

MEDIENKONFERENZ vom 6. Mai 2021

Die wichtigsten Forschungsergebnisse aus der COVID-Forschung der 5 Schweizer Universitätsspitäler

Les résultats les plus importants de la recherche COVID des 5 hôpitaux universitaires suisses

The most important research results from the COVID research of the 5 swiss university hospitals

Im Folgenden finden Sie pro Universitätsspital eine Auswahl von wichtigen Publikationen zu COVID-19. Eine Kontaktnahme ist über die Mailadresse info@unimedsuisse.ch möglich.

Vous trouverez ci-dessous une sélection de publications importantes sur le COVID-19 pour chaque hôpital universitaire. Vous pouvez les contacter via l'adresse mail info@unimedsuisse.ch.

Below you will find a selection of important publications on COVID-19 for each university hospital. You can contact them via the e-mail address info@unimedsuisse.ch.

USB		
Authors	Titel	Journal
Leuzinger K, Roloff T, Gosert R, Søgaard K, Naegele K, Rentsch K, et al.	Epidemiology of Severe Acute Respiratory Syndrome Coronavirus 2 Emergence Amidst Community-Acquired Respiratory Viruses.	J Infect Dis. 2020 Sep 14;222(8):1270-1279. doi: 10.1093/infdis/jiaa464. →Link
Battegay M, Kuehl R, Tschudin-Sutter S, Hirsch HH, Widmer AF, Neher RA.	2019-novel Coronavirus (2019-nCoV): estimating the case fatality rate – a word of caution.	Swiss Med Wkly. 2020 Feb 7; 150:w20203. doi: 10.4414/smw.2020.20203.eCollection 2020 Jan 27. →Link
Stange M, Mari A, Roloff T, Seth-Smith HMB, Schweitzer M, Brunner M, et al.	SARS-CoV-2 outbreak in a tri-national urban area is dominated by a B.1 lineage variant linked to a mass gathering event.	PLoS Pathog. 2021 Mar 19;17(3):e1009374. doi: 10.1371/journal.ppat.1009375. →Link
Marzolini C, Stader F, Stoeckle M, Franzeck F, Egli A, Bassetti S, et al.	Effect of Systemic Inflammatory Response to SARS-CoV-2 on Lopinavir and Hydroxychloroquine Plasma Concentrations.	Antimicrob Agents Chemother. 2020 Aug 20;64(9):e01177-20. doi: 10.1128/AAC.01177-20. →Link

