

PERSONAL INFORMATION

Name: Annette Oxenius
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Date of birth: November 10, 1968
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Marital status: married
Children: One daughter (born 7.9.2009)

EDUCATION

1993 Diploma in Biochemistry, University of Zurich, Switzerland
1997 Dr. sc. nat ETH, Swiss Federal Institute of Technology, Zürich, Switzerland

CURRENT POSTION

2012- Full Professor of Immunology at the Institute of Microbiology, ETH Zurich

PREVIOUS POSITIONS

1997-1998 Postdoctoral fellow, Institute for Experimental Immunology, University Hospital Zurich
1999-2002 Postdoctoral fellow (funded by EMBO, the "Schweizerische Stiftung für medizinisch-biologische Stipendien" and the Novartis Foundation) at the Nuffield Department of Medicine, John Radcliffe Hospital in Oxford, UK.
2002-2007 Assistant Professor for Immunology at the Institute of Microbiology, ETHZ, Zürich, Switzerland
2007-2012 Associate Professor of Immunology at the Institute of Microbiology, ETHZ, Zürich, Switzerland

FELLOWSHIPS AND AWARDS

Diploma thesis: 'Semesterprämie' of the philosophical faculty II of the University of Zürich
Diploma exam: Summa cum laude
PhD thesis: Silver medal of the ETH Zürich
1999-2000: EMBO long-term fellowship
2001-2002: SNF Postdoctoral Fellowship from the Swiss National Science Foundation
2002: "Förderpreis" of the Swiss Society of Microbiology
2006: "Robert-Koch-Förderpreis" of the Robert-Koch-Gesellschaft
2006 EMBO Young Investigator Award
2017: ETH "Goldene Eule" Award for teaching
2022: Cloëtta-Preis
2023: Election as member of Leopoldina
2023: Election as EMBO member

SUPERVISION OF GRADUATE STUDENTS AND POSTDOCTORAL FELLOWS

2002- Direct supervision of 10 Postdocs, 50 PhD students, >50 Master students
Institute of Microbiology, ETHZ, Zürich, Switzerland

IMPORTANT CONTRIBUTIONS TO CAREERS OF SCIENTISTS

Three former members of my laboratory are currently holding professorial positions at academic institutions in Switzerland. Many former members of my laboratory have pursued postdoctoral careers and are either still on this trajectory or have secured positions in industry with either a focus in research and development or in management / marketing.

TEACHING ACTIVITIES

- 2002- Lectures in biology and in immunology at ETHZ, Zürich, Switzerland
- 2002- Master courses and practical courses in immunology at ETHZ, Zürich, Switzerland
- 2017- Basic biology lectures for medical curriculum and D-HEST at ETHZ, Zürich, Switzerland

ORGANISATION OF SCIENTIFIC MEETINGS

- 2002- Yearly organizer of the "Wolfsberg meeting" (scientific exchange of all immunology PhD students in Switzerland)
- 2006 President of the organizing committee of the annual meeting of the Swiss Society for Allergology and Immunology (SGAI) 2006 in Zurich
- 2010 Member of the organizing committee "DC2010", Lugano, Switzerland
- 2012 Member of the organizing committee of the European Congress of Immunology, Glasgow, 2012
- 2017 Co-organizer of Systlms (Systems Biology of Adaptive Immunity) conference, Monte Verità, Ascona, Switzerland, 2017
- 2021 Member of the scientific advisory board of the annual congress of the Swiss Society of Allergology and Immunology (Zurich)
- 2023 Interdepartmental Life Science Retreat ETH Zurich

INSTITUTIONAL RESPONSIBILITIES

- From August 2025: Vice President Research ETHZ
- 2020-2022 Chair Department of Biology, ETHZ
- 2019-2020 Vice Chair Department of Biology, ETHZ
- 2016-2018 Deputy Head of the Institute of Microbiology, ETHZ, Zürich, Switzerland
- 2016-2020 Member of the "Doktoratsausschuss" ETHZ
- 2013-2021 Member and head (since 2017) of sub commission "Life Sciences" of the ETHZ Research Commission
- 2013-2019 Director of the Microbiology and Immunology (MIM) PhD program Zurich
- 2013-2016 Head of the Institute of Microbiology, ETHZ, Zürich, Switzerland

