

Markus Zeitlinger

M.D., Assoc. Prof. Priv.Doz.

Date of birth: 09/04/1975

Languages: German, English

Married, two children

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**Biosketch**

Markus Zeitlinger studied medicine at the Medical University of Vienna and graduated in 2000. He completed his training as specialist in Internal Medicine and Clinical Pharmacology and advanced to his main current position as Head of the Department of Clinical Pharmacology. In 2007 he received his post-graduate diploma in Clinical Research. Beside clinical trial design his scientific interests cover antimicrobial agents with focus on early phases of clinical research and pharmacokinetics/pharmacodynamics (PK/PD). He has published over 400 peer reviewed publications and book chapters in particular in the areas of antimicrobial agents, vaccines and imaging and is ad hoc reviewer of over 30 journals. As scientific expert to the European Medicines Agency (EMA) he was actively involved in more than 450 scientific advice procedures given by the agency, including many rapid scientific advice procedures during the Covid-19 pandemic. Furthermore he holds key positions in several national and international scientific societies as well as in a number of national and six European research consortia. International functions include e.g. chairing of the PK/PD working group of the European Society of Clinical Microbiology and Infectious Diseases (ESCMID) while national functions include membership at Scientific Advisory Board (Wissenschaftlicher Ausschuss) or Drug Board of Austrian Ministry of Health (Arzneimittelbeirat). He is also vice chair of the Senate of the Medical University of Vienna.

Academic Career

28.01.2000	Graduation M.D.
Since June 2007	Section Head Clinical Pharmacokinetics/Pharmacogenetics and Imaging, Department of Clinical Pharmacology, Medical University of Vienna
11.10.2007	Post Graduate Diploma in Clinical Research
16.05.2008	Associate Professor of Clinical Pharmacology (Venia docendi for Clinical Pharmacology, "Habilitation")
01.08.2010	Board certification in Internal Medicine
03.06.2011	Board certification in Clinical Pharmacology
Since October 2015	Head of Department of Clinical Pharmacology, Medical University of Vienna
Since October 2022	Regular Member of the Senate of the Medical University of Vienna
Since October 2025	Vice Chair of the Senate of the Medical University of Vienna

Academic Achievements

Publications: 400 publications in peer reviewed journals, 6 book chapters ([Appendix A](#)).
orcid.org/0000-0002-1873-3953, H-factor 45 (Scopus)

Contributions at scientific conferences: more than 350 presentations, posters and chairs at national and international conferences, out of these 100 invited lectures.

National and International Positions:

May 2005 – present	Expert of the “Committee for Medicinal Products for Human Use” (CHMP)
March 2011 – present	Member of Steering Committee Society for Pharmaceutical Medicine (GPMed), since 2017 Vicepresident
August 2014 – present	Member of the Scientific Drug Advisory Board of Austrian Ministry of Health (Wissenschaftlicher Ausschuss)
October 2016-present	Member of the Committee for Drug Prescription Requirement of the Austrian Ministry of Health
December 2016-present	Member of the Steering Committee International Society of Anti-Infective Pharmacology (ISAP)
January 2020-present	Lay judge of national administration court (Bundesverwaltungsgericht)
June 2020-present	Associate Member of the Executive Committee European Association for Clinical Pharmacology and Therapeutics (EACPT)
2020-present	Vize-Chair Section of Clinical Pharmacology, Austrian Pharmacological Society (APHAR)
April 2021-present	Member of the Scientific Advisory Board of the “Wiener Gesundheitsverbund”
January 2021-present	Executive Board member of the Comprehensive Center for Infection Medicine of Medical University of Vienna
April 2022-present	Secretary ESCMID PK/PD of Anti-Infectives Study Group (EPASG)
July 2022-present	Assessor for Vaccine Associated Side Effects for Austrian Ministry of Health (Sachverständiger)
December 2022-present	Member of the Drug Board of Austrian Ministry of Health (Arzneimittelbeirat)
January 2023-present	Expert of Global Antibiotic Research & Development Partnership (GARDP)
March 2024-present	Coordinator of the Pandemic Preparedness Platform Austria
November 2025-present	Vienna Health Study (VHS) Executive Board
2026	President Austrian Congress for Pharmacy
since 2005	numerous involvements in organizational and scientific committees of international and national symposia and congresses

