

## Verzeichnis der Originalarbeiten / V. Gieselmann

1. K. Ullrich, R. Basner, **V. Gieselmann** und K. von Figura:  
Recognition of human urine  $\alpha$ -N-acetylglucosaminidase by rat hepatocytes. Involvement of receptors specific for galactose, mannose-6-phosphate and mannose.  
Biochem. J. 180, 413-419 (1979)
2. K. Ullrich, **V. Gieselmann**, G. Mersmann und K. von Figura:  
Endocytosis of lysosomal enzymes by non-parenchymal rat liver cells. Comparative study of lysosomal enzyme uptake by hepatocytes and non-parenchymal rat liver cells.  
Biochem. J. 182, 329-335 (1979)
3. B. Voss, S. Allam, J. Rauterberg, K. Ullrich, **V. Gieselmann** und K. von Figura:  
Primary cultures of rat hepatocytes synthesize fibronectin.  
Biochem. Biophys. Res. Comm. 90, 1348-1354 (1979)
4. **V. Gieselmann**, R. Pohlmann, A. Hasilik und K. von Figura:  
Biosynthesis and transport of cathepsin D in cultured human fibroblasts.  
J. Cell. Biol. 97, 1-4 (1983)
5. F. Steckel, **V. Gieselmann**, A. Waheed, A. Hasilik, K. von Figura, R. Oude Elferink R. Kalsbeek und J.M. Tager:  
Biosynthesis of acid  $\alpha$ -glucosidase in late onset forms of glycogenosis type II (Pompe's Disease).  
FEBS letters 150, 69-76 (1982)
6. K. von Figura, **V. Gieselmann** und A. Hasilik:  
Antibodies to mannose-6-phosphate specific receptors induce receptor deficiency in human fibroblasts.  
EMBO J. 3, 1281-1286 (1984)
7. **V. Gieselmann**, A. Hasilik, und K. von Figura:  
Tartrate inhibitable acid phosphatase: Purification from placenta, characterization and subcellular distribution in fibroblasts.  
Hoppe-Seyler's Z. Physiol. Chem. 365, 651-660 (1984)
8. P. Lemansky, **V. Gieselmann**, A. Hasilik und K. von Figura:  
Cathepsin D and  $\beta$ -hexosaminidase synthesized in the presence of 1-deoxynojirimycin accumulate in the endoplasmic reticulum.  
J. Biol. Chem. 259, 10129-10135 (1984)
9. D. K. Gupta, **V. Gieselmann**, A. Hasilik und K. von Figura:  
Tilorone acts as a lysosomotropic agent in fibroblasts.  
Hoppe-Seyler's Z. Physiol. Chem. 365 (8), 859-866 (1984)

10. A. Waheed, **V. Gieselmann**, K. von Figura und R. L. van Etten:  
Immunological characterization of the human acid phosphatase gene products.  
Biochem. Genet. 23, 309-319 (1985)
11. P. Lemansky, **V. Gieselmann**, A. Hasilik, K. von Figura:  
Synthesis and transport of lysosomal acid phosphatase in normal and I-cell fibroblasts.  
J. Biol. Chem. 260, 9023-9030, (1985)
12. K. von Figura, **V. Gieselmann**, A. Hasilik:  
Mannose-6-phosphate specific receptor is a transmembrane protein with a C terminal extension oriented towards the cytosol.  
Biochem. J. 225, 543-547 (1985)
13. **V. Gieselmann**, A. Hasilik, und K. von Figura:  
Processing of human cathepsin D in lysosomes in vitro.  
J. Biol. Chem. 2260, 3215-3220 (1985)
- 13a. **V. Gieselmann**, P. Lemansky, A. Hasilil, K. von Figura, A. Waheed, R.L. van Etten  
Human tartrate-inhibitable lysosomal acid phosphatase. Purification, characterization, biosynthesis and intracellular transport.  
Acta Biochim Pol. 33, 119-26 (1986)
14. F. Hochstenbach, C. Parker, J. McLean, **V. Gieselmann**, H. Band, I. Bank, L. Chess, H. Spits, J. L. Strominger, J. G. Seidman, M.B. Brenner:  
Characterization of a third form of the human T-cell receptor  $\gamma/\delta$ .  
J. Exp. Med. 168, 761-776 (1988)
15. C. Stein, **V. Gieselmann**, J. Kreysing, B. Schmidt, R. Pohlmann, A. Waheed, H. E Meyer, J.S. o'Brien, K. von Figura:  
Cloning and expression of human arylsulfatase A.  
J. Biol. Chem. 264, 1252-1259 (1989)
16. **V. Gieselmann**, J. Kreysing, A. Polten, K. von Figura  
Arylsulfatase A pseudodeficiency: Loss of a polyadenylation signal and a N-glycosylation site.  
Proc. Natl. Acad. Sci. U.S.A. 86, 9436-9440, (1989)
- 16a. **V. Gieselmann**, K. von Figura  
Advances in the molecular genetics of metachromatic leukodystrophy.  
J Inherit Metab Dis. 13(4), 560-571 (1990)
- 16b. J. Kappler, **V. Gieselmann**, P. Propping  
Hexosaminidase--pseudodeficiency?  
Am J Hum Genet. 47(5), 880-2 (1990)
17. J. Kreysing, K. von Figura, **V. Gieselmann**:  
The structure of the arylsulfatase A gene.  
Eur. J. Biochem. 191, 627-631 (1991)

18. **V. Gieselmann:**

An assay for the rapid detection of the arylsulfatase A pseudodeficiency allele facilitates the diagnosis and genetic counselling for metachromatic leukodystrophy. Hum. Genet. 86, 251-255 (1991)

19. A. Polten, A. L. Fluharty, C. B. Fluharty, J. Kappler, K. von Figura, **V. Gieselmann:**

Molecular basis of different forms of metachromatic leukodystrophy. New Engl. J. Med. 324, 18-22 (1991)

20. J. Kappler, R. W. E. Watts, E. Conzelmann, D. A. Gibbs, P. Propping,

**V. Gieselmann:**

Low arylsulfatase A activity and choreoathetotic syndrome in three siblings: Differentiation of pseudodeficiency from metachromatic leukodystrophy. Eur. J. Pediat. 150, 287-290 (1991)

21. A. Polten, **V. Gieselmann:**

A Bam HI RFLP in the human arylsulfatase A gene. Nucl. Acid. Res. 18, 6746 (1991)

22. W. Bohne, K. von Figura, **V. Gieselmann:**

A 11bp deletion in the arylsulfatase A gene of a patient with late infantile metachromatic leukodystrophy. Hum. Genet. 87, 155-158 (1991)

23. **V. Gieselmann**, A.L. Fluharty, T. Tonnesen, K. von Figura:

