

Curriculum Vitae

Name Dieter Robert Zimmermann
Title Prof. Dr. sc. nat. (PhD)
Date of Birth December 21, 1958
Citizenship Döttingen (AG), Switzerland
Business Address Division of Diagnostic Molecular Pathology, Department of Pathology and Molecular Pathology, University Hospital, Schmelzbergstrasse 12, 8091 Zurich, Switzerland
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Basic Education

1966 - 1974 Primary and secondary school.
 1974 - 1978 High School. Matura Type C (mathematics and natural sciences).

University Education and Academic Titles

1978 - 1982 Education in natural sciences at the ETH Zurich, Switzerland. Focus on biochemistry and molecular biology.
 1982 Diploma thesis in Biochemistry.
 November 1982 Dipl. natw. ETH (Diploma in Natural Sciences; M.Sc. equivalent).
 1983 - 1986 Dissertation at the Institute of Biochemistry I, ETH Zurich, Switzerland.
 Title of the PhD-thesis: *Collagens in normal and keratoconus corneae*.
 August 1986 Dr.sc.nat. ETH (PhD)
 March 1997 Venia legendi (Privatdozent) for Experimental Pathology at the Medical Faculty of the University of Zurich, Switzerland. Title of the habilitation:
Structure and distribution of the aggregating proteoglycan versican – evidence for a function in cellular proliferation and migration.
 September 2003 Prof. Dr. sc. nat. (Titularprofessor)

Professional Record

1982 - 1983 Research assistant at the Department of Research, University Hospital Basel, Switzerland. (Dr. Ruedi Flückiger)
 1983 - 1986 Research assistant at the Institute of Biochemistry I, Federal Institute of Technology, Zurich, Switzerland (Prof. Kaspar H. Winterhalter)
 Aug. - Dec. 1986 Postdoctoral fellow at the Institute of Biochemistry I, Federal Institute of Technology, Zurich, Switzerland (Prof. Kaspar H. Winterhalter)
 Jan. 1987 - Oct. 1989 Postdoctoral fellow at the SBP Medical Discovery Institute (formerly La Jolla Cancer Research Foundation), La Jolla, CA, USA (Prof. Erkki Ruoslahti)
 1990 - 1991 Research Associate. Head of the Laboratory of Molecular Diagnostics at the Institute of Pathology, University of Zurich (Prof. Philipp U. Heitz).
 1992 - 2008 Senior Research Associate (Oberassistent). Head of the Laboratory of Molecular Diagnostics, Department of Pathology, University of Zurich (Prof. Philipp U. Heitz / Prof. Holger Moch).
 since March 2008 Senior Research Manager (wissenschaftlicher Abteilungsleiter). Head of the Division of Diagnostic Molecular Pathology, Department of Pathology and Molecular Pathology, University Hospital Zurich (Prof. Holger Moch).

Official Functions in Professional Organizations

- President of the Swiss Society of Molecular Pathology (2003-2011)
- Secretary of the Swiss Society of Molecular Pathology (2001-2003)
- Member of the executive board of the Swiss Society of Pathology (2004-2011)
- Member of the TARMED-commission of the Swiss Society of Pathology (since 2011)
- Member of the examination board for the FMH-subtitle in Molecular Pathology (2004-2010)
- Expert for Molecular Diagnostics, Swiss Accreditation System (since 1999)

Memberships in Professional Organizations

- Life Sciences Switzerland LS² (since 1985)
- Swiss Society of Pathology (since 2001)
- Swiss Society of Molecular Pathology (since 2001)
- Neuroscience Center Zurich (since 1998)
- Center of Clinical Research Zurich (since 2001)
- Cancer Network Zurich (since 2002)
- American Society of Neuroscience (2009-2011)

Research projects

A. Translational research

Establishment of predictive molecular markers / Diagnostic microsatellite analysis / Detection of novel translocations / Analyses of DNA Methylation

B. Basic research

The role of extracellular matrix molecules in the control of cellular proliferation and migration processes

