



## Dr. med. Matthias Hoffmann

### Kontakt

Dr. med. Matthias Hoffmann  
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### Bereiche

Infektiologie | Infektionsprävention | Reisemedizin

### Position

Consultant and Clinical Research Fellow, Department of Internal Medicine, Division of Infectious Diseases, Cantonal Hospital St.Gallen, St.Gallen, Switzerland, Prof P. Vernazza

### Frühere Positionen

04/2009 – 12/2013

Residency and Clinical Reserach Fellowship, Department of Internal medicine, Division of Infectious Diseases, Cantonal Hospital St.Gallen, St.Gallen, Switzerland, Prof P. Vernazza

03/2007 – 03/2009

Clinical Research Fellowship, University of Oxford, Nuffield Department of Medicine, Peter Medawar Building for Pathogen Research, Oxford, United Kingdom, Prof R. Phillips.

08/2005 – 02/2007

Residency, Department of Internal Medicine, Cantonal Hospital St.Gallen, St.Gallen, Switzerland, Prof P. Greminger.

08/2003 – 07/2005

Residency, Department of Internal Medicine, Cantonal Hospital Münsterlingen, Münsterlingen-Scherzingen, Switzerland, Prof M. Krause.

01 – 07/2003

Research position, Department of Internal Medicine, Division of Infectious Diseases, Cantonal Hospital St.Gallen, St.Gallen, Switzerland, Prof P. Vernazza.

2002

Residency, Department of Surgery and Orthopaedics, Cantonal Hospital Uri, Altdorf, Switzerland, Dres G. Burri und R. Joller.

## **Funktion**

Oberarzt/Oberärztin

## Publikationen (71)

Manuel O, Laager M, Hirzel C, Neofytos D, Walti L, Hönger G, Binet F, Schnyder A, Stampf S, Koller M, Mombelli M, Kim M, Hoffmann M, Koenig K, Hess C, Burgener A, Cippà P, Hübel K, Müller T, Sidler D, Dahdal S, Suter-Riniker F, Villard J, Zbinden A, Pantaleo G, Semmo N, Hadaya K, Enriquez N, Meylan P, Froissart M, Golshayan D, Fehr T, Huynh-Do U, Pascual M, Van Delden C, Hirsch H, Jüni P, Müller N, Swiss Transplant Cohort Study (STCS). Immune monitoring-guided vs fixed duration of antiviral prophylaxis against cytomegalovirus in solid-organ transplant recipients. A Multicenter, Randomized Clinical Trial. *Clin Infect Dis* 2023

Zeeb M, Tepekule B, Kusejko K, Reiber C, Kaelin M, Bartl L, Notter J, Furrer H, Hoffmann M, Hirsch H, Calmy A, Cavassini M, Labhardt N, Bernasconi E, Braun D, Günthard H, Kouyos R, Nemeth J, Swiss HIV Cohort Study S. Understanding the decline of incident, active tuberculosis in people with HIV in Switzerland. *Clin Infect Dis* 2023

Chammartin F, Darling K, Abela I, Battegay M, Furrer H, Calmy A, Bernasconi E, Schmid P, Hoffmann M, Bucher H, and the Swiss HIV Cohort Study. CD4:CD8 Ratio and CD8 Cell Count and Their Prognostic Relevance for Coronary Heart Disease Events and Stroke in Antiretroviral Treated Individuals: The Swiss HIV Cohort Study. *J Acquir Immune Defic Syndr* 2022; 91:508.

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Thorball C, Rauch A, Battegay M, Hoffmann M, Schmid P, Bernasconi E, Günthard H, Mohammadi P, McLaren P, Rabkin C, Besson C, Cavassini M, Theodorou I, Oudot-Mellakh T, Ehsan N, Hammer C, Santoni F, Niay J, Costagliola D, Goujard C, Meyer L, Wang S, Hussain S, Fellay J. Genetic variation near CXCL12 is associated with susceptibility to HIV-related non-Hodgkin lymphoma. *Haematologica* 2020

Petrone L, Albrich W, Tamarozzi F, Frischknecht M, Gomez-Morales M, Teggi A, Hoffmann M, Goletti D. Species-specificity preliminary evaluation of an IL-4 based test for the differential diagnosis of human echinococcosis. *Parasite Immunol* 2019:e12695.

Hartnell F, Marriott P, Gardiner C, Bannan C, Bergin C, Hoffmann M, Turner B, Nicosia A, Folgori A, Hanke T, Barnes E, Vassilev V, Esposito I, Brown A, Capone S, Kopycinski J, Bliss C, Makvandi-Nejad S, Swadling L, Ghaffari E, Cicconi P, Del Sorbo M, Sbrocchi R, Dorrell L. A Novel Vaccine Strategy Employing Serologically Different Chimpanzee Adenoviral Vectors for the Prevention of HIV-1 and HCV Coinfection. *Front Immunol* 2019; 9:3175.