Mutations in the arylsulfatase A pseudodeficiency allele causing metachromatic leukodystrophy. Am. J. Hum. Genet. 49, 407-413 (1991)

24. A.L. Fluharty, C.B. Fluharty, K. von Figura, **V. Gieselmann:**

Two new arylsulfatase A mutations in a juvenile metachromatic leukodystrophy patient. Am. J. Hum. Genet. 49, 1340-1350 (1991)

25. W. Rommerskirch, A. L. Fluharty, C. Peters, K. von Figura, **V. Gieselmann:**

Restoration of arylsulfatase A activity in human metachromatic leukodystrophy fibroblasts via retroviral vector mediated gene transfer. Biochem. J., 280, 459-461 (1991)

25a. J. Kappler, W. Pötter; **V. Gieselmann**, W. Kiessling, W. Friedl, P. Propping

Phenotypic consequences of low arylsulfatase A genotypes (ASAp/ASAp and ASA-/ASAp): does there exist an association with multiple sclerosis? Dev Neurosci. 13(4-5), 228-31 (1991)

25b. **V. Gieselmann**, A. Polten, J. Kreysing, J.- Kappler, A. Fluharty, K. von Figura

Molecular genetics of metachromatic leukodystrophy. Dev Neurosci. 13(4-5), 222-7 (1991)

26. J. Kappler, K. von Figura, **V. Gieselmann:**

Late onset metachromatic leukodystrophy: molecular pathology in two siblings.

Ann. Neurol. 31, 256-261 (1992)

27. **V. Gieselmann**, B. Schmidt, K. von Figura:  
In vitro mutagenesis of potential glycosylation sites of arylsulfatase A: Effects on glycosylation, phosphorylation and intracellular sorting.  
J. Biol. Chem. 267, 13262-13266 (1992)
28. N. Tommerup, M. Warburg, **V. Gieselmann**, B.R. Hansen, J. Koch, G.B. Petersen:  
Ring chromosome 22 and neurofibromatosis.  
Clin. Genet. 42, 171-177 (1992)
29. J. Penzien, J. Kappler, N. Herschkowitz, P. Propping, B. Schuknecht, H. Moser, T. Tonnessen, D. Wenger, **V. Gieselmann**:  
Compound heterozygosity for arylsulfatase A alleles causing pseudodeficiency and metachromatic leukodystrophy has no apparent clinical consequences.  
Am. J. Hum. Genet. 52, 557-564 (1993)
30. J. Kreysing, W. Bohne, N. Baumann, S. Marchesini, J. Turpin, K. von Figura, **V. Gieselmann**:  
High residual enzyme activity in a patient with late infantile metachromatic leukodystrophy.  
Am. J. Hum. Genet. 53, 339-346 (1993)
31. J. Berger, B. Molzer, **V. Gieselmann**, H. Bernheimer:  
Simultaneous detection of the two most frequent metachromatic leukodystrophy mutations.  
Hum. Genet. 92, 421-423 (1993)
32. H. Sommerlade, K. von Figura, **V. Gieselmann**:  
Four monoclonal antibodies inhibit the recognition of arylsulfatase A by the lysosomal enzyme phosphotransferase.  
Biochem. J. 297, 123-130 (1994)
33. J. Kreysing, A. Polten, F. Steiner, K. von Figura, K. Menz, B. Hess, **V. Gieselmann**:  
Structure of the mouse arylsulfatase A gene and cDNA.  
Genomics 19, 249-256 (1994)
34. J. Kreysing, A. Polten, G. Lukatela, U. Matzner, K. von Figura, **V. Gieselmann**:  
Translational Control of arylsulfatase A expression in mouse testis.  
J. Biol. Chem. 269, 23255-23261 (1994)
35. J. Kappler, H. Sommerlade, K. von Figura, **V. Gieselmann**:  
Complex alleles of arylsulfatase A causing metachromatic leukodystrophy.  
Hum. Mutation 4, 119-127 (1994)
36. J. Zlotogora, Y. Furman Shaharabani, S. Goldfum, B. Winchester, K. von Figura, **V. Gieselmann**:  
Arylsulfatase A pseudodeficiency: a common polymorphism which is associated with a unique haplotype.

- Am. J. Med. Genet. 15, 146-150 (1994)
37. J. Zlotogora, Y. Furman-Shaharabani, A. Harris, M.L. Barth, K. von Figura, **V. Gieselmann**:  
A single origin for the most frequent mutation causing late infantile metachromatic leukodystrophy.  
J. Med. Genet. 31, 672-674 (1994)
38. J. Zlotogora, **V. Gieselmann**, K. von Figura, M. Zeigler, G. Bach:  
Late infantile metachromatic leukodystrophy in Israel.  
Biomed. Pharmacother. 48, 347-350 (1994)
- 38a. **V. Gieselmann**, A. Polten, J. Kreysing, K. von Figura  
Molecular genetics of metachromatic leukodystrophy.  
J Inherit Metab Dis. 17(4),500-9 (1994)
- 38b. **V. Gieselmann**, J. Zlotogora, A. Harris, D.A. Wenger, C.P. Morris  
Molecular genetics of metachromatic leukodystrophy.  
Hum Mutat. 4(4), 233-42 (1994)
- 38c. J.M. Penziem, N. Herschkowitz, **V. Gieselmann**  
Adult form of metachromatic leukodystrophy with predominantly psychotic manifestations  
Nervenarzt. 65(1), 73 (1994)
- 38d. **V. Gieselmann**, J. Kreysing, K. von Figura  
Genetics of metachromatic leukodystrophy.  
Gene Ther. Suppl 1, S87 (1994)
- 38e. H.J. Sommerlade, T. Selmer, A. Ingendoh, **V. Gieselmann**, K. von Figura, K. Neifer, B. Schmidt  
Glycosylation and phosphorylation of arylsulfatase A.  
J Biol Chem. 269, 20977-20981 (1994)
39. J. Zlotogora, K. von Figura, **V. Gieselmann**:  
A mutation in the arylsulfatase A gene causing metachromatic leukodystrophy in the Habbanite Jews.  
Hum. Mutation 5, 137-143 (1995)
40. S. Kafert, U. Heinisch, J. Zlotogora, **V. Gieselmann**:  
A missense mutation Pro136>Leu substitution in the arylsulfatase A causes instability and loss of activity of the mutant enzyme.  
Hum. Genet. 95, 201-204 (1995)
41. U. Heinisch, J. Zlotogora, S. Kafert, **V. Gieselmann**:  
Multiple mutations are responsible for the high frequency of metachromatic leukodystrophy in a small geographic area.  
Am. J. Hum. Genet. 56, 51-57 (1995)