Research grants

1987	Swiss National Science Foundation (single applicant)	CHF	34'000
1990 - 1994	Swiss Natl. Science Found. (Nr. 31-28882.90) (single applicant)	CHF	116'959
1994	Ida de Pottère-Leupold Foundation (single applicant)	CHF	25'614
1994 - 1998	Cancer League of the Canton Zurich (single applicant)	CHF	131'000
1998	Lydia Hochstrasser Foundation (single applicant)	CHF	31'833
1999 - 2004	Swiss Natl. Science Found. (Nr. 31-055718.98) (single applicant)	CHF	210'000
2002 - 2004	Lydia Hochstrasser Foundation (single applicant)	CHF	95'700
2004	Swiss Natl. Science Found. (Nr. 31-055718.98/2) (extension)	CHF	10'142
2004-2005	Hartmann Müller-Stiftung (single applicant)	CHF	43'000
2004-2006	Velux-Stiftung (single applicant)	CHF	180'000
2004-2009	Swiss Natl. Science Found. (Nr. 3100A0-103717) (single applicant)	CHF	188'135
2009-2011	Swiss Natl. Science Found. (Nr. 3100A0-122520) (single applicant)	CHF	144'000
2009-2010	Velux-Stiftung (single applicant)	CHF	66'300
Total		CHF	1'276'683
Approved, but not claimed due to major overlaps with other grants:			
2004	Gebert Rüt-Stiftung (single applicant; same application as Velux)	CHF	250'000

Diagnostic Services provided to the University Hospital and other hospitals within Switzerland

- A. Since we set up the Laboratory for Molecular Diagnostics at the Department of Pathology at the beginning of 1990, we have established more than 50 diagnostic assays. Currently we run about 4000 of these rather complex molecular analyses on samples from 2500 patients per year.
- B. We have furthermore established and are running a Sanger-sequencing core facility currently analyzing about 16'000 sequences per year.

Teaching

- A. Laboratory training for biology-students (molecular genetics course), PhD-students (3-4 year-education), MD-students (half-year-training) and of pathologist (FMH) for sub-specialization in molecular pathology (FMH-subtitle, one year).
- B. Selected lectures in molecular pathology in following courses:
- Allgemeine Pathologie (general pathology; 1997-2005)
 - Pathologisch-anatomische Demonstration (specialized pathology; since 1997)
 - Mantelstudium Biomedizinische Wissenschaften (biomedical sciences; 2005)
 - Allgemeine Pathologie / Zahnmedizin (general pathology for dentists; 2005)
- Selected lecture for biology students:
- Development of the nervous system (since 2005)
- Lectures for PhD-students at the Neuroscience Center Zurich
- Advanced course in neurobiology / developmental neurobiology (2000-2008)
 - Introductory course in neuroscience (2014-2015)

PhD-Dissertations (Supervisor)

Landolt, R.M. Dr. sc. nat. ETH. ETHZ-Dissertation Nr. 11368, 1995.

Die Expression von Versican während der Hühnchenembryogenese und mögliche Funktionen des Chondroitinsulfat Proteoglycans.

Schmalfeldt, M. Dr. sc. nat. ETH. ETHZ-Dissertation Nr. 13022, 1999.

Structural and functional characterization of bovine brain versicans.

Matasci, M. Dr. sc. nat. ETH. ETHZ-Dissertation Nr. 15737, 2004.

In vivo gene targeting and in vitro proteolytic degradation; different approaches to study versican functions.

Dutt, S. Dr. sc. nat. Uni ZH-Dissertation, 2005.

In vitro and in ovo studies examining the functions of versican V0 and V1 during the formation of the peripheral nervous system.

Zimmermann-Dours, M.T. Dr. sc. nat. Uni ZH-Dissertation, 2009.

Generation of an isoform-specific knockout mouse to study the functions of versican V2 in the adult central nervous system.

Cassoly, E. Dr. sc. nat. Uni ZH-Dissertation, 2011.

Studies of the role of versican expression and turnover in the control of axonal growth in the chick embryo.

PhD-Dissertations (Member of the thesis committee)

Weber, P. Dr. sc. nat. ETH. Dissertation Nr. 11369, 1995.

Binding to heparin and contactin/F11 of alternatively spliced fibronectin type III homology region of chicken tenascin-C.

Buchli, A. Dr. sc. nat. ETH. Dissertation Nr. 14200, 2001.

Characterization of the novel receptor tyrosine phosphatase RPTPmam4 – implications for a role at the synapse and in cancer.

Debrunner, M. Dr. sc. nat. Uni ZH-Dissertation, 2010.

Characterization of repulsive Slit / Robo signalling in neural crest cell migration and sensory axon guidance in the chicken embryo.

Gysi, S. Dr. sc. nat. Uni ZH-Dissertation, 2011.