Kusejko K, Kouyos R, Günthard H, Rauch A, Perreau M, Klimkait T, Yerly S, Böni J, Hoffmann M, Cavassini M, Calmy A, Bernasconi E, Battegay M, Marzel A, Kadelka C, Swiss HIV Cohort Study. Inferring the age difference in HIV transmission pairs by applying phylogenetic methods on the HIV transmission network of the Swiss HIV Cohort Study. *Virus Evol* 2018; 4:vey024.

Bibert S, Bochud P, Cavassini M, Fellay J, Osthoff M, Kaiser L, Hoffmann M, Günthard H, Furrer H, Bernasconi E, Tarr P, Taffé P, Wójtowicz A, and the Swiss HIV Cohort Study. IFNL3/4 polymorphisms are associated with AIDS-related Kaposi's sarcoma. *AIDS* 2018

Kouyos R, Cavassini M, Bernasconi E, Hoffmann M, Calmy A, Battegay M, Rauch A, Yerly S, Aubert V, Klimkait T, Böni J, Metzner K, Günthard H, Trkola A, Chave J, Kuster H, Leemann C, Rusert P, Kadelka C, Huber M, Marzel A, Ebner H, Schanz M, Liechti T, Friedrich N, Braun D, Scherrer A, Weber J, Uhr T, Baumann N, Swiss HIV Cohort Study. Tracing HIV-1 strains that imprint broadly neutralizing antibody responses. *Nature* 2018; 561:406-410.

Kusejko K, Hoffmann M, Böni J, Yerly S, Klimkait T, Perreau M, Rauch A, Günthard H, Kouyos R, Cavassini M, Calmy A, Marzel A, Hampel B, Bachmann N, Nguyen H, Fehr J, Braun D, Battegay M, Bernasconi E, Swiss HIV Cohort Study. Quantifying the drivers of HIV transmission and prevention in men who have sex with men: a population model-based analysis in Switzerland. *HIV Med* 2018

Salazar-Vizcaya L, Rauch A, Béguelin C, Rougemont M, Hoffmann M, Bernasconi E, Stoeckle M, Cavassini M, Braun D, Fehr J, Wandeler G, Swiss HIV Cohort Study. Impact of Direct-Acting Antivirals on the Burden of HCV Infection Among Persons Who Inject Drugs and Men Who Have Sex With Men in the Swiss HIV Cohort Study. *Open Forum Infect Dis* 2018; 5:ofy154.

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Kadelka C, Bernasconi E, Hoffmann M, Calmy A, Battegay M, Rauch A, Yerly S, Aubert V, Klimkait T, Böni J, Kouyos R, Günthard H, Trkola A, Cavassini M, Misselwitz B, Liechti T, Ebner H, Schanz M, Rusert P, Friedrich N, Stiegeler E, Braun D, Huber M, Scherrer A, Weber J, Uhr T, Kuster H, Swiss HIV Cohort Study. Distinct, IgG1-driven antibody response landscapes demarcate individuals with broadly HIV-1 neutralizing activity. *J Exp Med* 2018; 215:1589-1608.

Marzel A, Kouyos R, Günthard H, Perreau M, Klimkait T, Yerly S, Böni J, Hoffmann M, Cavassini M, Calmy A, Bernasconi E, Roth J, Rauch A, Bruggmann P, Weber R, Kusejko K, Swiss HIV Cohort Study. The Cumulative Impact of Harm Reduction on the Swiss HIV Epidemic: Cohort Study, Mathematical Model, and Phylogenetic Analysis. *Open Forum Infect Dis* 2018; 5:ofy078.

Fulchini R, Kohler P, Kahlert C, Albrich W, Kuhn R, Hoffmann M, Schlegel M. Hand hygiene adherence in relation to influenza season during 6 consecutive years. *Am J Infect Control* 2018

Bouatou Y, Calmy A, de Seigneux S, Fux C, Kovari H, Merz L, Staehelin C, Hoffmann M, Battegay M, Bernasconi E, Gayet Ageron A, Swiss HIV Cohort Study. Lipodystrophy Increases the Risk of CKD Development in HIV-Positive Patients in Switzerland: The LIPOKID Study. *Kidney Int Rep* 2018; 3:1089-1099.

Aebi-Popp K, Rauch A, Furrer H, Fehr J, Bernasconi E, Suter F, Lüthi A, Hoffmann M, Cavassini M, Stöckle M, Metzner K, Salazar-Vizcaya L, Wandeler G, and the Swiss HIV Cohort Study. Rapid decline of anti-hepatitis C virus (HCV) antibodies following early treatment of incident HCV infections in HIV-infected men who have sex with men. *HIV Med* 2018

Böni C, Barthelmes D, Hoffmann M, Erb S, Hasler P, Kohler P, Eberhard R, Hasse B, Al-Sheikh M, Zweifel S. MULTIMODAL IMAGING OF CHOROIDDAL LESIONS IN DISSEMINATED MYCOBACTERIUM CHIMAERA INFECTION AFTER CARDIOTHORACIC SURGERY. *Retina (Philadelphia, Pa)* 2017