Past positions:

2011 – 2018	Member of Steering Committee VKIpha (Annual German Congress on Clinical Pharmacology)
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2010 – 2018	Chair Working group PK/PD of the Paul Ehrlich Gesellschaft für Chemotherapie e.V
2014 – 2015	Member of the Ethics Committee Medical University of Vienna
2016 – 2020	Chair Section of Clinical Pharmacology, Austrian Pharmacological Society (APHAR)
2016-2022	Clinical Workpackage Leader, Ludwig Boltzmann Institute (LBI) for Applied Diagnostics
2016-2022	Council Member of the Federation of European Pharmacological Societies (EPHAR)
2017-2021	Member of the Executive Committee European Association for Clinical Pharmacology and Therapeutics (EACPT)
2017-2021	Board member Austrian Society of Internal Medicine (ÖGIM)
2018-2022	Chair ESCMID PK/PD of Anti-Infectives Study Group (EPASG)
2020-2024	Director of Clinical Research “TIPAT” EU-Project
2021-2025	National coordinator of “VACCELERATE” EU-Project
2021-2024	Group Leader Quantitative Clinical Imaging (QCI) Node, Medical University of Vienna
2021-2023	Member of the Safety Board of the National Vaccine Advisory Committee
2021-2023	Advisor to the Austrian National Health Board (“Oberster Sanitätsrat”)

Memberships in scientific societies:

International Society of Anti-Infective Pharmacology (ISAP)
 Österreichische Pharmakologische Gesellschaft (Austrian Pharmacological Society, APHAR)
 Österreichische Gesellschaft für antimikrobielle Chemotherapie (ÖGACH, Austrian Society of Antimicrobial Chemotherapy)
 Österreichische Gesellschaft für Infektionskrankheiten (ÖGI, Austrian Society of Infectious Diseases)
 Paul Ehrlich Gesellschaft für Chemotherapie e.V. (PEG)
 European Society of Clinical Microbiology and Infectious Disease (ESCMID)
 ESCMID PK/PD of Anti-Infectives Study Group (EPASG)
 Gesellschaft für Pharmazeutische Medizin (GPMed, Society for Pharmaceutical Medicine)
 European Association for Clinical Pharmacology and Therapeutics (EACPT)
 Federation of European Pharmacological Societies (EPHAR)
 Österreichische Gesellschaft für Innere Medizin (ÖGIM, Austrian Society of Internal Medicine)
 Alumni Club Medical University of Vienna
 American Society for Clinical Pharmacology and Therapeutics (ASCPT)
 Verein zur Förderung von Wissenschaft und Forschung, General Hospital Vienna (VFWF)
 Österreichische Plattform für Personalisierte Medizin (ÖPPM)

Participation in Task Forces:

2017-2022	National task force for implementation of the Clinical Trial Regulation in Austria (CTR)
2017-present	Task force of the Medical University of Vienna for Translational Medicine and Therapeutics (CTMT), Medical University of Vienna Main responsible for planning of the Phase I/II Unit of the CTMT
2019-present	Task force of the Medical University of Vienna for the Centre of Technology Transfer
2020-present	Task Force Ignaz-Semmelweis Centre for Infection Medicine

2022-2025 Task Force Vienna Prevention Study

Peer reviewed grants since 2012 (total > 7.500.000 Euro):

2014-2018, Grant of the European IMI program, “New Drugs 4 Bad Bugs” (COMPACTE MAGNET)

2015-2016, Grant of the Austrian National Bank, Cerebral Microdialysis for Determination of Brain Penetration of Antibiotics