MEMBERSHIPS OF SCIENTIFIC SOCIETIES

- 2013-2019 Member of the steering committee of the Swiss Society of Allergology and Immunology (SGAI)
- 2014-2019 Member of the steering committee "Verein Forschung für Leben"
- 2014-2016 Member of the American Association of Immunologists

OUTREACH

- Member of the advisory board of the Swiss National Scientific COVID-19 Task Force
- Member of the "Verein Forschung für Leben"
- Participation at the Science City activities (public information about research activities at ETHZ)
- Participation at "ETH Unterwegs" (information event for CH high schools)
- Participation at the "national future days" (information and hand-on event for CH pupils interested in MINT topics)

PUBLICATION RECORD

- >240 peer-reviewed publications, 4 book chapters
- H-index: 78 (September 2025, Google Scholar)
- Total citations: 24383 (September 2025, Google Scholar)

Complete list of publications

1. Bachmann, M. F., **A. Oxenius**, T. W. Mak, and R. M. Zinkernagel. 1995. T cell development in CD8^{-/-} mice. Thymic positive selection is biased toward the helper phenotype. *J Immunol* 155: 3727-3733.
2. Bachmann, M. F., **A. Oxenius**, H. Pircher, H. Hengartner, P. A. Ashton-Richardt, S. Tonegawa, and R. M. Zinkernagel. 1995. TAP1-independent loading of class I molecules by exogenous viral proteins. *Eur J Immunol* 25: 1739-1743.
3. **Oxenius, A.**, M. F. Bachmann, P. G. Ashton-Rickardt, S. Tonegawa, R. M. Zinkernagel, and H. Hengartner. 1995. Presentation of endogenous viral proteins in association with major histocompatibility complex class II: on the role of intracellular compartmentalization, invariant chain and the TAP transporter system. *Eur J Immunol* 25: 3402-3411.
4. Kalinke, U., E. M. Bucher, B. Ernst, **A. Oxenius**, H. P. Roost, S. Geley, R. Kofler, R. M. Zinkernagel, and H. Hengartner. 1996. The role of somatic mutation in the generation of the protective humoral immune response against vesicular stomatitis virus. *Immunity* 5: 639-652.
5. **Oxenius, A.**, K. A. Campbell, C. R. Maliszewski, T. Kishimoto, H. Kikutani, H. Hengartner, R. M. Zinkernagel, and M. F. Bachmann. 1996. CD40-CD40 ligand interactions are critical in T-B cooperation but not for other anti-viral CD4⁺ T cell functions. *J Exp Med* 183: 2209-2218.
6. Bachmann, M. F., **A. Oxenius**, D. E. Speiser, S. Mariathasan, H. Hengartner, R. M. Zinkernagel, and P. S. Ohashi. 1997. Peptide-induced T cell receptor down-regulation on naive T cells predicts agonist/partial agonist properties and strictly correlates with T cell activation. *Eur J Immunol* 27: 2195-2203.
7. Oehen, S., K. Brduscha-Riem, **A. Oxenius**, and B. Odermatt. 1997. A simple method for evaluating the rejection of grafted spleen cells by flow cytometry and tracing adoptively transferred cells by light microscopy. *J. Immunol. Methods* 207: 33-42.
