



Wissenschaftliche Publikationen

Publikationsliste 2018 der Medizinischen und Chirurgischen Kliniken, der Abteilungen für Klinische Chemie und Biochemie, Intensivmedizin und Neonatologie, Anästhesie und Bild Diagnostik am Universitäts-Kinderspital Zürich.

Artikel in wissenschaftlichen Zeitschriften

Aebi-Popp, K, Wandeler, G, Salazar-Vizcaya, L, Metzner, K, Stöckle, M, Cavassini, M, **Hoffmann, M**, Lüthi, A, Suter, F, Bernasconi, E, Fehr, Jan, Furrer, H, Rauch, A. **Swiss HIV Cohort Study (2018): 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 Medicine 19 (6), 420-425

Aebi-Popp, K, Bernasconi, E, Kahlert, C, Martinez de Tejada, B, **Nadal, D**, Rudin, Christoph, Stähelin, C, Wagner, N, Vernazza, P, **Paioni, Paolo** (2018): *Empfehlungen der Eidgenössischen Kommission für sexuelle Gesundheit (EKSG) für die medizinische Versorgung von HIV-infizierten Frauen und ihren Kindern.* Bulletin Bundesamt für Gesundheit (50), 10-22

Aebi-Popp, K, Mercanti, V, Voide, C, Nemeth, J, Cusini, A, Jakopp, B, Nicca, D, Rasi, M, Bruno, A, Calmy, A, Martinez de Tejada, B, **Swiss HIV Cohort Study (2018): Neglect of attention to reproductive health in women with HIV infection: contraceptive use and unintended pregnancies in the Swiss HIV Cohort Study.** HIV Medicine 19 (5), 339-346

Akdis, D, Saguner, A M, Medeiros-Domingo, A, Schaller, A, **Balmer, C**, Steffel, J, Brunckhorst, C, Duru, F (2018): *Multiple clinical profiles of families with the short QT syndrome.* Europace 20 (F11), f113-f121

Akeret, Kevin, Bellut, David, Huppertz, Hans-Jürgen, **Ramantani, Georgia**, König, Kristina, Serra, Carlo, Regli, Luca, **Krayenbühl, Niklaus** (2018): *Ultrasonographic features of focal cortical dysplasia and their relevance for epilepsy surgery.* Neurosurgical Focus 45 (3), E5

Albisetti, Manuela, Biss, Branislav, Bomgaars, Lisa, Brandão, Leonardo R, Brueckmann, Martina, Chalmers, Elizabeth, Gropper, Savion, Harper, Ruth, Huang, Fenglei, Luciani, Matteo, Manastirski, Ivan, Mitchell, Lesley G, Tartakovsky, Igor, Wang, Bushi, Halton, Jacqueline M L (2018): *Design and rationale for the DIVERSITY study: An open-label, randomized study of dabigatran etexilate for pediatric venous thromboembolism.* Research and Practice in Thrombosis and Haemostasis 2 (2), 347-356

Albisetti, Manuela, Schlosser, Arno, Brueckmann, Martina, Gropper, Savion, Glund, Stephan, Tartakovsky, Igor, Brandão, Leonardo R, Reilly, Paul A (2018): *Rationale and design of a phase III safety trial of idarucizumab in children receiving dabigatran etexilate for venous thromboembolism.* Research and Practice in Thrombosis and Haemostasis 2 (1), 69-76

Alfadhel, Majid, Nashabat, Marwan, Alrifai, Muhammad Talal, Alshaalan, Hesham, Al Mutairi, Fuad, Al-Shahrani, Saif A, **Plecko, Barbara**, Almass, Rawan, Alsagob, Mayssoon, Almutairi, Faten B, Al-Rumayyan, Ahmed, Al-Twajiri, Waleed, Al-Owain, Mohammed, Taylor, Robert W, Kaya, Namik (2018): *Further delineation of the phenotypic spectrum of ISCA2 defect: A report of ten new cases.* European Journal of Paediatric Neurology 22 (1), 46-

Alocchi, Davide, **Ghraichy, Marie**, Barletta, Elena, Gastaldello, Alessandra, Mariethoz, Julien, Lisacek, Frédérique (2018): *Understanding the glycome: an interactive view of glycosylation from glycompositions to glycoepitopes.* Glycobiology 28 (6), 349-362

Amaxopoulou, Christina, Gnannt, Ralph, Higashigaito, Kai, Jung, Andreas, Kellenberger, Christian J (2018): *Structural and perfusion magnetic resonance imaging of the lung in cystic fibrosis*. *Pediatric Radiology* 48 (2), 165-175 **Ammann-Reiffer C, Bastiaenen CHG, de Bie RA, van Hedel HJA**. *Interrater reliability of two gait performance measures in children with neuromotor disorders across two different settings*. *Dev Med Child Neurol* 59:1158-1163, 2017.