A screen for axon guidance genes in parallel to heparan sulfate proteoglycans in *C. elegans*.

Magyar, I. Dr. sc. nat. Uni ZH-Dissertation, 2012.

Molecular basis of Marfan syndrome: In vitro and in silico analyses of exonic and intronic sequence variants in the *FBN1* gene.

Andermatt, I. Dr. sc. nat. Uni ZH-Dissertation, 2012.

The role of Sema6B in commissural axon guidance.

Alther, T.A. Dr. sc. nat. Uni ZH-Dissertation, 2014.

Calsyntenin 1-dependent vesicular trafficking is an important regulator of axonal behavior at choice points.

Frei J.A. Dr. sc. nat. Uni ZH-Dissertation, 2014.

The synaptic cell adhesion molecules SynCams are involved in early sensory axon pathfinding.

MD-Dissertations (Supervisor)

Hochreutener, B. Dr. med. Uni ZH-Dissertation, 2000.

Molekularbiologische Diagnostik des follikulären Non-Hodgkin-Lymphomes:
Standard- versus Long-Distance-PCR zur Detektion der t(14;18)(q32;q21)-Translokation.

Alvarez, F. Dr. med. Uni ZH-Dissertation, 2000.

Nachweis und Typisierung von atypischen Mykobakterien in Formalin-fixierten und Paraffin-eingebetteten Gewebeproben mittels Polymerase-Ketten-Reaktion und Sequenzanalyse.

Albinger, A. Dr. med. Uni ZH-Dissertation, 2002.

High frequency of t(14;18)-translocation breakpoints outside of major breakpoint and minor cluster regions in follicular lymphomas. Improved polymerase chain reaction protocols for their detection.
(Awarded with the Annual Prize of the University of Zurich 2003)

Lenggenhager, D.M. Dr. med. Uni ZH-Dissertation, 2005.

Validierung der Mikrosatellitenanalyse als ergänzende Untersuchung in der Diagnostik von Urothelkarzinomen - Vergleich mit histologischen Befunden.
(Awarded with the Semester Prize of the University of Zurich June 2005)

Training for FMH-Subtitle in Molecular Pathology (Supervisor)

- Dr. med. Marianne Tinguely (2005; FMH Subtitle-Exam passed Nov 2005)
- Dr. med. Tanja Reineke-Plaass (2010; FMH Subtitle-Exam passed Nov 2010)
- Dr. med. Anne-Katrin Zimmermann (2012; FMH Subtitle-Exam passed Nov 2012)
- Dr. med. Davide Soldini (2013; FMH Subtitle-Exam passed Nov 2013)
- Dr. med. Kirsten Mertz (2014; FMH Subtitle-Exam passed Nov 2014)
- Dr. med. Ewerton Marques Maggio (2015; FMH Subtitle-Exam passed Nov 2015)
- Dr. med. Marc Beer (2017; FMH Subtitle-Exam passed Nov 2017)

Training for FAMH-Title in RNA/DNA Diagnostics (Supervisor; with special permission of the FAMH)

- Dr. sc.nat. Luca Bernasconi (2003)

Publications

133 Articles published or in press

Cumulative Impact Factor: 450

Total Number of Citations (Web of Science): 5883 (Jan 3, 2018)

	Research articles	Reviews	Book articles
First authorship	915 (6)	181 (2)	42 (5)
Last authorship	1191 (21)	440 (4)	10 (2)
Second authorship	774 (10)		0 (2)
Other authorships	2329 (76)	0 (1)	1 (4)

Research Articles (peer reviewed)

