

## Univ.-Prof. Dr. med. Thomas Lücke

### Publikationen per reviewed von 2015 bis 2020

#### 2015

- CLPB mutations cause 3-methylglutaconic aciduria, progressive brain atrophy, intellectual disability, congenital neutropenia, cataracts, movement disorder.  
**Am J Hum Genet. 2015;96(2): 245-57** (Impact(2015)=10.794, Impact(2017)=8.855, Typ=Journal Article; Research Support, Non-U.S. Gov't; Research Support, N.I.H., Extramural; Article)  
Wortmann SB, Ziętkiewicz S, Kousi M, Szklarczyk R, Haack TB, Gersting SW, Muntau AC, Rakovic A, Renkema GH, Rodenburg RJ, Strom TM, Meitinger T, Rubio-Gozalbo ME, Chrusciel E, Distelmaier F, Golzio C, Jansen JH, van Karnebeek C, Lillquist Y, Lücke T, Öunap K, Zordania R, Yaplito-Lee J, van Bokhoven H, Spelbrink JN, Vaz FM, Pras-Raves M, Ploski R, Pronicka E, Klein C, Willemsen MA, de Brouwer AP, Prokisch H, Katsanis N, Wevers RA
- The L-arginine/NO pathway, homoarginine, and nitrite-dependent renal carbonic anhydrase activity in young people with type 1 diabetes mellitus.  
**Amino Acids. 2015;47(9): 1865-74** (Impact(2015)=3.196, Impact(2017)=2.906, Typ=Journal Article; Research Support, Non-U.S. Gov't; Article)  
Carmann C, Lilienthal E, Weigt-Usinger K, Schmidt-Choudhury A, Hörster I, Kayacelebi AA, Beckmann B, Chobanyan-Jürgens K, Tsikas D, Lücke T
- The L-arginine/NO pathway and homoarginine are altered in Duchenne muscular dystrophy and improved by glucocorticoids.  
**Amino Acids. 2015;47(9): 1853-63** (Impact(2015)=3.196, Impact(2017)=2.906, Typ=Journal Article; Article)  
Hörster I, Weigt-Usinger K, Carmann C, Chobanyan-Jürgens K, Köhler C, Schara U, Kayacelebi AA, Beckmann B, Tsikas D, Lücke T
- Biosynthesis of homoarginine (hArg) and asymmetric dimethylarginine (ADMA) from acutely and chronically administered free L-arginine in humans.  
**Amino Acids. 2015;47(9): 1893-908** (Impact(2015)=3.196, Impact(2017)=2.906, Typ=Journal Article; Article)  
Kayacelebi AA, Langen J, Weigt-Usinger K, Chobanyan-Jürgens K, Mariotti F, Schneider JY, Rothmann S, Frölich JC, Atzler D, Choe CU, Schwedhelm E, Huneau JF, Lücke T, Tsikas D
- Homoarginine (hArg) and asymmetric dimethylarginine (ADMA) in short stature children without and with growth hormone deficiency: hArg and ADMA are involved differently in growth in the childhood.  
**Amino Acids. 2015;47(9): 1875-83** (Impact(2015)=3.196, Impact(2017)=2.906, Typ=Journal Article; Article)  
Langen J, Kayacelebi AA, Beckmann B, Weigt-Usinger K, Carmann C, Hörster I, Lilienthal E, Richter-Unruh A, Tsikas D, Lücke T

