

CURRICULUM VITAE: WILFRIED ELLMEIER

Date of Birth: September 9, 1966
Place of Birth: Mödling
Nationality: Austrian
Acad. Degree: Mag.Dr. (Ph.D), Professor
Current Position: Full Professor of Immunobiology
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Main Research Interests

My long-term research interest is to characterize molecular mechanisms that regulate the development and function of T cells. Together with my laboratory I made important contributions to the transcriptional control of *Cd8* gene expression and identified that the transcription factor MAZR is an important regulator of CD8 expression as well as of CD4/CD8 lineage development. Moreover, I am interested in elucidating the roles of histone deacetylases (HDACs) in T cells and e.g. we recently identified that CD4⁺ T cell lineage integrity is regulated by HDAC1 and HDAC2. I have also a long-standing interest in revealing the role of Tec family kinases in the regulation of immune responses. In ongoing studies my team addresses topics like: (1) Transcriptional control of CD4/CD8 cell fate choice; (2) Transcription factor networks regulating peripheral T cell function; (3) Maintenance of T cell lineage identity, integrity and function. The experimental strategies to address our research interests include immunological tools, biochemical and molecular approaches, retroviral-mediated gene transduction into hematopoietic stem cells, and mouse molecular genetics tools.

Scientific Education and Career History

1985 University entrance qualification, HTL-Mödling, with distinction
1985 – 1990 Studies in Biochemistry, University of Vienna, with distinction
1989 – 1990 Diploma thesis at the Institute for Molecular Pathology (IMP) in Vienna
1990 – 1994 Doctoral studies, University of Vienna, with distinction; PhD Thesis performed at the Institute for Molecular Pathology (IMP) in Vienna
1995 – 1999 Postdoctoral Fellow in Dan Littman's laboratory, Skirball Institute, Howard Hughes Medical Institute, New York University Medical Center, New York, NY, USA
Since 2000 Group Leader, Institute of Immunology, University of Vienna
12/2002 Habilitation in Immunology, University of Vienna Medical School
2005 – 2007 Associate Professor (a.o.Univ.Prof), Medical University of Vienna
Since 07/2007 Full Professor of Immunobiology

Fellowships and Awards, Academy memberships

1993 EMBO "short-term" Fellowship, EMBO
1995 - 1997 Erwin-Schrödinger Postdoctoral Fellowship, FWF
1997 - 1999 Postdoctoral Fellowship of the Howard Hughes Medical Institute
2000 - 2002 APART Habilitation Fellowship, Austrian Academy of Sciences
06/2001 START Prize of the Austrian Science Fund (most prestigious prize in Austria for young scientist; similar to ERC Starting Grant)
11/2003 Habilitation prize "Verein zur Förderung von Wissenschaft und Forschung in den Neuen Universitätskliniken am AKH der Stadt Wien".
01/2005 Novartis prize 2004 in Biology
06/2005 "Förderungspreis für Wissenschaft", City of Vienna
12/2006 Researcher of the Month, MUW
2009 – 2012 Elected member of the "Junge Kurie" of the Austrian Academy of Sciences
Since 05/2012 Elected corresponding member of the Austrian Academy of Sciences

Supervision of Graduate Students and Postdoctoral Fellows

Since 2000 Supervisor of 7 Postdocs, 16 PhD students (11 already finished), 10 master students (8 already finished)

Teaching Activities (selected)

- Since 2008 Program coordinator of the MedUniWien PhD program “Immunology”. I established this thematic program within the general PhD program of the MedUniWien (it is one of the largest thematic programs): www.meduniwien.ac.at/phd-immunology
- Since 2010 Deputy speaker: FWF/MedUniWien PhD program “Inflammation and Immunity”

Organization of Scientific Meetings (membership in the steering and/or program committee)

- One of the three co-organizer of the Joint FEBS/EFIS international meeting “Inflammatory diseases and immune response: basic aspects, novel approaches and experimental models”, Vienna, Austria, 2010.
- Member of the scientific committee of the European Congress of Immunology 2012, Glasgow, UK.
- Member of the local scientific advisory committee of the European Macrophage and Dendritic Cell Society Meeting 2014, Vienna, Austria.
- Member of the local organizing committee of the European Congress of Immunology 2015, Vienna, Austria.