2017-2018, KLIF/FWF, Validation and Optimization of PK/PD Development Pathways of Antibiotics

2019-2023, H2020-MSCA-ITN-2019, Marie S. Curie-Actions –Training Networks for “Training towards Personalized Antibiotic Treatment” (TIPAT)

2019-2024, Grant of the European IMI2 JU AMR Accelerator program: H2020-JTI-IMI2-2018-16-01 (RespiriTB)

2019-2024, Grant of the European IMI2 JU AMR Accelerator program: H2020-JTI-IMI2-2018-16-02 (RespiriNTM)

2019-2021, Grant of the European IMI2 JU AMR Accelerator program: H2020-JTI-IMI2-2018-16-04 (AB-DiRecT)

2019-2024, Grant of the European IMI2 JU AMR Accelerator program: H2020-JTI-IMI2-2018-16-07 (GNA-NOW)

2021-2025, VACCELERATE Grant of HORIZON 2020 – The framework program for research and development

2025, FWF - G. mellonella larvae for PK/PD assessment of antibiotics

2026, BE READY NOW - EUROPEAN PARTNERSHIP FOR PANDEMIC PREPAREDNESS

Further third party funding since 2012:

Total > 5.000.000 (e.g. Affiris, Pfizer, Alfa Wassermann, Nabriva, Gebro, Novartis, GSK, Shionogi, Roche, Apeptico, Scarletred, Apreiron Biologics, Bioversys, Sanofi, Aurovir)

Editorial positions Scientific journals:

November 2017-present	Editorial Board “Pharmainformation”
September 2019-present	Editorial Board Clinical Pharmacokinetics
September 2019-present	Scientific Committee of Clinical Microbiology and Infection
January 2021 – present	Scientific Board “Spectrum Oncology”
January 2022 – present	Associate Editor “Frontiers in Pharmacology”
January 2023-present	Editorial Board “Journal of Antimicrobial Chemotherapy”
July 2023-present	Advisory Editor European Journal of Clinical Pharmacology
January 2025-present	Section Editor European Journal of Pharmaceutical Sciences
January 2026-present	Section Editor European Journal of Pharmaceutical Sciences

Past Editorial positions Scientific journals:

2007 – 2013	Section Editor International Journal of Clinical Pharmacology and Therapeutics
2022	Guest Associate Editor “Frontiers in Translational Pharmacology”
2019-2023	Managing Editor European Journal of Clinical Pharmacology
2020 - 2022	Editorial Board “Microorganisms”

Reviewer for International Journals (alphabetical order):

Acta Ophthalmologica
Advanced Drug Delivery Reviews
African Journal of Microbiology Research
Annals of Clinical Microbiology and Antimicrobials

Annals of Internal Medicine
 Annals of the Rheumatic Diseases
 Antibiotics
 Antimicrobial Agents and Chemotherapy
 APMIS
 Basic & Clinical Pharmacology & Toxicology
 British Journal of Clinical Pharmacology
 Chemotherapie Journal
 Clinical Infectious Diseases
 Clinical Microbiology and Infection
 Clinical Pharmacokinetics
 Clinical Therapeutics
 CMI Communications
 Critical Care Medicine
 Drugs
 European Journal of Clinical Investigation
 European Journal of Clinical Pharmacology
 European Journal of Pharmaceutical Sciences
 Frontiers in Pharmacology
 Frontiers Pharmacology
 Generics and Biosimilars Initiative Journal
 Infection
 International Journal of Antimicrobial Agents
 International Journal of Clinical Pharmacology and Therapeutics
 International Journal of Clinical Practice
 Journal of Antimicrobial Chemotherapy
 Journal of Basic Microbiology
 Journal of Pharmacology and Experimental Therapeutics
 Lancet Infectious Diseases
 Nature communications
 Ophthalmic Research
 Peritoneal Dialysis International
 Pharmaceutics
 Planta Medica
 PLoS Computational Biology
 Regulatory Toxicology and Pharmacology
 Skin Pharmacology and Physiology
 The Journal of Clinical Pharmacology
 Thrombosis and Haemostasis
 Tuberculosis
 Wiener Klinische Wochenschrift