- Vaughan, L., Fischer, R.W., **Zimmermann, D.R.** & Winterhalter, K.H. (1984) Nonenzymatic glucosylation of proteins: a new and rapid solution for in vitro investigation. *FEBS Lett.*, **173**, 173-178.
 Impact factor ¹⁹⁹³: 3.339 Number of citations*: 8 (*until Dec 29, 2016)
- Zimmermann, D.R.**, Trüeb, B., Winterhalter, K.H., Witmer, R. & Fischer, R.W. (1986) Type IV collagen is a major component of the human cornea. *FEBS Lett.*, **197**, 55-58.
 Impact factor ¹⁹⁹³: 3.339 Number of citations*: 109
- Zimmermann, D.R.**, Fischer, R.W., Winterhalter, K.H., Witmer, R. & Vaughan, L. (1988) Comparative studies of collagens in normal and keratoconus corneas. *Exp. Eye Res.*, **46**, 431-442.
 Impact factor ¹⁹⁹³: 1.622 Number of citations*: 60
- Zimmermann, D.R.** & Ruoslahti, E. (1989) Multiple domains of the large fibroblast proteoglycan, versican. *EMBO J.*, **8**, 2975-2981.
 Impact factor ¹⁹⁹³: 13.208 Number of citations*: 536
- Gahmberg, C.G., Nortamo, P., **Zimmermann, D.** & Ruoslahti, E. (1991) The human leukocyte-adhesion ligand, intercellular-adhesion molecule 2. Expression and characterization of the protein. *Eur. J. Biochem.*, **195**, 177-182.
 Impact factor ¹⁹⁹³: 3.306 Number of citations*: 21
- Kaplony, A., **Zimmermann, D.R.**, Fischer, R.W., Imhof, B.A., Odermatt, B.F., Winterhalter, K.H. & Vaughan, L. (1991) Tenascin Mr 220,000 isoform expression correlates with corneal cell migration. *Development* **112**, 605-614.
 Impact factor ¹⁹⁹³: 7.503 Number of citations*: 100
- LeBaron, R.G., **Zimmermann, D.R.** & Ruoslahti, E. (1992) Hyaluronate binding properties of versican. *J. Biol. Chem.*, **267**, 10003-10010.
 Impact factor ¹⁹⁹³: 6.793 Number of citations*: 260

8. Nadal, D., Caduff, R., Frey, E., Hassam, S., **Zimmermann, D.R.**, Seigneurin, J. M., Plüss, H. J. & Seger, R. A. (1994) Non-Hodgkin's lymphoma in four children infected with the human immunodeficiency virus: association with Epstein-Barr virus and treatment. *Cancer*, **73**, 224-230.
Impact factor 1994: 2.249 Number of citations*: 31
9. **Zimmermann, D.R.**, Dours-Zimmermann, M.T., Schubert, M. & Bruckner-Tuderman, L. (1994) Versican is expressed in the proliferating zone in the epidermis and in association with the elastic network of the dermis. *J. Cell Biol.*, **124**, 817-825.
Impact factor 1994: 12.149 Number of citations*: 199
10. Dours-Zimmermann, M.T. & **Zimmermann, D.R.** (1994) A novel glycosaminoglycan attachment domain identified in two alternative splice-variants of human versican. *J. Biol. Chem.*, **269**, 32992-32998.
Impact factor 1994: 7.716 Number of citations*: 173
11. Naso, M.F., **Zimmermann, D.R.**, & Iozzo R.V. (1994) Characterization of the complete genomic structure of the human versican gene and functional analysis of its promoter. *J. Biol. Chem.*, **269**, 32999-33008.
Impact factor 1994: 7.716 Number of citations*: 131
12. Knecht, H., Martius, F. Bachmann, E., Hoffmann, T., **Zimmermann, D.R.**, Rothenberger, S., Sandvey, K., Wegmann, W., Hurwitz, N., Odermatt, B.F., Kummer, H. & Pallesen, G. (1995) A deletion mutant of the LMP1 oncogene of Epstein-Barr virus is associated with evolution of angioimmunoblastic lymphadenopathy into B-immunoblastic lymphoma. *Leukemia*, **9**, 458-465.
Impact factor 1994: 1.941 Number of citations*: 42
13. Weber, P., **Zimmermann, D.R.**, Winterhalter, K.H. & Vaughan, L. (1995) Tenascin-C binds heparin by its fibronectin type III domain five. *J. Biol. Chem.*, **270**, 4619-4623.
Impact factor 1994: 7.716 Number of citations*: 35
14. Landolt, R.M., Vaughan, L., Winterhalter, K.H. & **Zimmermann, D.R.** (1995) Versican is selectively expressed in embryonic tissues that act as barriers to neural crest cell migration and axon outgrowth. *Development*, **121**, 2303-2312.
Impact factor 1994: 8.064 Number of citations*: 216
15. Schleiffenbaum, B., Rüegg, R., **Zimmermann, D.** & Fehr, J. (1995) High grade malignant lymphoma with clinical characteristics and immunophenotype of natural killer cells. *Am. J. Hematol.*, **49**, 221-231.
Impact factor 1994: 1.744 Number of citations*: 6
16. Dommann-Scherrer, C., Baumann Kurer, S. **Zimmermann, D.R.**, Odermatt, B.F., Dours-Zimmermann, M.T., Briner, J. & Heitz, Ph.U. (1995) Occult hepatosplenic T- γ/δ lymphoma: value of genotypic analysis in the differential diagnosis. *Virchows Arch.*, **426**, 629-634.
Impact factor 1994: 1.815 Number of citations*: 31

