

1. Curriculum Vitae, PD Dr. phil. II Dr. habil. Anne Christin Meyer-Gerspach

A) PERSONAL INFORMATION

Name, Surname:	Meyer-Gerspach, Anne Christin
Work address:	St. Clara Research Ltd. Kleinriehenstrasse 30, 4002 Basel
Phone/Mail:	061 685 86 44 annechristin.meyer@claraspital.ch annechristin.meyergerspach@unibas.ch
Scientific IDs	https://orcid.org/0000-0003-4104-8812 ResearcherID: A-9865-2012
Websites	https://dkf.unibas.ch/de/forschungsgruppen/forschungschwerpunkte/endokrinologie-metabolismus-entwicklungsstoerungen/forschungsgruppe-meyer-gerspach-ach/ https://www.claraforschung.ch/kontakte-organigramm/anne-christin-meyer-gerspach

B) TRAINING

10/2004 – 09/2007	Bachelor of Science , Nutritional Science Technical University of Munich (TUM), Freising, Germany
10/2007 – 09/2009	Master of Science , Nutritional Science, Title: "The role of taste-receptor blockade on glucose-homeostasis and in the secretion of gastrointestinal satiety peptides in humans." Technical University of Munich (TUM), Freising, Germany
10/2009 – 11/2012	PhD , Physiology of Eating, Title: 'Gut induced biomarkers of appetite and satiety' Degree: magna cum laude Department of Biomedicine & Division of Gastroenterology, University Hospital Basel, Basel, Switzerland
03/2019	Habilitation , Experimental Medicine, University Basel, Basel, Switzerland

C) PREVIOUS AND CURRENT EMPLOYMENT

12/2012 – 12/2014	Postdoctoral research , Physiology of Eating Department of Biomedicine & Division of Gastroenterology, University Hospital Basel, Basel, Switzerland
12/2014 – 06/2016	Postdoctoral research , Gastrointestinal Motility Translational Research Centre for Gastrointestinal Disorders, Catholic University of Leuven, Leuven, Belgium
07/2016 – 03/2018	Academic Research Associate Department of Research, St. Claraspital Basel, Basel, Switzerland
04/2018 – 06/2019	Senior Scientist St. Clara Research Ltd at St. Claraspital Basel, Basel, Switzerland
07/2019 – today	Co-Head Metabolic Research St. Clara Research Ltd at St. Claraspital Basel, Basel, Switzerland
07/2020 – today	Deputy Head St. Clara Research Ltd St. Clara Research Ltd at St. Claraspital Basel, Basel, Switzerland
04/2022 – today	Research Group Leader Department of Clinical Research, Faculty of Medicine, University of Basel, Basel, Switzerland

D) ADDITIONAL QUALIFICATIONS

10/2005 – 09/2006	Train as a tutor, Technical University of Munich, Germany
03/2010	Clinical Investigator Course, Advanced Study Centre, University Basel, Switzerland
06/2013	Research Funding Course, Ressort Equal Opportunities, University Basel, Switzerland

02/2014 – 06/2017	Sammelzertifikat Hochschuldidaktik, Hochschuldidaktik of the University Basel, Switzerland
09/2019	Clinical Sponsor-Investigator Course, Advanced Study Centre, University Basel, Switzerland
12/2020	Supervisor Course, Faculty of Medicine, Department of Public Health, University Basel, Switzerland
03/2021 – 05/2021	Leadership Training I, Coverdale Schweiz GmbH, Basel, Switzerland
11/2021	Leadership Workshop Interview Training, Coverdale Schweiz GmbH, Basel, Switzerland

E) SUPERVISION OF JUNIOR RESEARCHERS

2011 – 2022	Supervision of various internships, master, doctoral, MSc and PhD students (see below ‘3. Research output, PD Dr. phil. II Dr. habil. Anne Christin Meyer-Gerspach’)
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F) TEACHING

2005 – 2006	Tutor of the Tutorial-Program Weihenstephan, Freising, Germany (1h/week)
2011 – 2023	Supervision of internships, master, doctoral, MSc and PhD theses
2017	Lectureship University Basel/Faculty of Medicine/Klinik für Präventivzahnmedizin und Orale Mikrobiologie (1h/week), Basel, Switzerland
2018	Lectureship University Basel/Faculty of Medicine/Klinik für Präventivzahnmedizin und Orale Mikrobiologie (2h/week), Basel, Switzerland
2018	Tutor United European Gastroenterology Summer School, May 2018, Prague, Czechia
2019	Lectureship University Basel/Faculty of Medicine/Klinik für Präventivzahnmedizin und Orale Mikrobiologie (2h/week), Basel, Switzerland
2019	Tutor United European Gastroenterology Summer School, June 2019, Prague, Czechia
	Lectureship College of Education/Human Biology; FHNW. November 2019, FHNW, Muttenz, Switzerland
2020	Lectureship University Basel/Faculty of Medicine/Klinik für Präventivzahnmedizin und Orale Mikrobiologie (2h/week), Basel, Switzerland Expert Nutritional Science ZHAW Food & Beverage Innovation Think Tank. October 2020, ZHAW, Wädenswil, Switzerland
2021	Lectureship University Basel/Faculty of Medicine/Klinik für Präventivzahnmedizin und Orale Mikrobiologie (2h/week), Basel, Switzerland Lectureship College of Education/Human Biology; FHNW. November 2021, FHNW, Muttenz, Switzerland Expert Nutritional Science ZHAW Food & Beverage Innovation Think Tank. November 2021, ZHAW, Wädenswil, Switzerland
2022	Lectureship University Basel/Faculty of Medicine/Klinik für Präventivzahnmedizin und Orale Mikrobiologie (2h/week), Basel, Switzerland Expert Nutritional Science ZHAW Food & Beverage Innovation Think Tank. November 2022, ZHAW, Wädenswil, Switzerland
2023	Lectureship University Basel/Faculty of Medicine/Klinik für Präventivzahnmedizin und Orale Mikrobiologie (2h/week), Basel, Switzerland Expert Nutritional Science ZHAW Food & Beverage Innovation Think Tank. November 2023, ZHAW, Wädenswil, Switzerland

G) PANELS, BOARDS, EXPERT ACTIVITIES, MEMBERSHIPS

- Review activity: Diabetes, Obesity & Metabolism; Appetite; Endocrinology, Diabetes & Metabolism; Nutrients, etc.
- Expert activities: Allianz Ernährung und Gesundheit AG Zucker; Science Media Center Germany
- Member: Society for the Study of Ingestive Behavior, American Society for Nutrition

H) AWARDS

- 2010 **Travel Award** Winner, 18th United European Gastroenterology Week (UEGW), October 2010, Barcelona, Spain.
- 2011 **Award for Top Poster**, Title: The role of the stomach in the control of appetite and the secretion of satiation peptides. 19th United European Gastroenterology Week (UEGW), October 2011, Stockholm, Sweden.
- Travel Award** Winner, 19th United European Gastroenterology Week (UEGW), October 2011, Stockholm, Sweden.
- National Scholar Award for Switzerland**, Title: A physiological role for the sweet taste receptor during the intestinal phase of nutrient stimulated satiation. 19th United European Gastroenterology Week (UEGW), October 2011, Stockholm, Sweden.
- 2012 **Travel Award** Winner, 20th United European Gastroenterology Week (UEGW), October 2012, Amsterdam, Netherlands.
- 2013 **New Investigator Travel Award** Winner, 21th Annual Meeting of the Society for the Study of Ingestive Behavior (SSIB), July 2013, New Orleans, USA.
- Travel Award** Winner, 21th United European Gastroenterology Week (UEGW), October 2013, Berlin, Germany.
- 2014 **Travel Award** Winner, 22th United European Gastroenterology Week (UEGW), October 2014, Vienna, Austria.
- 2015 **Travel Award** Winner, 23th United European Gastroenterology Week (UEGW), October 2015, Barcelona, Spain.
- 2016 **Best Poster Pitch Award**, Title: Effect of amino acids on gastric emptying and gut hormone secretion in non-diabetic obese and lean subjects. European Obesity Summit (EOS), June 2016, Gothenburg, Sweden.
- Travel Award** Winner, 24th United European Gastroenterology Week (UEGW), October 2016, Vienna, Austria.
- National Scholar Award for Switzerland**, Title: Xylitol and erythritol induce satiation peptide release and retardation in gastric emptying in healthy humans. 24th United European Gastroenterology Week (UEGW), October 2016, Vienna, Austria.
- 2017 **2*Travel Award** Winner, 25th United European Gastroenterology Week (UEGW), October 2017, Barcelona, Spain.
- 2018 **Travel Award** Winner, 26th United European Gastroenterology Week (UEGW), October 2018, Vienna, Austria.
- 2021 **Best Abstract Award**, Title: The role of the gut sweet taste receptor in regulating gut hormone release in response to the low-caloric sweeteners D-allulose and erythritol in humans: a randomized, controlled trial. 29th United European Gastroenterology Week (UEGW), October 2021, online.
- 2022 **Travel Award** Winner, 30th United European Gastroenterology Week (UEGW), October 2022, Vienna, Austria.
- National Scholar Award for Switzerland**, Title: Oral erythritol reduces subsequent energy intake: a randomized, controlled, crossover study in lean participants. 30th United European Gastroenterology Week (UEGW), October 2022, Vienna, Austria.