8. **Oxenius, A.**, and M. F. Bachmann. 1997. Similar ligand densities required for restimulation and effector function of cytotoxic T cells. *Cell Immunol* 179: 16-21.
9. **Oxenius, A.**, M. F. Bachmann, D. Mathis, C. Benoist, R. M. Zinkernagel, and H. Hengartner. 1997. Functional in vivo MHC class II loading by endogenously synthesized glycoprotein during viral infection. *J Immunol* 158: 5717-5726.
10. Tourne, S., T. Miyazaki, **A. Oxenius**, L. Klein, T. Fehr, B. Kyewski, C. Benoist, and D. Mathis. 1997. Selection of a broad repertoire of CD4⁺ T cells in H-2Ma0/0 mice. *Immunity* 7: 187-195.
11. Bachmann, M. F., M. Salzman, **A. Oxenius**, and P. S. Ohashi. 1998. Formation of TCR dimers/trimers as a crucial step for T cell activation. *Eur J Immunol* 28: 2571-2579.
12. Bachmann, M. F., R. M. Zinkernagel, and **A. Oxenius**. 1998. Immune responses in the absence of costimulation: viruses know the trick. *J Immunol* 161: 5791-5794.
13. **Oxenius, A.**, M. F. Bachmann, R. M. Zinkernagel, and H. Hengartner. 1998. Virus-specific MHC-class II-restricted TCR-transgenic mice: effects on humoral and cellular immune responses after viral infection. *Eur J Immunol* 28: 390-400.
14. **Oxenius, A.**, S. Oehen, D. Moskophidis, H. Pircher, H. Hengartner, and R. M. Zinkernagel. 1998. Correction: Moskophidis, D., Laine, E. and Zinkernagel, R. M.: Peripheral clonal deletion of antiviral memory CD8⁺ T cells. *Eur. J. Immunol.* 28: 2978-2979.
15. **Oxenius, A.**, R. M. Zinkernagel, and H. Hengartner. 1998. Comparison of activation versus induction of unresponsiveness of virus-specific CD4⁺ and CD8⁺ T cells upon acute versus persistent viral infection. *Immunity* 9: 449-457.
16. **Oxenius, A.**, R. M. Zinkernagel, and H. Hengartner. 1998. CD4⁺ T-cell induction and effector functions: a comparison of immunity against soluble antigens and viral infections. *Adv Immunol* 70: 313-367.
17. Williams, G. S., **A. Oxenius**, H. Hengartner, C. Benoist, and D. Mathis. 1998. CD4⁺ T cell responses in mice lacking MHC class II molecules specifically on B cells. *Eur J Immunol* 28: 3763-3772.
18. Bachmann, M. F., B. R. Wong, R. Josien, R. M. Steinman, **A. Oxenius**, and Y. Choi. 1999. TRANCE, a tumor necrosis factor family member critical for CD40 ligand-independent T helper cell activation. *J Exp Med* 189: 1025-1031.
19. **Oxenius, A.**, U. Karrer, R. M. Zinkernagel, and H. Hengartner. 1999. IL-12 is not required for induction of type 1 cytokine responses in viral infections. *J Immunol* 162: 965-973.
20. **Oxenius, A.**, M. M. Martinic, H. Hengartner, and P. Klenerman. 1999. CpG-containing oligonucleotides are efficient adjuvants for induction of protective antiviral immune responses with T-cell peptide vaccines. *J Virol* 73: 4120-4126.