Institutional Responsibilities (Experience in Scientific Management and Organization)(selected)

- 2005 - 2009 Speaker and coordinator of the FWF SFB-F23 (Special Research Program)
- Since 07/2007 Head of the Division of Immunobiology at the Institute of Immunology
- Since 2008 Program coordinator of the MedUniWien PhD program “Immunology”.
- Since 2011 Speaker of the coordination board of the MedUniWien “Immunology Research Cluster (IRC)”: cluster.meduniwien.ac.at/irc

Commission of Trust

- 2000 - now Reviewer for journals, including Nature Immunology, Nature Medicine, Immunity, Journal of Experimental Medicine, EMBO Journal, Journal of Immunology, European Journal of Immunology, PLOS ONE, Immunology Letters, etc.
- 2000 - now Frequent reviewer for various funding agencies: MRC (UK), Telethon (Italien), The French National Research Agency (ANR), Dutch Reumafonds, Czech Science Foundation, Biotechnology and Biological Sciences Research Council (BBSRC; UK)
- 2005 - now Member: Austrian Academy of Sciences APART and DOC fellowship committee
- 2011 - 2012 Secretary of the Austrian Society of Allergology and Immunology
- 2011 - 2012 Member: “Akademierat” of the Austrian Academy of Sciences (ÖAW)
- 2011 - now EFIS (European Federation of Immunological Societies) representative in the Alliance for Biomedical Research in Europe
- 2014 Guest editor for Current Topics in Microbiology and Immunology (with Ichiro Taniuchi): "Transcriptional Control of Lineage Differentiation in Immune Cells".
- 2014 - now Editor of FEBS Letters
- 2015 Member of the Evaluation committee of ANR (French research agency)

Invited presentations to peer-reviewed, internationally established conferences and/or international advanced schools (selected)

- 2006, 2010, 2012: Talk at the Cold Spring Harbor „Gene Expression and Signaling in the Immune System“ Cold Spring Harbor, New York, USA.
- 2006, May: Invited talk at the Marie Curie Research Training Network minisymposium on immunological mouse models (Marie Curie RTN IMDEMI) Mainz, Germany.
- 2006, June: Invited talk at the 7th EFIS Tatra Immunology Conference.
- 2006, September: Invited talk at the 3rd Aegean conference on “gene regulation in lymphocyte development.
- 2007, March: Invited talk at the RIKEN workshop on “T cell development and transcription factors”, RIKEN, Yokohama, Japan.
- 2009, February: Invited talk at the Marie Curie Research Training Network workshop “NK defense and therapy” (Marie Curie Project RTN-CT) Vienna, Austria.
- 2012, May: Invited talk at the Marie Curie Initial Training Network kick-off meeting of the Hem_ID (HeMatopoietic cell Identity), Milano, Italy.
- 2012, November: Invited talk at the meeting “Decision in the Life of Immune cells” at the Weizmann Institute, Rehovot, Israel.
- 2013, June: Talk at the 6th International Workshop of Kyoto T Cell Conference, Kyoto Japan; part of the Global Thymus Network conference series
- 2014, November: Invited talk at the 4th international Conference of regulatory T cells and T helper subsets (China Treg 2014) conference, Shanghai, China

CV Wilfried Ellmeier (October 2015)

- *2015, April*: Talk at the Venice Thymus meeting, San Servolo Island, Italy; part of the Global Thymus Network conference series
- *2015 August*: Invited talk at the 5th Lower Saxony International Summer Academy in Immunology, Hannover, Germany

Memberships of Scientific Societies

- Austrian Society for Allergology and Immunology – ÖGAI
- Members of the Austrian Association of Molecular Life Sciences and Biotechnology (ÖGMBT)
- Elected corresponding member of the Austrian Academy of Sciences

Major Collaborations

- Ichiro Taniuchi, RIKEN Center for Integrative Medical Sciences (IMS-RCAI), Yokohama, Japan.
- Christian Seiser, Max F. Perutz Laboratories, Vienna, Austria
- Patrick Matthias, Friedrich Miescher Institute for Biomedical Research, Basel, Switzerland.
- Hilde Cheroutre, La Jolla Institute of Immunology, San Diego, CA, USA
- Takeshi Egawa, Washington University School of Medicine, St. Louis, MO, USA.
- Johan Auwerx, Ecole Polytechnique Fédérale de Lausanne (EPFL), Switzerland