2. Scientific performance, PD Dr. phil. II Dr. habil. Anne Christin Meyer-Gerspach

A) APPROVED PROJECTS

12/2013 – 12/2014 Postdoctoral research projects University Hospital Basel

- Role of amino acids in the release of GI peptides in normal weight and obese subjects.
- Role of amino acids on brain activity in normal weight and obese subjects. (fMRI-studies)
- Glucose homeostasis and GI peptide secretion after different doses of oral glucose in normal weight subjects and patients before and after bariatric surgery.
- MRI-fat quantification of the liver, subcutaneous and visceral fatty tissue in patients before and after bariatric surgery. (fMRI-studies)
- Effect of glucose and fructose on brain activity in normal weight subjects and patients before and after bariatric surgery. (fMRI-studies)
- Effect of different taste substances on GI peptide secretion and brain activity in normal weight and obese subjects. (fMRI-studies)
- Effect of a test meal on GI peptides secretion and their association to insulin resistance in obese adolescents.
- Incretins in NASH/NAFLD patients.
- Exendin9-39 as probe of the physiologic actions of glucose stimulated endogenous GLP-1.
- Gut microbiota in patients before and after bariatric surgery.
- Expression of gustatory signaling elements in gastric and duodenal tissue in normal weight subjects and patients before and after bariatric surgery.
- Effect of sugar alcohols on GI peptide secretion and brain activity in normal weight and obese subjects." (fMRI-studies)

01/2015 – 06/2016 Postdoctoral research projects Catholic University of Leuven

- Role of gastrointestinal sweet taste receptors in the control of the migrating motor complex and hunger peaks in normal weight and obese subjects.
- Role of the motilin receptor agonist erythromycin on brain mechanisms in normal weight subjects. (fMRI-study)

07/2016 – today Current research projects St. Clara Research Ltd at St. Claraspital

- Effect of the natural sweeteners erythritol and xylitol on gut microbiota, glucose metabolism and gastrointestinal symptoms in children.
- Effect of different concentrations of xylitol and erythritol on the release of gastrointestinal peptides and on gastric emptying rates in normal weight subjects.
- Effect of the natural sweeteners erythritol and xylitol on gut microbiota and glucose metabolism in obese subjects.
- Effect of the natural sweeteners erythritol and xylitol on vascular function in obese subjects.
- Acute and chronic effects of SATIOSTAT on gastric emptying, release of gastrointestinal peptides, energy intake, weight loss, glucose tolerance, gastrointestinal tolerance and gut microbiota in obese subjects.
- Effects of cocoa solids on gastrointestinal transit, postprandial sensation and gastrointestinal well-being in healthy subjects.
- mTOR and adipose tissue inflammation in humans.
- Understanding gut-brain interactions and the effect of a low-carb dietary intervention in obese and depressive patients with and without glucose intolerance or diabetes.
- Mechanism underlying the effect of the erythritol induced secretion of gastrointestinal peptides (lactisole-study).
- Effect of the natural sweetener D-allulose on the release of gastrointestinal peptides, on glucose metabolism and on gastric emptying rates in normal weight subjects.
- Effect of the natural sweetener erythritol, as well as the artificial sweetener sucralose on energy intake.
- Reward responses to oral erythritol using flavor preference learning and its effects on gastrointestinal hormones, glycemic control, appetite-related sensations, and emotional state.
- Effect of daily erythritol versus sucrose intake over 5 weeks on glucose tolerance in adolescents.
- Metabolic mechanisms and inflammatory responses after bariatric surgery.

- Effect of the natural sweetener xylitol, as well as the artificial sweetener acesulfame-k on energy intake.

B) FUNDING

Period	Title	Amount (CHF)	Main applicant (M), Co-Applicant (C)	Institution
01/2014 – 12/2014	The role of amino acids in the release of satiation peptides	80'0000	A.C. Meyer-Gerspach (M)	Fonds für Nachwuchsförderung Universität Basel
01/2015 – 06/2016	The role of gastrointestinal sweet taste receptors in the control of the migrating motor complex and hunger peaks	66'000	A.C. Meyer-Gerspach (M)	SNF – Early Postdoc Mobility (P2BSP3_158845)
05/2017 – 05/2018	Effekt der natürlichen Süßungsmittel Erythrit und Xylit auf die Gefäßfunktion bei übergewichtigen Freiwilligen	20'000	A.C. Meyer-Gerspach (M)	Freie Akademische Gesellschaft Basel
12/2017 – 12/2018	Effect of the natural sweeteners erythritol and xylitol on vascular function in obese volunteers	100'000	A.C. Meyer-Gerspach (M)	Stiftung zur Förderung der gastroenterologischen und allgemeinen klinischen Forschung sowie der medizinischen Bildauswertung
05/2019 – 05/2022	Effect of the natural sweeteners erythritol and xylitol on gut microbiota and metabolic function and clinical application in obese children.	527'065	A.C. Meyer-Gerspach (C)	Fondation Botnar
04/2020 – 04/2024	Replacing sugar with the natural sweetener erythritol as an alternative for artificial sweeteners: satiating and rewarding without calories?	460'764	A.C. Meyer-Gerspach (M)	SNF/FWO – Lead Agency Project
04/2022 – 04/2026	Effects of oral administration of the low-caloric sweeteners erythritol and xylitol on reward responses using flavor preference learning and on subsequent energy intake, as well as on gastrointestinal hormones, glycemic control, and appetite-related sensations.	302'000	A.C. Meyer-Gerspach (M)	UNISCIENTIA Foundation
Total:		CHF 1'528'829		

*SNSF: Swiss National Science Foundation

3. Scientific output, PD Dr. phil. II Dr. habil. Anne Christin Meyer-Gerspach

A) PUBLICATIONS

1) Original studies published in peer-reviewed journals as first - or last author

Authors/Title/Journal/Year	IF	Ranking
Gerspach AC , Steinert RE, Schönenberger L., Graber-Maier A., Beglinger C / The role of the gut sweet taste receptor in regulating GLP-1 and PYY release in humans / Am J Physiol Endocrinol Metab / 301(2):E317-25 / 2011 Aug °Steinert RE, °Meyer-Gerspach AC, Beglinger C / The role of the stomach in the control of appetite and the secretion of satiation peptides / Am J Physiol Endocrinol Metab / 302(6):E666-73 / 2012 Mar ° both authors contributed equally to the manuscript	4.514	9/80
Meyer-Gerspach AC , Steinert RE, Keller S, Malarski A, Schulte FH, Beglinger C / Effects of chenodeoxycholic acid on the secretion of gut peptides and fibroblast growth factors in healthy humans / J Clin Endocrinol Metab / 98(8):3351-8 / 2013 Aug	6.209	15/128
Meyer-Gerspach AC , Wölnerhanssen B, Beglinger B, Nessenius F, Schulze FH, Steinert RE, Beglinger C / Gastric and intestinal satiation in obese and normal weight healthy people / Physiology & Behavior / 129:265-71 / 2014 Apr	2.461	19/51
°Beglinger S, °Meyer-Gerspach AC, Graf S, Zumsteg U, Drewe J, Beglinger C, Gutzwiller JP / Effect of a test meal on meal responses of satiation hormones and their association to insulin resistance in obese adolescents / Obesity / 22(9):2047-52 / 2014 Sep ° both authors contributed equally to the manuscript	3.614	18/80
°Wölnerhanssen BK, °Meyer-Gerspach AC, Schmidt A, Zimak N, Peterli R, Beglinger C, Borgwardt S / Dissociable Behavioral, Physiological and Neural Effects of Acute Glucose and Fructose Ingestion: A Pilot Study / PLoS One / 10(6):e0130280 / 2015 Jun ° both authors contributed equally to the manuscript	2.806	15/64
Meyer-Gerspach AC , Cajacob L, Riva D, Herzog R, Drewe J, Beglinger C, Wölnerhanssen BK / Mechanisms regulating insulin response to intragastric glucose in lean and non-diabetic obese subjects: a randomized, double-blind, parallel-group trial / PLoS One / 11(3):e0150803 / 2016 Mar	2.806	15/64
Wölnerhanssen BK, Cajacob L, Keller N, Doody A, Rehfeld JF, Peterli R, Beglinger C, Meyer-Gerspach AC / Gut hormone secretion, gastric emptying and glycemic responses to erythritol and xylitol in lean and obese subjects / Am J Physiol Endocrinol Metab / 310(11):E1053-61 / 2016 Jun	4.142	14/84
°Meyer-Gerspach AC, °Suenderhauf C, Bereiter L, Zanchi D, Beglinger C, Borgwardt S, Wölnerhanssen BK / Gut taste stimulants alter brain activity in areas related to working memory: a pilot study / Neurosignals / 24(1):59-70 / 2016 Jul ° both authors contributed equally to the manuscript	6.143	27/259
°Wölnerhanssen BK, °Meyer-Gerspach AC, Peters T, Beglinger C, Peterli R / Incretin effects, gastric emptying and insulin responses to low oral glucose loads in patients after gastric bypass and lean and obese controls / Surg Obes Relat Dis / 12(7):1320-1327 / 2016 Aug ° both authors contributed equally to the manuscript	4.496	11/197
°Zanchi D, °Meyer-Gerspach AC, Suenderhauf C, Janach K, Le Roux CW, Haller S, Drewe J, Beglinger C, Wölnerhanssen BK, Borgwardt S / Differential effects of L-tryptophan and L-leucine administration on brain resting state functional networks and plasma hormone levels / Sci Rep / 6:35727 / 2016 Oct ° both authors contributed equally to the manuscript	4.259	10/64
Meyer-Gerspach AC , Häfliger S, Meili J, Doody A, Rehfeld JF, Drewe J, Beglinger C, Wölnerhanssen B / Effect of L-tryptophan and L-leucine on gut hormone secretion, appetite feelings and gastric emptying rates in lean and non-diabetic obese	2.806	15/64