Reviewer or Expert for national and international societies and funding agencies

Since 2017 Reviewer ESCMID Program Committee
 Since 2020 Reviewer Bürgermeister Fonds Wien
 Since 2021 Reviewer BMBF funding initiative for clinical trials
 Since 2023 Advisor Integrate-IMP board
 Since 2023 Member Review Panel NCCR AntiResist
 Since 2024 Swiss National Science Foundation (SNFS)
 Since 2025 Combating Antibiotic-Resistant Bacteria Biopharmaceutical Accelerator (CARB-X)

Award and honoree appointments:

2012 Lifetime award: Heribert-Konzett-Award of Austrian Society of Clinical Pharmacology (APHAR)

2024 ESCMID Fellow: for professional excellence and outstanding service to the profession and society (European Society of Clinical Microbiology and Infectious Diseases)

Teaching:

Involvement in over 120 University lectures and courses

Supervision of 16 doctoral thesis (postdoc) and > 50 diploma or master thesis

since 2009 Teacher at the Master of Public health, MUW

since 2022 Teacher at the Master of Molecular Precision Medicine

Clinical study experience:

since 2001 Principal Investigator of over 100 clinical studies including first in men studies as well as all phases of clinical drug development, participation in additional >100 studies as Sub-investigator.

1/2025 last GCP training and test

Data safety Monitoring Board membership:

2018-2024: Evaluation of the safety and efficacy of dihydroartemisinin-piperaquine for intermittent preventive treatment of malaria in HIV-infected pregnant women

Since 2020: Independent Scientific and Ethics Advisory Board (ISEAB) of EU-RESPONSE

Since 2020: Member/chair of DSMB of 5 different "first in man" studies



18.1.2026

Publication List:

- 1) Brunner M, Stabeta H, Moller JG, Schrolnberger C, Erovic B, Hollenstein U, **Zeitlinger M**, Eichler HG, Muller M. Target site concentrations of ciprofloxacin after single intravenous and oral doses. *Antimicrob Agents Chemother.* 2002 Dec;46(12):3724-30. doi: 10.1128/AAC.46.12.3724-3730.2002
- 2) Joukhadar C, Klein N, Dittrich P, **Zeitlinger M**, Geppert A, Skhirtladze K, Frossard M, Heinz G, Muller M. Target site penetration of fosfomycin in critically ill patients. *J Antimicrob Chemother.* 2003 May;51(5):1247-52. doi: 10.1007/s11605-020-04532-7
- 3) Langer O, Mitterhauser M, Brunner M, **Zeitlinger M**, Wadsak W, Mayer BX, Kletter K, Muller M. Synthesis of fluorine-18-labeled ciprofloxacin for PET studies in humans. *Nucl Med Biol.* 2003 Apr;30(3):285-91. doi: 10.1016/s0969-8051(02)00444-4.
- 4) **Zeitlinger M**, Marsik C, Georgopoulos A, Muller M, Heinz G, Joukhadar C. Target site bacterial killing of cefpirome and fosfomycin in critically ill patients. *Int J Antimicrob Agents.* 2003 Jun;21(6):562-7. doi: 10.1016/s0924-8579(03)00047-5.
- 5) **Zeitlinger M**, Muller M. Clinico-pharmacologic explanation models of cerivastatin associated rhabdomyolysis. *Wien Med Wochenschr.* 2003;153(11-12):250-4. doi: 10.1046/j.1563-258x.2003.03029.x.
- 6) **Zeitlinger M**, Dehghanyar P, Mayer BX, Schenk BS, Neckel U, Heinz G, Georgopoulos A, Muller M, Joukhadar C. Relevance of soft-tissue penetration by levofloxacin for target site bacterial killing in patients with sepsis. *Antimicrob Agents Chemother.* 2003 Nov;47(11):3548-53. doi: 10.1128/AAC.47.11.3548-3553.2003.
- 7) Sauermann R, **Zeitlinger M**, Erovic BM, Marsik C, Georgopoulos A, Muller M, Brunner M, Joukhadar C. Pharmacodynamics of piperacillin in severely ill patients evaluated by using a PK/PD model. *Int J Antimicrob Agents.* 2003 Dec;22(6):574-8. doi: 10.1016/j.ijantimicag.2003.05.003.
- 8) Traunmuller F, **Zeitlinger M**, Stoiser B, Lagler H, Abdel Salam HA, Presterl E, Graninger W. Circulating tuberculostearic acid in tuberculosis patients. *Scand J Infect Dis.* 2003;35(11-12):790-3. doi: 10.1080/00365540310017032.
- 9) Pfausler B, Spiss H, Dittrich P, **Zeitlinger M**, Schmutzhard E, Joukhadar C. Concentrations of fosfomycin in the cerebrospinal fluid of neurointensive care patients with ventriculostomy-associated ventriculitis. *J Antimicrob Chemother.* 2004 May;53(5):848-52. doi: 10.1093/jac/dkh158.
- 10) Bellmann R, Kuchling G, Dehghanyar P, **Zeitlinger M**, Minar E, Mayer BX, Muller M, Joukhadar C. Tissue pharmacokinetics of levofloxacin in human soft tissue infections. *Br J Clin Pharmacol.* 2004 May;57(5):563-8. doi: 10.1111/j.1365-2125.2004.02059.x.
- 11) **Zeitlinger M**, Graninger W, Joukhadar C. Pharmacokinetics of the macrolides azithromycin, clarithromycin and roxithromycin in plasma and tissue – are there significant differences? *Wiener Klinische Wochenschrift.* 2004; 11-12a: 18-24. doi: 10.2165/0003088-200948010-00002.
- 12) Graninger W, **Zeitlinger M**. Clinical applications of levofloxacin for severe infections. *Chemotherapy.* 2004;50 Suppl 1:16-21. doi: 10.1159/000079818.
- 13) Brunner M, Langer O, Dobrozemsky G, Muller U, **Zeitlinger M**, Mitterhauser M, Wadsak W, Dudczak R, Kletter K, Muller M. [¹⁸F]Ciprofloxacin, a new positron emission tomography tracer for non invasive assessment of the tissue distribution and pharmacokinetics of ciprofloxacin in humans. *Antimicrob Agents Chemother.* 2004 Oct;48(10):3850-7. doi: 10.1128/AAC.48.10.3850-3857.2004.
- 14) **Zeitlinger M**, Sauermann R, Traunmuller F, Georgopoulos A, Muller M, Joukhadar C. Impact of plasma protein binding on antimicrobial activity using time-killing curves. *J Antimicrob Chemother.* 2004 Nov;54(5):876-80. doi: 10.1093/jac/dkh443.