Insel Gruppe		
Authors	Titel	Journal
Brigger D, Horn MP, Pennington LF, Powell AE, Siegrist D, Weber B, et al.	Accuracy of serological testing for SARS-CoV-2 antibodies: First results of a large mixed-method evaluation study.	Allergy. 2021 Mar;76(3):853-865. doi: 10.1111/all.14608. Epub 2020 Nov 13. PMID: 32997812; PMCID: PMC7537154. →Link
Spinetti T, Hirzel C, Fux M, Walti LN, Schober P, Stueber F, et al.	Reduced Monocytic Human Leukocyte Antigen-DR Expression Indicates Immunosuppression in Critically Ill COVID-19 Patients.	Anesth Analg. 2020 Oct;131(4):993-999. doi: 10.1213/ANE.0000000000005044. PMID: 32925314; PMCID: PMC7288784. →Link
Chowdhury R, Heng K, Shawon SR, Goh G, Okonofua D, Ochoa-Rosales C, et al.	Global Dynamic Interventions Strategies for COVID-19 Collaborative Group. Dynamic interventions to control COVID-19 pandemic: a multivariate prediction modelling study comparing 16 worldwide countries.	Eur J Epidemiol. 2020 May;35(5):389-399. doi: 10.1007/s10654-020-00649-w. Epub 2020 May 19. PMID: 32430840; PMCID: PMC7237242. →Link
Guler SA, Ebner L, Beigelmann C, Bridevaux PO, Brutsche M, Clarenbach C, et al.	Pulmonary function and radiological features four months after COVID-19: first results from the national prospective observational Swiss COVID-19 lung study.	Eur Respir J. 2021 Jan 8:2003690. doi: 10.1183/13993003.03690-2020. Epub ahead of print. PMID: 33419891. →Link
Becchetti C, Zambelli MF, Pasulo L, Donato MF, Invernizzi F, Detry O, et al.	COVID-LT group. COVID-19 in an international European liver transplant recipient cohort.	Gut. 2020 Oct;69(10):1832-1840. doi: 10.1136/gutjnl-2020-321923. Epub 2020 Jun 22. PMID: 32571972; PMCID: PMC7335697. →Link
Fontanellaz M, Ebner L, Huber A, Peters A, Löbelenz L, Hourscht C, et al.	A Deep-Learning Diagnostic Support System for the Detection of COVID-19 Using Chest Radiographs: A Multireader Validation Study.	Invest Radiol. 2020 Nov 30. doi: 10.1097/RLI.0000000000000748. Epub ahead of print. PMID: 33259441. →Link
Thi Nhu Thao T, Labrousseau F, Ebert N, V'kovski P, Stalder H, Portmann J, et al.	Rapid reconstruction of SARS-CoV-2 using a synthetic genomics platform.	Nature. 2020 Jun;582(7813):561-565. doi: 10.1038/s41586-020-2294-9. Epub 2020 May 4. PMID: 32365353. →Link
Hauser A, Counotte MJ, Margossian CC, Konstantinou G, Low N, Althaus CL, et al.	Estimation of SARS-CoV-2 mortality during the early stages of an epidemic: A modeling study in Hubei, China, and six regions in Europe.	PLoS Med. 2020 Jul 28;17(7):e1003189. doi: 10.1371/journal.pmed.1003189. PMID: 32722715; PMCID: PMC7386608. →Link
Buitrago-Garcia D, Egli-Gany D, Counotte MJ, Hossmann S, Imeri H, Ipekci AM et al.	Occurrence and transmission potential of asymptomatic and presymptomatic SARS-CoV-2 infections: A living systematic review and meta-analysis.	PLoS Med. 2020 Sep 22;17(9):e1003346. doi: 10.1371/journal.pmed.1003346. PMID: 32960881; PMCID: PMC7508369. →Link
Krittanawong C, Virk HUH, Narasimhan B, Wang Z, Narasimhan H, Zhang HJ et al.	Coronavirus disease 2019 (COVID-19) and cardiovascular risk: A meta-analysis.	Prog Cardiovasc Dis. 2020 Jul-Aug;63(4):527-528. doi: 10.1016/j.pcad.2020.05.001. Epub 2020 May 7. PMID: 32389584; PMCID: PMC7204715. →Link

HUG		
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Lamontagne F, Agoritsas T, Siemieniuk R, Rochweg B, Bartoszko J, Askie L, et al.	A living WHO guideline on drugs to prevent COVID-19.	BMJ. 2021 Mar 1;372:n526. doi: 10.1136/bmj.n526. →Link
Rochweg B, Siemieniuk RA, Agoritsas T, Lamontagne F, Askie L, Lytvyn L, et al.	A living WHO guideline on drugs for COVID-19.	BMJ. 2020 Sep 4;370:m3379. doi: 10.1136/bmj.m3379.PMID: 32887691. →Link
Stringhini S, Wisniak A, Piumatti G, Azman AS, Lauer SA, Baysson H, et al.	Seroprevalence of anti-SARS-CoV-2 IgG antibodies in Geneva, Switzerland (SEROCoV-POP): a population-based study.	Lancet. 2020 Aug 1; 396(10247):313-319. doi: 10.1016/S0140-6736(20)31304-0. Epub 2020 Jun 11. →Link
Nehme M, Braillard O, Alcoba G, Aebischer Perrone S, Courvoisier D, Chappuis F, Guessous I.	COVID-19 Symptoms: Longitudinal Evolution and Persistence in Outpatient Settings.	Ann Intern Med. 2020 Dec 8:M20-5926. doi: 10.7326/M20-5926. Online ahead of print. →Link
Meyer B, Torriani G, Yerly S, Mazza L, Calame A, Arm-Vernez I, Zimmer G, et al.	Validation of a commercially available SARS-CoV-2 serological immunoassay.	Clin Microbiol Infect. 2020 Oct;26(10):1386-1394. doi: 10.1016/j.cmi.2020.06.024. Epub 2020 Jun 27. →Link
L'Huillier AG, Torriani G, Pigny F, Kaiser L, Ecklerle I.	Culture-Competent SARS-CoV-2 in Nasopharynx of Symptomatic Neonates, Children, and Adolescents.	Emerg Infect Dis. 2020 Oct;26(10):2494-2497. doi: 10.3201/eid2610.202403. Epub 2020 Jun 30. →Link
Smit M, Marinosci A, Agoritsas T, Calmy A.	Prophylaxis for COVID-19: a systematic review.	Clin Microbiol Infect. 2021 Apr;27(4):532-537. →Link
Vetter P, Eberhardt CS, Meyer B, Martinez Murillo PA, Torriani G, Pigny F, et al.	Daily Viral Kinetics and Innate and Adaptive Immune Response Assessment in COVID-19: a Case Series.	mSphere. 2020 Nov 11;5(6):e00827-20. doi: 10.1128/mSphere.00827-20. →Link
Longchamp G, Manzocchi-Besson S, Longchamp A, Righini M, Robert-Ebadi H, Blondon M.	Proximal deep vein thrombosis and pulmonary embolism in COVID-19 patients: a systematic review and meta-analysis.	Thromb J. 2021 Mar 9;19(1):15. doi: 10.1186/s12959-021-00266-x. →Link
Uginet M, Breville G, Aszal F, Lövblad KO, Vargas MI, Pugin J, et al.	COVID-19 encephalopathy: clinical and neurobiological features.	J Med Virol. 2021 Mar 30. doi: 10.1002/jmv.26973. Online ahead of print. →Link