21. Kalinke, U., **A. Oxenius**, C. Lopez-Macias, R. M. Zinkernagel, and H. Hengartner. 2000. Virus neutralization by germ-line vs. hypermutated antibodies. *Proc Natl Acad Sci U S A* 97: 10126-10131.
22. Karrer, U., C. Lopez-Macias, **A. Oxenius**, B. Odermatt, M. F. Bachmann, U. Kalinke, H. Bluethmann, H. Hengartner, and R. M. Zinkernagel. 2000. Antiviral B cell memory in the absence of mature follicular dendritic cell networks and classical germinal centers in TNFR1-/- mice. *J Immunol* 164: 768-778.
23. Kopf, M., A. J. Coyle, N. Schmitz, M. Barner, **A. Oxenius**, A. Gallimore, J. C. Gutierrez-Ramos, and M. F. Bachmann. 2000. Inducible costimulator protein (ICOS) controls T helper cell subset polarization after virus and parasite infection. *J Exp Med* 192: 53-61.
24. Maloy, K. J., C. Burkhardt, T. M. Junt, B. Odermatt, **A. Oxenius**, L. Piali, R. M. Zinkernagel, and H. Hengartner. 2000. CD4(+) T cell subsets during virus infection. Protective capacity depends on effector cytokine secretion and on migratory capability. *J Exp Med* 191: 2159-2170.
25. Medana, I. M., A. Gallimore, **A. Oxenius**, M. M. Martinic, H. Wekerle, and H. Neumann. 2000. MHC class I-restricted killing of neurons by virus-specific CD8(+) T lymphocytes is effected through the Fas/FasL, but not the perforin pathway. *Eur J Immunol* 30: 3623-3633.
26. **Oxenius, A.**, D. A. Price, P. J. Easterbrook, C. A. O'Callaghan, A. D. Kelleher, J. A. Whelan, G. Sontag, A. K. Sewell, and R. E. Phillips. 2000. Early highly active antiretroviral therapy for acute HIV-1 infection preserves immune function of CD8+ and CD4+ T lymphocytes. *Proc Natl Acad Sci U S A* 97: 3382-3387.
27. Phillips, R. E., **A. Oxenius**, D. A. Price, and C. R. Bangham. 2000. AIDS: the evolving story. *Trends Microbiol* 8: 147-148. _00001706_00001706.
28. Price, D. A., **A. Oxenius**, P. E. Easterbrook, C. A. O'Callaghan, A. D. Kelleher, J. A. whelan, G. Sontag, A. K. Sewell, and P. R. E. 2000. Highly active antiretroviral therapy for primary HIV-1 infection preserves immune function of virus-specific T lymphocytes. *Q. J. Med.* 93: 769-770.
29. Sewell, A. K., D. A. Price, **A. Oxenius**, A. D. Kelleher, and R. E. Phillips. 2000. Cytotoxic T lymphocyte responses to human immunodeficiency virus: control and escape. *Stem Cells* 18: 230-244.
30. Ciurea, A., L. Hunziker, M. M. Martinic, **A. Oxenius**, H. Hengartner, and R. M. Zinkernagel. 2001. CD4+ T-cell-epitope escape mutant virus selected in vivo. *Nat Med* 7: 795-800.
31. Karrer, U., **A. Oxenius**, R. Phillips, and P. Klenerman. 2001. Memory T cells: total recall or just a sense of deja vu? *Nat Immunol* 2: 991-993.
32. Kelleher, A. D., B. L. Booth, Jr., A. K. Sewell, **A. Oxenius**, V. Cerundolo, A. J. McMichael, R. E. Phillips, and D. A. Price. 2001. Effects of retroviral protease inhibitors on proteasome function and processing of hiv-derived mhc class i-restricted cytotoxic t lymphocyte epitopes. *AIDS Res Hum Retroviruses* 17: 1063-1066.
33. **Oxenius, A.**, S. Fidler, M. Brady, S. J. Dawson, K. Ruth, P. J. Easterbrook, J. N. Weber, R. E. Phillips, and D. A. Price. 2001. Variable fate of virus-specific CD4(+) T cells during primary HIV-1 infection. *Eur J Immunol* 31: 3782-3788.
34. **Oxenius, A.**, H. F. Gunthard, B. Hirschel, S. Fidler, J. N. Weber, P. J. Easterbrook, J. I. Bell, R. E. Phillips, and D. A. Price. 2001. Direct ex vivo analysis reveals distinct phenotypic patterns of HIV- specific CD8(+) T lymphocyte activation in response to therapeutic manipulation of virus load. *Eur J Immunol* 31: 1115-1121.
35. **Oxenius, A.**, D. A. Price, S. J. Dawson, T. Tun, P. J. Easterbrook, R. E. Phillips, and A. K. Sewell. 2001. Cross-staining of cytotoxic T lymphocyte populations with peptide-MHC class I multimers of natural HIV-1 variant antigens. *Aids* 15: 121-122.
36. **Oxenius, A.**, S. Yerly, E. Ramirez, R. E. Phillips, D. A. Price, and L. Perrin. 2001. Distribution of functional HIV-specific CD8 T lymphocytes between blood and secondary lymphoid organs after 8-18 months of antiretroviral therapy in acutely infected patients. *Aids* 15: 1653-1656.
37. Tolfvenstam, T., **A. Oxenius**, D. A. Price, B. L. Shacklett, H. M. Spiegel, K. Hedman, O. Norbeck, M. Levi, K. Olsen, M. Kantzanou, D. F. Nixon, K. Broliden, and P. Klenerman. 2001. Direct Ex Vivo Measurement of CD8(+) T-Lymphocyte Responses to Human Parvovirus B19. *J Virol* 75: 540-543.
38. Douek, D. C., J. M. Brenchley, M. R. Betts, D. R. Ambrozak, B. J. Hill, Y. Okamoto, J. P. Casazza, J. Kuruppu, K. Kunstman, S. Wolinsky, Z. Grossman, M. Dybul, **A. Oxenius**, D. A. Price, M. Connors, and R. A. Koup. 2002. HIV preferentially infects HIV-specific CD4+ T cells. *Nature* 417: 95-98.
39. Fidler, S., **A. Oxenius**, M. Brady, J. Clarke, I. Cropley, A. Babiker, H. T. Zhang, D. Price, R. Phillips, and J. Weber. 2002. Virological and immunological effects of short-course antiretroviral therapy in primary HIV infection. *Aids* 16: 2049-2054.