Funding: All ongoing grants and funding of the PI (Funding ID)

Since the establishment of my own research group in 2000, I was able to finance my laboratory with 17 internationally peer-reviewed research grants with a total funding of approx. 5.4 Mill €. Among the research grants was also the highly competitive START prize 2001 of the Austrian Science Fund (1.1 Million €/5years; which is similar to an ERC Starting Grant). Current lab members (Division of Immunobiology) include 2 senior postdoctoral fellows/junior PIs (funded by research grants awarded to the senior postdocs), 4 PhD students, two master students (one financed by the grant from the senior postdoc) and one research technician. Current funding is provided by the following grants:

Ongoing grants

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|-------------------|--|
| 09/2007 - now | Austrian Science Fund (FWF), DK-W1212. Project title: Molecular analysis of immune cell development and activation. |
| 08/2011 - now | Austrian Science Fund (FWF), P23641. Project title: Member: Molecular analysis of the Function of the Transcription Factor MAZR in CD4 ⁺ T Lymphocytes and in Mast Cells. |
| 02/2014 - now | Austrian Science Fund (FWF), P26193. Project title: The role of HDAC1 and HDAC2 in CD4 ⁺ T cells. |
| 10/2015 – 09/2019 | H2020-MSCA-ITN-2015 MARIE SKŁODO-WSKA-CURIE ACTIONS Innovative Training Networks (ITN): “ENLIGHT-TEN” European Network Linking Informatics and Genomics of Helper T cells |

List of Publications

List of the 10 most important publications

- I have so far published 65 scientific papers (including 13 reviews) with a cumulative impact factor of 748,106 (IF value 2013) (11.689 IF/publication): www.ncbi.nlm.nih.gov/pubmed/?term=ellmeier
 - Total citation of all papers (excluding self-citations): 5504; h-index: 29 (Web of Science).
1. Ellmeier, W. et al. (1997). An Enhancer that Directs Lineage-Specific Expression of CD8 in Positively Selected Thymocytes and Mature T cells. **Immunity**, 7, 537-547.
 2. Ellmeier, W. et al. (1998). Multiple Developmental Stage-Specific Enhancers Regulate CD8 Expression In Developing Thymocytes and in Thymus-Independent T Cells. **Immunity**, 9, 485-496.
 3. Ellmeier, W.* et al. (2002). Combined deletion of CD8 locus cis-regulatory elements affects initiation but not maintenance of CD8 expression. **Immunity**, 5, 623-34. *corresponding author.
 4. Feik, N., Bilic, I., Tinhofner, J., Unger, B., Littman, D.R. and Ellmeier, W. (2005). Functional and Molecular Analysis of the Double-Positive Stage-specific CD8 Enhancer E8III During Thymocyte Development. **The Journal of Immunology**, 174, 1513-2.
 5. Bilic, I., Kösters, K., Unger, B., Sekimata, M., Hertweck, A., Maschek, R., Wilson, C.B. and Ellmeier, W. (2006). Negative regulation of CD8 expression via CD8 enhancer-mediated recruitment of the zinc finger protein MAZR. **Nature Immunology**, 7, 392-400.
 6. Raberger, J., Schebesta, A., Sakaguchi, S., Boucheron, N., Blomberg, E.M., Bergloef, A., Kolbe, T., Smith, C.I.E., Rüllicke, T. and Ellmeier, W. (2008). The Transcriptional Regulator PLZF Induces the Development of CD44-High Memory-Phenotype T Cells. **PNAS**, 105.17919.
 7. Sakaguchi S, Hombauer M, Bilic I, Naoe Y, Schebesta A, Taniuchi I, Ellmeier, W. (2010). The zinc-finger protein MAZR is part of the transcription factor network that controls the CD4 versus CD8 lineage fate of double-positive thymocytes. **Nature Immunology**, 11:442-8 (selected in the News & Views section).
 8. Grausenburger, R, Bilic, I., Boucheron, N., Zupkovitz, G., El-Housseiny, L., Tschismarov, R., Zhang, Y., Rembold, M., Gaisberger, M., Hartl, A., Epstein, M.M., Matthias, P., Seiser, C.*, Ellmeier, W.* (2010). Conditional deletion of HDAC1 in T cells leads to enhanced airway inflammation and increased Th2 cytokine production. **Journal of Immunology**, 185(6): 3489-97 (selected for “in this issue” section). (*shared senior-authorship).
 9. Hassan, H., Sakaguchi, S., Tenno, M., Kopf, A., Boucheron, N. Carpenter, A., Egawa, T., Taniuchi, I. Ellmeier, W. (2011) Cd8 enhancer E8I and Runx factors regulate CD8 α expression in activated CD8+ T cells. **PNAS**, 108(45):18330-5.
 10. Boucheron, N, Tschismarov, R, Goeschl, L, Moser, Mirjam, Lagger, S, Sakaguchi, S, Winter, Lenz, F, Vitko, D., Breitwieser, FP, Haust, L, Hassan, H, Bennett, KL, Colinge, J, Schreiner, W, Matthias, P, Egawa, T, Taniuchi, I, Matthias, P, Seiser, C* and Ellmeier, W.* (2014). CD4 T cell lineage integrity is controlled by the histone deacetylases HDAC1 and HDAC2. **Nature Immunology**, 15(5):439-48. (*shared senior-authorship).