participants: a randomized, double-blind, parallel-group trial / PLoS One / 11(11):e0166758 / 2016 Nov		
°Wölnerhanssen BK, °Moran AW, °Burdyga G, ° Meyer-Gerspach AC , Peterli R, Manz M, Thumshirn M, Daly K, Beglinger C, Shirazi-Beechey SP / Deregulation of transcription factors controlling intestinal epithelial cell differentiation; a predisposing factor for reduced enteroendocrine cell number in morbidly obese individuals / <i>Sci Rep</i> / 7(1):8174 / 2017 Aug ° authors contributed equally to the manuscript	4.259	10/64
°Zhao D, ° Meyer-Gerspach AC , Deloose E, Iven J, Weltens N, Depoortere I, O'daly O, Tack J, Van Oudenhove L / The motilin agonist erythromycin increases hunger by modulating homeostatic and hedonic brain circuits in healthy women: a randomized, placebo-controlled study / <i>Sci Rep</i> / 8(1):1819 / 2018 Jan ° both authors contributed equally to the manuscript	4.259	10/64
°Zanchi D, ° Meyer-Gerspach AC , Schmidt A, Suenderhauf C, Depoorter A, Drewe J, Beglinger C, Wölnerhanssen BK, Borgwardt S / Acute effects of glucose and fructose administration on the neural correlates of cognitive functioning in healthy subjects: a pilot study / <i>Frontiers in Psychiatry</i> / 9:71 / 2018 Mar ° both authors contributed equally to the manuscript	3.532	25/139
Meyer-Gerspach AC , Biesiekierski JR, Deloose E, Clevers E, Rotondo A, Rehfeld JF, Depoortere I, Van Oudenhove L, Tack J / Effects of caloric and non-caloric sweeteners on antroduodenal motility, gastrointestinal hormone secretion and appetite-related sensations in healthy subjects / <i>Am J Clin Nutr</i> / 107(5):707-716 / 2018 May	6.926	3/81
Meyer-Gerspach AC , Ly HG, Borgwardt S, Dupont P, Beglinger C, Van Oudenhove L, Wölnerhanssen BK / Endogenous GLP-1 alters postprandial functional connectivity between homeostatic and reward-related brain regions involved in regulation of appetite in healthy lean males: A pilotstudy / <i>Diabetes Obes Metab</i> / 20(10):2330-2338 / 2018 Oct	6.715	12/138
Meyer-Gerspach AC , Peterli R, Moor M, Madörin P, Schötzau A, Nabers D, Borgwardt S, Beglinger C, Bieri O, Wölnerhanssen BK / Quantification of liver, subcutaneous, and visceral adipose tissues by MRI before and after bariatric surgery / <i>Obes Surg</i> / 29(9):2795-2805 / 2019 Sep	3.890	18/200
°Nussbaumer R, ° Meyer-Gerspach AC , Peterli R, Peters T, Beglinger C, Chiappetta S, Drewe J, Wölnerhanssen BK / First-Phase Insulin and Amylin after Bariatric Surgery: A Prospective Randomized Trial on Patients with Insulin Resistance or Diabetes after Gastric Bypass or Sleeve Gastrectomy / <i>Obesity Facts</i> / 13(6):584-595 / 2020 Dec ° both authors contributed equally to the manuscript	3.514	56/143
Bühler J, Rast S, Beglinger C, Peterli R, Peters T, Gebhart M, ° Meyer-Gerspach AC , °Wölnerhanssen BK / Long-Term Effects of Laparoscopic Sleeve Gastrectomy and Roux-Y-Gastric Bypass on Body Composition and Bone Mass Density / <i>Obesity Facts</i> / 14(1):131-140 / 2021 Mar ° both authors contributed equally to the manuscript	3.514	56/143
Meyer-Gerspach AC , Drewe J, Verbeure W, Roux CWL, Dellatorre-Teixeira L, Rehfeld JF, Holst JJ, Hartmann B, Tack J, Peterli R, Beglinger C, Wölnerhanssen BK / Effect of the Natural Sweetener Xylitol on Gut Hormone Secretion and Gastric Emptying in Humans: A Pilot Dose-Ranging Study / <i>Nutrients</i> / 13(1):174 / 2021 Jan	4.546	17/89
Wölnerhanssen BK, Drewe J, Verbeure W, le Roux CW, Dellatorre-Teixeira L, Rehfeld JF, Holst JJ, Hartmann B, Tack J, Peterli R, Beglinger C, Meyer-Gerspach AC / Gastric emptying of solutions containing the natural sweetener erythritol and effects on gut hormone secretion in humans: A pilot dose-ranging study / <i>Diabetes Obes Metab</i> / 23(6):1311-1321 / 2021 Jun	5.900	18/143
Meyer-Gerspach AC , Wingrove JO, Beglinger C, Rehfeld JF, Le Roux CW, Peterli R, Dupont P, O'Daly O, Van Oudenhove L, Wölnerhanssen BK / Erythritol and xylitol differentially impact brain networks involved in appetite regulation in healthy volunteers / <i>Nutr Neurosci</i> / 18:1-15 / 2021 Aug	5.000	25/88

Bordier V, Teysseire F, Schlotterbeck G, Senner F, Beglinger C, ° Meyer-Gerspach AC , °Wölnerhanssen BK / Effect of a Chronic Intake of the Natural Sweeteners Xylitol and Erythritol on Glucose Absorption in Humans with Obesity / Nutrients / 13(11):3950 / 2021 Nov ° both authors contributed equally to the manuscript	5.719	17/88
Teysseire F, Bordier V, Budzinska A, Weltens N, Rehfeld JF, Holst JJ, Hartmann B, Beglinger C, Van Oudenhove L, Wölnerhanssen BK, Meyer-Gerspach AC / The Role of D-allulose and Erythritol on the Activity of the Gut Sweet Taste Receptor and Gastrointestinal Satiation Hormone Release in Humans: A Randomized, Controlled Trial / J Nutr / 152(5):1228-1238 / 2022 May	5.721	28/88
Bordier V, Teysseire F, Senner F, Schlotterbeck G, Drewe J, Beglinger C, Wölnerhanssen BK, Meyer-Gerspach AC / Absorption and Metabolism of the Natural Sweeteners Erythritol and Xylitol in Humans: A Dose-Ranging Study / Int J Mol Sci / 23(17):9867 / 2022 Aug	6.208	69/297
Teysseire F, Flad E, Bordier V, Budzinska A, Weltens N, Rehfeld JF, Beglinger C, Van Oudenhove L, Wölnerhanssen BK, Meyer-Gerspach AC / Oral Erythritol Reduces Energy Intake during a Subsequent ad libitum Test Meal: A Randomized, Controlled, Crossover Trial in Healthy Humans / Nutrients / 14(19):3918 / 2022 Sep	6.706	15/90
Teysseire F, Bordier V, Budzinska A, Van Oudenhove L, Weltens N, Beglinger C, Wölnerhanssen BK, Meyer-Gerspach AC / Metabolic Effects and Safety Aspects of Acute D-allulose and Erythritol Administration in Healthy Subjects / Nutrients / 15(2):458 / 2023 Jan	6.706	15/90
Wölnerhanssen BK°, Meyer-Gerspach AC °, Nussbaumer R, Sauter M, Thumshirn M, Bueter M, Vetter D, Gubler C, Morell B, Jell A, Vieth M, Beglinger C, Peterli R, Fox M / Prospective clinical cohort study: low incidence of Barrett esophagus but high rate of reflux disease at 5-year follow-up after sleeve gastrectomy versus Roux-en-Y gastric bypass / Surg Obes Relat Dis / 2023 Feb / online ahead of print ° both authors contributed equally to the manuscript	3.709	29/282