CHUV		
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Fenwick C, Turelli P, Pellaton C, Farina A, Campos J, Raclot C, et al.	A multiplexed high-throughput neutralization assay reveals a lack of activity against multiple variants after SARS-CoV-2 infection.	medRxiv, 2021, April 13; doi:org/10.1101/2021.04.08.21255150. →Link
Zimmerli A, Monti M, Fenwick C, Eckerle I, Beigelman-Aubry C, Pellaton C, et al.	Stepwise anti-inflammatory and anti-SARS-CoV-2 effects following convalescent plasma therapy with full clinical recovery.	Front Immunol. <i>In press</i> , doi:10.21203/rs.3.rs-76799/v1 →Link
Fenwick C, Croxatto A, Coste AT, Pojer F, André C, Pellaton C, et al.	Changes in SARS-CoV-2 Spike versus Nucleoprotein Antibody Responses Impact the Estimates of Infections in Population-Based Seroprevalence Studies.	J Virol. 2021 Jan 13;95(3):e01828-20. doi: 10.1128/JVI.01828-20 →Link
Perreau M, Suffiotti M, Marques-Vidal P, Wiedemann A, Levy Y, Laouénan C, et al.	HGF and CXCL13, Two Antagonizing Cytokines in Lung Inflammation and Fibrosis, Predict the Severity and the Mortality of COVID-19.	Research Square; doi: 10.21203/rs.3.rs-241266/v1. →Link
Panchaud A, Favre G, Pomar L, Vouga M, Aebi-Popp K, Baud D; et al.	An international registry for emergent pathogens and pregnancy.	Lancet. 2020 May 9;395(10235):1483-1484. doi: 10.1016/S0140-6736(20)30981-8. →Link
Mahmoudi S, Rezaei M, Mansouri N, Marjani M, Mansouri D.	Immunologic Features in Coronavirus Disease 2019: Functional Exhaustion of T Cells and Cytokine Storm.	J Clin Immunol. 2020 Oct;40(7):974-976. doi: 10.1007/s10875-020-00824-4. →Link
Masmejan S, Pomar L, Favre G, Panchaud A, Giannoni E, Greub G, et al.	Vertical transmission and materno-fetal outcomes in 13 patients with coronavirus disease 2019.	Clin Microbiol Infect. 2020 Nov;26(11):1585-1587. doi: 10.1016/j.cmi.2020.06.035. →Link
Zermatten MG, Pantet O, Gomez F, Schneider A, Méan M, Mazzolai L, et al.	Utility of D-dimers and intermediate-dose prophylaxis for venous thromboembolism in critically ill patients with COVID-19.	Thromb Res. 2020 Dec;196:222-226. doi: 10.1016/j.thromres.2020.08.027. Epub 2020 Aug 21. →Link
Beaud V, Crottaz-Herbette S, Dunet V, Vaucher J, Bernard-Valnet R, Du Pasquier R, et al.	Pattern of cognitive deficits in severe COVID-19.	J Neurol Neurosurg Psychiatry. 2021 May;92(5):567-568. doi: 10.1136/jnnp-2020-325173. →Link
Jacot D, Greub G, Jaton K, Opota O.	Viral load of SARS-CoV-2 across patients and compared to other respiratory viruses.	Microbes Infect. Nov-Dec 2020; 22(10):617-621. doi: 10.1016/j.micinf.2020.08.004. →Link
Patents CHUV (patent applications)		
Fenwick C, Pantaleo G, Turelli P, Trono D.	Neutralizing antibodies and use thereof in the treatment of SARS-CoV- Infection.	Patent application priority data: Jan. 27 2021, PCT/IB2021/050621.
Fenwick C, Pantaleo G, Turelli P, Trono D.	Cell-Free Method for the Quantitative Measurement of Virus Neutralizing Antibodies.	Patent application priority date: November 2, 2020. EU filing number: 20205298.1.

