



# Wissenschaftliche Publikationen

## Publikationsliste 2017 der Medizinischen und Chirurgischen Kliniken, der Abteilungen für Klinische Chemie und Biochemie, Intensivmedizin und Neonatologie, Anästhesie und Bilddiagnostik am Kinderspital Zürich.

### Artikel in wissenschaftlichen Zeitschriften

**Abadir N, Schmidt M, Laube GF, Weitz M.**

*Imaging in children with unilateral ureteropelvic junction obstruction: time to reduce investigations?* Eur J Pediatr 176:1173-1179, 2017.

**Abela L, Spiegel R, Crowther LM, Klein**

**A, Steindl K, Papuc SM, Joset P, Zehavi Y, Rauch A, Plecko B, Simmons TL.** *Plasma metabolomics reveals a diagnostic metabolic fingerprint for mitochondrial aconitase (ACO2) deficiency.* PLoS One 12:e0176363, 2017.

Adams M, Braun J, Bucher HU, Puhan MA, Bassler D, Von Wyl V (incl. **Bernet V**); Swiss Neonatal Network. *Comparison of three different methods for risk adjustment in neonatal medicine.* BMC Pediatr 17:106, 2017.

Aebi M, Mohler-Kuo M, Barra S, Schnyder U, Maier T, **Landolt MA.** *Posttraumatic stress and youth violence perpetration: A population-based cross-sectional study.* Eur Psychiatry 40:88-95, 2017.

Aeschlimann FA, Angst F, Hofer KD, **Canizzaro Schneider E, Schroeder-Kohler S, Lauener R,** van der Kleij D, Rispen S T,

**Saurenmann RK.** *Prevalence of Anti-infliximab Antibodies and Their Associated Co-factors in Children with Refractory Arthritis and/or Uveitis: A Retrospective Longitudinal Cohort Study.* J Rheumatol 44:224-341, 2017.

Agyeman P, Barazzone C, Hammer J, Heiniger U, **Nadal D,** Pfamatter JP, Posfay-Barbe KM, Pfister RE. *Konsensus Statement zur Prävention von Respiratory Syncytial Virus (RSV)-Infektionen mit dem humanisierten monoklonalen Antikörper Palivizumab (Synagis): Update 2016.* Paediatrica 28(2):14-16, 2017.

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Alisic E, Tyler MP, Giummarra MJ, Kassam-Adams R, Gouweloos J, **Landolt MA,** Kassam-

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Al Sayed MF, Ruckstuhl CA, Hilmenyuk T, Claus C, **Bourquin JP, Bornhauser BC,** Radpour R, Riether C, Ochsenbein AF. *CD70 reverse signaling enhances NK cell function and immunosurveillance in CD27-expressing B-cell malignancies.* Blood 130:297-309, 2017.

**Ammann-Reiffer C,** Bastiaenen CH, **Meyer-Heim AD, van Hedel HJ.** *Effectiveness of robot-assisted gait training in children with cerebral palsy: a bicenter, pragmatic, randomized, cross-over trial (PeLoGAIT).* BMC Pediatrics 17:64, 2017.

**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.

Andereggen L, Biétry D, **Kottke R**, Andres RH. *Intracranial Foreign Body in a Patient with paranoid Schizophrenia*. *J Craniofac Surg* 28:e685-e687, 2017.

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**Aurich-Schuler T, Grob F, van Hedel HJA, Labruyère R**. *Can Lokomat therapy with children and adolescents be improved? An adaptive clinical pilot trial comparing Guidance force, Path control, and FreeD*. *J Neuroengl Rehabil* 14:76, 2017.

**Balzer J**, van der Linden ML, Mercer TH, **van Hedel HJA**. *Selective voluntary motor control measures of the lower extremity in children with upper motor neuron lesions: a systematic review*. *Dev Med Child Neurol* 59:699-705, 2017.

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Belle F, Wengenroth L, Weiss A, Sommer G, Beck Popovic M, Ansari M, Bochud M, Kuehni C (incl. **Bergsträsser E, Grotzer M**; Swiss Paediatric Oncology Group (SPOG)). *Low adherence to dietary recommendations in adult childhood cancer survivors*. *Clin Nutr* 36:1266-1274, 2017.

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Bieber T, D'Erme AM, Akdis CA, Traidl-Hoffmann C, **Lauener R**, Schächli G, Schmid-

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**Bieli C, Summermatter S, Boutellier U, Moeller A**. *Respiratory muscle training improves respiratory muscle endurance but not exercise tolerance in children with cystic fibrosis*. *Pediatr Pulmonol* 52:331-336, 2017.