- Effects of chronic oral L-arginine administration on the L-arginine/NO pathway in patients with peripheral arterial occlusive disease or coronary artery disease: L-Arginine prevents renal loss of nitrite, the major NO reservoir. **Amino Acids. 2015;47(9): 1961-74** (Impact(2015)=3.196, Impact(2017)=2.906, Typ=Journal Article; Article)  
Schneider JY, Rothmann S, Schröder F, Langen J, Lücke T, Mariotti F, Huneau JF, Frölich JC, Tsikas D
- Oligoclonal bands predict multiple sclerosis in children with optic neuritis. **Ann Neurol. 2015;77(6): 1076-82** (Impact(2015)=9.638, Impact(2017)=10.244, Typ=Journal Article; Multicenter Study; Observational Study; Article)  
Heussinger N, Kontopantelis E, Gburek-Augustat J, Jenke A, Vollrath G, Korinthenberg R, Hofstetter P, Meyer S, Brecht I, Kornek B, Herkenrath P, Schimmel M, Wenner K, Häusler M, Lutz S, Karenfort M, Blaschek A, Smitka M, Karch S, Piepkorn M, Rostasy K, Lücke T, Weber P, Trollmann R, Klepper J, Häussler M, Hofmann R, Weissert R, Merckenschlager A, Buttman M, for GRACE-MS (German-speaking Research Alliance for ChildrEn with Multiple Sclerosis)
- Lack of IL7R $\alpha$  expression in T cells is a hallmark of T-cell immunodeficiency in Schimke immuno-osseous dysplasia (SIOD). **Clin Immunol. 2015;161(2): 355-65** (Impact(2015)=4.034, Impact(2017)=3.557, Typ=Journal Article; Article)  
Sanyal M, Morimoto M, Baradaran-Heravi A, Choi K, Kambham N, Jensen K, Dutt S, Dionis-Petersen KY, Liu LX, Felix K, Mayfield C, Dekel B, Bokenkamp A, Fryssira H, Guillen-Navarro E, Lama G, Brugnara M, Lücke T, Olney AH, Hunley TE, Polat AI, Yis U, Bogdanovic R, Mitrovic K, Berry S, Najera L, Najafian B, Gentile M, Nur Semerci C, Tsimaratos M, Lewis DB, Boerkoel CF
- First description of Leber's hereditary optic neuropathy in association with the 3243A > G  
**Eur J Neurol. 2015;22 1: 30-30** (Impact(2015)=3.956, Impact(2017)=4.621, Typ=Meeting Abstract)  
Catarino C, Thiels C, Köhler C, Lücke T, Klopstock T
- Echogenicity of basal ganglia structures in different Huntington's disease phenotypes. **J Neural Transm. 2015;122(6): 825-33** (Impact(2015)=2.587, Impact(2017)=2.776, Typ=Journal Article; Article)  
Saft C, Hoffmann R, Strassburger-Krogias K, Lücke T, Meves SH, Ellrichmann G, Krogias C
- Early-onset leukoencephalopathy due to a homozygous missense mutation in the DARS2 gene. **Mol Cell Probes. 2015;29(5): 319-22** (Impact(2015)=1.565, Impact(2017)=1.689, Typ=Journal Article; Article)  
Köhler C, Heyer C, Hoffjan S, Stemmler S, Lücke T, Thiels C, Kohlschütter A, Löbel U, Horvath R, Kleinle S, Benet-Pages A, Abicht A
- Stable or improved neurological manifestations during miglustat therapy in patients from the international disease registry for Niemann-Pick disease type

C: an observational cohort study.

**Orphanet J Rare Dis. 2015;10: 65** (Impact(2015)=3.29, Impact(2017)=3.607, Typ=Article; Journal Article; Research Support, Non-U.S. Gov't; Research Support, N.I.H., Extramural)