Ambroz, S C, Töteberg-Harms, M, Hanson, James V M, Funk, J, Barthelmes, D, Gerth-Kahlert, Christina (2018): *Outcome of Pediatric Cataract Surgeries in a Tertiary Center in Switzerland*. *Journal of Ophthalmology*, 3230489

Ammann-Reiffer, Corinne, Labruyère, Rob (2018): *Letter to the Editor on «Effects of Antigravity Treadmill Training on Gait, Balance, and Fall Risk in Children With Diplegic Cerebral Palsy»*. *American Journal of Physical Medicine & Rehabilitation* 97 (6), e55-e56

Anagnostopoulou, Pinelopi, Kranz, Nadja, Wolfensberger, Jeremias, Guidi, Marisa, Nyilas, Sylvia, **Koerner-Rettberg, Cordula, Yammine, Sophie, Singer, Florian, Latzin, Philipp** (2018): *Comparison of different analysis algorithms to calculate multiple-breath washout outcomes*. *ERJ Open Research* 4 (3), 00021-2017

Ansar, Muhammad, Chung, Hyunglok, Waryah, Yar M, Makrythanasis, Periklis, Falconet, Emilie, Rao, Ali Raza, Guipponi, Michel, Narsani, Ashok K, **Fingerhut, Ralph, Santoni, Federico A, Ranza, Emmanuelle, Waryah, Ali M, Bellen, Hugo J, Antonarakis, Stylianos E** (2018): *Visual impairment and progressive phthisis bulbi caused by recessive pathogenic variant in MARK3*. *Human Molecular Genetics* 27 (15), 2703-2711

Arhab, Amar, Messlerli-Bürgy, Nadine, **Kakebeeke, Tanja H, Lanzi, Stefano, Stülb, Kerstin, Zysset, Annina E, Leeger-Aschmann, Claudia S, Schmutz, Einat A, Meyer, Andrea H, Munsch, Simone, Kriemler, Susi, Jenni, Oskar G, Puder, Jardena J** (2018): *Childcare Correlates of Physical Activity, Sedentary Behavior, and Adiposity in Preschool Children: A Cross-Sectional Analysis of the SPLASHY Study*. *Journal of Environmental and Public Health* 2018, 9157194

Asadollahi, Reza, Strauss, Justin E, Zenker, Martin, Beuing, Oliver, Edvardson, Simon, Elpeleg, Orly, Strom, Tim M, Joset, Pascal, Niedrist, Dunja, Otte, Christine, Oneda, Beatrice, Boonsawat, Paranchai, Azzarello-Burri, Silvia, Bartholdi, Deborah, Papik, Michael, Zweier, Markus, Haas, Cordula, Ekici, Arif B, Baumer, Alessandra, **Boltshauser, Eugen,**

Steindl, Katharina, Nothnagel, Michael, Schinzel, Albert, Stoeckli, Esther T, Rauch, Anita (2018): *Clinical and experimental evidence suggest a link between KIF7 and C5orf42-related ciliopathies through Sonic Hedgehog signaling*. *European Journal of Human Genetics* 26 (2), 197-209

Aurich-Schuler, Tabea, van Hedel, Hubertus, Labruyère, Rob (2018): *Roboterunterstützte Lokomotionstherapie bei Kindern in der Neuroreha*. *Neuroreha* 10 (03), 119-126

Balzer, Julia, Marsico, Petra, Mitteregger, Elena, van der Linden, Marietta L, Mercer, Thomas H, van Hedel, Hubertus J A (2018): *Influence of trunk control and lower extremity impairments on gait capacity in children with cerebral palsy*. *Disability and Rehabilitation* 40 (26), 3164-3170

Barra, Steffen, Bessler, Cornelia, **Landolt, Markus A, Aebi, Marcel** (2018): *Patterns of Adverse Childhood Experiences in Juveniles Who Sexually Offended*. *Sexual Abuse: Journal of Research & Treatment* 30 (7), 803-827

Barra, Steffen, Bessler, Cornelia, **Landolt, Markus A, Aebi, Marcel** (2018): *Testing the validity of criminal risk assessment tools in sexually abusive youth*. *Psychological Assessment* 30 (11), 1430-1443