List of all publications

1. Eckner, R., **Ellmeier, W.** and Birnstiel, M.L. (1991). Mature mRNA 3' end formation stimulates RNA export from the nucleus. *EMBO J.*, 10, 3513-3522.
2. **Ellmeier, W.**, Aguzzi, A., Kleiner, E., Kurzbauer, R. and Weith, A. (1992). Mutually exclusive expression of a helix-loop-helix gene and N-myc in human neuroblastomas and in normal development. *EMBO J.*, 11, 2563-2571.
3. **Ellmeier, W.** and Weith, A. (1995). Expression of Id3 during murine embryonic development. *Developmental Dynamics*, 203, 163-173.
4. Barnas, C., Kleiner, E., **Ellmeier, W.**, Henn, T., Brunner, C., Stapelton, P. and Weith, A. (1995). Megabasepair-sized grouped sets of microclones: a first generation physical map of chromosome 1pter - p35. *Genomics*, 29, 607-615.
5. **Ellmeier, W.**, Barnas, C., Kobra, A., Kleiner, E., Kurzbauer, R. and Weith, A. (1996). Cloning and Characterization of CpG islands of the Human Chromosome 1p36 Region. *Genomics*, 32, 155-158.
6. Deng, H.K., Liu, R., **Ellmeier, W.**, Choe, S., Unutmaz, D., Burkhardt, M., DiMarzio, P., Marmon, S., Sutton, R.E., Hill, C.M., Davis, C.B., Peiper, S.C., Schall, T.J., Littman, D.R. and Landau, N.R. (1996). Identification of a major co-receptor for primary isolates of HIV-1. *Nature*, 381, 661-660.
7. **Ellmeier, W.**, Sunshine, M.J., Losos, K., Hatam, F. and Littman, D.R. (1997). An Enhancer that Directs Lineage-Specific Expression of CD8 in Positively Selected Thymocytes and Mature T cells. *Immunity*, 7, 537-547.
8. **Ellmeier, W.**, Sunshine, M.J., Losos, K. and Littman, D.R. (1998). Multiple Developmental Stage-Specific Enhancers Regulate CD8 Expression In Developing Thymocytes and in Thymus-Independent T Cells. *Immunity*, 9, 485-496.
9. Sun, Z., Arendt, C.W., **Ellmeier, W.**, Schaeffer, E.M., Sunshine, M.J., Annes, J., Petrzilka, D., Kupfer, A., Schwartzberg, P.M. and Littman, D.R. (2000). PKC-theta is required for TCR-induced receptor-mediated T cell activation and induction of the NF-kappaB activation in mature but not in immature T lymphocytes. *Nature*, 404, 402-407.
10. **Ellmeier, W.**, Sunshine, M.J., Jung, S., Hatam, F., Xu, Y., Baltimore, D., Mano, H. and Littman, D.R. (2000). Severe B cell deficiency in mice lacking the Tec kinase family members Tec and Btk. *The Journal of Experimental Medicine*, 192, 1611-24.
11. Donnadieu, E., Lang, V., Michel, F., **Ellmeier, W.**, Acuto, O., Bismuth, G. and Trautmann, A. (2001). Differential roles of Lck and Itk in the interaction between T lymphocytes and antigen-presenting cells. *The Journal of Immunology*, 166, 5540-9.
12. Keppler, O.T., Welte, F.J., Ngo, T.A., Kathryn S. Patton, K.S., Tsou, C.L., Abbey, N.W., Sharkey, M.E., Yun You, Y., Scarborough, J.D., **Ellmeier, W.**, Littman, D.R., Stevenson, M., Charo, I.F., Herndier, B.G., Speck, R.F., and Goldsmith, M.A. (2002). Progress Toward a Human CD4/CCR5-Transgenic Rat Model for *de Novo* Infection by Human Immunodeficiency Virus Type 1. *The Journal of Experimental Medicine*, 195, 719-36.
13. **Ellmeier, W.**, Sunshine, M.J., Maschek, R. and Littman, D.R. (2002). Combined deletion of CD8 locus cis-regulatory elements affects initiation but not maintenance of CD8 expression. *Immunity*, 5, 623-34.
14. Atkinson, B., **Ellmeier, W.**, Watson, S.P. (2003). Tec regulates platelet activation by GPVI in the absence of Btk, *Blood*, 102, 3592-9.
15. Madakamutil, L.T., Gangadharan, D., Chrtisten, U., Lena, C.J., Wang-Zhu, Y., Attinger, A., **Ellmeier, W.**, von Herrath, M.G., Jensen, P., Littman, D.R. and Cheroutre, H. (2004). CD8aa+ primary effector cell selectively differentiate into memory CD8 T cells. *Science*, 304, 590-3.
16. Schmidt, U., van den Akker, E., Parren-van Amelsvoor, M., Litos, G., de Bruijn, M., Hendriks, R.W., **Ellmeier, W.**, Beug, H. and von Lindern, M. (2004) Btk is required for an efficient response to erythropoietin and for SCF-controlled protection against TRAIL in erythroid progenitors. *Journal of Experimental Medicine*. 199, 785-95.
17. Yu, P.W., Tabuchi, R.S., Kato, R.M., Astrakhan, A., Humblet-Baron, S., Kipp, K., Chae, K., **Ellmeier, W.**, Witte, O.N., Rawlings, D.J. (2004). Sustained correction of B cell development and function in a murine model of X-linked agammaglobulinemia (XLA) using retroviral-mediated gene transfer. *Blood*. 104, 1281-90.
18. Feik, N., Bilic, I., Tinhofer, J., Unger, B., Littman, D.R. and **Ellmeier, W.** (2005). Functional and Molecular Analysis of the Double-Positive Stage-specific CD8 Enhancer E8III During Thymocyte Development. *The Journal of Immunology*, 174, 1513-2.
19. Sarafova, S.D., Erman, B., Yu, O., Van Laethem, F., Guinter, T., Sharrow, S.O., Feigenbaum, L., Wildt, F.L., **Ellmeier, W.** and Singer, A. (2005). Transcriptional Modulation of Coreceptor Expression during