Patterson MC, Mengel E, Vanier MT, Schwierin B, Muller A, Cornelisse P, Pineda M, NPC Registry investigators, Amado-Fondo A, Amraoui Y, Andria G, Arellano M, Audoin B, Azcona C, Barr C, Baruteau J, Baumgartner C, Bell L, Bembi B, Bennedif K, Bernard G, Bobocea N, Bodzioch M, Boettcher T, Bonnan M, Broue P, Bruni A, Caceres M, Camino R, Campbell E, Cances C, Cannell P, Cesar J, Chabrol B, Chakrapani A, Colao R, Collet A, Corsetti T, Cousins A, Covanis A, Cox T, Cuisset JM, Dardis A, Das A, Deegan P, Dengler T, Deodato F, Derralyann H, Di Donato I, Di Rocco M, Dinopoulos A, DomanskaPakiela, Eckehard S, Engelen M, Eyer D, Fecarotta S, Federico A, Filla A, Fiumara A, Fonseca MJ, Gabrielli O, Garcia T, Garrote J, Gissen P, Giugliani L, Greenberg C, Heron B, Hertzberg C, Higgins F, Hill A, Hiwot T, Hlavata A, Hörbe-Blindt A, Howley E, Hussain N, Illsinger S, Imrie J, Jacklin E, Jones S, Jovanovic A, Kaczmarek V, Kaphan E, Kibaek M, Kleinhans P, Klünemann KH, Koch SM, Koegl-Wallner W, Kolnikova M, Korenke GC, Korinthenberg R, Kumari S, Lachmann R, Lee Ann L, Likopoulou L, Lilienthal E, Link B, Lippold M, Lopez-Laso E, Luecke T, Lundgren J, Mackrell M, Madruga M, Maletta R, Malinova V, Manners J, Marinei R, Marquardt T, Martins E, Martins AM, Martins N, McAlister L, McCabe A, McKie M, McMahon S, Meehan M, Meldgaard Lund A, Mendozah C, Mengel E, Meyer A, Mielke S, Milligan A, Mir P, Moisa M, Mombelli C, Morris L, Müller vom Hagen J, Munoz B, Murphy E, Nagarajan L, Neto PB, Nevsimalova S, Nia S, Nicolai J, Niemann D, Niktari G, O'Callaghan MD, Paucar-Arce M, Peers K, Peintinger L, Peralta M, Pérez J, Perez-Poyato M, Petrariu A, Pineda, Puschmann A, Raiman J, Rask O, Rataj J, Raymond-Gaynor C, Reichelt G, Ribeiro E, Riches V, Roberts A, Roelants J, Rohrbach M, Rokicki D, Rolfs A, Russo C, Rutsch F, Saleem R, Santos M, Schmutz P, Schwahn B, Sedel F, Semotok J, Sharma R, Silska S, Silva A, Simmons L, Sivera R, Skorpen J, Sole G, Souza C, Stadlober-Degwerth M, Starling J, Temudo T, Tomas M, Tranchant C, Uziel G, Valayannopoulous V, Van den Hout H, Van der Tol L, Van Spronsen F, Vellodi A, Verdu A, Vilchez JJ, Vinaixa A, Visser G, Voelker J, Waldek S, Walter A, Walterfang M, Wein U, Widner H, Wilcke C, Wildish L, Wraith E, Wright N, Xaidara A, Yamamoto M, Zallocco F, Zielke S

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Morimoto M, Wang KJ, Yu Z, Gormley AK, Parham D, Bogdanovic R, Lücke T, Mayfield C, Weksberg R, Henderson G, Boerkoel CF

## 2016

- Diagnostic support for selected neuromuscular diseases using answer-pattern recognition and data mining techniques: a proof of concept multicenter

prospective trial.

**BMC Med Inform Decis Mak. 2016;16: 31** (Impact(2016)=1.643, Impact(2017)=2.134, Typ=Article; Journal Article; Multicenter Study; Research Support, Non-U.S. Gov't; Article)

Grigull L, Lechner W, Petri S, Kollwe K, Dengler R, Mehmecke S, Schumacher U, Lücke T, Schneider-Gold C, Köhler C, Güttsches AK, Kortum X, Klawonn F

- Cognitive Development in Children with Benign Rolandic Epilepsy of Childhood with Centrotemporal Spikes - Results of a Current Systematic Database Search.  
**Fortschr Neurol Psychiatr. 2016;84(10): 617-632** (Impact(2016)=0.633, Impact(2017)=0.395, Typ=Review; Journal Article; English Abstract; Review)  
Neumann H, Helmke F, Thiels C, Polster T, Selzer LM, Daseking M, Petermann F, Lücke T
- Antibodies to MOG and AQP4 in children with neuromyelitis optica and limited forms of the disease.  
**J Neurol Neurosurg Psychiatry. 2016;87(8): 897-905** (Impact(2016)=7.349, Impact(2017)=7.144, Typ=Article; Journal Article; Article)  
Lechner C, Baumann M, Hennes EM, Schanda K, Marquard K, Karenfort M, Leiz S, Pohl D, Venkateswaran S, Pritsch M, Koch J, Schimmel M, Häusler M, Klein A, Blaschek A, Thiels C, Lücke T, Gruber-Sedlmayr U, Kornek B, Hahn A, Leyboldt F, Sandrieser T, Gallwitz H, Stoffels J, Korenke C, Reindl M, Rostásy K
- Atypical Clinical Presentations of TAZ Mutations: An Underdiagnosed Cause of Growth Retardation?  
**JIMD Rep. 2016;29: 89-93** (Typ=Journal Article)  
Thiels C, Flegler M, Huemer M, Rodenburg RJ, Vaz FM, Houtkooper RH, Haack TB, Prokisch H, Feichtinger RG, Lücke T, Mayr JA, Wortmann SB