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Baumann, Philipp, Wiegert, Susanne, Greco, Francesco, Wellmann, Sven, L'Abate, Pietro, Cannizzaro, Vincenzo (2018): *Mechanical ventilation strategies alter cardiovascular biomarkers in an infant rat model*. *Physiological Reports* 6 (2), e13553

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Béguelin, Charles, Suter, Annatina, Bernasconi, Enos, Fehr, Jan, Kovari, Helen, Bucher, Heiner C, Stoeckle, Marcel, Cavassini, Mathias, Rougemont, Mathieu, Schmid, Patrick, Wandeler, Gilles, Rauch, Andri, **Swiss HIV Cohort Study** (2018): *Trends in HCV treatment uptake, efficacy and impact on liver fibrosis in the Swiss HIV Cohort Study*. *Liver International* 38 (3), 424-431

Belle, Fabiën N, Weiss, Annette, Schindler, Matthias, Goutaki, Myrofora, Bochud,

Murielle, **Zimmermann, Karin,** von der Weid, Nicolas, Ammann, Roland A, Kuehni, Claudia E (2018): *Overweight in childhood cancer survivors: the Swiss Childhood Cancer Survivor Study*. *The American Journal of Clinical Nutrition* 107 (1), 3-11

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Berger, Christoph, Quinto, Carlos Beat, Weil, Barbara, Hadorn, Linda (2018): *Versorgungssicherheit mit Impfstoffen*. *Schweizerische Ärztezeitung (SÄZ)* 99 (32), 1010-1014

Bergsträsser, Eva (2018): *Pädiatrische Palliative Care: was ist bei Kindern anders als bei Erwachsenen?*. *Therapeutische Umschau. Revue thérapeutique* 75 (2), 101-104

Bergsträsser, Eva, Niggli, Felix, Seifert, L (2018): *Wie Grosseltern die Krebserkrankung eines Enkelkindes erleben*. *Paediatrica* 29 (4), 32-36

Berthold, O, Clemens, V, Ahne, S, Witt, A, **von Aster, Michael,** von Moers, A, Plener, P, Kölch, M, Fegert, J. M (2018): *Kinderschutz im Rettungsdienst: Erkennen, Bewerten, Handeln*. *Notfall & Rettungsmedizin* 21 (2), 110-119

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Bijarnia-Mahay, Sunita, **Häberle, Johannes,** Jalan, Anil B, Puri, Ratna Dua, Kohli, Sudha, Kudalkar, Ketki, **Rüfenacht, Véronique,** Gupta, Deepti, Maurya, Deepshikha, Verma, Jyotsna, Shigematsu, Yosuke, Yamaguchi, Seiji, Saxena, Renu, Verma, Ishwar C (2018): *Urea cycle disorders in India: clinical course, biochemical and genetic investigations, and prenatal testing*. *Orphanet Journal of Rare Diseases* 13, 174

Blau, Nenad, Martinez, Aurora, Hoffmann, Georg F, **Thöny, Beat** (2018): *DNAJC12 deficiency: A new strategy in the diagnosis of hyperphenylalaninemia*. *Molecular Genetics and Metabolism* 123 (1), 1-5

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Böhme, Tanja, Medinger, Michael, Suen-derhauf, Claudia, **Speer, Oliver, Schmutz, Markus**, Passweg, Jakob, Bachofner, Adrian [2018]: *Severe anemia after trans-catheter arterial chemoembolization-an unusual presentation of hemoglobin Zurich*. *Annals of Hematology* 97 (11), 2249-2251

Bollache, Emilie, Barker, Alex J, Dolan, Ryan Scott, Carr, James C, van Ooij, Pim, Ahmadian, Rouzbeh, Powell, Alex, Collins, Jeremy D, **Geiger, Julia**, Markl, Michael [2018]: *k-t accelerated aortic 4D flow MRI in under two minutes: Feasibility and impact of resolution, k-space sampling patterns, and respiratory navigator gating on hemodynamic measurements*. *Magnetic Resonance in Medicine* 79 (1), 195-207

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Boltshauser, Eugen [2018]: *Rhoton's Atlas of Head, Neck, and Brain*. *Neuropediatrics* 49 (4), 298

Boltshauser, Eugen, Toelle, Sandra, Scheer, Iana, Hackenberg, Annette [2018]: *Torcular Pseudomass*. *Neuropediatrics* 49 (03), 225-226