Yerly S, Marzolini C, Martinez de Tejada B, Martinetti G, Ledergerber B, Kovari H, Kouyos R, Klimkait T, Keiser O, Kaiser L, Kahlert C, Hösli I, Hoffmann M, Hirsch H, Hasse B, Metzner K, Müller N, Weber R, Wandeler G, Vernazza P, Trkola A, Tarr P, Stöckle M, Speck R, Schmid P, Scherrer A, Rudin C, Rauch A, Paioni P, Pantaleo G, Nicca D, Haerry D, Günthard H, Fux C, Kouyos R, Günthard H, Hoffmann M, Furrer H, Cavassini M, Calmy A, Bernasconi E, Battegay M, Klimkait T, Aubert V, Yerly S, Böni J, Kadelka C, Bachmann N, Swiss HIV Cohort Study, Aubert V, Furrer H, Fellay J, Fehr J, Elzi L, Egger M, Dollenmaier G, Ciuffi A, Cavassini M, Calmy A, Bucher H, Braun D, Böni J, Bernasconi E, Battegay M, Turk T. Assessing the danger of self-sustained HIV epidemics in heterosexuals by population based phylogenetic cluster analysis. *Elife* 2017; 6

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Shilaih M, Kouyos R, Günthard H, Thurnheer M, Bernasconi E, Hoffmann M, Battegay M, Darling K, Calmy A, Young J, Kovari H, Scherrer A, Braun D, Marzel A. Factors associated with syphilis incidence in the HIV-infected in the era of highly active antiretrovirals. *Medicine (Baltimore)* 2017; 96:e5849.

Sauter R, Held L, Günthard H, Rougemont M, Hoffmann M, Furrer H, Cavassini M, Bernasconi E, Battegay M, Ledergerber B, Huang R. CD4/CD8 ratio and CD8 counts predict CD4 response in HIV-1-infected drug naive and in patients on cART. *Medicine (Baltimore)* 2016; 95:e5094.

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Hoffmann M, Frater J, Phillips R, Fidler S, Fox J, Nwokolo N, Weber J, Babiker A, Kinloch S, Fisher M, Brown H, Robinson N, Willberg C, Meyerowitz J, Hurst J, Hickling S, Martin G, Pantazis N. Exhaustion of Activated CD8 T Cells Predicts Disease Progression in Primary HIV-1 Infection. *PLoS Pathog* 2016; 12:e1005661.

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Hurst J, Kinloch S, Cooper D, Schechter M, Tambussi G, Fidler S, Babiker A, Weber J, Kelleher A, Phillips R, Fisher M, Brown H, Hoffmann M, Pace M, Williams J, Thornhill J, Hamlyn E, Meyerowitz J, Willberg C, Koelsch K, Robinson N, Frater J. Immunological biomarkers predict HIV-1 viral rebound after treatment interruption. *Nat Commun* 2015; 6:8495.

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Regoes R, Fellay J, Telenti A, Rauch A, Hoffmann M, Günthard H, Calmy A, Bernasconi E, Battegay M, McLaren P. Disentangling human tolerance and resistance against HIV. *PLoS Biol* 2014; 12:e1001951.

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## Projekte (7)

### **Unravelling the Evil - the role of CXCL-10 antagonist in HIV+ failing immune recovery despite cART**

*Grundlagenforschung - 01.07.2013 - 30.04.2014*

*Automatisch geschlossen*

### **Prevention of hepatitis C virus (HCV) and HIV-1 co-infections through induction of potent T cell responses using prime-boost viral vector vaccine regimens (PEACHI)**

*Klinische Forschung - 01.02.2013 - 27.09.2022*

*Automatisch geschlossen*

### **Polyfunctional T-cell profile and its association with antibody titers in HIV-infected individuals with low CD4-nadir after seasonal influenza vaccination (FLUvacHIV)**

*Grundlagenforschung - 12.11.2012 - 12.07.2013*

*Automatisch geschlossen*

### **Interferon- $\gamma$ Release Assay (IGRA) Negativity Rates after TB-Treatment in HIV-infected Individuals**

*Klinische Forschung - 15.08.2012 - 31.08.2013*

*Automatisch geschlossen*

### **Does hyper-thermal incubation and blockage of T-cell inhibitory pathways improve current and future T-cell based diagnostic test systems?**

*Grundlagenforschung - 01.02.2011 - 31.12.2014*

*Abgeschlossen*

### **Functional CD8+ T-Cell Avidity in Association with CD4-Nadir and Viral Immune Escape in Chronically Infected HIV-positive Patients**

*Grundlagenforschung - 11.01.2011 - 31.12.2011*

*Abgeschlossen*

### **Molecular and clinical epidemiology of tuberculosis in Switzerland: Studies of populations infected and not infected with HIV**

*Klinische Forschung - 01.09.2009 - 31.12.2010*

*Abgeschlossen*