- 41a. J. Zlotogora, G. Bach, C. Bösenberg, Y. Barak, K. von Figura, **V. Gieselmann**  
Molecular basis of late infantile metachromatic leukodystrophy in the Habbanite Jews.  
Hum Mutat. 5(2), 137-43 (1995)
- 41b. **V. Gieselmann**  
Lysosomal storage diseases.  
Biochim Biophys Acta. 1270(2-3), 103-36 (1995)
42. B. Hess, S. Kafert, U. Heinisch, D.A. Wenger, J. Zlotogora, **V. Gieselmann**:  
Characterization of two arylsulfatase A missense mutations Asp335>Val and Thr274>Met  
causing late infantile metachromatic leukodystrophy.  
Hum. Mutation, 7, 311-317 (1996)
43. B. Hess, P. Saftig, D. Hartmann, R. Coenen, R. Lüllmann-Rauch, H. Goebel, M. Evers, K.  
von Figura, R. D'Hooge, G. Nagels, P. DeDeyn, C. Peters, **V. Gieselmann**:  
Phenotype of arylsulfatase A deficient mice: relationship to human metachromatic  
leukodystrophy.  
Proc. Natl. Acad. Sci, U.S.A, 93, 14821-14826 (1996)
44. R. Learish, T. Ohashi, P.A. Robbins, A. Bahnson, S.S. Boggs, K. Patrene,  
B.E. Schwartz, **V. Gieselmann**, J. Barranger:  
Retroviral gene transfer and sustained expression of human arylsulfatase A.  
Gene Ther. 3, 343-349 (1996)
- 44a. J. Zlotogora, **V. Gieselmann**, G. Bach  
Multiple mutations in a specific gene in a small geographic area: a common phenomenon?  
Am J Hum Genet. 58(1), 241-3 (1996)
45. J.L. Brault, **V. Gieselmann**, A. Carpentier, M. Lefevre, J.C. Turpin, N. Baumann:  
Two familial cases of metachromatic leukodystrophy of late onset.  
Rev. Neurol. 153, 193-196 (1997)
46. J. Berger, B. Loschl, H. Bernheimer, A. Lugowska, A. Tyliki-Szymanska,  
**V. Gieselmann**, B. Molzer:  
Occurrence, distribution and phenotype of arylsulfatase A mutations in patients with  
metachromatic leukodystrophy.  
Am. J. Med. Genet. 69, 335-340 (1997)
47. G. Lukatela, N. Krauß, K. Theis, T. Selmer, **V. Gieselmann**, K. von Figura,  
W. Saenger:  
Crystal structure of Human Arylsulfatase A: Aldehyde function and metal ion at the active  
site suggest a novel mechanism for sulfate ester hydrolysis.  
Biochemistry, 37, 3654-3664 (1998)
48. P. Schluff, B. Flott Rahmel, **V. Gieselmann**, P. Zimmer, A. Das, K. Ullrich:  
Localization of receptors for endocytosis of lysosomal enzymes on different brain cells.  
J. Inher. Met. Dis. 21, 313-317 (1998)
- 48a. **V. Gieselmann**, U. Matzner, B. Hess, R. Lüllmann-Rauch, D. Hartmann, R. D'Hooge,  
P. DeDeyn, G. Nagels

- Metachromatic leukodystrophy: molecular genetics and an animal model.  
J Inherit Metab Dis. 21(5), 564-74 (1998)
49. A. Schierau, F. Dietz, H. Lange, F. Schestag, A. Parastar, **V. Gieselmann**:  
Interaction of arylsulfatase A with UDP-N-acetylglucosamine: lysosomal enzyme N-acetylglucosamine-1-phosphotransferase.  
J. Biol. Chem. 274, 3651-3658 (1999)
50. R. D'Hooge, R. Coenen, **V. Gieselmann**, R. Lüllman Rauch, P. P. DeDeyn:  
Decline in Brain stem auditory evoked potentials coincides with loss of spiral ganglion cells in arylsulfatase deficient mice.  
Brain Res. 847, 352-356 P.P.(1999)
51. R. D'Hooge, D. Hartmann, J. Manil, F. Colin, **V. Gieselmann**, P.P. DeDeyn:  
Neuromotor alterations and cerebellar deficits in aged arylsulfatase A deficient mice.  
Neurosci. Lett. 273, 93-95 (1999)
52. S. Herrmann, F. Schestag, A. Polten, S. Kafert, J. Penzien, J. Zlotogora, N. Baumann, **V. Gieselmann**:  
Characterization of four arylsulfatase A missense mutations G86D, Y201C, D255H, and E312D causing metachromatic leukodystrophy.  
Am. J. Med. Genet. 91, 68-73 (2000) I.F. 3,66
53. U. Matzner, K. Harzer, R.D. Learish, J. A. Barranger, **V. Gieselmann**:  
Long-term expression and transfer of arylsulfatase A into brain of arylsulfatase A-deficient mice transplanted with bone marrow expressing the arylsulfatase A cDNA from a retroviral vector.  
Gene Ther. 14, 1250-1257 (2000) I.F. 4,97
54. L. Xiangrong, C. Johnk, D. Hartmann, F. Schestag, W. Kromer, **V. Gieselmann**:  
Enzymatic properties, tissue-specific expression, and lysosomal location of two highly homologous rat SULT1C2 sulfotransferases.  
Biochem Biophys Res Commun. 272, 242-250 (2000) I.F. 2,90
55. U. Matzner, M. Habetha, **V. Gieselmann**:  
Retrovirally expressed human arylsulfatase A corrects the metabolic defect of arylsulfatase A-deficient mouse cells.  
Gene Ther. 7, 805-812 (2000) I.F. 4,97
56. R. Lullmann-Rauch, U. Matzner, S. Franken, D. Hartmann, **V. Gieselmann**:  
Lysosomal sulfoglycolipid storage in the kidneys of mice deficient for arylsulfatase A (ASA) and of double-knockout mice deficient for ASA and galactosylceramide synthase.  
Histochem Cell Biol. 116, 161-169 (2001) I.F. 2,594
57. I. Schott, D. Hartmann, **V. Gieselmann**, R. Lullmann-Rauch:  
Sulfatide storage in visceral organs of arylsulfatase A-deficient mice.  
Virchows Arch. 439, 90-96 (2001)
58. R. Coenen, **V. Gieselmann**, R. Lullmann-Rauch:  
Morphological alterations in the inner ear of the arylsulfatase A-deficient mouse.  
Acta Neuropathol (Berl) 101, 491-498 (2001) I.F. 2,503