2) Original studies published in peer-reviewed journals as co- author

Authors/Title/Journal/Year	IF	Ranking
Steinert RE, Gerspach AC , Gutmann H, Asarian L, Drewe J, Beglinger C / The functional involvement of gut-expressed sweet taste receptors in glucose-stimulated secretion of glucagon-like peptide-1 (GLP-1) and peptide YY (PYY) / Clin Nutr / 30(4):524-32 / 2011 Aug	3.298	19/76
Steinert RE, Peterli R, Keller S, Meyer-Gerspach AC , Drewe J, Peters T, Beglinger C / Bile acids and gut peptide secretion after bariatric surgery - a 1 year prospective randomized pilot trial / Obesity / 21(12):E660-8 / 2013 Dec	3.734	15/77
Bernsmeier C, Meyer-Gerspach AC , Blaser L, Jeker L, Steinert RE, Heim MH, Beglinger C / Glucose-induced glucagon-like peptide 1 secretion is deficient in patients with non-alcoholic fatty liver disease / PLoS One / 9(1):e87488 / 2014 Jan	3.057	11/63
Steinert RE, Schirra J, Meyer-Gerspach AC , Kienle P, Fischer H, Schulte FH, Goeke B, Beglinger C / GLP-1 receptor antagonism and effects on appetite and eating, endocrine pancreatic functions and L-cell secretion in healthy men / Am J Clin Nutr / 100(2):514-23 / 2014 Aug	6.703	3/80
Schmidt A, Wölnerhanssen B, Meyer-Gerspach AC , Drewe J, Beglinger C, Borgwardt S / Green Tea Extract Enhances Parieto-frontal Connectivity During Working Memory Processing / Psychopharmacology / 231(19):3879-88 / 2014 Oct	3.540	61/255
Wilbaux M, Wölnerhanssen BK, Meyer-Gerspach AC , Beglinger C, Pfister M / Characterizing the dynamic interaction among gastric emptying, glucose absorption and glycemic control in non-diabetic obese adults / Am J Physiol Regul Integr Comp Physiol / 312(3):R314-R323 / 2017 Mar	2.982	27/84
Zanchi D, Meyer-Gerspach AC , Schmidt A, Suenderhauf C, Depoorter A, Drewe J, Beglinger C, Wölnerhanssen BK, Borgwardt S / Acute effects of glucose and	3.532	25/139

fructose administration on the neural correlates of cognitive functioning in healthy subjects: a pilot study / <i>Frontiers in Psychiatry</i> / 9:71 / 2018 Mar		
Shimobayashi M, Albert V, Wölnerhanssen BK, Frei I, Weissenberger D, Meyer-Gerspach AC , Clement N, Moes S, Colombi M, Meier JA, Swierczynska MM, Jenö P, Beglinger C, Peterli R, Hall MN / Insulin resistance causes inflammation in adipose tissue / <i>J Clin Invest</i> / 128(4):1538-1550 / 2018 Apr	12.784	4/128
Fox M, Meyer-Gerspach AC , Wendebourg MJ, Gruber M, Heinrich H, Sauter M, Wölnerhanssen B, Koeberle D, Juengling F / Effect of cocoa on the brain and gut in healthy subjects: a randomized controlled trial / <i>B J Nutr</i> / 121(6):654-661 / 2019 Mar	3.657	23/83
Wölnerhanssen BK, Peterli R, Hurme S, Bueter M, Helmiö M, Juuti A, Meyer-Gerspach AC , Slawik M, Peromaa-Haavisto P, Nuutila P, Salminen P / Laparoscopic Roux-en-Y-Gastric Bypass versus Laparoscopic Sleeve Gastrectomy: 5-Year Outcomes of Merged Data of Two Randomized Clinical Trials (SLEEVEPASS and SM-BOSS) / <i>B J Surg</i> / 108(1):49-57 / 2021 Jan	5.676	7/210
Shimobayashi M, Thomas A, Shetty S, Frei IC, Wölnerhanssen BK, Weissenberger D, Vandekeere A, Planque M, Dietz N, Ritz D, Meyer-Gerspach AC , Maier T, Hay N, Peterli R, Fendt SM, Rohner N, Hall MN / Diet-induced loss of adipose hexokinase 2 correlates with hyperglycemia / <i>Elife</i> / 12:e85103 / 2023 Mar	8.713	8/94

3) Case Reports, reviews, editorials, letters to the editor published in peer-reviewed journals

Authors/Title/Journal/Year	IF	Ranking
Meyer-Gerspach AC , Wölnerhanssen B, Beglinger C / Functional roles of low calorie sweeteners on gut function / <i>Physiology & Behavior</i> / 164(Pt B):479-481 / 2016 Oct	2.341	30/51
°Wölnerhanssen BK, ° Meyer-Gerspach AC , Beglinger C / Reply to letter to the editor: the tolerance of erythritol and xylitol based on effective dose methodologies / <i>Am J Physiol Endocrinol Metab</i> / 311(4):E762 / 2016 Oct ° both authors contributed equally to the letter	4.142	14/84
°Wölnerhanssen BK, ° Meyer-Gerspach AC / Letter Regarding Article, 'Metabolomic Pattern Predicts Incident Coronary Heart Disease' / <i>Arterioscler Thromb Vasc Biol</i> / 39(8):e186 / 2019 Aug ° both authors contributed equally to the letter	6.604	9/76
°Wölnerhanssen BK, ° Meyer-Gerspach AC / Health effects of sugar consumption and possible alternatives / <i>Ther Umsch</i> / 76(3):111-116 / 2019 Sep ° both authors contributed equally to the manuscript	n/a	n/a
°Wölnerhanssen BK, ° Meyer-Gerspach AC , Beglinger C, Islam MS / Metabolic effects of the natural sweeteners xylitol and erythritol: A comprehensive review / <i>Crit Rev Food Sci Nutr</i> / 60(12):1986-1998 / 2020 ° both authors contributed equally to the manuscript	6.202	5/83
Inta D, Wölnerhanssen BK, Meyer-Gerspach AC , Lang E, Schweinfurth N, Mallien AS, Vasilescu AN, Schmidt A, Rea K, Westendorf AM, Tremblay ME, Sartorius A, Gass P, Cryan JF, Borgwardt S, Lang UE / Common Pathways in Depression and Obesity: The Role of Gut Microbiome and Diets / <i>Current Behavioral Neuroscience Reports</i> / 7,15-21 / 2020 Jan	1.912	n/a

1) – 3) Total number and impact factor of publications in peer-reviewed journals

First author: number: 25 IF: 109.841
 Last author: number: 8 IF: 44.616
Total: number: 46 IF: 214.045

4) Book chapters

Authors/Title/Journal/Year
Meyer-Gerspach AC , Wölnerhanssen B, Beglinger C / Gut sweet taste receptors and their role in metabolism / Delhanty PJD, van der Lely AJ (eds.): How Gut and Brain Control Metabolism. Front Horm Res., Basel, Karger / vol 42, pp 123–133 / 2014
Meyer-Gerspach AC , Wölnerhanssen B / Einflüsse der Ernährung auf den Speichel / Filippi A, Waltimo T (eds.): Speichel. Quintessence Publishing / pp 280-288 /2020

5) Abstracts of peer-reviewed conference contributions

Authors/Title/Journal/Year	IF	Ranking
Steinert RE, Gerspach AC , Beglinger C / Sample processing determines gut peptide stability / Gut / 59 (Suppl III) A220 / 2010	10.111	3/74
Beglinger S, Gerspach AC , Steinert RE, Zumsteg E, Beglinger C / Obese adolescents show impaired insulin sensitivity and meal responses of satiety hormones / Gut / 59 (Suppl III) A51 / 2010	10.111	3/74
Gerspach AC , Steinert RE, Schönenberger L, Graber-Maier A, Beglinger C / Sweet-taste receptor blockade modulates the secretion of satiety peptides in healthy humans / Gut / 59 (Suppl III) A50 / 2010	10.111	3/74
Steinert RE, Gerspach AC , Drewe J, Beglinger C / Regulatory functions of gut-expressed taste receptors / Gut / 59 (Suppl III) A1 / 2010	10.111	3/74
Gerspach AC , Steinert RE, Beglinger C / The role of the stomach in the control of appetite and the secretion of satiation peptides / Gut / 60 (Suppl III) A174 / 2011	10.732	3/74
Gerspach AC , Steinert RE, Beglinger C / A physiological role for the sweet taste receptor during the intestinal phase of nutrient stimulated satiation / Gut / 60 (Suppl III) A6 / 2011	10.732	3/74
Meyer-Gerspach AC , Woelnerhanssen B, Beglinger C / Gastrointestinal satiation signals in obese and normal weight persons / Gut / 61 (Suppl III) A30 / 2012	13.319	2/57
Meyer-Gerspach AC , Steinert RE, Beglinger C / Bile acid induced secretion of satiation peptides in healthy humans: pathophysiological implications / Gut / 61 (Suppl III) A28 / 2012	13.319	2/57
Bernsmeier C, Meyer-Gerspach AC , Blaser LS, Jeker L, Steinert RE, Heim MH, Beglinger C / Glucose-induced glucagon-like peptide 1 secretion is deficient in patients with non-alcoholic fatty liver disease / Journal of Hepatology / 58 (1) S531 / 2013	11.336	4/76
Meyer-Gerspach AC , Steinert RE, Schirra J, Göcke B, Beglinger C / Food intake in humans was not affected by glucagon-like peptide-1 receptor blockade through exendin9-39/ United European Gastroenterology Journal / 1 (Suppl I) A431 / 2013	2.080	52/76
Meyer-Gerspach AC , Bernsmeier C, Blaser L, Jeker L, Steinert RE, Heim MH, Beglinger C / Incretins in NASH/NAFLD: Pathophysiological implications / United European Gastroenterology Journal / 1 (Suppl I) A99 / 2013	2.080	52/76
Bernsmeier C, Weisskopf DM, Mosimann J, Campana B, Meyer-Gerspach AC , Steinert RE, Blaser L, Jeker L, Terracciano L, Beglinger C, Heim MH, Cajochen C / Daytime sleepiness in patients with non-alcoholic fatty liver disease is linked to insulin resistance, elevated liver function tests and fibrosis / Journal of Hepatology / 60 (1) S534 / 2014	10.590	5/79
Meyer-Gerspach AC , Riva D, Cajacob L, Herzog R, Peters T, Peterli R, Beglinger C, Wölnerhanssen B / Impaired glucose regulation in obese subjects: the link to hyperinsulinemia in obesity? / United European Gastroenterology Journal / 2 (Suppl I) A25 / 2014	2.933	32/79
Meyer-Gerspach AC , Beglinger S, Graf S, Zumsteg U, Drewe J, Gutzwiller JP, Beglinger C / Impaired secretion of satiation hormones is associated with insulin resistance in obese adolescents / United European Gastroenterology Journal / 2 (Suppl I) A443 / 2014	2.933	32/79