Bouilly, Justine, Messina, Andrea, Papadakis, Georgios, Cassatella, Daniele, Xu, Cheng, Acierno, James S, Tata, Brooke, Sykiotis, Gerasimos, Santini, Sara, Sidis, Yisrael, Elowe-Gruau, Eglantine, Phan-Hug, Franziska, Hauschild, Michael, Bouloux, Pierre-Marc, Quinton, Richard, **Lang-Muritano, Mariarosaria**, Favre, Lucie, Marino, Laura, Giacobini, Paolo, Dwyer, Andrew A, Niederländer, Nicolas J, Pitteloud, Nelly [2018]: *DCC/NTN1 complex mutations in patients with congenital hypogonadotropic hypogonadism impair GnRH neuron development*. *Human Molecular Genetics* 27 (2), 359-372

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Braun, Dominique L, Marzel, Alex, Steffens, Daniela, Schreiber, Peter W, Grube, Christina, Scherrer, Alexandra U, Kouyos, Roger D, Günthard, Huldrych F, **Swiss HIV Cohort Study** [2018]: *High rates of subsequent asymptomatic STIs and risky sexual behavior in patients initially presenting with primary HIV-1 infection*. *Clinical Infectious Diseases* 66 (5), 735-742

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Burg, Dominic, Schofield, James P R, Brandsma, Joost, et al, **Singer, Florian**, U-BIOPRED Study Group [2018]: *Large-Scale Label-Free Quantitative Mapping of the Sputum Proteome*. *Journal of Proteome Research* 17 (6), 2072-2091

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Christmann, Martin, Wipf, Alexandra, **Dave, Mital Hitendu, Quandt, Daniel, Niesse, Oliver, Deisenberg, Markus, Hersberger, Martin, Kretschmar, Oliver, Knirsch, Walter** [2018]: *Risk factor analysis for a complicated postoperative course after neonatal arterial switch operation: The role of troponin T*. *Congenital Heart Disease* 13 (4), 594-601

Corbacioglu, S, Carreras, E, Ansari, M, Balduzzi, A, Cesaro, S, Dalle, J-H, Dignan, F, Gibson, B, **Güngör, Tayfun**, Gruhn, B, Lankester, A, Locatelli, F, Pagliuca, A, Peters, C, Richardson, P G, Schulz, A S, Sedlacek, P, Stein, J, Sykora, K-W, Toporski, J, Trigoso, E, Vetteranta, K, Wachowiak, J, Wallhult, E, Wynn, R, Yaniv, I, Yesilipek, A, Mohty, M, Bader, P [2018]: *Diagnosis and severity criteria for sinusoidal obstruction syndrome/veno-occlusive disease in pediatric patients: a new classification from the European society for blood and*

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Cosandier-Rimélé, D, **Ramantani, G**, Zentner, J, Schulze-Bonhage, A, Dümpelmann, M (2017): *A realistic multimodal modeling approach for the evaluation of distributed source analysis: application to sLORETA*. *Journal of Neural Engineering* 14 (5), 056008

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De Young, Alexandra C, **Landolt, Markus A** (2018): *PTSD in Children Below the Age of 6 Years*. *Current Psychiatry Reports* 20 (11), 97

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Brack, Eva (2018): *Exploiting Oxidative Stress as a Therapeutic Option in Rhabdomyosarcoma*
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Liesch M. Validity and reliability of the Workspace assessment in the ChARMin roboter. Masterthesis D-HEST. Leiter Prof. Huub van Hedel, ETH Zurich, 2017.

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Willimann M. Screening of short-hairpin RNAs for Knock-down of porcine ornithine transcarbamylase (OTC) mRNA. Leiter Prof. B. Thöny, Zürich, 2017.

Wolf AC. Exploiting oxidative stress as a therapeutic option in alveolar rhabdomyosarcoma. Leiter Prof. B. Schäfer. Cancer Biology USZ. Zürich, 2017.

Preise und Ehrungen

Prof. Dr. med. Christoph Berger, Infektiologie, Funding des Swiss Personalized Health Network (SPHN) Projektes (CHF 444'015), mit Christoph Berger als PI in Zusammenarbeit mit ETH, UKBB, USZ, «SwissPKcdw: optimising pediatric dosing regimes based on a clinical data warehouse»

Charles Capdeville, Onkologie **Best poster award** at the 8th FZK/CRC Retreat, «Endocytosis: its regulation and functional relevance for the establishment of the proinvasive phenotype in Medulloblastoma»

Dr. sc. ETH Sara Fattinger, Entwicklungspädiatrie, **Best publication award** of the Swiss Society for Neuroscience, «Deep sleep maintains learning efficiency of the human brain.»

Dr. sc. ETH Sara Fattinger, Entwicklungspädiatrie, «**Best publication award** of the Swiss Society for Sleep Research, Sleep Medicine and Chronobiology, «Deep sleep maintains learning efficiency of the human brain.»