- Positive Selection Dictates Lineage Fate Independently of TCR Specificity and Coreceptor Protein Identity, *Immunity*, 23:75-87.
20. Marquez, M.E., Ellmeier, W., Sanchez-Guajardo, V., Freitas, A.A., Acuto, O. and Di Bartolo, V. CD8 T cell sensory adaptation dependent on TCR avidity for self-antigens. (2005). *The Journal of Immunology*, 175, 7388-97.
 21. Bilic, I., Kösters, K., Unger, B., Sekimata, M. Hertweck, A., Maschek, R., Wilson, C.B. and **Ellmeier, W.** (2006). Negative regulation of CD8 expression via CD8 enhancer-mediated recruitment of the zinc finger protein MAZR. *Nature Immunology*, 7, 392-400.
 22. Koesters, C., Unger, B. Bilic, I., Bluml, S., Lichtenberger, B., Schreiber, M., Stockl, J. and **Ellmeier, W.** (2007). Regulation of dendritic cell differentiation, maturation and subset distribution by the zinc finger protein CTCF. *Immunology Letters*, 109, 165-74
 23. Taschner, S., Koesters, C., Platzer, B., Jörgl, A., **Ellmeier, W.**, Benesch, T. and Strobl, H. (2007). Downregulation of RXR expression is essential for neutrophil development from granulocyte/monocyte progenitors. *Blood*, 109, 971-9.
 24. Park JH, Adoro S, Lucas PJ, Sarafova SD, Alag AS, Doan LL, Erman B, Liu X, **Ellmeier W**, Bosselut R, Feigenbaum L, Singer A. (2007). 'Coreceptor tuning': cytokine signals transcriptionally tailor CD8 coreceptor expression to the self-specificity of the TCR. *Nat Immunol*. 10:1049-59
 25. Hantschel O, Rix U, Schmidt U, Burckstummer T, Kneidinger M, Schutze G, Colinge J, Bennett KL, **Ellmeier W**, Valent P, Superti-Furga G. (2007). The Btk tyrosine kinase is a major target of the Bcr-Abl inhibitor dasatinib. *PNAS*, 104:13283-8.
 26. Kneidinger M, Schmidt U, Rix U, Gleixner KV, Vales A, Baumgartner C, Lupinek C, Weghofer M, Bennett KL, Herrmann H, Schebesta A, Thomas WR, Vrtala S, Valenta R, Lee FY, **Ellmeier W**, Superti-Furga G, Valent P. (2008). The effects of dasatinib on IgE receptor-dependent activation and histamine release in human basophils. *Blood*, 111, 3097-107.
 27. Shinohara M, Koga T, Okamoto K, Sakaguchi S, Arai K, Yasuda H, Takai T, Kodama T, Morio T, Geha RS, Kitamura D, Kurosaki T, **Ellmeier W**, Takayanagi H. (2008). Tyrosine kinases Btk and Tec regulate osteoclast differentiation by linking RANK and ITAM signals. *Cell*, 132, 794-806.
 28. Melcher M, Unger B, Schmidt U, Rajantie IA, Alitalo K, **Ellmeier W.** (2008). Essential Roles for the Tec Family Kinases Tec and Btk in M-CSF Receptor Signaling Pathways That Regulate Macrophage Survival. *Journal of Immunology*, 180: 8048-56