59. R. D'Hooge, D. Van Dam, F. Franck, **V. Gieselmann**, P.P. De Deyn:  
Hyperactivity, neuromotor defects, and impaired learning and memory in a mouse model for metachromatic leukodystrophy.  
Brain Res. 907, 35-43 (2001) I.F. 2,389
60. U. Matzner, F. Schestag, D. Hartmann, R. Lullmann-Rauch, R. D'Hooge, P.P. De Deyn, **V. Gieselmann**:  
Bone marrow stem cell gene therapy of arylsulfatase A-deficient mice, using an arylsulfatase A mutant that is hypersecreted from retrovirally transduced donor-type cells.  
Hum Gene Ther. 12, 1021-1033 (2001) I.F. 4,857
61. U. Matzner, D. Hartmann, R. Lullmann-Rauch, R. Coenen, F. Rothert, J.E. Mansson, P. Fredman, R. D'Hooge, P.P. De Deyn, **V. Gieselmann**:  
Bone marrow stem cell-based gene transfer in a mouse model for metachromatic leukodystrophy: effects on visceral and nervous system disease manifestations.  
Gene Ther. 9, 53-63 (2002) I.F. 4,97
62. R. Sandhoff, S.T. Hepbildikler, R. Jennemann, R. Geyer, **V. Gieselmann**, R.L. Proia, H. Wiegandt, H.J. Grone:  
Kidney sulfatides in mouse models of inherited glycosphingolipid disorders - determination by Nano-electrospray Ionization tandem mass spectrometry.  
J. Biol Chem. 277, 20386-20398 (2002) I.F. 6,35
63. J. Kappler, S.L. Baader, S. Franken, P. Pesheva, K. Schilling, U. Rauch, **V. Gieselmann**:  
Tenascins are associated with lipid rafts isolated from mouse brain.  
Biochem Biophys Res Commun. 294, 742-747 (2002) I.F. 2,90
64. F. Dietz, S. Franken, K. Yoshida, H. Nakamura, J. Kappler, **V. Gieselmann**:  
The family of hepatoma-derived growth factor proteins: characterization of a new member HRP-4 and classification of its subfamilies.  
Biochem J. 366, 491-500 (2002) I.F. 4,27
65. N. Muschol, U. Matzner, S. Tiede, **V. Gieselmann**, K. Ullrich, T. Bräulke:  
Secretion of phosphomannosyl-deficient arylsulphatase A and cathepsin D from isolated human macrophages.  
Biochem J. 368, 845-853 (2002) I.F. 4,27
66. M. Eckhardt, S.N. Fewou, Y. Ackermann, **V. Gieselmann**:  
N-glycosylation is required for full enzymatic activity of the murine galactocerebroside sulfotransferase.  
Biochem J. 367, 317-324 (2002) I.F. 4,27
67. F. Schestag, A. Yaghootfam, M. Habetha, P. Poeppel, R. Dietz, R.A. Klein, J. Zlotogora, **V. Gieselmann**:  
The functional consequences of missense mutations affecting an intramolecular salt bridge in arylsulphatase A.  
Biochem. J. 366, 1-6 (2002) I.F. 4,27



68. S. Franken, U. Junghans, V. Rosslenbroich, S.L. Baader, R. Hoffmann, **V. Gieselmann**, C. Viebahn, J. Kappler:  
Collapsin response mediator proteins of neonatal rat brain interact with chondroitin sulfate.  
J. Biol. Chem. 278, 3241-3250 (2002) I.F. 6,35
69. A. Yaghootfam, **V. Gieselmann**:  
Specific hammerhead ribozymes reduce synthesis of cation-independent mannose 6-phosphate receptor mRNA and protein.  
Gene Therapy, 10, 1567-1574 (2002) I.F. 4,97
70. A. Yaghootfam, F. Schestag, T. Dierks, **V. Gieselmann**:  
Recognition of arylsulfatase A and B by the UDP-N-acetylglucosamine:lysosomal enzyme-N-acetyl-glucosamine-phosphotransferase.  
J. Biol. Chem. 278, 32653-32661 (2003) I.F. 6,35
71. A. Marcao, H. Simonis, F. Schestag, M.C. Sa Miranda, **V. Gieselmann**:  
Biochemical characterization of two (C300F, P425T) arylsulfatase A missense mutations.  
Am. J. Med. Genet. 116A, 238-242 (2003) I.F. 3,66
72. V. Rosslenbroich, L. Dai, S. Franken, M. Gehrke, U. Junghans, **V. Gieselmann**, J. Kappler:  
Subcellular localization of collapsin response mediator proteins to lipid rafts.  
Biochem. and Biophys. Research Communications 305, 392-399 (2003) I.F. 2,90
73. A. Marcao, J. E. Azevedo, **V. Gieselmann**, M.C. Sá Miranda:  
Oligomerization capacity of two arylsulfatase A mutants: C300F and P425T.  
Biochem. and Biophys. Research Communications 306, 293-297 (2003) I.F. 2,90
74. **V. Gieselmann**, U. Matzner, D. Klein, J.E. Mansson, R. D'Hooge, P.D. DeDeyn, R. Lüllmann Rauch, D. Hartmann, K. Harzer:  
Gene therapy: prospects for glycolipid storage disease.  
Phil. Trans. R. Soc. Lond. 358, 921-925 (2003)
75. **V. Gieselmann**:  
Metachromatic Leukodystrophy: Recent Research Developments.  
J. Child Neurology 18 (9), 591-594 (2003) I.F. 1,33
76. **V. Gieselmann**, S. Franken, D. Klein, JE Mansson, R. Sandhoff, R. Lüllmann Rauch, D. Hartmann, VPM Saravanan, PP De Deyn, R. D'Hooge, AM Van Der Linden, N. Schaeren-Wiemers:  
Metachromatic leukodystrophy: consequences of sulphatide accumulation.  
Acta Paediatr Suppl 443, 74-79 (2003)
77. A. Yaghootfam, **V. Gieselmann**:  
Specific hammerhead ribozymes reduce synthesis of cation-independent mannose 6-phosphate receptor mRNA and protein.  
Gene Ther. 10, 1567-1574 (2003)