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**Bölsterli Heinzle BK, Bast T, Critelli H, Huber R, Schmitt B**. *Erratum: Age-Dependency of Location of Epileptic Foci in «Continuous Spike-and-Waves during Sleep»: A Parallel to the Posterior-Anterior Trajectory of Slow Wave Activity*. *Neuropediatrics* 48:36-41, 2017.

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**Bourquin JP**. *A precision medicine approach to haematological malignancies*. *Lancet Haematol* 4:e567-e568, 2017.

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## Dissertationen

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**Alsha A.** *Feasibility and applicability of SESI-HRMS breath analysis in infants.* Leiter PD Dr. A. Möller. Diss Zürich, 2017.

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**Beham K.** *Transthoracic intracardiac catheters in pediatric cardiac patients: a single-center experience.* Leiterin: Frau PD Dr. B. Brotschi. Diss. Zürich, 2017.

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**Corro C.** *Dissecting Tumor Heterogeneity and Cancer Stem Cell Properties in Clear Cell Renal Cell Carcinoma.* Leiter Prof. H. Moch, Prof. B. Schäfer. Diss. Pathology USZ. Zürich, 2017.

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**Dietlicher A.** *Ertrinkungsunfälle bei Kindern: Epidemiologie, Behandlung, Rehabilitation und Langzeitverlauf.* Leiter PD Dr. A. Meyer-Heim. Diss Zürich, 2017.

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**Fattinger S.** *Markers of the sleep-wake history in the human electroencephalogram and their relationship to cortical connectivity.* Leiter Prof. R. Huber, Prof. D. Wolfer. Diss. ETH Zürich, 2017.

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**Herzog S.** *Effectiveness of balloon angioplasty in children with recurrent aortic coarctation depends on the type of aortic arch pathology.* Leiter Prof. W. Knirsch. Diss Zürich, 2017.

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**Maric A.** *Chronically increased sleep pressure: Electrophysiological correlates and behavioral consequences.* Leiter Prof. C. Baumann, Prof. R. Huber, Prof. L. Jäncke. Diss. Philosophische Universität Zürich, 2017.

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**Martinez Leanes Furter MF.** *Exercise-induced hypertension pre- and post-endovascular stenting of aortic coarctation in children.* Leiter Prof. O. Kretschmar. Diss Zürich, 2017.

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**Meier S.** *Frequency and characteristics of challenging behaviour in a paediatric rehabilitation setting.* Leiter PD Dr. Andreas Meyer-Heim. Diss Zürich, 2017.

**Muster IB.** *Factors influencing ACT after intravenous bolus administration of 100IU/kg of unfractionated heparin during cardiac catheterization in children.* Leiter Prof. W. Knirsch. Diss Zürich, 2017.

**Mordasini V.** *Activation of ATR-Chk1 pathway facilitates EBV-mediated transformation of primary tonsillar B-cells.* Leiter: Prof. D. Nadal, Frau Prof. A. Müller, Prof. C. Fraefel, Prof. Ch. Münz, Prof. A. Sartori, Prof. M. Bernasconi. Diss. Zürich, 2017.

**Naef N.** *Neurodevelopmental profiles of children with congenital heart disease at school age.* Frau Prof. B. Latal. Diss Zürich, 2017.

**Rochat MA.** *HIV latency, in vitro and in vivo studies.* Leiter: Prof. R. Speck, Prof. Ch. Münz, Prof. D. Nadal, Prof. M.O. Hottiger. Diss. Zürich, 2017.

**Schnorf G.** *Influence of methylphenidate on the topography of sleep slow wave activity in children with attention-deficit/hyperactivity disorder.* Leiter Prof. R. Huber. Diss Zürich, 2017.

**Wyss YE.** *Interventional closure of secundum type atrial septal defects in infants less than 10 kilograms: indications and procedural outcome.* Leiter Dr. D. Quandt. Diss Zürich, 2017.

**Zimmermann C.** *Dilatation and Dysfunction of the Neo-aortic Root and in 76 patients after the Ross Procedure.* Leiterin Frau Dr. Ch. Attenhofer Jost. Diss Zürich, 2017.