40. Glick, M., D. A. Price, A. L. Vuidepot, T. B. Andersen, S. L. Hutchinson, B. Laugel, A. K. Sewell, J. M. Boulter, P. R. Dunbar, V. Cerundolo, **A. Oxenius**, J. I. Bell, W. G. Richards, and B. K. Jakobsen. 2002. Novel CD8+ T Cell Antagonists Based on beta 2-Microglobulin. *J Biol Chem* 277: 20840-20846.
41. Klenerman, P., T. Tolfvenstam, D. A. Price, D. F. Nixon, K. Broliden, and **A. Oxenius**. 2002. T lymphocyte responses against human parvovirus B19: small virus, big response. *Pathol Biol (Paris)* 50: 317-325.
42. **Oxenius, A.**, B. K. Jakobsen, P. J. Easterbrook, J. M. Boulter, T. Tun, A. Waters, J. Agudelo, M. Barnardo, R. E. Phillips, and D. A. Price. 2002. Complete mapping of a novel HLA A*6801-restricted HIV-1 Tat epitope directly with a rapid modified enzyme-linked immunospot assay. *Aids* 16: 1285-1287.
43. **Oxenius, A.**, A. R. McLean, M. Fischer, D. A. Price, S. J. Dawson, R. Hafner, C. Schneider, H. Joller, B. Hirschel, R. E. Phillips, R. Weber, and H. F. Gunthard. 2002. Human immunodeficiency virus-specific CD8(+) T-cell responses do not predict viral growth and clearance rates during structured intermittent antiretroviral therapy. *J Virol* 76: 10169-10176.
44. **Oxenius, A.**, D. A. Price, S. J. Dawson, H. F. Gunthard, M. Fischer, L. Perrin, E. Ramirez, C. Fagard, B. Hirschel, G. Scullard, J. N. Weber, A. R. McLean, and R. E. Phillips. 2002. Residual HIV-specific CD4 and CD8 T cell frequencies after prolonged antiretroviral therapy reflect pretreatment plasma virus load. *Aids* 16: 2317-2322.
45. **Oxenius, A.**, D. A. Price, H. F. Gunthard, S. J. Dawson, C. Fagard, L. Perrin, M. Fischer, R. Weber, M. Plana, F. Garcia, B. Hirschel, A. McLean, and R. E. Phillips. 2002. Stimulation of HIV-specific cellular immunity by structured treatment interruption fails to enhance viral control in chronic HIV infection. *Proc Natl Acad Sci U S A* 99: 13747-13752.
46. **Oxenius, A.**, A. K. Sewell, S. J. Dawson, H. F. Gunthard, M. Fischer, G. M. Gillespie, S. L. Rowland-Jones, C. Fagard, B. Hirschel, R. E. Phillips, and D. A. Price. 2002. Functional discrepancies in HIV-specific CD8+ T-lymphocyte populations are related to plasma virus load. *J Clin Immunol* 22: 363-374.
47. Fagard, C., M. Le Braz, H. Gunthard, H. H. Hirsch, M. Egger, P. Vernazza, E. Bernasconi, A. Telenti, C. Ebnother, **A. Oxenius**, T. Perneger, L. Perrin, and B. Hirschel. 2003. A controlled trial of granulocyte macrophage-colony stimulating factor during interruption of HAART. *Aids* 17: 1487-1492.