78. K. Saravanan, N. Schaeren-Wiemers, D. Klein, R. Sandhoff, A. Schwarz, A. Yaghoofam, **V. Gieselmann**, S. Franken:  
Specific downregulation and mistargeting of the lipid raft-associated protein MAL in a glycolipid storage disorder.  
*Neurobiology of Disease* 16, 396-406 (2004) I.F. 4,38
79. M. M. Abouzied, S. L. Baader, F. Dietz, J. Kappler, **V. Gieselmann**, S. Franken:  
Expression patterns and different subcellular localization of the growth factors HDGF (hepatoma-derived growth factor) and HRP-3 (HDGF-related protein-3) suggest functions in addition to their mitogenic activity.  
*Biochem. J.* 378, 169-176 (2004) I.F. 4,27
80. M. Molander-Melin, Z. Pernber, S. Franken, **V. Gieselmann**, J.-E. Mansson, P. Fredman:  
Accumulation of sulfatide in neuronal and glial cells of arylsulfatase A deficient mice.  
*Journal of Neurocytology* 33, 417-427 (2004) I.F. 1,67
81. L. Berna, **V. Gieselmann**, H. Poupetova, M. Hrebicek, M. Elleder, J. Ledvinova:  
Novel mutations associated with metachromatic leukodystrophy: phenotype and expression studies in nine Czech and Slovak patients.  
*Am J Med Genet A.* 129, 277-281 (2004) I.F. 3,66
82. D. Wittke, D. Hartmann, **V. Gieselmann**, R. Lullmann-Rauch:  
Lysosomal sulfatide storage in the brain of arylsulfatase A-deficient mice: cellular alterations and topographic distribution.  
*Acta Neuropathol (Berl).* 108, 261-271 (2004) I.F. 2,50
83. A. Yaghoofam, N. Baumann, A. Schwarz, **V. Gieselmann**:  
Three novel mutant arylsulfatase A alleles causing metachromatic leukodystrophy.  
*Neurochem Res.* 29, 933-942 (2004) I.F. 2,21
84. D. Klein, H. Büssow, S. Ngamli Fewou, **V. Gieselmann**:  
Exocytosis of storage material in a lysosomal disorder.  
*Biochemical and Biophysical Res Commun.* 327, 663-667 (2005) I.F. 2,90
85. U. Matzner, **V. Gieselmann**:  
Gene therapy of metachromatic leukodystrophy.  
*Expert Opin. Biol. Ther.* 5, 55-65 (2005) I.F. 2,44
86. P. Poepfel, M. Habetha, A. Marcao, H. Büssow, L. Berna, **V. Gieselmann**:  
Missense mutations as a cause of metachromatic leukodystrophy. Degradation of arylsulfatase A in the endoplasmic reticulum.  
*FEBS Journal* 272, 1179-1188 (2005) I.F. 3,84
87. A. Marcao, R. Wiest, K. Schindler, U. Wiesmann, G. Schroth, C. Sa Miranda, Polten, M. Sturzenegger, **V. Gieselmann**:  
Adult onset metachromatic leucodystrophy without electronical peripheral nervous system involvement: a new mutation in the ARSA gene.  
*Arch Neurol.* 62, 309-313 (2005) I.F. 4,85

88. S. N. Fewou, H. Bussow, N. Schaeren-Wiemers, M. T. Vanier, W. B. Macklin, **V. Gieselmann**, M. Eckhardt:  
Reversal of non-hydroxy : alpha-hydroxy galactosylceramide ratio and unstable myelin in transgenic mice overexpressing UDP-galactose : ceramide galactosyltransferase.  
J Neurochem. 94, 469-481 (2005) I.F. 4,82
89. I. Zoller, H. Bussow, **V. Gieselmann**, M. Eckhardt:  
Oligodendrocyte-specific ceramide galactosyltransferase (CGT) expression phenotypically rescues CGT-deficient mice and demonstrates that CGT activity does not limit brain galactosylceramide level.  
Glia. 52, 190-198 (2005) I.F. 4,781
90. **V. Gieselmann**:  
What can cell biology tell us about heterogeneity in lysosomal storage diseases?  
Acta Paediatr Suppl. 94, 80-86 (2005)
91. U. Matzner, E. Herbst, K. K. Hedayati, R. Lullmann-Rauch, C. Wessig, S. Schroder, C. Eistrup, C. Moller, J. Fogh, **V. Gieselmann**:  
Enzyme replacement improves nervous system pathology and function in a mouse model for metachromatic leukodystrophy.  
Hum Mol Genet. 14, 1139-1152 (2005) I.F. 7,80
92. A. Yaghootfam, **V. Gieselmann**, M. Eckhardt:  
Delay of myelin formation in arylsulphatase A-deficient mice.  
Eur J Neurosci. 21, 711-720 (2005) I.F. 3,82
93. M. Eckhardt, A. Yaghootfam, S. N. Fewou, I. Zoller, **V. Gieselmann**:  
A mammalian fatty acid hydroxylase responsible for the formation of alpha-hydroxylated galactosylceramide in myelin.  
Biochem J. 388, 245-254 (2005) I.F. 4,27
94. M. M. Abouzied, H. M. El-Tahir, L. Prenner, H. Haberlein, **V. Gieselmann**, S. Franken:  
Hepatoma-derived growth factor. Significance of amino acid residues 81-100 in cell surface interaction and proliferative activity.  
J Biol Chem. 280, 10945-10954 (2005) I.F. 6,35
95. A. Lugowska, O. Amaral, J. Berger, L. Berna, N. U. Bosshard, A. Chabas, A. Fensom, **V. Gieselmann**, N. G. Gorovenko, W. Lisens, J. E. Mansson, A. Marcao, H. Michelakakis, H. Bernheimer, N. V. Ol'khovych, S. Regis, R. Sinke, A. Tytki-Szymanska, B. Czartoryska:  
Mutations c.459+1G>A and p.P426L in the ARSA gene: Prevalence in metachromatic leukodystrophy patients from European countries.  
Mol Genet Metab. 86 (3), 353-359 (2005)
96. V. Rosslénbroich, L. Dai, S. L. Baader, A. A. Noegel, **V. Gieselmann**, J. Kappler:  
Collapsin response mediator protein-4 regulates F-actin bundling.  
Exp Cell Res. 310 (2), 434-444 (2005)