USZ		
Authors	Titel	Journal
Varga Z, Flammer AJ, Steiger P, Haberecker M, Andermatt R, Zinkernagel AS, et al.	Endothelial cell infection and endotheliitis in COVID-19.	Lancet. 2020 May 2;395(10234):1417-1418. doi: 10.1016/S0140-6736(20)30937-5. Epub 2020 Apr 21. PMID: 32325026; PMCID: PMC7172722. →Link
Maccio U, Zinkernagel AS, Shambat SM, Zeng X, Cathomas G, Ruschitzka F, et al.	SARS-CoV-2 leads to a small vessel endotheliitis in the heart.	EBioMedicine. 2021 Jan;63:103182. doi: 10.1016/j.ebiom.2020.103182. Epub 2021 Jan 7. PMID: 33422990; PMCID: PMC7808909. →Link
Burkhard-Koren NM, Haberecker M, Maccio U, Ruschitzka F, Schuepbach RA, Zinkernagel AS, et al.	Higher prevalence of pulmonary macrothrombi in SARS-CoV-2 than in influenza A: autopsy results from 'Spanish flu' 1918/1919 in Switzerland to Coronavirus disease 2019.	J Pathol Clin Res. 2021 Mar;7(2):135-143. doi: 10.1002/cjp2.189. Epub 2020 Nov 13. PMID: 33185036; PMCID: PMC7869934. →Link
Qiu G, Gai Z, Tao Y, Schmitt J, Kullak-Ublick GA, Wang J.	Dual-Functional, Plasmonic Photothermal Biosensors for Highly Accurate Severe Acute Respiratory Syndrome Coronavirus 2 Detection.	ACS Nano. 2020 May 26;14(5):5268-5277. doi: 10.1021/acsnano.0c02439. Epub 2020 Apr 13. PMID: 32281785; PMCID: PMC7158889. →Link
Tepekule B, Hauser A, Kachalov VN, Andresen S, Scheier T, Schreiber PW, et al.	Assessing the potential impact of transmission during prolonged viral shedding on the effect of lockdown relaxation on COVID-19.	PLoS Comput Biol. 2021 Jan 29;17(1):e1008609. doi: 10.1371/journal.pcbi.1008609. PMID: 33513139; PMCID: PMC7875355. →Link
Scheier T, Shah C, Huber M, Sax H, Hasse B, Günthard HF, et al.	Do we cause false positives? An experimental series on droplet or airborne SARS-CoV-2 contamination of sampling tubes during swab collection in a test center.	Antimicrob Resist Infect Control. 2021 Mar 9;10(1):51. doi: 10.1186/s13756-021-00920-z. PMID: 33750477; PMCID: PMC7941134. →Link
Huber M, Schreiber PW, Scheier T, Audigé A, Buonomano R, Rudiger A, et al.	High Efficacy of Saliva in Detecting SARS-CoV-2 by RT-PCR in Adults and Children.	Microorganisms. 2021 Mar 19;9(3):642. doi: 10.3390/microorganisms9030642. PMID: 33808815; PMCID: PMC8003663. →Link
Kirschenbaum D, Imbach LL, Rushing EJ, Fraenknecht KBM, Gascho D, Ineichen BV, et al.	Intracerebral endotheliitis and microbleeds are neuropathological features of COVID-19.	Neuropathol Appl Neurobiol. 2021 Apr;47(3):454-459. doi: 10.1111/nan.12677. Epub 2020 Dec 14. PMID: 33249605; PMCID: PMC7753688. →Link
Cervia C, Nilsson J, Zurbuchen Y, Valaperti A, Schreiner J, Wolfensberger A, et al.	Systemic and mucosal antibody responses specific to SARS-CoV-2 during mild versus severe COVID-19.	J Allergy Clin Immunol. 2021 Feb;147(2):545-557.e9. doi: 10.1016/j.jaci.2020.10.040. Epub 2020 Nov 20. PMID: 33221383; PMCID: PMC7677074. →Link
Adamo S, Chevrier S, Cervia C, Zurbuchen Y, Raebler ME, Yang L, et al.	Profound dysregulation of T cell homeostasis and function in patients with severe COVID-19.	Allergy. 2021 Apr 21. doi: 10.1111/all.14866. Epub ahead of print. PMID: 33884644. →Link