48. Fagard, C., **A. Oxenius**, H. Gunthard, F. Garcia, M. Le Braz, G. Mestre, M. Battegay, H. Furrer, P. Vernazza, E. Bernasconi, A. Telenti, R. Weber, D. Leduc, S. Yerly, D. Price, S. J. Dawson, T. Klimkait, T. V. Perneger, A. McLean, B. Clotet, J. M. Gatell, L. Perrin, M. Plana, R. Phillips, and B. Hirschel. 2003. A prospective trial of structured treatment interruptions in human immunodeficiency virus infection. *Arch Intern Med* 163: 1220-1226.
49. Karrer, U., S. Sierro, M. Wagner, **A. Oxenius**, H. Hengel, U. H. Koszinowski, R. E. Phillips, and P. Klenerman. 2003. Memory inflation: continuous accumulation of antiviral CD8+ T cells over time. *J Immunol* 170: 2022-2029.
50. **Oxenius, A.**, and B. Hirschel. 2003. Structured treatment interruptions in HIV infection: benefit or disappointment? *Expert Rev. Anti-infect. Ther.* 1: 129-139.
51. Price, D. A., G. Scullard, **A. Oxenius**, R. Braganza, S. A. Beddows, S. Kazmi, J. R. Clarke, G. E. Johnson, J. N. Weber, and R. E. Phillips. 2003. Discordant outcomes following failure of antiretroviral therapy are associated with substantial differences in human immunodeficiency virus-specific cellular immunity. *J Virol* 77: 6041-6049.
52. Bachmann, M. F., K. Schwarz, P. Wolint, E. Meijerink, S. Martin, V. Manolova, and **A. Oxenius**. 2004. Cutting Edge: Distinct Roles for T Help and CD40/CD40 Ligand in Regulating Differentiation of Proliferation-Competent Memory CD8+ T Cells. *J Immunol* 173: 2217-2221.
53. Ciuffi, A., G. Bleiber, M. Munoz, R. Martinez, C. Loeuillet, M. Rehr, M. Fischer, H. F. Gunthard, **A. Oxenius**, P. Meylan, S. Bonhoeffer, D. Trono, and A. Telenti. 2004. Entry and transcription as key determinants of differences in CD4 T-cell permissiveness to human immunodeficiency virus type 1 infection. *J Virol* 78: 10747-10754.
54. Karrer, U., M. Wagner, S. Sierro, **A. Oxenius**, H. Hengel, T. Dumrese, S. Freigang, U. H. Koszinowski, R. E. Phillips, and P. Klenerman. 2004. Expansion of Protective CD8(+) T-Cell Responses Driven by Recombinant Cytomegaloviruses. *J Virol* 78: 2255-2264.
55. **Oxenius, A.**, D. A. Price, M. Hersberger, E. Schlaepfer, R. Weber, M. Weber, T. M. Kundig, J. Boni, H. Joller, R. E. Phillips, M. Flepp, M. Opravil, and R. F. Speck. 2004. HIV-specific cellular immune response is inversely correlated with disease progression as defined by decline of CD4+ T cells in relation to HIV RNA load. *J Infect Dis* 189: 1199-1208.
56. **Oxenius, A.**, D. A. Price, A. Trkola, C. Edwards, E. Gostick, H. T. Zhang, P. J. Easterbrook, T. Tun, A. Johnson, A. Waters, E. C. Holmes, and R. E. Phillips. 2004. Loss of Viral Control in