 29. Raberger, J., Boucheron, N., Sakaguchi, S., Penninger, J.M. and **Ellmeier, W.** (2008). Impaired T cell development in the absence of Vav1 and Itk. *Eur. J. Immunol.*, 38, 3530-42.
 30. Raberger, J., Schebesta, A., Sakaguchi, S. Boucheron, N., Blomberg, E.M., Bergloef, A., Kolbe, T., Smith, C.I.E., Rüllicke, T, and **Ellmeier, W.** (2008). The Transcriptional Regulator PLZF Induces the Development of CD44-High Memory-Phenotype T Cells. *PNAS*, 105.17919.
 31. Blomberg KE, Boucheron N, Lindvall JM, Yu L, Raberger J, Berglöf A, **Ellmeier W**, Smith CE. (2009). Transcriptional signatures of Itk-deficient CD3+, CD4+ and CD8+ T-cells. *BMC Genomics*. 10:233
 32. Schmidt, U., Abramova, A., Boucheron, N., Eckelhart, E., Schebesta, A., Bilic, I., Kneidinger, M., Unger, B., Hammer, M., Sibilia, M, Valent, P. and **Ellmeier, W.** (2009). The protein tyrosine kinase Tec regulates mast cell function. *Eur. J. Immunol*, , 39, 3228-38
 33. Sakaguchi S, Hombauer M, Bilic I, Naoe Y, Schebesta A, Taniuchi I, **Ellmeier W.** (2010). The zinc-finger protein MAZR is part of the transcription factor network that controls the CD4 versus CD8 lineage fate of double-positive thymocytes. *Nature Immunol*. 11:442-8
 34. Grausenburger, R, Bilic, I., Boucheron, N., Zupkovitz, G., El-Housseiny, L., Tschisnarov, R., Zhang, Y., Rembold, M., Gaisberger, M., Hartl, A., Epstein, M.M., Matthias, P., Seiser, C., **Ellmeier, W.** (2010). Conditional deletion of HDAC1 in T cells leads to enhanced airway inflammation and increased Th2 cytokine production. *Journal of Immunology*, 185(6): 3489-97.
 35. Boucheron N, Sharif O, Schebesta A, Croxford A, Raberger J, Schmidt U, Vigl B, Bauer J, Bankoti R, Lassmann H, Epstein MM, Knapp S, Waisman A, **Ellmeier W.** (2010). The Protein Tyrosine Kinase Tec Regulates a CD44highCD62L- Th17 Subset. *Journal of Immunology*, 185(9): 5111-9
 36. Collins, A., Hewitt, S.L., Chaumeil, J., Sellars, M., Micsinai, M., Allinne, M., Parisi, F., Nora, E., Bolland, D.J., Corcoran, A.E., Kluger, Y., Bosselut, R., **Ellmeier, W.**, Chong, R.M.W., Littman, D.R. and Skok, J.A. (2011) RUNX transcription factor-mediated association of Cd4 and Cd8 enables coordinate gene regulation. *Immunity*, 34(3):303-14.
 37. Hassan, H., Sakaguchi, S., Tenno, M., Kopf, A., Boucheron, N. Carpenter, A., Egawa, T., Taniuchi, I. **Ellmeier, W.** (2011) Cd8 enhancer E8I and Runx factors regulate CD8 α expression in activated CD8+ T cells. *PNAS*, 108(45): 18330-5.