97. L. Dai, W. Alt, K. Schilling, J. Retzlik, **V. Gieselmann**, T. M. Magin, J. Kappler:  
A fast and robust quantitative time-lapse assay for cell migration.  
*Exp Cell Res.* 311 (2), 272-280 (2005)
98. T. Schmandt, D. Klein, A. Perez-Bouza, E. Muth-Kohne, **V. Gieselmann**, O. Brüstle:  
Transplantation of arylsulfatase A overexpressing ES cell-derived glial precursors in an  
animal model of metachromatic leukodystrophy.  
*Acta Neuropathologica*, 110 (3), 340 (2005)
- 98a L. Berna; **V. Gieselmann**, H. Poupetova, M. Hrebicek, M. Elleder, J. Ledvinova  
Gene symbol: ARSA. Disease: metachromatic leukodystrophy.  
*Hum Genet.* 118(3-4), 538 (2005)
99. C. Sevin, A. Benraiss, D. van Dam, D. Bonnin, G. Nagels, L. Verot, I. Laurendeau, M.  
Vidaud, **V. Gieselmann**, M. Vanier, P.P. de Deyn, P. Aubourg, N. Cartier:  
Intracerebral adeno-associated virus-mediated gene transfer in rapidly progressive forms  
of metachromatic leukodystrophy.  
*Human Molecular Genetics* 15 (1), 53-64 (2006)
100. **V. Gieselmann**:  
Reversibility of cellular and organ pathology in enzyme replacement trials in animal  
models of lysosomal storage disease.  
*Acta Paediatr. Suppl.* 95, 75-76 (2006)
101. G. Isaac, Z. Pernber, **V. Gieselmann**, E. Hansson, J. Bergquist, J.-E. Mansson:  
Sulfatide with short fatty acid dominates in astrocytes and neurons.  
*FEBS Journal* 273, 1782-1790 (2006)
102. D. Lutjohann, K. Harzer, **V. Gieselmann**, M. Eckhardt.  
Reduced brain cholesterol content in arylsulfatase A-deficient mice.  
*Biochem Biophys Res Commun.* 2;344(2), 647-50 (2006)
103. D. Klein, T. Schmandt, E. Muth-Kohne, A. Perez-Bouza, M. Segschneider, **V.  
Gieselmann**, O. Brüstle:  
Embryonic stem cell-based reduction of central nervous system sulfatide storage in an  
animal model of metachromatic leukodystrophy.  
*Gene Ther.* 13(24), 1686-95 (2006)
104. S. Franken, D. Wittke, J.E. Mansson, R. D'Hooge, P.P. De Deyn, R. Lullmann-Rauch,  
U. Matzner, **V. Gieselmann**:  
Modest phenotypic improvements in ASA-deficient mice with only one UDP-  
galactose:ceramide-galactosyltransferase gene.  
*Lipids Health Dis.* 7;5:21 (2006)
105. H. Rauschka, B. Colsch, N. Baumann, R. Wevers, M. Schmidbauer, M. Krammer, J.C.  
Turpin, M. Lefevre, C. Olivier, S. Tardieu, W. Krivit, H. Moser, A. Moser, **V.  
Gieselmann**, B. Zalc, T. Cox, U. Reuner, A. Tytki-Szymanska, F. Aboul-Enein, E.  
LeGuern, H. Bernheimer, J. Berger:  
Late-onset metachromatic leukodystrophy: genotype strongly influences phenotype.  
*Neurology.* 12;67(5), 859-63 (2006)

106. S. Linke, P. Goertz, S.L. Baader, **V. Gieselmann**, M. Siebler, U. Junghans, J. Kappler:  
Aldolase C/zebrin II is released to the extracellular space after stroke and inhibits the  
network activity of cortical neurons.  
Neurochem Res. 31(11), 1297-303 (2006)
- 106a. H.M. El-Tahir, F. Dietz, R. Dringen, K. Schwabe, K. Strenge, S. Kelm, M.M.  
Abouzied, **V. Gieselmann**, S. Franken  
Expression of hepatoma-derived growth factor family members in the adult central  
nervous system.  
BMC Neurosci. 23, 7-6 (2006)
107. C. Sevin, L. Verot, A. Benraiss, D. Van Dam, D. Bonnin, G. Nagels, F. Fouquet, **V.  
Gieselmann**, M.T. Vanier, P.P. De Deyn, P. Aubourg, N. Cartier:  
Partial cure of established disease in an animal model of metachromatic leukodystrophy  
after intracerebral adeno-associated virus-mediated gene transfer.  
Gene Ther. 14(5), 405-14 (2007)
108. K. Saravanan, H. Bussow, N. Weiler, **V. Gieselmann**, S. Franken:  
A spontaneously immortalized Schwann cell line to study the molecular aspects of  
metachromatic leukodystrophy.  
J Neurosci Methods. 161(2), 223-33 (2007)
109. C. Baier, S.L. Baader, J. Jankowski, **V. Gieselmann**, K. Schilling, U. Rauch, J.  
Kappler:  
Hyaluronan is organized into fiber-like structures along migratory pathways in the  
developing mouse cerebellum.  
Matrix Biol. 26(5), 348-58 (2007)
110. **V. Gieselmann**:  
Sphingolipids in physiology and pathophysiology.  
Acta Paediatr Suppl. 96(455), 39 (2007)
111. S.N. Fewou, H. Ramakrishnan, H. Bussow, **V. Gieselmann**, M. Eckhardt:  
Down-regulation of polysialic acid is required for efficient myelin formation.  
J Biol Chem. 282(22), 16700-11 (2007)
112. A. Yaghootfam, T. Sorkalla, H. Haberlein, **V. Gieselmann**, J. Kappler, M. Eckhardt:  
Cerebroside Sulfotransferase Forms Homodimers in Living Cells.  
Biochemistry 46(32), 9260-9 (2007)
113. U. Matzner, F. Matthes, E. Herbst, R. Lüllmann-Rauch, Z. Callaerts-Vegh, R.  
D'Hooge, C. Weigelt, C. Eistrup, J. Fogh, **V. Gieselmann**:  
Induction of tolerance to human arylsulfatase A in a mouse model of metachromatic  
leukodystrophy.  
Mol Med. 13(9-10), 471-0 (2007)
114. M. Eckhardt, K.K. Hedayati, J. Pitsch, R. Lüllmann-Rauch, H. Beck, S.N. Fewou, **V.  
Gieselmann**:  
Sulfatide storage in neurons causes hyperexcitability and axonal degeneration in a mouse  
model of metachromatic leukodystrophy.  
J. Neurosci. 27(34), 9009-21 (2007)

115. H. Ramakrishnan, KK. Hedayati, R. Lüllmann-Rauch, C. Wessig, S.N. Fewou, H. Maier, H.H. Goebel, **V. Gieselmann**, M. Eckhardt:  
Increasing sulfatide synthesis in myelin-forming cells of arylsulfatase A-deficient mice causes demyelination and neurological symptoms reminiscent of human metachromatic leukodystrophy.  
J. Neurosci, 27(35), 9482-90 (2007)
116. I. Becker, L. Wang-Eckhardt, A. Yaghoofam, **V. Gieselmann**, M. Eckhardt:  
Differential expression of (dihydro)ceramide synthases in mouse brain: oligodendrocyte-specific expression of CerS2/Lass2.  
Histochem Cell Biol. 129(2), 233-41 (2008). Epub 2007
117. J. Gärtner, A. Kohlschütter, **V. Gieselmann**:  
Leukodystrophies: diseases of white matter of the nervous system  
Bundesgesundheitsblatt Gesundheitsforschung Gesundheitsschutz 50(12), 131-1540 (2007)
118. T. Kaminski, J.P. Siebrasse, **V. Gieselmann**, U. Kubitscheck, J. Kappler:  
Imaging and tracking of single hyaluronan molecules diffusing in solution.  
Glycoconj J. 56(6), 555-60 (2008)
119. **V. Gieselmann**:  
Metachromatic leukodystrophy: genetics, pathogenesis and therapeutic options. Acta Paediatrica Suppl. 97(457), 15-21 (2008)
120. U. Matzner, F. Matthes, C. Weigelt, C. Andersson, C. Eistrup, J. Forgh, **V. Gieselmann**:  
Non-inhibitory antibodies impede lysosomal storage reduction during enzyme replacement therapy of a lysosomal storage disease.  
J Mol Med 86, 433-42 (2008)
121. R. Gallitzendoerfer, M.M. Abouzied, D. Hartmann, R. Dobrowolski, **V. Gieselmann**, S. Franken:  
Hepatoma-derived growth factor (HDGF) is dispensable for normal mouse development  
Dev Dyn. 237 (7). 1875-85 (2008)
122. K. Hattermann, A. Ludwig, **V. Gieselmann**, J. Held-Feindt, R. Mentlein:  
The chemokine CXCL16 induces migration and invasion of glial precursor cell via its receptor CXCR6.  
Mol Cell Neurosci. 39 (1), 133-41 (2008)
123. M. Hans, A. Pusch, L. Dai, K. Racké, D. Swandulla, **V. Gieselmann**, J. Kappler:  
Lysosulfatide Regulates the Motility of a Neural Precursor Cell Line Via Calcium-mediated Process Collapse.  
Neurochem Res. 34(3), 508-17 (2009)
124. A.M. Bennati, G. Schiavoni, S. Franken, D. Piobbico, M.A. Della Fazio, D. Caruso, E. De Fabiani, L. Benedetti, M.G. Cusella De Angelis, **V. Gieselmann**, G. Servillo, T. Beccari, R. Roberti