## Habilitationen

**Bornhauser B.** *A promise to kill: necroptosis for cancer therapy.* Habil Zürich, 2017.

**Siler U.** *Gentherapie – mehr als Hoffnungsträger der personalisierter Medizin.* Habil Zürich, 2017.

**Trück J.** *Infektionen bei Kindern mit B-Zell-Defekten.* Habil Zürich, 2017.

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## Wissenschaftliche Publikationen in elektronischer Form

Schwarz C, Düesberg U, Bend J, Schulte-Hubbert B, van Koningsbruggen-Rietschel S, Bremer W, Hammermann J, Illing S, **Jung A.** *S3-Leitlinie: Lungenerkrankung bei Mukoviszidose, Modul 2: Diagnostik und Therapie bei der chronischen Infektion mit Pseudomonas aeruginosa.* <http://www.awmf.org/leitlinien/detail/II/020-018.html>



## Masterarbeiten

**Alptekin G.** *Functional characterization of the oncogenic chimeric transcription factor TCF3-HLF.* Leiter Prof. J.P. Bourquin. Zürich, 2017.

**Ambühl M.** *Physical activity during paediatric rehabilitative therapies.* Health Sciences and Technology, Masterthesis D-HEST. Leiter Prof. Huub van Hedel. ETH Zurich, 2017.

**Burkhard J.** *Einfluss des ADHS auf die Koordination und Visomotorik.* Leiter Prof. R. Huber und Prof. O. Jenni, Zürich, 2017.

**Baumberger J.** *Retrospektive Aktenanalyse der vom Palliative Care Team betreuten Patienten des Universitäts-Kinderspitals Zürich im Zeitraum 2011-2015.* Leiterin Frau PD Dr. E. Bergsträsser. Zürich, 2017.

**Busuttill T.** *Entwicklung von ehemaligen Schülern der Sonderpädagogisch-therapeutischen Tagesschule des Kinderspitals Zürich.* Leiter Prof. O. Jenni. Zürich, 2017.

**Chung Y.** *Pharmaceutical Science ETH Zürich: Characterization of NuRD complex components in paediatric cancer.* Leiter Prof. B. Schäfer. Zürich, 2017.

**Dehmer M.** *Characterization of MDM2 as a novel putative target gene of PAX3-FOXO1 in alveolar rhabdomyosarcoma.* Leiter Prof. B. Schäfer. Zürich, 2017.

**di Pietro M.** *Einfluss von Bewegungsförderung in Kinderkrippen auf die motorischen Fähigkeiten von Vorschulkindern.* Leiter Prof. O. Jenni. Zürich, 2017.

**Fattinger S.** *Interacting with spike-wave activity by closed-loop acoustic stimulation during sleep? A pilot study in patients with childhood epilepsies.* Leiter Prof. B. Schmitt, Zürich, 2017.

**Ferrazzini V.** *Fragebogen zur Beurteilung der motorischen Entwicklung von Kindern im Alter von 3-5 Jahren.* Leiter Prof. O. Jenni. Zürich, 2017.

**Furrer M.** *Closed loop manipulation of sleep in ADHD.* Leiter Prof. R. Huber. Mathematisch-Naturwissenschaftliche Fakultät Zürich, 2017.

**Fux L.** *The role of T helper cells in EBV-associated malignancies.* Masterarbeit in Health Sciences and Technology. Leiter Prof. D. Nadal. Zürich, 2017.

**Hartmannsdottir H.** *Chemotherapy-induced cell death in leukemia is beyond caspase activation.* Leiter Prof. J.P. Bourquin. Zürich, 2017.

**Heidelbereger R.** *Niedrig-dosierte Gentherapie der Phenylketonurie in Mäusen mittels nicht-viralen, Minicircle-Vektoren mit endogenem, leberspezifischem Promotor und Codon-optimierter sowie Intron-enthaltenen Phenylalaninhydroxylase-Expressionskassette.* Leiter Prof. B. Thöny, Zürich, 2017.

**Hug K.** *Entwicklung eines Minimal Data Sets für die Pädiatrische Palliative Care basierend auf einem systematischen Review.* Leiterin Frau PD Dr. E. Bergsträsser. Zürich, 2017.

**Jäggi V.** *Expression, enzymatic activity, and c-myc targeting of the APOBEC enzymes A3B and A3G in Burkitt lymphoma.* Masterarbeit Experimental Infectious Diseases and Cancer Research und Institut für Pharmazeutische Wissenschaften. Leiter Frau Dr. S. Bürgler, Prof. D. Nadal. ETH Zürich. 2017.