38. Ormsby, T., Schlecker, E., Ferdin, J., Tessarz, A.S., Angelisová, P. Köprülü, A.D., Borte, M., Warnatz, K., Schulze, I., **Ellmeier, W.** Hořejší, V. and Cerwenka, A. (2011) Btk is a positive regulator in the TREM-1/DAP12 signaling pathway. *Blood*, 118(4):936-45.
39. Todoric, J., Strobl, B., Boucheron, B., Bayer, M., Bilban, M. **Ellmeier, W.**, Müller, M. Wagner, O., Pospisilik, J.A. Esterbauer, H. (2011) Cross-talk between Interferon- γ and Hedgehog signaling regulates adipogenesis. *Diabetes*, 60(6):1668-76.
40. Xanthos, D.N., Gaderer, S., Drdla, R., Nuro, E., Abramova, A., **Ellmeier, W.**, Sandkühler, J. (2011) Central nervous system mast cells in peripheral inflammation. *Mol Pain*, 7:42.
41. Köprülü, A.D., Kastner, R., Wienerroither, S., Lassnig, S., Putz, E.M., Majer, O., Reutterer, B., Sexl, V., Kuchler, K., Müller, M., Decker, W. and **Ellmeier, W.** (2013) The tyrosine kinase Btk regulates the macrophage response to *Listeria monocytogenes* infection. *PLOS ONE*;8(3):e60476.
42. Mucida M, Husain MM, Muroi S, van Wijk F, Shinnakasu R, Naoe Y, Reis BS, Huang Y, Lambolez F, Docherty M, Attinger A, Shui JW, Kim G, Lena CJ, Sakaguchi S, Miyamoto C, Wang P, Atarashi K, Park Y, Nakayama T, Honda K, **Ellmeier W**, Kronenberg M, Taniuchi I and Cheroutre, H. (2013) Transcriptional Reprogramming of Mature CD4 T helper Cells generates distinct MHC class II restricted Cytotoxic T Lymphocytes. *Nature Immunology*, doi: 10.1038/ni.2523
43. Abramova, A., Sakaguchi, S., Schebesta, A., Hassan, H., Boucheron, N., Valent, P., Roers, A. and **Ellmeier, W.** (2013) The transcription factor MAZR preferentially acts as a transcriptional repressor in mast cells and plays a minor role in the regulation of effector functions in response to Fc ϵ RI stimulation. *PLOS ONE*, 8(10):e77677.
44. Boucheron, N, Tschismarov, R, Goeschl, L, Moser, Mirjam, Lagger, S, Sakaguchi, S, Winter, Lenz, F, Vitko, D., Breitwieser, FP, Haust, L, Hassan, H, Bennett, KL, Colinge, J, Schreiner, W, Matthias, P, Egawa, T, Taniuchi, I, Matthias, P, Seiser, C and **Ellmeier, W.** (2014) CD4 T cell lineage integrity is controlled by the histone deacetylases HDAC1 and HDAC2. *Nature Immunology*, 15(5):439-48.
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