17. Bruckner-Tuderman, L., Nilssen, Ø., **Zimmermann, D.R.**, Dours-Zimmermann, M.T., Kalinke, U., Gedde-Dahl J.R., T. Winberg, J.O. (1995) Immunohistochemical and mutation analysis demonstrate that procollagen VII is processed to collagen VII through removal of the NC-2 domain. *J. Cell Biol.*, **131**, 551-559.
Impact factor ¹⁹⁹⁴: 12.149 Number of citations*: 108
18. Böni, R., Dummer, R., Dommann-Scherrer, C., Dommann, S., **Zimmermann, D.R.**, Joller-Jemelka, H. & Burg, G. (1995) Necrotizing Herpes Zoster mimicking relapse of vasculitis in angioimmunoblastic lymphadenopathy with dysproteinaemia. *Br. J. Dermatol.*, **133**, 978-982.
Impact factor ¹⁹⁹⁴: 1.871 Number of citations*: 7
19. Dommann, S.N.W., Dommann-Scherrer, C.C., **Zimmerman, D.R.**, Dours Zimmermann, M.T., Hassam, S. & Burg, G. (1995) Primary cutaneous T-cell rich B-cell lymphoma. A case report with a 13-year follow-up. *Am. J. Dermatopathol.* **17**, 618-624.
Impact factor ¹⁹⁹⁴: 0.921 Number of citations*: 17
20. Bauer, S., Schaub, N., Dommann-Scherrer, C.C., **Zimmermann, D.R.**, Simon, H.U., & Wegmann, W. (1996) Long-term outcome of idiopathic hypereosinophilic syndrome - transition to eosinophilic gastroenteritis and clonal expansion of T-cells. *Eur. J. Gastroen. Hepat.* **8**, 181-185.
Impact factor ¹⁹⁹⁷: 1.453 Number of citations*: 16
21. Bode-Lesniewska, B., Dours-Zimmermann, M. T., Odermatt, B.F., Briner, J., Heitz, Ph. U. & **Zimmermann, D.R.** (1996) Distribution of the large aggregating proteoglycan versican in adult human tissues. *J. Histochem. Cytochem.* **44**, 303-312.
Impact factor ¹⁹⁹⁷: 2.776 Number of citations*: 139
22. Simon, H.U., Yousefi, S., Dommann-Scherrer, C., **Zimmermann, D.R.**, Bauer, S., Barandun, J. & Blaser, K. (1996) Expansion of cytokine-producing CD4-CD8- T-cells associated with abnormal Fas expression and hypereosinophilia. *J. Exp. Med.* **183**, 1071-1082.
Impact factor ¹⁹⁹⁷: 14.384 Number of citations*: 131
23. Dommann, S.N.W., Dommann-Scherrer, C.C., Dours-Zimmermann, M.T., **Zimmermann, D.R.**, Kural-Serbes B. & Burg, G. (1996) Clonal disease in extracutaneous compartments in cutaneous T-cell lymphomas - a comparative study between cutaneous T-cell lymphomas and pseudo-lymphomas. *Arch. Dermatol. Res.* **288**, 163-167.
Impact factor ¹⁹⁹⁷: 1.234 Number of citations*: 23
24. Dommann, S.N.W., Dommann-Scherrer, C.C., Dours-Zimmermann, M.T., **Zimmermann, D.R.**, Kural-Serbes B. & Burg, G. (1996) Cutaneous pleomorphic T-cell lymphoma showing lineage cross-over of antigen receptor gene rearrangement. *Eur. J. Dermatol.* **6**, 196-199.
Impact factor ¹⁹⁹⁸: 0.464 Number of citations*: 0
25. Isenmann, S., **Zimmermann, D.R.**, Wichmann, W. & Moll, C. (1996) Tuberculoma mimicking meningioma of the falx cerebri. PCR diagnosis of mycobacterial DNA from formalin-fixed tissue. *Clin. Neuropathol.*, **15**, 155-158.
Impact factor ¹⁹⁹⁷: 0.636 Number of citations*: 19