**Lauber M.** *Case report and study on S-adenosyl-methionine treatment für Lesch Nyhan Disease.* Leiter Prof. J. Häberle, Zürich, 2017.

**Lehmann J.** *Mechanisms by which T helper cells regulate activation-induced cytidine deaminase (AID) in B cell precursor acute lymphoblastic leukemia.* Masterarbeit Experimental Infectious Diseases and Cancer Research. Leiter Frau S. Traxel, Frau Dr. S. Bürgler, Prof. D. Nadal. Zürich, 2017.

**Liesch M.** *Validity and reliability of the Workspace assessment in the ChARMin roboter.* Masterthesis D-HEST. Leiter Prof. Huub van Hedel, ETH Zurich, 2017.

**Liepelt M.** *Heterodimerization of ALXR and GPR32? - Two G-Protein-Coupled Receptors Involved in the Resolution of Inflammation.* Leiter Prof. M. Hersberger, Zürich, 2017.

**Märki R.** *MR spectroscopy metabolites and sleep.* Leiter Prof. R. Huber. Mathematisch-Naturwissenschaftliche Fakultät Zürich, 2017.

**Marquardt L.** *Case report on a patient with IL7RA deficient SCID.* Leiterin Frau Prof. J. Pachlopnik. Zürich, 2017.

**Meloni CC.** *Behavioral outcome of children with congenital heart disease at six years of age.* Leiterin Frau Prof. B. Latal. Zürich, 2017.

**Moser M.** *Die ambulante Grundversorgung von Kindern und Jugendlichen zwischen 2007 und 2015 in der Schweiz.* Leiter Prof. O. Jenni. Zürich, 2017.

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**Pagliarulo F.** *Neonatal Screening for SCID: a Systematic Review.* Leiterin Frau Prof. J. Pachlopnik. Zürich, 2017.

**Poli S.** *Variation of sleep EEG slow wave activity signal intensity across electrodes in relation to he anatomical cortical localization.* Leiter Prof. R. Huber. University of Trieste, 2017.

**Sato D.** *The spectrum of mutations in the Moldavian phenylketonuria population.* Leiter Prof. B. Thöny, Zürich, 2017.

**Spieß M.** *The falling asleep period in children.* Leiter Prof. R. Huber. Zürich, 2017.

**Simmen S.** *Stellenwert der Spiroergometrie bei Kindern mit angeborenen Herzfehler.* Leiterin Frau Prof. E. Valsangiacomo. Zürich, 2017.

**Vanoni G.** *Feasibility of a Novel Body Weight Support Robot for Children Undergoing Gait Rehabilitation.* Masterthesis D-HEST. Leiter Prof. Huub van Hedel. ETH Zurich, 2017.

**von Büren M.** *A new method to assess activity profiles of children and adolescents with neuro-motordisorders in their everyday life.* Masterthesis D-HEST. Leiter Prof. Huub van Hedel, ETH Zürich, 2017.

**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

**Nadine Bernasconi**, Pneumologie  
**Best poster award** at the 7<sup>th</sup> FZK/CRC Retreat.  
«Association of small airway function and cystic fibrosis mutation»

**Alessandra Bosch**, EC-Labor  
FZK-Nachwuchsforschungs-Grant 2017.  
«miRNAs in Sickle Cell Disease»

**Judith Graser**, Pediatric Rehab Research Group  
**Best Talk Award** at the International Symposium on Neuro-Rehabilitation: Strategies for Customized Treatments. «Tailored robot-assisted arm rehabilitation in children: the role of the practice order».

**Dr. Marcus Granegger**, Herzchirurgie  
**Heidi Ras-Grant** 2017. «Herzerholung durch optimale mechanische Herzunterstützung - Untersuchung am isolierten Grosstierherz»

**KD Dr. med. Sepp Holtz**, Entwicklungspädiatrie  
**Fanconi Preis** 2017 der Schweizerischen Gesellschaft für Pädiatrie

**Dr. Alice Catherine Hölscher**, Kinderurologie  
**FZK-Nachwuchsforschungs-Grant** 2017.  
«Whole Body Vibration Training in the treatment for children's incontinence - a randomized controlled trial»

**Dr. András Jakab**, MR-Forschung  
**FZK-Nachwuchsforschungs-Grant** 2017.  
«How does the brain change its structure and connections in congenital diseases before birth? A fetal magnetic resonance imaging study»