Dr. phil. Hiu Man Grisch-Chan, Stoffwechsel, **Best oral presentation award** at the 8th FZK/CRC Retreat, «Treatment of a metabolic liver disease by in vivo genome base editing in adult mice»

Emanuel Hubmann, Herzchirurgie, **Best poster award** at the 8th FZK/CRC Retreat, «Design of a Long-term Mechanical Circulatory Support Device for Patients with Fontan Circulation»

Katharina Holste, Onkologie, **Best oral presentation award** at the 8th FZK/CRC Retreat «A CRISPR/Cas9 domain screen identifies a small motif in the PAX3-FOXO1 transactivation domain relevant for tumour maintenance in alveolar Rhabdomyosarcoma»

PD Dr. dr. med. Andras Jakab, Zentrum für MR-Forschung, **Andres-Giedion-Preis**, Swiss Society for Pediatric Radiology

PD Dr. dr. med. Andras Jakab, Zentrum für MR-Forschung, **Best oral presentation** at the 52nd Annual Meeting of the Association for European Paediatric and Congenital Cardiology

Prof. Dr. rer. nat. Tanja Kakebeeke, Entwicklungspädiatrie, **Creativity prize** of the department of pediatric surgery at the 8th FZK/CRC Retreat, «A clumsy child? Just give me 5 minutes»

Julia Lehmann, Infektiologie, **UZH Semesterpreis** der Universität Zürich, «Mechanisms by which T helper cells regulate activation-induced cytidine deaminase (AID) in B cell precursor acute lymphoblastic leukemia»

Claudia Meloni, Entwicklungspädiatrie, **UZH Semesterpreis** der Universität Zürich, «Behavioral outcome of children with congenital heart disease at six years of age.»

Dr. Dr. med. Patrick Meyer-Sauteur, Infektiologie, **Best oral presentation award** at the 8th FZK/CRC Retreat, «Diagnosis of Mycoplasma pneumoniae childhood pneumonia with measurement of specific antibody-secreting cells»

Dr. med. univ. (A) et phil. Raphael Morscher, Onkologie, **SSP/SGP Talentpreis 2018** «Mitochondrial translation requires folate-dependent tRNA methylation.» Morscher RJ, Ducker GS, Li SH, Mayer JA, Gitai Z, Sperl W, Rabinowitz JD. Nature. 2018 Feb 1;554(7690):128-132. doi: 10.1038/nature25460. Epub 2018 Jan 24.

Gloria Pedot, Onkologie, **Best oral presentation award** at the 8th FZK/CRC Retreat, Protein stability screening to identify compounds destabilizing EWS-FLI1 in Ewing sarcoma

Prof. Dr. med. Jana Pachlopnik Schmid, Immunologie, Klinischer Forschungsschwerpunktprojekt (KFSP), Universität Zürich für 2019-2021 (Prof. Boyman USZ, Prof. Pachlopnik Kispil), CHF: 1 Mio., «Zürich initiative on novel cytokine-directed treatments for immune dysregulation (CYTIMM-Z)»

Dr. med. Beate Rücker, Kardiologie, **Best poster award** at the 8th FZK/CRC Retreat «Parameters of biventricular deformation in patients with repaired and unrepaired Ebstein's anomaly – assessment by tissue tracking cardiovascular magnetic resonance»

Dr. Caroline Roduit, Stiftung Pfizer, **Forschungspreis 2018**, Bereich Pädiatrie «Die Phänotypen der atopischen Dermatitis sind mit unterschiedlichen Risiken für andere Allergien assoziiert.»

Dr. Daisy Rymen, **Free communication award** at the 51th conference of the European Metabolic Group, Lyon, France, «Intracellular trafficking of collagens in FKBP14-kEDS», Insgesamt 23 laufende SNF, EU und NIH Grants mit Gesamtausgaben von CHF 3.42 Mio in den Abteilungen Endokrinologie, Entwicklungspädiatrie, Gastroenterologie, Hämatologie, Immunologie, Neonatologie, Klinische Chemie, Onkologie, Psychosomatik, Rehabilitation, Stoffwechsel

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PD Dr. Sean Froese, Stoffwechsel, Froese S, Kopec J, Rembeza E, Bezerra GA, Oberholzer AE, Suormala T, Lutz S, Chalk R, Borkowska O, Baumgartner MR, Yue WW. *Structural basis for the regulation of human 5,10-methylenetetrahydrofolate reductase by phosphorylation and S-adenosylmethionine inhibition.* Nat Commun. 2018 Jun 11;9(1):2261.

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