- 15) Gattringer R, Urbauer E, Traunmuller F, **Zeitlinger M**, Dehghanyar P, Zeleny P, Graninger W, Muller M, Joukhadar C. Pharmacokinetics of telithromycin in plasma and soft tissues after single-dose administration to healthy volunteers. *Antimicrob Agents Chemother*. 2004 Dec;48(12):4650-3. doi: 10.1128/AAC.48.12.4650-4653.2004.
- 16) Sauermann R, Delle-Karth G, Marsik C, Steiner I, Mayer BX, **Zeitlinger M**, Georgopoulos A, Muller M, Joukhadar C. Pharmacokinetics and pharmacodynamics of cefpirome in subcutaneous adipose tissue of septic patients. *Antimicrob Agents Chemother*. 2005 Feb;49(2):650-5. doi: 10.1128/AAC.49.2.650-655.2005.
- 17) Langer O, Brunner M, **Zeitlinger M**, Ziegler S, Muller U, Dobrozemsky G, Lackner E, Joukhadar C, Mitterhauser M, Wadsak W, Minar E, Dudczak R, Kletter K, Muller M. In vitro and in vivo evaluation of [(18)F]ciprofloxacin for the imaging of bacterial infections with PET. *Eur J Nucl Med Mol Imaging*. 2005 Feb;32(2):143-50. doi: 10.1007/s00259-004-1646-2.
- 18) Dehghanyar P, Bürger C, **Zeitlinger M**, Islinger F, Kovar F, Muller M, Kloft C, Joukhadar C. Penetration of linezolid into soft tissues after single and multiple doses to healthy volunteers. *Antimicrob Agents Chemother*. 2005 Jun;49(6):2367-71. doi: 10.1128/AAC.49.6.2367-2371.2005.
- 19) Traunmuller F, Gattringer R, **Zeitlinger M**, Graninger W, Muller M, Joukhadar C. Determination of telithromycin in human plasma and microdialysates by high-performance liquid chromatography. *J Chromatogr B Analyt Technol Biomed Life Sci*. 2005 Aug 5;822(1-2):133-6. doi: 10.1016/j.jchromb.2005.05.030.
- 20) Traunmuller F, Haslinger I, Lagler H, Wolfgang G, **Zeitlinger M**, Abdel Salam HA. Influence of the washing buffer composition on the sensitivity of an enzyme-linked immunosorbent assay using mycobacterial glycolipids as capture antigens. *J Immunoassay Immunochem*. 2005;26(3):179-88. doi: 10.1081/IAS-200062477.
- 21) **Zeitlinger M**, Schmidinger M, Zielinski CC, Chott A, Raderer M. Effective treatment of a peripheral T-cell lymphoma/lymphoepithelioid cell variant (Lennert's lymphoma) refractory to chemotherapy with the CD-52 antibody alemtuzumab. *Leuk Lymphoma*. 2005 May;46(5):771-4. doi: 10.1080/10428190400028959.
- 22) **Zeitlinger M**, Erovic B, Sauermann R, Georgopoulos A, Muller M, Joukhadar C. Plasma concentrations might lead to overestimation of target site activity of piperacillin in patients with sepsis. *J Antimicrob Chemother*. 2005 Oct;56(4):703-8. doi: 10.1093/jac/dki284.
- 23) Langer O, Karch R, Muller U, Dobrozemsky G, Abraham A, **Zeitlinger M**, Lackner E, Joukhadar C, Dudczak R, Kletter K, Muller M, Brunner M. Combined PET and Microdialysis for In Vivo Assessment of Intracellular Drug Pharmacokinetics in Humans. *J Nucl Med*. 2005 Nov;46(11):1835-41. PMID: 16269597
- 24) **Zeitlinger M**, Muller M, Joukhadar C. Lung microdialysis – a powerful tool for the determination of exogenous and endogenous compounds in the lower respiratory tract. *AAPS J*. 2005 Oct 22;7(3):E600-8. doi: 10.1208/aapsj070362.
- 25) Traunmuller F, Steiner I, **Zeitlinger M**, Joukhadar C. Development of a high-performance liquid chromatography method for the determination of caspofungin with amperometric detection and its application to in vitro microdialysis experiments. *J Chromatogr B Analyt Technol Biomed Life Sci*. 2006 Nov 7;843(2):142-6. doi: 10.1016/j.jchromb.2006.05.025.
- 26) Gattringer R, Meyer B, Heinz G, Guttman C, **Zeitlinger M**, Joukhadar C, Dittrich P, Thalhammer F. Single-dose pharmacokinetics of fosfomycin during continuous venovenous haemofiltration. *J Antimicrob Chemother*. 2006 Aug;58(2):367-71. doi: 10.1093/jac/dkl251.
- 27) **Zeitlinger M**, Marsik C, Steiner I, Sauermann R, Seir K, Jilma B, Wagner O, Joukhadar C. Immunomodulatory effects of fosfomycin in an endotoxin model in