26. Paulus, W., Baur, I., Dours-Zimmermann, M. T. & **Zimmermann, D.R.** (1996) Differential expression of versican isoforms in brain tumors. *J. Neuropathol. Exp. Neurol.* **55**, 528-533.
Impact factor ¹⁹⁹⁷: 4.253 Number of citations*: 83

27. Dummer, R., Potoczna, N., Haffner, A.C., **Zimmermann, D.R.**, Gilardi, S. & Burg, G. (1996) A primary cutaneous non-T, non-B CD4(+), CD56(+) lymphoma. *Arch. Dermatol.* **132**, 550-553.
Impact factor ¹⁹⁹⁷: 2.358 Number of citations*: 65

28. Schleiffenbaum, B., Rüegg, R., **Zimmermann, D.** & Fehr, J. (1996) Early diagnosis of low grade malignant lymphoma and chronic lymphocytic leukemia. Verification of morphologically suspected malignancy in blood lymphocytes by flow cytometry. *Eur. J. Hematol.*, **57**, 341-348.
Impact factor ¹⁹⁹⁷: 1.626 Number of citations*: 4

29. Wenger, R.H., Kvietikova, I., Spielmann, P., **Zimmermann, D.R.** & Gassmann, M. (1997) The mouse gene for hypoxia-inducible factor-1alpha. Genomic organization, expression, and characterization of an alternative first exon and 5'-flanking sequence. *Eur. J. Biochem.*, **246**, 155-165.
Impact factor ¹⁹⁹⁷: 3.136 Number of citations*: 45

30. Laeng, R.H., Altermatt, H.J., Scheithauer, B.W. & **Zimmermann, D.R.** (1998) Amyloidomas of the nervous system - a monoclonal B-cell disorder with monotypic amyloid light chain lambda amyloid production. *Cancer*, **82**, 362-374.
Impact factor ¹⁹⁹⁸: 3.660 Number of citations*: 49

31. Wenger, R.H., Rolfs, A., Spielmann, P., **Zimmermann, D.R.** & Gassmann, M. (1998) Mouse hypoxia-inducible factor-1alpha is encoded by two different mRNA isoforms: expression from a tissue-specific and a housekeeping-type promotor. *Blood*, **91**, 3471-3480.
Impact factor ¹⁹⁹⁸: 8.372 Number of citations*: 62

32. Schmalfeldt, M., Dours-Zimmermann, M. T., Winterhalter, K.H. & **Zimmermann, D.R.** (1998) Versican V2 is a major extracellular matrix component of the mature bovine brain. *J. Biol. Chem.*, **273**, 15758-15764.
Impact factor ¹⁹⁹⁸: 7.199 Number of citations*: 93

33. Niederöst, B.P., **Zimmermann, D.R.**, Schwab, M.E. & Bandtlow, C.E. (1999) Bovine CNS myelin contains neurite growth inhibitory activity associated with chondroitin sulfate proteoglycans. *J. Neurosci.*, **19**, 8979-8989.
Impact factor ¹⁹⁹⁹: 8.955 Number of citations*: 202

34. Schmalfeldt, M., Bandtlow, C. E., Dours-Zimmermann, M.T., Winterhalter, K.H. & **Zimmermann, D.R.** (2000) Brain derived versican V2 is a potent inhibitor of axonal growth. *J. Cell Sci.*, **113**, 807-816.
Impact factor ²⁰⁰⁰: 5.996 Number of citations*: 146 (Featured article)

35. Cogliatti, S.B., Griesser, H., Peng, H., Isaacson, P.G., **Zimmermann, D.R.**, Maibach, R.C. & Schmid, U. (2000) Significantly different bcl-2 expression profiles in gastric and non-gastric primary extranodal high grade B-cell lymphomas. *J. Pathol.*, **192**, 470-478.
Impact factor ²⁰⁰⁰: 4.137 Number of citations*: 9