## 2017

- From Nutrients to Food And Meals: The Concept of the Optimized Mixed Diet for Children and Adolescents in Germany  
**Aktuel Ernährungsmed. 2017;42(4): 304-315** (Typ=Article)  
Kersting M, Kalhoff H, Lücke T
- Comprehensive analysis of the L-arginine/L-homoarginine/nitric oxide pathway in preterm neonates: potential roles for homoarginine and asymmetric dimethylarginine in foetal growth.  
**Amino Acids. 2017;49(4): 783-794** (Impact(2017)=2.906, Typ=Article; Journal Article)  
Buck A, Kayacelebi AA, Chobanyan-Jürgens K, Illsinger S, Bohnhorst B, Beckmann B, Hanff E, Das AM, Tsikas D, Lücke T
- Novel Unbalanced Translocations Affecting the Long Arms of Chromosomes 10 and 22 Cause Complex Syndromes with Very Severe Neurodevelopmental Delay, Speech Impairment, Autistic Behavior, and Epilepsy.  
**Cytogenet Genome Res. 2017;151(4): 171-178** (Impact(2017)=1.587,

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- Social Cognition in Children Born Preterm: A Perspective on Future Research Directions.  
**Front Psychol. 2017;8: 455** (Impact(2017)=2.089, Typ=Article; Journal Article)  
Zmyj N, Witt S, Weitekämper A, Neumann H, Lücke T
- Simultaneous GC-ECNICI-MS measurement of nitrite, nitrate and creatinine in human urine and plasma in clinical settings.  
**J Chromatogr B Analyt Technol Biomed Life Sci. 2017;1047: 207-214** (Impact(2017)=2.441, Typ=Article; Proceedings Paper; Journal Article; Validation Studies)  
Hanff E, Lützow M, Kayacelebi AA, Finkel A, Maassen M, Yanchev GR, Haghikia A, Bavendiek U, Buck A, Lücke T, Maassen N, Tsikas D
- Current Practice of Pre- and Postnatal Screening and Future Developments for Evidence Based Guidelines.  
**Klin Padiatr. 2017;229(1): 2-13** (Impact(2017)=0.698, Typ=Article; Journal Article; English Abstract)  
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- Novel homozygous missense mutation in ALDH7A1 causes neonatal pyridoxine dependent epilepsy.  
**Mol Cell Probes. 2017;32: 18-23** (Impact(2017)=1.689, Typ=Article; Journal Article; Case Reports)  
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**Mol Genet Metab. 2017;121(3): 206-215** (Impact(2017)=3.774, Typ=Article; Journal Article)  
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- Healthy Development and Developmental Disorders in the first Year of Life  
**Monatsschr Kinderheilkd. 2017;165(4): 288-300** (Impact(2017)=0.23, Typ=Article) Lücke T
- Pulmonary Arteriel Microembolism As an Initial Manifestation of Behcets Disease  
**Monatsschr Kinderheilkd. 2017;165(5): 427-432** (Impact(2017)=0.23, Typ=Article)  
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**Nature. 2017;551(7680): 327-332** (Impact(2017)=41.577, Typ=Article; Journal Article)  
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## 2018