Wilbaux M, Woelnerhanssen B, Beglinger C, Meyer-Gerspach AC , Van den Anker JN, Pfister M / Semi-mechanistic model to characterize effects of gastric emptying on glucose absorption in obese and non-obese adults / PAGE / 42 S55 / 2015	n/a	n/a
Woelnerhanssen B, Meyer-Gerspach AC , Manz M, Thumshirn M, Peterli R, Beglinger C, Burdyga G, Daly K, Moran A, Shirazi-Beechey S / Enteroendocrine cell population is reduced in obesity and restored after sleeve gastrectomy (LSG) / British Journal of Surgery / 102 S10 / 2015	5.899	7/197
Woelnerhanssen B, Meyer-Gerspach AC , Manz M, Thumshirn M, Peterli R, Beglinger C, Burdyga G, Daly K, Moran A, Shirazi-Beechey S / Enteroendocrine cell population is reduced in obesity and restored after sleeve gastrectomy (LSG) / Obesity Surgery / 25 (1) S123 / 2015	3.947	19/197
Meyer-Gerspach AC , Häfliger S, Cajacob L, Meili J, Keller N, Beglinger C, Wölnerhanssen B / Effect of amino acids on gastric emptying and satiation hormones in lean and obese subjects / United European Gastroenterology Journal / 3 (Suppl I) A113 / 2015	3.673	22/79
Wölnerhanssen B, Cajacob L, Keller N, Doody A, Rehfeld JF, Peterli R, Beglinger C, Meyer-Gerspach AC / Gut hormone secretion, gastric emptying and glycemic responses to erythritol and xylitol in lean and obese subjects / Obesity Facts The European Journal of Obesity / 9 (Supp I) PO2.221 / 2016	2.250	47/81
Wölnerhanssen B, Meyer-Gerspach AC , Nabers D, Senn A, Moor M, Borgwardt S, Peterli R, Beglinger C, Bieri O / MRI-fat quantification of the liver, subcutaneous and visceral fatty tissue in patients before and after bariatric surgery / Obesity Facts The European Journal of Obesity / 9 (Supp I) PO1.225 / 2016	2.250	47/81
Meyer-Gerspach AC , Häfliger S, Meili J, Doody A, Rehfeld JF, Beglinger C, Wölnerhanssen B / Effect of amino acids on gastric emptying and gut hormone secretion in non-diabetic obese and lean subjects / Obesity Facts The European Journal of Obesity / 9 (Supp I) PP3.12 / 2016	2.250	47/81
Meyer-Gerspach AC , Riva D, Cajacob L, Herzog R, Peters T, Peterli R, Beglinger C, Wölnerhanssen B / Mechanisms regulating insulin response to intragastric glucose in non-diabetic obese and lean subjects / Obesity Facts The European Journal of Obesity / 9 (Supp I) OS12.03 / 2016	2.250	47/81
Zhao D, Meyer-Gerspach AC , Deloose E, Weltens N, Iven J, Depoortere I, Tack J, Van Oudenhove L / Brain mechanisms underlying the effect of motilin receptor agonist erythromycin on hunger feelings in healthy volunteers / United European Gastroenterology Journal / 4 (Suppl I) A492 / 2016	3.673	22/79
Rotondo A, Morlion C, Meyer-Gerspach AC , Luypaerts A, Deloose E, Verbeke K, Tack J / Influence of liraglutide, a glucagon-like peptide-1 analog, on hunger and satiety, interdigestive motility, gastric accommodation and gastric emptying in healthy volunteers / United European Gastroenterology Journal / 4 (Suppl I) A40 / 2016	3.673	22/79
Meyer-Gerspach AC , Peterli R, Doody A, Rehfeld JF, Drewe J, Beglinger C, Wölnerhanssen BK / Xylitol and erythritol induce satiation peptide release and retardation in gastric emptying in healthy humans / United European Gastroenterology Journal / 4 (Suppl I) A39 / 2016	3.673	22/79
Meyer-Gerspach AC , Deloose E, Biesiekierski J, Depoortere I, Van Oudenhove L, Tack J / Caloric and non-caloric artificial sweeteners have dissociable effects on antral motility and plasma motilin levels in healthy volunteers / United European Gastroenterology Journal / 4 (Suppl I) A39 / 2016	3.673	22/79
Wölnerhanssen B, Burdyga G, Meyer-Gerspach AC , Moran A, Peterli R, Manz M, Thumshirn M, Daly K, Beglinger C, Shirazi-Beechey S / Sleeve gastrectomy normalizes defects in enteroendocrine cells in morbidly obese humans / Obesity Facts The European Journal of Obesity / 10 (Supp I) T1P128 / 2017	2.250	47/81
Wölnerhanssen B, Zanchi D, Rehfeld J, Le Roux C, Borgwardt S, Beglinger C, Meyer-Gerspach AC / Gastrointestinal sensing of xylitol, erythritol and glucose affects brain networks associated with appetite regulation / Obesity Facts The European Journal of Obesity / 10 (Supp I) T1P54 / 2017	2.250	47/81

Meyer-Gerspach AC , Wölnerhanssen B, Senn A, Moor M, Borgwardt S, Peterli R, Beglinger C, Bieri O / Elevated M30 and L-FABP concentrations in morbid obesity decrease after dramatic weight loss due to bariatric surgery / <i>Obesity Facts The European Journal of Obesity</i> / 10 (Supp I) T1P48 / 2017	2.250	47/81
Wölnerhanssen B, Nabers D, Moor M, Borgwardt S, Peterli R, Beglinger C, Meyer-Gerspach AC , Bieri O / MRI-FAT quantification of the liver, subcutaneous and visceral fatty tissue and correlation with blood lipids in patients before and after bariatric surgery / <i>Obesity Facts The European Journal of Obesity</i> / 10 (Supp I) OS2:OC50 / 2017	2.250	47/81
Meyer-Gerspach AC , Wölnerhanssen B, Nabers D, Moor M, Borgwardt S, Peterli R, Beglinger C, Bieri O / Dynamics of decrease of abdominal fat after bariatric surgery: a noninvasive assessment over 24 months by MRI / <i>United European Gastroenterology Journal</i> / 5 (Suppl I) A19 / 2017	3.477	22/79
Meyer-Gerspach AC , Moran AW, Wölnerhanssen B, Burdyga G, Peterli R, Manz M, Thumshirn M, Daly K, Beglinger C, Shirazi-Beechey SP / Defects in enteroendocrine cell development in morbidly obese humans are normalized after sleeve gastrectomy / <i>United European Gastroenterology Journal</i> / 5 (Suppl I) A18 / 2017	3.477	22/79
Meyer-Gerspach AC , Ly HG, Borgwardt S, Dupont P, Beglinger C, Van Oudenhove L, Wölnerhanssen BK / Endogenous GLP-1 alters postprandial functional connectivity between homeostatic and reward-related brain regions involved in regulation of appetite in healthy lean males: A pilotstudy / <i>United European Gastroenterology Journal</i> / 6 (Suppl I) / 2018	3.435	22/79
Teysseire F, Bordier V, Budzinska A, Weltens N, Rehfeld JF, Beglinger C, Van Oudenhove L, Wölnerhanssen B, Meyer-Gerspach AC / The role of the gut sweet taste receptor in regulating gut hormone release in response to the low-caloric sweeteners D-allulose and erythritol in humans: a randomized, controlled trial / <i>United European Gastroenterology Journal</i> / Volume 9, Issue 8, OP107 / 2021	4.623	35/92
Wölnerhanssen B, Meyer-Gerspach AC , Peterli R, Nussbaumer R, Sauter M, Thumshirn M, Beuter M, Vetter D, Gubler C, Vieth M, Beglinger C, Fox M / Gastroesophageal reflux disease and de novo incidence of Barrett's esophagus \geq 5 years after laparoscopic sleeve gastrectomy or Roux-Y-Gastric Bypass / <i>United European Gastroenterology Journal</i> / Volume 9, Issue 8, OP031 / 2021	4.623	35/92
Teysseire F, Flad E, Bordier V, Rehfeld JF, Van Oudenhove L, Le Roux C, Beglinger C, Wölnerhanssen B, Meyer-Gerspach AC / Effect of oral erythritol on subsequent energy intake during an ad libitum test meal / <i>Obesity Facts The European Journal of Obesity</i> / Volume 15, Suppl. I 0166 / 2022	4.807	51/146
Teysseire F, Flad E, Bordier V, Rehfeld JF, Beglinger C, Van Oudenhove L, Wölnerhanssen B, Meyer-Gerspach AC / Oral erythritol reduces subsequent energy intake: a randomized, controlled, crossover study in lean participants / <i>United European Gastroenterology Journal</i> / Volume 10, Issue 8, MP072 / 2022	6.866	34/136
Bordier V, Teysseire F, Senner F, Schlotterbeck G, Drewe J, Beglinger C, Wölnerhanssen BK, Meyer-Gerspach AC / Absorption and metabolization of the naturally occurring sweeteners erythritol and xylitol in humans: A dose-ranging study / <i>United European Gastroenterology Journal</i> / Volume 10, Issue 8, P0197 / 2022	6.866	34/136