- Early HIV-1 Infection Is Temporally Associated with Sequential Escape from CD8+ T Cell Responses and Decrease in HIV-1-Specific CD4+ and CD8+ T Cell Frequencies. *J Infect Dis* 190: 713-721.
57. Plana, M., F. Garcia, **A. Oxenius**, G. M. Ortiz, A. Lopez, A. Cruceta, G. Mestre, E. Fumero, C. Fagard, M. A. Sambeat, F. Segura, J. M. Miro, M. Arnedo, L. Lopalcos, T. Pumarola, B. Hirschel, R. E. Phillips, D. F. Nixon, T. Gallart, and J. M. Gatell. 2004. Relevance of HIV-1-Specific CD4+ Helper T-Cell Responses During Structured Treatment Interruptions in Patients With CD4+ T-Cell Nadir Above 400/mm³. *J Acquir Immune Defic Syndr* 36: 791-799.
 58. Scherer, A., J. Frater, **A. Oxenius**, J. Agudelo, D. A. Price, H. F. Gunthard, M. Barnardo, L. Perrin, B. Hirschel, R. E. Phillips, and A. R. McLean. 2004. Quantifiable cytotoxic T lymphocyte responses and HLA-related risk of progression to AIDS. *Proc Natl Acad Sci U S A* 101: 12266-12270.
 59. Trkola, A., H. Kuster, C. Leemann, **A. Oxenius**, C. Fagard, H. Furrer, M. Battegay, P. Vernazza, E. Bernasconi, R. Weber, B. Hirschel, S. Bonhoeffer, and H. F. Gunthard. 2004. Humoral immunity to HIV-1: kinetics of antibody responses in chronic infection reflects capacity of immune system to improve viral set point. *Blood* 104: 1784-1792.
 60. Wolint, P., M. R. Betts, R. A. Koup, and **A. Oxenius**. 2004. Immediate Cytotoxicity But Not Degranulation Distinguishes Effector and Memory Subsets of CD8+ T Cells. *J Exp Med* 199: 925-936.
 61. Bachmann, M. F., and **A. Oxenius**. 2005. Stimulation of antigen presenting cells: from classical adjuvants to Toll-like receptor (TLR) ligands. In *Antigen Presenting Cells*. H. Kropshofer, ed. Wiley-VCH Weinheim, Germany.
 62. Bachmann, M. F., P. Wolint, K. Schwarz, P. Jager, and **A. Oxenius**. 2005. Functional properties and lineage relationship of CD8+ T cell subsets identified by expression of IL-7 receptor alpha and CD62L. *J Immunol* 175: 4686-4696.
 63. Bachmann, M. F., P. Wolint, K. Schwarz, and **A. Oxenius**. 2005. Recall proliferation potential of memory CD8+ T cells and antiviral protection. *J Immunol* 175: 4677-4685.
 64. Imperiali, M., C. Thoma, E. Pavoni, A. Brancaccio, N. Callewaert, and **A. Oxenius**. 2005. O Mannosylation of {alpha}-Dystroglycan Is Essential for Lymphocytic Choriomeningitis Virus Receptor Function. *J Virol* 79: 14297-14308.
 65. Joos, B., A. Trkola, M. Fischer, H. Kuster, P. Rusert, C. Leemann, J. Boni, **A. Oxenius**, D. A. Price, R. E. Phillips, J. K. Wong, B. Hirschel, R. Weber, and H. F. Gunthard. 2005. Low human immunodeficiency virus envelope diversity correlates with low in vitro replication capacity and predicts spontaneous control of plasma viremia after treatment interruptions. *J Virol* 79: 9026-9037.
 66. Scriba, T. J., H. T. Zhang, H. L. Brown, **A. Oxenius**, N. Tamm, S. Fidler, J. Fox, J. N. Weber, P. Klenerman, C. L. Day, M. Lucas, and R. E. Phillips. 2005. HIV-1-specific CD4(+) T lymphocyte turnover and activation increase upon viral rebound. *J Clin Invest* 115: 443-450.
 67. Trkola, A., H. Kuster, P. Rusert, B. Joos, M. Fischer, C. Leemann, A. Manrique, M. Huber, M. Rehr, **A. Oxenius**, R. Weber, G. Stiegler, B. Vcelar, H. Katinger, L. Aceto, and H. F. Gunthard. 2005. Delay of HIV-1 rebound after cessation of antiretroviral therapy through passive transfer of human neutralizing antibodies. *Nat Med* 11: 615-622.
 68. Bachmann, M. F., R. R. Beerli, P. Agnellini, P. Wolint, K. Schwarz, and **A. Oxenius**. 2006. Long-lived memory CD8+ T cells are programmed by prolonged antigen exposure and low levels of cellular activation. *Eur J Immunol* 36: 842-854.
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