Disruption of the gene encoding 3beta-hydroxysterol Delta(14)-reductase (Tm7sf2) in mice does not impair cholesterol biosynthesis.  
FEBS J. 275(20), 5034-47 (2008)

125. I. Zöller, M. Meixner, D. Hartmann, H. Büssow, R. Meyer, **V. Gieselmann**, M. Eckhardt  
Absence of 2-hydroxylated sphingolipids is compatible with normal neural development but causes late-onset axon and myelin sheath degeneration.  
J Neurosci. 24;28(39), 9741-54 (2008)
126. D. Klein, A. Yaghootfam, U. Matzner, B. Koch, T. Braulke, **V. Gieselmann**  
Mannose 6-phosphate receptor-dependent endocytosis of lysosomal enzymes in increased in sulfatide-storing kidney cells  
Biol. Chem 390, 41-48 (2009)
127. A. Ballabio, **V. Gieselmann**  
Lysosomal disorders: from storage to cellular damage  
Biochim Biophys Acta 1793(4), 684-96 (2009)
128. U. Matzner, R. Lüllmann-Rauch, S. Stroobants, C. Andersson, C. Weigelt, C. Eistrup, J. Fogh, R. D'Hooge, **V. Gieselmann**  
Enzyme replacement improves ataxic gait and central nervous system histopathology in a mouse model of metachromatic leukodystrophy  
Mol. Ther. 17(4), 600-6 (2009)
129. U. Matzner, B. Breiden, G. Schwarzmann, A. Yaghootfam, A.L. Fluharty, A. Hasilik, K. Sandhoff, **V. Gieselmann**  
Saposin B-dependent reconstitution of arylsulfatase A activity in vitro and in cell culture models of metachromatic leukodystrophy  
J Biol Chem. 284(14), 9372-81 (2009)
130. H.M. El-Tahir, M.M. Abouzied, R. Gallitzendoerfer, **V. Gieselmann**, S. Franken  
Hepatoma-derived growth factor-related protein-3 interacts with microtubules and promotes neurite outgrowth in mouse cortical neurons  
J Biol Chem. 284(17), 11637-51 (2009)
131. **V. Gieselmann**, T. Braulke  
Lysosomes  
Biochem Biophys Acta. 1793(4), 603-4 (2009)
132. J. Kappler, O. Hegener, S.L. Baader, S. Franken, **V. Gieselmann**, H. Häberlein, U. Rauch  
Transport of a hyaluronan-binding protein in brain tissue  
Matrix Biol. 28(7), 396-405 (2009)
133. S. Pohl, S. Tiede, M. Castrichini, M. Cantz, **V. Gieselmann**, T. Braulke  
Compensatory expression of human N-acetylglucosaminyl-1-phosphotransferase subunits in mucopolipidosis type III gamma.  
Biochim Biophys Acta. 1792(3), 221-5 (2009)

134. M. Ruiz, M. Begou, C. Guilera, M. Eckhardt, J. Galino, **V. Gieselmann**, O. Boespflug-Tanguy, A. Pujol  
Oxidative damage and redox proteomics in metachromatic leukodystrophy and pelizaeus merzbacher disease  
*Glia* 57 (13): S98 (2009)
135. M. Eckhardt, M. Meixner, H. Meier, **V. Gieselmann**, D. Hartmann  
Fatty acid 2-hydroxylase deficient mice: an animal model for a new leukodystrophy with spastic  
*Glia* 57(13): S109 (2009)
136. S. Imgrund, D. Hartmann, H. Farwanah, M. Eckhardt, R. Sandhoff, J. Degen, **V. Gieselmann**, K. Sandhoff, K. Willecke  
Adult ceramide synthase 2 (CERS2)-deficient mice exhibit myelin sheath defects, cerebellar degeneration, and hepatocarcinomas  
*J Biol Chem.* 284(48), 33549-60 (2009)
137. R. van Zyl, **V. Gieselmann**, M. Eckhardt  
Elevated sulfatide levels in neurons cause lethal audiogenic seizures in mice  
*J Neurochem.* 112: 282-95 (2010)
138. S. Schröder, F. Matthes, P. Hyden, C. Andersson, J. Fogh, S. Müller-Loennies, T. Braulke, **V. Gieselmann**, U. Matzner  
Site specific analysis of N-linked oligosaccharides of recombinant lysosomal arylsulfatase A produced in different cell lines  
*Glycobiology.* 20(2):248-59 (2010)
139. **V. Gieselmann**  
Maximizing the therapeutic potential of enzyme replacement for lysosomal storage diseases  
*Int J Clin Pharmacol Ther.* 47(12):707-8 (2009) No abstract available.
140. **V. Gieselmann**, G. Pintos-Morell  
Disease pathogenesis – basic science  
*Int J Clin Pharmacol Ther.* 47 Suppl 1:7-8 (2009)
141. A. Pusch, A. Boeckenhoff, T. Glaser, T. Kaminiski, G. Kirfel, M. Hans, B. Steinfarz, D. Swandulla, U. Kubitscheck, **V. Gieselmann**, O. Brüstle, J. Kappler  
CD44 and hyaluronan promote invasive growth of B35 neuroblastoma cells into brain  
*Biochim Biophys Acta* 1803(2):261-74 (2010)
142. K.J. Dick, M. Eckhardt, C. Paisán-Ruiz, A.A. Alshehhi, C. Proukakis, N.A. Sibtain, H. Maier, R. Sharifi, M.A. Patton, W. Bashir, R. Koul, S. Raeburn, **V. Gieselmann**, H. Houlden, A.H. Crosby  
Mutation of FA2H underlies a complicated form of hereditary spastic paraplegia (SPG35)  
*Hum Mutat.* 31(4):E1251-60 (2010)
143. **V. Gieselmann**, I. Krägeloh-Mann  
Metachromatic Leukodystrophy – An Update  
*Neuropediatrics* 41(1):1-6 (2010)