Total number and impact factor of abstracts of peer-reviewed conference contributions

Total: number: 43 IF: 219.304

B) SCIENTIFIC PRESENTATIONS

1) Peer-reviewed conference contributions

Oral presentations

- 2010 **Gerspach AC**, Steinert RE, Schönenberger L, Graber-Maier A, Beglinger C. Sweet-taste receptor blockade modulates the secretion of satiety peptides in healthy humans. 18th United European Gastroenterology Week (UEGW), October 2010, Barcelona, Spain.
- 2011 **Gerspach AC**, Steinert RE, Beglinger C. The role of the gut sweet taste receptor in regulating GLP-1 and PYY release in humans. Third Swiss Winter Conference on Ingestive Behaviour, February 2011, St. Moritz, Switzerland.
- Gerspach AC**, Steinert RE, Beglinger C. A physiological role for the sweet taste receptor during the intestinal phase of nutrient stimulated satiation? 19th United European Gastroenterology Week (UEGW), October 2011, Stockholm, Sweden.
- 2012 **Meyer-Gerspach AC**, Beglinger C. Bile acids as TGR5 agonists signaling GLP-1 release in healthy humans. 20th Annual Meeting of the Society for the Study of Ingestive Behavior (SSIB), July 2012, Zürich, Switzerland.
- Meyer-Gerspach AC**, Steinert RE, Beglinger C. Bile acid induced secretion of GLP-1 and CCK in healthy humans. 20th United European Gastroenterology Week (UEGW), October 2012, Amsterdam, Netherlands.
- Meyer-Gerspach AC**, Woelnerhanssen B, Beglinger C. Altered gastrointestinal satiation parameters in healthy obese humans. 20th United European Gastroenterology Week (UEGW), October 2012, Amsterdam, Netherlands.
- 2013 **Meyer-Gerspach AC**, Beglinger C. Bile acids and their role in satiation peptide secretion. Fourth Swiss Winter Conference on Ingestive Behaviour, March 2013, St. Moritz, Switzerland.
- Meyer-Gerspach AC**, Wölnerhanssen B, Steinert RE, Beglinger C. Gastrointestinal satiation signals in healthy obese persons. 21th Annual Meeting of the Society for the Study of Ingestive Behavior (SSIB), July 2013, New Orleans, USA.
- Meyer-Gerspach AC**, Bernsmeier C, Heim MH, Beglinger C. Glucose-induced GLP-1 secretion is deficient in patients with NAFLD or NASH. 21th United European Gastroenterology Week (UEGW), October 2013, Berlin, Germany.
- 2014 **Meyer-Gerspach AC**, Wölnerhanssen B, Peters T, Beglinger C, Peterli R. After gastric bypass: How much glucose is enough?. 101. Jahreskongress der Schweizerischen Gesellschaft für Chirurgie, May 2014, Bern, Switzerland.
- Meyer-Gerspach AC**, Riva D, Cajacob L, Herzog R, Peters T, Peterli R, Beglinger C, Wölnerhanssen B. Impaired glucose regulation in obese subjects: the link to hyperinsulinemia in obesity?. 22th United European Gastroenterology Week (UEGW), October 2014, Vienna, Austria.
- 2015 **Meyer-Gerspach AC**, Häfliger S, Cajacob L, Meili J, Keller N, Beglinger C, Wölnerhanssen B. ^ Effect of L-tryptophan on gastric emptying and GI peptide secretion. 23th United European Gastroenterology Week (UEGW), October 2015, Barcelona, Spain.
- 2016 **Meyer-Gerspach AC**, Riva D, Cajacob L, Herzog R, Peters T, Peterli R, Beglinger C, Wölnerhanssen B. Mechanisms regulating insulin release to intragastric glucose in lean and obese. European Obesity Summit (EOS), June 2016, Gothenburg, Sweden.
- Meyer-Gerspach AC**, Riva D, Cajacob L, Herzog R, Peters T, Peterli R, Beglinger C, Wölnerhanssen B. Mechanisms regulating insulin release to intragastric glucose in lean and obese. European Obesity Summit (EOS), June 2016, Gothenburg, Sweden.

Meyer-Gerspach AC, Peterli R, Doody A, Rehfeld JF, Drewe J, Beglinger C, Wölnerhanssen BK. Effect of xylitol and erythritol on GI peptide secretion and gastric emptying rates. 24th United European Gastroenterology Week (UEGW), October 2016, Vienna, Austria.

Meyer-Gerspach AC, Deloose E, Biesiekierski J, Depoortere I, Van Oudenhove L, Tack J. Effect of caloric and non-caloric sweeteners on GI peptide secretion and GI motility. 24th United European Gastroenterology Week (UEGW), October 2016, Vienna, Austria.

2017 **Meyer-Gerspach AC**, Peterli R, Doody A, Rehfeld JF, Drewe J, Beglinger C, Wölnerhanssen BK. Xylitol and Erythritol induce CCK and GLP-1 release and retardation in gastric emptying in healthy humans. 2nd EASD Incretin Study Group Meeting, January 2017, Pisa, Italy.

Meyer-Gerspach AC, Wölnerhanssen B, Nabers D, Moor M, Borgwardt S, Peterli R, Beglinger C, Bieri O. MRI-fat quantification of the liver, subcutaneous and visceral fatty tissue and correlation with blood lipids in patients before and after bariatric surgery. European Congress on Obesity (ECO), May 2017, Porto, Portugal.

Meyer-Gerspach AC, Wölnerhanssen B, Nabers D, Moor M, Borgwardt S, Peterli R, Beglinger C, Bieri O. MRI-fat quantification of the liver, subcutaneous and visceral fatty tissue and correlation with blood lipids in patients before and after bariatric surgery. 25th United European Gastroenterology Week (UEGW), October 2017, Barcelona, Spain.

Meyer-Gerspach AC, Moran AW, Wölnerhanssen B, Burdyga G, Peterli R, Manz M, Thumshirn M, Daly K, Beglinger C, Shirazi-Beechey SP. Sleeve gastrectomy normalizes defects in enteroendocrine cells in morbidly obese humans. 25th United European Gastroenterology Week (UEGW), October 2017, Barcelona, Spain.

2018 **Meyer-Gerspach AC**, Ly HG, Borgwardt S, Dupont P, Beglinger C, Van Oudenhove L, Wölnerhanssen BK. Endogenous GLP-1 affects central regulation of appetite. 26th United European Gastroenterology Week (UEGW), October 2018, Vienna, Austria.

2019 **Meyer-Gerspach AC**, Ly HG, Borgwardt S, Dupont P, Beglinger C, Van Oudenhove L, Wölnerhanssen BK. Role of endogenous GLP-1 in the central regulation of appetite. 3rd EASD Incretin Study Group Meeting, January 2019, Bochum, Germany.

2021 Teysseire F, Bordier V, Budzinska A, Weltens N, Rehfeld JF, Holst JJ, Hartmann B, Beglinger C, Van Oudenhove L, Wölnerhanssen B, **Meyer-Gerspach AC**. The role of the gut sweet taste receptor in regulating CCK and PYY release in response to D-allulose and erythritol in humans. 28th Annual Meeting of the Society for the Study of Ingestive Behavior (SSIB), July 2021, online.

Teysseire F, Bordier V, Budzinska A, Weltens N, Rehfeld JF, Beglinger C, Van Oudenhove L, Wölnerhanssen B, **Meyer-Gerspach AC**. The role of the gut sweet taste receptor in regulating gut hormone release in response to the low-caloric sweeteners D-allulose and erythritol in humans: a randomized, controlled trial. 29th United European Gastroenterology Week (UEGW), October 2021, online.

2022 Teysseire F, Flad E, Bordier V, Rehfeld JF, Van Oudenhove L, Beglinger C, Wölnerhanssen B, **Meyer-Gerspach AC**. Effects of oral preloads on subsequent energy intake during an *ad libitum* test meal. Clinical Research Day, Department Clinical Research, February 2022, Basel, Switzerland.

Teysseire F, Flad E, Bordier V, Rehfeld JF, Van Oudenhove L, Le Roux C, Beglinger C, Wölnerhanssen B, **Meyer-Gerspach AC**. Effect of oral erythritol on subsequent energy intake during an *ad libitum* test meal. European Obesity Summit (EOS), May 2022, Maastricht, The Netherlands.

Teyssiere F, Flad E, Bordier V, Rehfeld JF, Van Oudenhove L, Le Roux C, Beglinger C, Wölnerhanssen B, **Meyer-Gerspach AC**. Oral erythritol affects subsequent energy intake in healthy humans: a randomized, controlled, crossover trial. 29th Annual Meeting of the Society for the Study of Ingestive Behavior (SSIB), July 2022, Porto, Portugal.

