Journal Neurobiology* 2003, Vol.54 (3): 457 – 72
- Giovanelli A, Limatola C, Ragozzino D et al. „CXC chemokines interleukin – 8 (IL – 8) and growth – related gene product alpha (GRO – α) modulate Purkinje neuron activity in mouse cerebellum“ *Journal Neuroimmunology* 1998 Vol.92: 122 – 132
- Glabinski AR, Bielecki B, Ransohoff RM „Chemokine upregulation follows cytokine expression in chronic relapsing experimental autoimmune encephalomyelitis“ *Scandinavian Journal of Immunology* 2003, Vol. 58: 81 – 88

- He W, Ingraham C „Multipotent stem cells from the mouse basal forebrain contribute GABAergic neurons and oligodendrocytes to the cerebral cortex during embryogenesis“ *Journal Neuroscience* November 2001, Vol. 21: 8854 – 62b
- Hortega PdR „Estudios sobre la neuroglia. La glia de escasas radiciones (oligodendroglia).“ *Boletín de la Real Sociedad Española de la Historia Natural* 1921, 63 – 92
- Hu S, Chao CC, Ehrlich LC et al. „Inhibition of microglial cell RANTES production by IL – 10 and TGF – beta“ *Journal Leukocyte Biology* June 1999, Vol. 65: 815 – 821
- Hughes PM, Botham MS, Frenzel S et al. „Expression of fractalkine (CX3CL1) and its receptor, CX3CR1, during acute and chronic inflammation in the rodent CNS“ *Glia* 2002, Vol. 37 (4): 314 – 327
- Kerschensteiner M, Stadelmann C, Dechant G et al. „Neurotropic cross – talk between nervous and immune systems: implications for neurological diseases“ *Ann Neurology* 2003, Vol.53: 292 – 304
- Kivisäkk P, Trebst C, Liu Z et al. „T – cells in the cerebrospinal fluid express a similar repertoire of inflammatory chemokine receptors in the absence or presence of CNS inflammation: implications for CNS trafficking.“ *Clin Exp. Immunology* 2002, Vol. 129 (3): 510 – 518
- Kotter MR, Setzu A, Fraser JS et al. „Macrophage depletion impairs oligodendrocytes remyelination following lysolecithin – induced demyelination“ *Glia* 2001, Vol.35: 204 –212
- Liu MT, Keirstead HS „Neutralization of the chemokine CXCL10 reduces inflammatory cell invasion and demyelination in a viral model of multiple sclerosis“ *Journal of Immunology* 2001, Vol.167: 4091 – 4097
- Louis JC „CG – 4, a bipotential glial cell line from rat brain, is capable of differentiating in vitro into either mature oligodendrocytes or type – 2 astrocytes“ *Journal of Neuroscience Res* 1992a, Vol.31, 193 – 204
- Louis JC „Autocin inhibition of mitotic activity in cultured oligodendrocyte – type – 2 astrocyte (O-2A) precursor cells“ *Glia* 1992b, Vol.6: 30 – 38
- Mason JL, Suzuki K, Chaplin DD et al. „Interleukin – 1 β promotes repair of the CNS“ *Journal Neuroscience* 2001, Vol.21: 7046 – 7052
- McManus C, Berman JW, Brett FM et al. „MCP – 1, MCP – 2 and MCP – 3 expression in multiple sclerosis lesions : an immunohistochemical and in situ hybridization study“ *Journal of Neuroimmunology* June 1998, Vol.86: 20 – 29

- McMorris FA, Mozill RL, Carson MJ et al. „Regulation of oligodendrocyte development and central nervous system myelination by insulin – like growth factors“ *Ann NY Acad Sci* Vol.692:321 – 334
- Meucci O „Expression of CX3CR1 chemokine receptors on neurons and their role in neuronal survival“ *PNAS* July 2000, Vol. 97: 8057 – 8080
- Miller RH „Regulation of oligodendrocyte development in the vertebrate CNS“ *Progress in Neurobiology* 2002, Vol.67: 451 – 467
- Milner R, Edwards G, Streuli C et al. „A role in migration for the alpha V beta integrin expressed on oligodendrocyte precursors“ *Journal Neuroscience* 1996, Vol 16 (22): 7240 – 52
- Minagar A, Toledo EG, Alexander JS et al. „Pathogenesis of brain and spinal cord atrophy in multiple sclerosis“ *Journal Neuroimaging* 2004, Vol.14: 5 – 10
- Miyamoto Y, Kim SU „Cytokine – induced production of macrophage inflammatory protein – 1alpha (MIP – 1alpha) in cultured human astrocytes“ *Journal Neuroscience Res.* Januar 1999, Vol. 55, 245 – 251
- Mizuno T, Kawanokuchi J, Numata K et al. „Productin and neuroprotective functions of fractalkine in the central nervous system“ *Brain Research* 2003, Vol.979: 65 – 70
- Murphy PM, Bagglioni M, Israel FC et al. „International Union of Pharmacology. XXII. Nomenclature for Chemokine Receptors“ *Pharmacological Reviews* 1997, Vol.52 (1): 145 – 175
- Murphy PM „International Union of pharmacology.XXX. Update on chemokine receptor nomenclature“ *Pharm. Rev.* 2002, Vol. 54: 227 – 229
- Nguyen D, Hopfner M, Zobel F et al. „Rat oligodendroglial cell lines express a functional receptor for the chemokine CCL3 (Macrophage inflammatory protein – 1 alpha)“ *Neuroscience Lett.* 2003 Vol.351(2): 71 – 74
- Nguyen D, Stangel M „Expression of the chemokine receptors CXCR1 and CXCR2 in rat oligodendroglial cells“ *Development Brain Research* 2001, Vol.128: 77 – 81
- Oksenberg JR, Baranzini SE, Barcellos L et al. „Multiple sclerosis: Genomic rewards“ *Journal of Neuroimmunology* 2001, Vol. 113: 171 – 184
- Ono K, Bansal R, Payne J et al. „Early development and dispersal of oligodendrocyte precursors in the embryonal chick spinal cord“ *Development* June 1995, Vol.121: 1743 – 54
- Peters A, Palay, SL, Webster H de F „The Fine Structure of the Nervous System: The Cells and Their Processes“ New York: Oxford University Press, 1991.