**Prof. Oskar Jenni**, Entwicklungspädiatrie  
**Julius Springer Preis** der Deutschen Gesellschaft für Kinder- und Jugendmedizin für die beste Arbeit in der Monatsschrift für Kinderheilkunde in den letzten drei Jahren

**Elisa Knaier**, Entwicklungspädiatrie  
**FZK-SNF-Overhead-Grant** 2017. «Developmental coordination disorder in children - Towards a more precise evaluation of the clinical picture and the underlying mechanism»

**Dr. Karin Kucian**, MR-Forschung  
**Best oral presentations awards** at the 7<sup>th</sup> FZK/CRC Retreat. «Mathematical anxiety in the brain of children»

**Andrea Mauracher**, Immunologie  
**Preis für das beste Poster im Bereich der klinischen Immunologie** am Jahreskongress 2017 der Schweizerischen Gesellschaft für Allergologie und Immunologie. «A personalized medicine approach to the diagnosis and therapy of a patient with a novel STAT3 gain-of-function mutation»

**Jessica Migliavacca**, Onkologie  
**Best poster awards** at the 7<sup>th</sup> FZK/CRC Retreat. «Identification and targeting of the MAP4K4 effector mechanisms that mediate tumor cell migration and invasion in medulloblastoma»

**Gabriele Manzella**, Onkologie  
**Best oral presentations awards** at the 7<sup>th</sup> FZK/CRC Retreat. «A personalized pre-clinical platform to guide treatment decisions for rhabdomyosarcoma patients»

**Laura Marquardt**, Immunologie  
**Preis für hervorragende Semesterarbeiten** 2017 der Universität Zürich. Masterarbeit zum Thema «Schwerer kombinierter Immundefekt (SCID)»

**Dr. Volker Ressel**, Pediatric Rehab Research Group  
**Best poster awards** at the 7<sup>th</sup> FZK/CRC Retreat. «Diffusion Tensor Imaging to predict cognitive outcome in children with acquired brain lesion»

**Lea Tschirren**, Pediatric Rehab Research Group  
**Anna-Müller Grocholski price** of the Swiss Academy of Child Disability. «The Eating and Drinking Ability Classification System: Concurrent validity and reliability in children with cerebral palsy». Co-authors were S. Bauer, Ch. Hanser, P. Marsico, D. Sellers and H. van Hedel.

**Dr. Nina Zeltner**, Stoffwechsel  
**Creativity prize** of the department of pediatric surgery at the 7<sup>th</sup> FZK/CRC Retreat. «Reduction of complexity: Explaining metabolic diseases and treatment in children»

## Herausragende Publikationen

**Sara Fattinger**  
Fattinger S, de Beukelaar TT, Ruddy KL, Volk C, Heyse NC, Herbst JA, Hahnloser RHR, Wenderoth N, Huber R. *Deep sleep maintains learning efficiency of the human brain*. Nat Commun. 2017 May 22;8:15405. doi: 10.1038/ncomms15405

**Prof. Dr. med. Daniel Konrad**, Endokrinologie/Diabetologie  
Flurin Item, Stephan Wueest, Vera Lemos, Sokrates Stein, Fabrizio C. Lucchini, Rémy Denzler, Muriel C. Fisser, Tenagne D. Challa, Eija Pirinen, Youngsoo Kim, Silvio Hemmi, Erich Gulbins, Atan Gross, Lorraine A. O'Reilly, Markus Stoffel, Johan Auwerx & Daniel Konrad (2017). *Fas cell surface death receptor controls hepatic lipid metabolism by regulating mitochondrial function*. Nature Communications, 8:480.

**PD Dr. med. Alexander Möller**, Pneumologie und Zentrum für Cystische Fibrose  
Das CF Zentrum des Kinderspitals hat als einziges Schweizer Studienzentrum, mit weltweit am meisten Patienten, im European Cystic Fibrosis Clinical Trial Network an einer internationalen Phase 3 Studie für die neue Krankheitsmodifizierende Therapie der cystischen Fibrose mit den Wirkstoffen Tezacaftor / Ivacaftor teilgenommen. Daraus resultierende Publikation: Taylor-Cousar JL, Munck A, McKone EF, van der Ent CK, Moeller A, Simard C, Wang LT, Ingenito EP, McKee C, Lu Y, Lekstrom-Himes J, Elborn JS. *Tezacaftor-Ivacaftor in Patients with Cystic Fibrosis Homozygous for Phe508del*. N Engl J Med. 2017 Nov 23;377(21):2013-2023.