- 2023 Teyssiere F*, Bordier V, Budzinska A, Weltens N, Beglinger C, Van Oudenhove L, Wölnerhanssen BK, **Meyer-Gerspach AC**. Metabolic effects and safety aspects of acute D-allulose and erythritol in healthy subjects. Swiss Winter Conference on Ingestive Behaviour, February 2023, St. Moritz, Switzerland.
* award for best PhD-presentation

Flad E, Teyssiere F, Budzinska A, Weltens N, Van Oudenhove L, Beglinger C, Wölnerhanssen BK, **Meyer-Gerspach AC**. The Reward Responses of Oral Erythritol. Swiss Winter Conference on Ingestive Behaviour, February 2023, St. Moritz, Switzerland.

Bordier V, Teyssiere F, Drewe J, Schmidt-Trucksäss A, Beglinger C, Wölnerhanssen BK, **Meyer-Gerspach AC**. Effects of a chronic intake of the natural sweeteners erythritol and xylitol on vascular function and glucose tolerance in patients with obesity. Swiss Winter Conference on Ingestive Behaviour, February 2023, St. Moritz, Switzerland.

Bordier V, Teyssiere F, Drewe J, Madörin P, Bieri O, Schmidt-Trucksäss A, Beglinger C, Wölnerhanssen BK, **Meyer-Gerspach AC**. Effects of a chronic intake of erythritol and xylitol on vascular function, abdominal fat, and glucose tolerance in patients with obesity. European Congress on Obesity (ECO), May 2023, Dublin, Ireland.

Poster presentation

- 2010 **Gerspach AC**, Steinert RE, Schönenberger L, Graber-Maier A, Beglinger C. The role of sweet taste receptor blockade on liquid-meal stimulated secretion of satiety peptides in healthy subjects. Ascona-Workshop 'The intestinal wall - the regulatory interface in energy homeostasis', June 2010, Ascona, Switzerland.
- 2011 **Gerspach AC**, Steinert RE, Beglinger C. The role of the stomach in the control of appetite and the secretion of satiation peptides. 19th United European Gastroenterology Week (UEGW), October 2011, Stockholm, Sweden.
- 2013 **Meyer-Gerspach AC**, Schirra J, Steinert RE, Goeke B, Beglinger C. Exendin9-39 fails to increase food intake in healthy humans. 21th United European Gastroenterology Week (UEGW), October 2013, Berlin, Germany.
- 2014 **Meyer-Gerspach AC**, Beglinger S, Graf S, Zumsteg U, Drewe J, Beglinger C, Gutzwiler JP. Impaired GI peptide secretion in obese adolescents. Ascona-Workshop 'All roads take to the brain: neural control of human energy homeostasis in health and disease', September 2014, Ascona, Switzerland.
- Meyer-Gerspach AC**, Beglinger S, Graf S, Zumsteg U, Drewe J, Beglinger C, Gutzwiler JP. Impaired GI peptide secretion in obese adolescents. 22th United European Gastroenterology Week (UEGW), October 2014, Vienna, Austria.
- 2016 Wölnerhanssen B, **Meyer-Gerspach AC**, Nabers D, Senn A, Moor M, Borgwardt S, Peterli R, Beglinger C, Bieri O. MRI-fat quantification of the liver, subcutaneous and visceral fatty tissue in patients before and after bariatric surgery. European Obesity Summit (EOS), June 2016, Gothenburg, Sweden.

Wölnerhanssen B, Cajacob L, Keller N, Doody A, Rehfeld JF, Peterli R, Beglinger C, **Meyer-Gerspach AC**. Gut hormone secretion, gastric emptying and glycemic responses to erythritol and xylitol in lean and obese subjects. European Obesity Summit (EOS), June 2016, Gothenburg, Sweden.

***Meyer-Gerspach AC**, Häfliger S, Meili J, Doody A, Rehfeld JF, Beglinger C, Wölnerhanssen B. L-tryptophan induces CCK release and inhibits gastric emptying in healthy humans. European Obesity Summit (EOS), June 2016, Gothenburg, Sweden.

* selected for pitch session, received an award

Zhao D, **Meyer-Gerspach AC**, Deloose E, Iven J, Weltens N, Depoortere I, Tack J, Van Oudenhove L. Brain mechanisms underlying the effect of motilin receptor agonist erythromycin on hunger in healthy volunteers. 2nd Federation of Neurogastroenterology and Motility Meeting, August 2016, San Francisco, USA.

Meyer-Gerspach AC, Deloose E, Biesiekierski J, Depoortere I, Van Oudenhove L, Tack J. Caloric and non-caloric artificial sweeteners have dissociable effects on antral motility and plasma motilin levels in healthy volunteers. 2nd Federation of Neurogastroenterology and Motility Meeting, August 2016, San Francisco, USA.

*Zhao D, **Meyer-Gerspach AC**, Deloose E, Weltens N, Iven J, Depoortere I, Tack J, Van Oudenhove L. Brain mechanisms underlying the effect of motilin receptor agonist erythromycin on hunger feelings in healthy volunteers. 24th United European Gastroenterology Week (UEGW), October 2016, Vienna, Austria.

* selected as poster in spotlight

2017 **Meyer-Gerspach AC**, Wölnerhanssen B, Burdyga G, Moran AW, Peterli R, Manz M, Thumshirn M, Daly K, Beglinger C, Shirazi-Beechey SP. Sleeve gastrectomy normalizes defects in enteroendocrine cells in morbidly obese humans. European Congress on Obesity (ECO), May 2017, Porto, Portugal.

Wölnerhanssen B, Zanchi D, Rehfeld JF, Le Roux C, Borgwardt S, Beglinger C, **Meyer-Gerspach AC**. Gastrointestinal sensing of xylitol, erythritol and glucose affects brain networks associated with appetite regulation. European Congress on Obesity (ECO), May 2017, Porto, Portugal.

Meyer-Gerspach AC, Wölnerhanssen B, Senn A, Peterli R, Beglinger C. Elevated M30 and L-FABP concentrations in morbid obesity decrease after dramatic weight loss due to bariatric surgery. European Congress on Obesity (ECO), May 2017, Porto, Portugal.

2021 Teysseire F, Bordier V, Van Oudenhove L, Wölnerhanssen B, **Meyer-Gerspach AC**. Effect of D-allulose on satiation hormone response, glycemic control and gastric emptying: a randomized, controlled trial. Clinical Research Day, Department Clinical Research, January 2021, Basel, Switzerland.

2022 Teysseire F, Flad E, Bordier V, Rehfeld JF, Van Oudenhove L, Beglinger C, Wölnerhanssen B, **Meyer-Gerspach AC**. Effects of oral preloads on subsequent energy intake during an ad libitum test meal. Clinical Research Day, January 2022, Basel, Switzerland.

Budzińska A, Van Troys E, Dupont P, Teysseire F, **Meyer-Gerspach AC**, Weltens N, Van Oudenhove L. Erythritol: a non caloric future substitute for sugar?. European College of Neuropsychopharmacology (ECNP) Congress, October 2022, Vienna, Austria.

Bordier V, Teysseire F, Senner F, Schlotterbeck G, Drewe J, Beglinger C, Wölnerhanssen BK, **Meyer-Gerspach AC**. Absorption and metabolization of the natural sweetener erythritol in

humans: a dose-ranging study. 29th Annual Meeting of the Society for the Study of Ingestive Behavior (SSIB), July 2022, Porto, Portugal.

Teysseire F, Flad E, Bordier V, Rehfeld JF, Beglinger C, Van Oudenhove L, Wölnerhanssen B, **Meyer-Gerspach AC**. Oral erythritol reduces subsequent energy intake: a randomized, controlled, crossover study in lean participants. 30th United European Gastroenterology Week (UEGW), October 2022, Vienna, Austria.

Bordier V, Teysseire F, Senner F, Schlotterbeck G, Drewe J, Beglinger C, Wölnerhanssen BK, **Meyer-Gerspach AC**. Absorption and metabolization of the naturally occurring sweeteners erythritol and xylitol in humans: A dose-ranging study. 30th United European Gastroenterology Week (UEGW), October 2022, Vienna, Austria.

2023 Flad E, Teysseire F, Budzinska A, Weltens N, Van Oudenhove L, Beglinger C, Wölnerhanssen BK, **Meyer-Gerspach AC**. The Reward Value of Oral Erythritol in Comparison to Sucrose and Sucralose. Clinical Research Day, Department Clinical Research, February 2023, Basel, Switzerland.

Bordier V, Teysseire F, Drewe J, Madörin P, Bieri O, Beglinger C, Wölnerhanssen BK, **Meyer-Gerspach AC**. Effects of a chronic intake of the natural sweeteners erythritol and xylitol on abdominal fat mass and glucose tolerance in patients with obesity. Clinical Research Day, Department Clinical Research, February 2023, Basel, Switzerland.

Teysseire F, Bordier V, Budzinska A, Weltens N, Beglinger C, Van Oudenhove L, Wölnerhanssen BK, **Meyer-Gerspach AC**. Efficacy and safety of acute administration of D-allulose and erythritol in healthy participants. European Congress on Obesity (ECO), May 2023, Dublin, Ireland.