- Answer to the letter: Vegan child nutrition is possible without any defect  
**Aktuel Ernährungsmed. 2018;43(4): 266-267** (Typ=Letter)  
Kersting M, Kalhoff H, Melter M, Lücke T
- Results, meta-analysis and a first evaluation of UR, the urinary nitrate-to-nitrite molar ratio, as a measure of nitrite reabsorption in experimental and clinical settings.  
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**Dtsch Med Wochenschr. 2018;143(4): 279-286** (Impact(2017)=0.523, Typ=Article; Journal Article)  
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**Early Hum Dev. 2018;127: 85-89** (Impact(2017)=2.025, Typ=Article; Journal Article; Research Support, Non-U.S. Gov't)  
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**Fortschr Neurol Psychiatr. 2018;86(4): 233-241** (Impact(2017)=0.395, Typ=Article; Journal Article; English Abstract)  
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- Thyroid Hormone Status in Overweight Children with Attention Deficit/Hyperactivity Disorder.  
**Horm Res Paediatr. 2018;89(3): 150-156** (Impact(2017)=2.103, Typ=Article; Journal Article)  
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- Cannabinoids for Treatment of Dystonia in Huntington's Disease.  
**J Huntingtons Dis. 2018;7(2): 167-173** (Typ=Article; Journal Article)  
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- Vigabatrin with hormonal treatment versus hormonal treatment alone (ICISS) for infantile spasms: 18-month outcomes of an open-label, randomised controlled trial.  
**Lancet Child Adolesc Health. 2018;2(10): 715-725** (Typ=Article; Journal Article)  
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- Novel Nonsense Mutation in Initially Presenting as Myopathy: Case Report and Review of the Literature.  
**Mol Syndromol. 2018;9(2): 100-109** (Typ=Review; Journal Article)  
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- Impact of Hippotherapy on Gross Motor Function and Quality of Life in Children with Bilateral Cerebral Palsy: A Randomized Open-Label Crossover Study. **Neuropediatrics. 2018;49(3): 185-192** (Impact(2017)=1.605, Typ=Article; Journal Article) Deutz U, Heussen N, Weigt-Usinger K, Leiz S, Raabe C, Polster T, Daniela S, Moll C, Lücke T, Krägeloh-Mann I, Hollmann H, Häusler M
- 25-Hydroxvitamin D concentrations are not lower in children with bronchial asthma, atopic dermatitis, obesity, or attention-deficient/hyperactivity disorder than in healthy children. **Nutr Res. 2018;52: 39-47** (Impact(2017)=2.707), Typ=Article; Journal Article; Research Support, Non-U.S. Gov't) Reinehr T, Langrock C, Hamelmann E, Lücke T, Koerner-Rettberg C, Holtmann M, Legenbauer T, Gest S, Frank M, Schmidt B, Radkowski K, Jöckel KH

## 2019

- Praktische Beratung und Betreuung bei vegetarischer Kinderernährung Empfehlungen aus dem Forschungsdepartment Kinderernährung Bochum **Monatsschrift Kinderheilkunde. 2019** (Impact (2019)=0.312) Kalhoff H, Lücke T, Kersting M.
- Systematic review of oral and craniofacial findings in patients with Fabry disease or Pompe disease **British Journal of Oral and Maxillofacial Surgery. 2019 Nov;57(9):831-838**



(Impact (2019)=1.164)

Benz K, Hahn P, Hanisch M, Lücke K, Lücke T, Jackowski J

- Fatigue and depression predict health-related quality of life in patients with pediatric-onset multiple sclerosis  
**Multiple Sclerosis and Related Disorders. 2019 Nov;36** (Impact (2019)=5.649)  
Storm van's Gravesande K, Blaschek A, Calabrese P, Rostásy K, Huppke P, Kessler J, Kalbe E, Mall V, ... Lücke T as part of MUSICADO Study Group
- The Multiple Sclerosis Inventory of Cognition for Adolescents (MUSICADO): A brief screening instrument to assess cognitive dysfunction, fatigue and loss of health-related quality of life in pediatric-onset multiple sclerosis  
**Official Journal of the European Paediatric Neurology Society. 2019 Nov;23(6):792-800** (Impact (2019)=2.496)  
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