144. P. Poeppel, M.M. Abouzied, C. Völker, V. Gieselmann  
Misfolded ER retained subunits cause degradation of wild type subunits of  
arylsulfatase A heteromers  
FEBS Journal 277(16): 3404-14 (2010)
145. D. Gerlach, T. Kaminski, F. Pérez-Willard, G. Kirfel, **V. Gieselmann**, J. Kappler  
Nanofibers in a hyaluronan-based pericellular matrix  
Matrix Biol. 29(8):664-7 (2010)
146. M.M. Abouzied, H.M. El-Tahir, **V. Gieselmann**, S. Franken  
Hepatome-derived growth factor-related protein-3: a new neurotrophic and neurite  
Outgrowth-promoting factor for cortical neurons  
J Neurosci Res. 88(16):3610-20 (2010)
147. J. Kappler, T.P. Kaminski, **V. Gieselmann**, U. Kubitscheck, J. Jerosch  
Single-molecule imaging of hyaluronan in human synovial fluid  
JBO Letters 15(6): (2010)
148. I. Becker, J. Lodder; **V. Gieselmann**, M. Eckhardt  
Molecular characterization of N-acetylaspartylglutamate synthetase  
J Biol Chem. 285(38):29156-64 (2010)
149. **V. Gieselmann**  
Cellular pathophysiology of lysosomal storage diseases  
In: A. Mehta, M. Beck, G. Sunder-Plassmann, editors  
Fabry Disease: Perspectives from 5 Years of FOS.  
Oxford: Oxford PharmaGenesis; 2006. Chapter 4.
150. M. Blomqvist, **V. Gieselmann**, J.E. Månsson  
Accumulation of lysosulfatase in the brain of arylsulfatase A-deficient mice  
Lipids Health Dis. 10(1):28 (2011)
151. M. Meixner, J. Jungnickel, C. Grothe, **V. Gieselmann**, M. Eckhardt  
Myelination in the absence of UDP-galactose: ceramide galactosyl-transferase and fatty  
acid 2-hydroxylase  
BMC Neurosci 12:22 (2011)
152. J. Lodder-Gadaczek, I. Becker, **V. Gieselmann**, L. Wang-Eckhardt, M. Eckhardt  
N-acetylaspartylglutamate synthetase II synthesizes N-acetylaspartylglutamylglutamate  
J Biol Chem. 286(19):16693-706 (2011)
153. F. Matthes, P. Wölte, A. Böckenhoff, S. Hüwel, M. Schulz, P. Hyden, J. Fogh,  
**V. Gieselmann**, H.J. Galla, U. Matzner  
Transport of arylsulfatase A across the blood-brain barrier in vitro  
J Biol Chem 286(20):17487-94 (2011)
154. E. Faldini, S. Stroobants, R. Lüllmann-Rauch, M. Eckhardt, **V. Gieselmann**,  
D. Balschun, R. D'Hooge  
Telencephalic histopathology and changes in behavioural and neural plasticity in a murine  
model for metachromatic leukodystrophy  
Behav Brain Res. 222(2):309-14 (2011)

155. S. Stroobants, D. Gerlach, F. Matthes, D. Hartmann, J Fogh, **V. Gieselmann**, R. D'Hooge, U. Matzner  
Intracerebroventricular enzyme infusion corrects central nervous system pathology and dysfunction in a mouse model of metachromatic leukodystrophy  
Hum Mol Genet. 20(14):2760-9 (2011)
156. H. Maier, M. Meixner, D. Hartmann, R. Sandhoff, L. Wang-Eckhardt, I. Zöller, **V. Gieselmann**, M. Eckhardt  
Normal fur development and sebum production depends on Fatty Acid 2-hydroxylase expression in sebaceous glands  
J Biol Chem. 286(29):25922-34 (2011)
157. C. Kehrer, G. Blumenstock, **V. Gieselmann**, I. Krägeloh-Mann, ON BEHALF OF THE GERMAN LEUKONET  
The natural course of gross motor deterioration in metachromatic leukodystrophy  
Dev Med Child Neurol. 53(9):850-5 (2011)
158. M. Debald, S. Franken, L.C. Heukamp, A. Linke, M. Wolfgarten, K.J. Walgenbach, M. Braun, C. Rudlowski, **V. Gieselmann**, W. Kuhn, G. Hartmann, G. Walgenbach-Brünagel  
Identification of specific nuclear structural protein alterations in human breast cancer  
J Cell Biochem. 112(11):3176-84J (2012)
159. J. Jungnickel, M. Eckhardt, K. Haastert-Talini, P. Claus, P. Bronzlik, E. Lipokatic-Takacs, H. Maier, **V. Gieselmann**, C. Grothe  
Polysialyltransferase-overexpression in Schwann cells mediates different effects during peripheral nerve regeneration  
Glycobiology. 22(1):107-15 (2012)
160. A. Sedlmaier, N. Wernert, R. Gallitzendörder, M.M. Abouzied, **V. Gieselmann**, S. Franken  
Overexpression of hepatoma-derived growth factor in melanocytes does not lead to oncogenic transformation  
BMC Cancer 11:457 (2011)
161. F. Matthes, S. Stroobants, D. Gerlach, C. Wohlenberg, C. Wessig, J. Fogh, **V. Gieselmann**, M. Eckhardt, R. D'Hooge, U. Matzner  
Efficacy of enzyme replacement therapy in an aggravated mouse model of metachromatic Leukodystrophy declines with age  
Hum Mol Genet. 21(11):2599-609 (2012)
162. E. Persichetti, K. Klein, S. Paciotti, K. Lecoite, C. Balducci, S. Franken, S. Duvet, U. Matzner, R. Roberti, D. Hartmann, **V. Gieselmann**, T. Beccari  
Lysosomal di-N-acetylchitobiase-deficient mouse tissues accumulate Man2GlcNAc2 and Man3GlcNAc2  
Biochim Biophys Acta. 1822(7):1137-46 (2012)

163. S. Bremer, K. Klein, A. Sedlmaier, M. Abouzied, **V. Gieselmann**, S. Franken  
Hepatome-derived growth factor and nucleolin exist in the same ribonucleoprotein complex  
BMC Biochem. 14:2 (2013)
164. J. Lodder-Gadaczek, **V. Gieselmann**, M. Eckhardt  
Vesicular uptake of N-acetylaspartylglutamate is catalysed by sialin (SLC17A5)  
Biochem J. 454(1):31-8 (2013)