- Peterson PK, Hu S, Salak – Johnson J et al. „Differential production of migratory response to beta chemokines by human microglia and astrocytes“
Journal Infect Dis. Februar 1997, Vol. 175: 478 – 481
- Pringle N, Yu WP, Collarini EJ et al. „Origins and early development of oligodendrocyte precursor cells“ Molecular sign. and regulation in Glial cells, Springer Verlag Heidelberg 1997: 3 – 9
- Pringle NP, Mudhar HS, Collarini EJ et al. „PDGF receptors in the rat CNS : during late neurogenesis, PDGF alpha – receptor expression appears to be restricted to glial cells of the oligodendrocyte lineage“ Development June 1992, Vol. 115: 535 – 551
- Puma C, Danik M, Quirion R et al. „The chemokine interleukin 8 acutely reduces Ca (2+) currents in identified cholinergic septal neurons expressing CXCR1 and CXCR2 receptor mRNAs“ Journal Neurochem. 2001 Vol.78 (5): 960 - 971
- Rao MS, Mayer- Proschel M „Glial – restricted precursors are derived from multipotent neuroepithelial stem cells“ Development Biology August 1997, Vol. 188: 48 – 63
- Robertson WF „On a new method of obtaining a black reaction in certain tissue elements of the central nervous system“ Scott. Med. Surg. 1899, J.4: 23 – 30
- Robinson S, Franic LA „Chemokine GRO1 and the spatial and temporal regulation of oligodendrocyte precursor proliferation“ Development Neuroscience. 2001, Vol. 23 (4-5): 338 – 345
- Robinson S, Tani M, Strieter RM et al. „The chemokine growth – regulated oncogene α promotes spinal cord oligodendrocyte precursor proliferation“ J Neuroscience December 1998, Vol. 18: 10457 – 10463
- Rossi D, Zlotnik A „The biology of chemokines and their receptors“
Annu. Rev. Immun. 2000, Vol.18: 217 – 242
- Ruffini F, Kennedy TE, Antel JP „Inflammation and remyelination in the central nervous system“ American Journal of Pathology 2004, Vol. 164: 1519 – 1522
- Scolding N, Franklin R, Stevens S et al. „Oligodendrocyte progenitors are present in the normal adult human CNS and in the lesions of multiple sclerosis“ Brain 1998, Vol. 121: 2221 – 2228
- Simpson JE, Newcombe J, Cuzner ML, Male D, Woodroffe MN „Expression of the interferon – gamma – inducible chemokines IP – 10 and Mig and their receptor CXCR3, in multiple sclerosis lesions“ Neuropathology appl. Neurobiology 2000, Vol.26: 133 – 142

- Simpson JE, Newcombe J, Cuzner Mlet al. „Expression of monocyte chemoattractant protein – 1 and other beta – chemokines by resident glia and inflammatory cells in multiple sclerosis lesions“ *Journal Neuroimmunology* 1998, Vol. 84: 238 – 249
- Steinman L „The pathogenesis of multiple sclerosis consists of an inflammatory and neurodegenerative phase. Better understanding of these stages has aided the development of specific therapeutic targets.“ *Nature Immunology* 2001, Vol.2 (9):762 – 764
- Szuchet S „The morphology and ultrastructure of oligodendrocytes and their functional implications” *Neuroglia* 1995, edited by H Kettenmann, BR Ransom, Oxford University Press: 23- 41
- Tourbah A „Inflammation promotes survival and migration of the CG4 oligodendrocytes progenitors“ *Journal of Neuroscience Research* 1997, Vol. 50: 853-861
- Tsai HH, Frost E, To V et al. „The chemokine receptor CXCR2 controls positioning of oligodendrocyte precursors in developing spinal cord by arresting their migration“ *Cell* August 2002, Vol.110: 373 – 383
- Vaddi K, Newton RC, Keller M „The Chemokine Facts Book“ (1997) Academic Press
- Westmoreland SV, Rottman JB „Chemokine receptor expression on resident and inflammatory cells in the brain of macaques with simian immunodeficiency virus encephalitis“ *Am J Pathol* 1998, Vol.152: 659 – 665
- Wilkins A, Mayed H, Layfield R et al. „Oligodendrocytes promote neuronal survival and axonal length by distinct intracellular mechanisms: a novel role for oligodendrocyte – derived glial cell line – derived neurotrophic factor“ *J Neurosci* 2003, Vol. 23: 4967 – 4974
- Wolswijk G, Noble M „Identification of an adult – specific glial progenitor cell“ *Development* 1989, Vol. 105, 387 – 400
- Wu Q, Miller RH, Ransohoff RM et al. „Elevated levels of the chemokine GRO – 1 correlated with elevated oligodendrocyte progenitor proliferation in the jimpy mutant” *Journal Neuroscience* April 2001, Vol. 20: 2609 – 2617
- Zlotnik A., Yoshie O „Chemokines: A new classification and their role in immunity“ *Immunity* 2000, Vol. 12: 121- 127
- Zou Y, Kottmen A, Kuroda M et al. „Function of the chemokine receptor CXCR4 in cerebellar development“ *Nature* 1998, Vol. 393: 595 – 599