- human blood. *J Antimicrob Chemother.* 2007 Feb;59(2):219-23. doi: 10.1093/jac/dkl464. doi: 10.1016/j.ijantimicag.2006.08.045.
- 28) **Zeitlinger MA**, Traunmuller F, Abraham A, Muller MR, Erdogan Z, Muller M, Joukhadar C. A pilot study testing whether concentrations of levofloxacin in interstitial space fluid of soft tissues may serve as a surrogate for predicting its pharmacokinetics in lung. *Int J Antimicrob Agents.* 2007 Jan;29(1):44-50. doi: 10.1016/j.ijantimicag.2006.08.045.
 - 29) Zeitlinger B, **Zeitlinger M**, Leitner I, Muller M, Joukhadar C. A clinical scoring system for the prediction of target site penetration of antimicrobials in septic patients. *Clin Pharmacokinet.* 2007;46(1):75-83. doi: 10.2165/00003088-200746010-00004.
 - 30) Sauermann R, Marsik C, Steiner I, Seir K, Civtko T, **Zeitlinger M**, Wagner O, Joukhadar C. The immunomodulatory effects of fosfomycin in experimental human endotoxemia. *Antimicrob Agents Chemother.* 2007 May;51(5):1879-81. doi: 10.1128/AAC.00914-06.
 - 31) Traunmuller F, **Zeitlinger M**, Zeleny P, Muller M, Joukhadar C. Single- and multiple-dose pharmacokinetics of oral clarithromycin in soft tissues determined by microdialysis. *Antimicrob Agents Chemother.* 2007 Sep;51(9):3185-9. doi: 10.1128/AAC.00532-07.
 - 32) **Zeitlinger M**, Sauermann R, Fille M, Hausdorfer J, Leitner I, Müller M. Plasma protein binding of fluoroquinolones affects antimicrobial activity. *J Antimicrob Chemother.* 2008 Mar;61(3):561-7. doi: 10.1093/jac/dkm524.
 - 33) Hutschala D, Kinstner C, Skhirtladze K, Mayer-Helm BX, **Zeitlinger M**, Wisser W, Müller M, Tschernko E. The impact of perioperative atelectasis on antibiotic penetration into lung tissue: an in vivo microdialysis study. *Intensive Care Med.* 2008 Oct;34(10):1827-34. doi: 10.1007/s00134-008-1122-8.
 - 34) Ehrlich HJ, Müller M, Oh HM, Tambyah PA, Joukhadar C, Montomoli E, Fisher D, Berezuk G, Fritsch S, Löw-Baselli A, Vartian N, Bobrovsky R, Pavlova BG, Pöllabauer EM, Kistner O, Barrett PN; Baxter H5N1 Pandemic Influenza Vaccine Clinical Study Team. Collaborators: Marth E, Konior R, Sonnenburg F, Birthistle K, Dvorak T, Geyer S, Kraft M, Leitgeb MC, Maritsch F, Phillipson L, Robotka E, Abraham A, Bauer M, Brunner M, Cornea A, Drucker C, Erdogan Z, Griss J, Heinisch B, Kovar F, Lackner E, Lambers C, Langer O, Leitner I, Marsik C, Poepl W, Popovic M, Sauermann R, Schaberl R, Sodeck G, Thallinger C, Traunmueller F, Wagner C, **Zeitlinger M**, Chua SK, Chuin S, Fong R, Foo AS, Koh AG, Lim PK, Yap SY, Yew LH, Goh JW, Hsu LY, Loke CW, Ng JY, Toh EL, Weatherill P, Zhou YP. A clinical trial of a whole-virus H5N1 vaccine derived from cell culture. *N Engl J Med.* 2008 Jun 12;358(24):2573-84. doi: 10.1056/NEJMoa073121.
 - 35) Sauermann R, Schwameis R, Fille M, Camuz Ligios ML, **Zeitlinger M**. Antimicrobial activity of cefepime and rifampicin in cerebrospinal fluid in vitro. *J Antimicrob Chemother.* 2008 Nov;62(5):1057-60. doi: 10.1093/jac/dkn312.
 - 36) **Zeitlinger M**, Wagner CC, Heinisch B. Ketolides - the modern relatives of macrolides: the pharmacokinetic perspective. *Clin Pharmacokinet.* 2009;48(1):23-38. doi: 10.2165/0003088-200948010-00002.
 - 37) Beer J, Wagner CC, **Zeitlinger M**. Protein Binding of Antimicrobials: Methods for Quantification and for Investigation of its Impact on Bacterial Killing. *AAPSJ.* 2009 Mar;11(1):1-12. doi: 10.1208/s12248-008-9072-1.
 - 38) Wagner CW, Biollaz B, **Zeitlinger M**, Buclin T. „iatrogenic cascade“: doing harm by treating harm? *Wien Med Wochenschr.* 2009;159(1-2):53-57. doi: 10.1007/s10354-008-0579-y.
 - 39) Wagner CC, Steiner I, **Zeitlinger M**. Daptomycin elimination by CVVH in vitro: evaluation of factors influencing sieving and membrane adsorption. *Int J Clin Pharmacol Ther.* 2009 Mar;47(3):178-86. doi: 10.5414/cpp47178.