36. Sandy, J.D., Westling, J., Kenagy, R.D, Iruela-Arispe, M.L., Verscharen, C., Rodriguez-Mazaneque, J.C., **Zimmermann, D.R.**, Lemire, J.M., Fischer, J.W., Wight, T.N. & Clowes, A.W. (2001) Versican V1 proteolysis in human aorta in vivo occurs at the Glu441 -Ala442 bond, a site that is cleaved by recombinant ADAMTS-1 and ADAMTS-4. *J. Biol. Chem.*, **276**, 13372–13378.
Impact factor ²⁰⁰¹: 7.258 Number of citations*: 313
37. Oohashi, T., Hirakawa, S., Bekku, Y., Rauch, U., **Zimmermann, D.R.**, Su, W.D., Ohtsuka, A., Murakami, T. & Ninomiya Y. (2002) Bral1, a brain-specific link protein, colocalizing with the versican V2 isoform at the nodes of Ranvier in developing and adult mouse central nervous systems. *Mol. Cell. Neurosci.* **19**, 43-57.
Impact factor ²⁰⁰²: 4.519 Number of citations*: 83
38. Albinger-Hegyí, A., Hochreutener, B., Abdou, M.T., Hegyi, I., Dours-Zimmermann, M.T., Kurrer, M.O., Heitz, Ph.U. & **Zimmermann, D.R.** (2002) High frequency of t(14;18)-translocation breakpoints outside of major breakpoint and minor cluster regions in follicular lymphomas – improved PCR protocols for their detection. *Am. J. Pathol.* **160**, 823-832.
Impact factor ²⁰⁰²: 6.750 Number of citations*: 75 (Featured article)
39. von Bomhard, W., Pospischil, A., Richter, M., Kaps, S., Polkinghorne, A. & **Zimmermann, D.R.** (2002) Amoebic infections in cats with ocular disease. *Vet. Rec.* **150**, 556.
Impact factor ²⁰⁰²: 1.221 Number of citations*: 5
40. Padberg, B.C., Rodrigues, C. & **Zimmermann, D.R.** (2002) Molekularbiologischer Nachweis und Typisierung humaner Papilloma-Viren in der gynäkologischen Krebsvorsorge. *Schweiz. Med. Forum* **2**, 1002-1005.
Impact factor ²⁰⁰¹: - Number of citations*: 0
41. Pospischil, A., Thoma, R., Hilbe, M., Grest, P., **Zimmermann, D.** & Gebbers, J.O. (2002) Abortion in humans by chlamydia abortus. *Schweiz. Arch. Tierheilk.* **144**, 463-466.
Impact factor ²⁰⁰²: 0.398 Number of citations*: 35
42. Pospischil, A., Thoma, R., von Bomhard, W., Reitt, K., Cantieni, J., **Zimmermann, D.**, & Polkinghorne, A. (2002) Abortion in the cow by chlamydia psittaci. *Schweiz. Arch. Tierheilk.* **144**, 467-472.
Impact factor ²⁰⁰²: 0.398 Number of citations*: 10
43. von Bomhard, W., Polkinghorne, A., Lu, Z.H., Vaughan, L., Vögtlin, A., **Zimmermann, D.R.**, Spiess, B. & Pospischil, A. (2003) Detection of novel chlamydiae in cats with ocular disease. *Am. J. Vet. Res.* **64**, 1421-1428.
Impact factor ²⁰⁰³: 1.182 Number of citations*: 34
44. Westling, J., Gottschall, P.E., Thompson, V.P., Cockburn, A., Perides, G., **Zimmermann, D.R.** & Sandy, J.D. (2004) ADAMTS4 (Aggrecanase-1) cleaves human brain versican V2 at Glu405-Gln406 to generate glial hyaluronate binding protein (GHAP). *Biochem. J.* **377**, 787-795.
Impact factor ²⁰⁰⁴: 4.278 Number of citations*: 64

45. Rübber, A., Kempf, W., Kadin, M.E., **Zimmermann, D.R.** & Burg, G. (2004) Multilineage progression of genetically unstable tumor subclones in cutaneous T-cell lymphoma. *Exp. Dermatol.* **13**, 472–483.
Impact factor ²⁰⁰⁴: 1.707 Number of citations*: 32
46. Fehr, T., **Zimmermann, D.R.**, Wüthrich, R.P. & Ammann, P. (2004) A young renal transplant recipient with unexplained resting sinus tachycardia, hypertension and betablocker resistance. *Nephrol. Dial. Transpl.* **19**, 1646-1649.
Impact factor ²⁰⁰⁴: 2.840 Number of citations*: 0
47. Soldati, G., Lu, Z.H., Vaughan, L., Polkinghorne, A., **Zimmermann, D.R.**, Huder, J.B. & Pospischil, A. (2004) Detection of mycobacteria and chlamydiae in granulomatous inflammation of reptiles: a retrospective study. *Vet. Pathol.*, **41**, 388-397.
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