- 40) Sauermann R, Schwameis R, Fille M, Camuz Ligios ML, **Zeitlinger M**. Cerebrospinal fluid impairs antimicrobial activity of fosfomycin in vitro. *J Antimicrob Chemother.* 2009 Jul 21. *J Antimicrob Chemother.* 2009 Oct;64(4):821-3. doi: 10.1093/jac/dkp261.
- 41) Bauer M, Karch R, Neumann F, Abraham A, Wagner CC, Kletter K, Müller M, **Zeitlinger M**, Langer O. Age dependency of cerebral P-gp function measured with(R)-[11C]verapamil and PET. *Eur J Clin Pharmacol.* 2009 Sep;65(9):941-6. doi: 10.1007/s00228-009-0709-5.
- 42) Ehrlich HJ, Müller M, Fritsch S, **Zeitlinger M**, Berezuk G, Löw-Baselli A, van der Velden MV, Pöllabauer EM, Maritsch F, Pavlova BG, Tambyah PA, Oh HM, Montomoli E, Kistner O, Noel Barrett P. A Cell Culture (Vero)-Derived H5N1 Whole-Virus Vaccine Induces Cross-Reactive Memory Responses. *J Infect Dis.* 2009 Oct 1;200(7):1113-8. doi: 10.1086/605608.
- 43) Capan M, Keltner S, Thalhammer F, Winkler S, Jäger W, **Zeitlinger M**, Ramharter M. Intra-cystic drug concentration of albendazole sulphoxide in patients with *Echinococcus granulosus* cysts. *Am J Trop Med Hyg.* 2009 Oct;81(4):712-3. doi: 10.4269/ajtmh.2009.09-0234.
- 44) Wagner CC, Bauer M, Karch R, Feurstein T, Kopp S, Chiba P, Kletter K, Löscher W, Müller M, **Zeitlinger M**, Langer O. A Pilot Study to Assess the Efficacy of Tariquidar to Inhibit P-glycoprotein at the Human Blood-Brain Barrier with (R)-11C-Verapamil and PET. *J Nucl Med.* 2009 Dec;50(12):1954-61. doi: 10.2967/jnumed.109.063289.
- 45) Bauer M, Karch R, Neumann F, Wagner CC, Kletter K, Müller M, Löscher W, **Zeitlinger M**, Langer O. Assessment of regional differences in tariquidar induced P-glycoprotein modulation at the human blood-brain barrier. *J Cereb Blood Flow Metab.* 2010 Mar;30(3):510-5. doi: 10.1038/jcbfm.2009.265.
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