Flad E, Teysseire F, Budzinska A, Weltens N, Beglinger C, Wölnerhanssen BK, Van Oudenhove L, **Meyer-Gerspach AC**. The Reward Value of Oral Erythritol in Comparison to Sucrose and Sucralose. European Congress on Obesity (ECO), May 2023, Dublin, Ireland.

C) SCIENTIFIC LECTURES & SUPERVISION OF STUDENTS

1) Invited guest speaker

2014 **Meyer-Gerspach AC**, Beglinger C. Is there a role for bile acids in satiation peptide secretion?. 1th Bile-Incretin-Microbiome Group (BIMG) Meeting, October 2014, Copenhagen, Denmark.

2017 **Meyer-Gerspach AC**, Wölnerhanssen B. Das Sättigungssystem des Darms und der Effekt von Süsstoffen. Forschungssymposium zur Einweihung der Clinical Trial Unit – St. Claraspital Basel, January 2017, Basel, Switzerland.

Meyer-Gerspach AC, Wölnerhanssen B. Süßes aus der Zuckerforschung – Zuckeralkohole und gewöhnliche Zucker. Universitäres Zentrum für Zahnmedizin Basel - Zucker Update 2017, August 2017, Basel, Switzerland.

Meyer-Gerspach AC, Wölnerhanssen B. Zucker und Adipositas – brauchen wir einen Paradigmenwechsel in der Ernährungsmedizin?. Lymphologie 2017, October 2017, Bad Soden/TS, Germany.

2018 **Meyer-Gerspach, AC**. The Role of the Gastrointestinal Taste Receptors in the Gut-Brain-Axis. Seminar: Glutamic acid – Taste and Health. March 2018, Taipei, Taiwan.

Meyer-Gerspach, AC. Zuckerforschung. 60th Jahrestagung der Deutschen Gesellschaft für Phlebologie, September 2018, Bielefeld, Germany.

Meyer-Gerspach, AC. Ernährung, Darmhormone und Gehirn. 12th Herbsttagung Deutsche Diabetes Gesellschaft, 34th Jahrestagung Deutsche Adipositas Gesellschaft, November 2018, Wiesbaden, Germany.

2019 **Meyer-Gerspach, AC.** Süsses aus der Zuckerforschung. Jahrestagung Schweizerische Vereinigung für Kinderzahnmedizin, Januar 2019, Bern, Switzerland.

Meyer-Gerspach AC, Wölnerhanssen B. Neues zum Zucker und Adipositas. Lymphologie 2019, October 2019, Bad Krozingen, Germany.

Meyer-Gerspach AC, Wölnerhanssen B. Süsse – braucht es dafür Zucker?. Lebensmittel-Tagung ZHAW, November 2019, ZHAW, Wädenswil, Switzerland.

2020 **Meyer-Gerspach, AC.** Neues aus der Zuckerforschung – Zucker und Zuckerersatz. SNFS Dialog ‘Wo Mythen und Fakten weit auseinander liegen: Zucker, Zuckeralkohole und Süsstoffe’, Februar 2020, Berlin, Germany.

2021 **Meyer-Gerspach, AC.** Aktuelles aus der Zuckerforschung – Motivation zur Zuckerreduktion. Schweizerische Zahnärzte-Gesellschaft (SSO), Swiss Dental Conference, May 2021, Bern, Switzerland.

Meyer-Gerspach, AC. Motivation zur Zuckerreduktion. Zahnärztlicher Study Club St. Gallen, November 2021, St. Gallen, Switzerland.

Meyer-Gerspach, AC. Wirkung von Zucker und anderen Süßungsmitteln auf den menschlichen Körper. Swiss Dental Hygienists, November 2021, Basel, Switzerland.

2022 **Meyer-Gerspach, AC.** Aktuelles aus der Zuckerforschung – Motivation zur Zuckerreduktion. Schweizerische Vereinigung Prophylaxe-Assistentinnen, May 2022, Zürich, Switzerland.

Meyer-Gerspach, AC. Zucker hat negative Auswirkungen auf Zähne und Stoffwechsel – wie sieht es mit Alternativen aus? Dentalassistent*innen Fortbildungstag, Schweizerische Zahnärzte-Gesellschaft (SSO), Swiss Dental Conference, June 2022, Bern, Switzerland.

Meyer-Gerspach, AC. Ernährung als Prävention von onkologischen Erkrankungen. Symposium Kinderonkologie und Kinderzahnmedizin, September 2022, Basel, Switzerland.

2023 **Meyer-Gerspach, AC.** Chocolate as medicine: the evidence base. Ascona III: Advances in Clinical Measurement of Gastrointestinal Motility and Function, May 2023, St. Moritz, Switzerland.

2) Lectures, Seminar, Tutorages

2017 Lectureship University Basel/Faculty of Medicine/Klinik für Präventivzahnmedizin und Orale Mikrobiologie (1h/week), Basel, Switzerland.

2018 Lectureship University Basel/Faculty of Medicine/Klinik für Präventivzahnmedizin und Orale Mikrobiologie (2h/week), Basel, Switzerland.

Tutor United European Gastroenterology Summer School, May 2018, Prague, Tschechien.

- 2019 Lectureship University Basel/Faculty of Medicine/Klinik für Präventivzahnmedizin und Orale Mikrobiologie (2h/week), Basel, Switzerland.
- Tutor United European Gastroenterology Summer School, June 2019, Prague, Tschechien.
- Guest lectureship College of Education/Human Biology; FHNW. The tasting gut – Der Darm kann schmecken. November 2019, FHNW, Muttenz, Switzerland.
- 2020 Lectureship University Basel/Faculty of Medicine/Klinik für Präventivzahnmedizin und Orale Mikrobiologie (2h/week), Basel, Switzerland.
- Expert Nutritional Science ZHAW Food & Beverage Innovation Think Tank. October 2020, ZHAW, Wädenswil, Switzerland.
- 2021 Lectureship University Basel/Faculty of Medicine/Klinik für Präventivzahnmedizin und Orale Mikrobiologie (2h/week), Basel, Switzerland.
- Guest lectureship College of Education/Human Biology; FHNW. The tasting gut – Der Darm kann schmecken. November 2021, FHNW, Muttenz, Switzerland.
- Expert Nutritional Science ZHAW Food & Beverage Innovation Think Tank. November 2021, ZHAW, Wädenswil, Switzerland.
- 2022 Lectureship University Basel/Faculty of Medicine/Klinik für Präventivzahnmedizin und Orale Mikrobiologie (2h/week), Basel, Switzerland.
- Expert Nutritional Science ZHAW Food & Beverage Innovation Think Tank. November 2022, ZHAW, Wädenswil, Switzerland.
- 2023 Lectureship University Basel/Faculty of Medicine/Klinik für Präventivzahnmedizin und Orale Mikrobiologie (2h/week), Basel, Switzerland.
- Expert Nutritional Science ZHAW Food & Beverage Innovation Think Tank. November 2023, ZHAW, Wädenswil, Switzerland.

3) Supervised Internship-, Master-, Dissertation-. Master of Science-, PhD- projects

Internship projects

Jahr	Name	Institution
2021	Emilio Radina	Fachmittelschule, Basel, Switzerland
2021	Emilie Flad	Nutritional Science, Technical University Munich, Freising, Germany
2021	Yannic Weber	Oberstufenzentrum Dorneckberg, Büren, Switzerland
2021	Maya Gumm	Nutritional Science, University Hohenheim, Germany
2021	Clara Slawik	Hebel Gymnasium, Lörrach, Germany
2022	Nathalie Hasl	Nutritional Science, University Hohenheim, Germany

Master projects medicine (accepted¹, in progress²)

Jahr	Name, Institution	Titel
2011	Lea Blaser, University Basel, Switzerland	GLP-1 release in NAFLD/NASH patients. ¹

2014	Nina Zimak, University Basel, Switzerland	Auswirkungen von intragastral verabreichter Fruktose auf die funktionelle Konnektivität im Belohnungsnetzwerk des Gehirns, Sättigungshormone und Appetitempfinden im Vergleich zu Glukose. ¹
2014	Lucian Cajacob, University Basel, Switzerland	Influence of different glucose concentrations on the release of gastrointestinal satiation peptides in healthy normal weight and obese humans, and in patients after gastric bypass operation. ¹
2015	Lukas Bereiter, University Basel, Switzerland	Zentralnervöse Effekte nach Stimulation von gastrointestinalen Geschmacks-rezeptoren. ¹
2016	Nino Keller, University Basel, Switzerland	Auswirkung von Erythrit und Xylit auf die Freisetzung von CCK, Plasma Insulin und Glukose, sowie die Magenentleerung bei gesunden normalgewichtigen Personen. ¹
2017	Muriel Ullmann, University Basel, Switzerland	Effekte von Fruktose und Glukose auf die funktionelle Konnektivität im Belohnungsnetzwerk bei normalgewichtigen und übergewichtigen Probanden: eine funktionelle MR-Studie. ¹
2017	Julian Meili, University Basel, Switzerland	Auswirkung von L-Leucin auf die Freisetzung von gastrointestinalen Hormonen, Plasma Insulin und Glukose, sowie die Magenentleerung bei gesunden normalgewichtigen und übergewichtigen Personen. ¹
2017	Alina Senn, University Basel, Switzerland	Auswirkungen der bariatrischen Chirurgie auf Biomarker der Leberzellapoptose: M30, Fetuin A und L-FABP. ¹
2018	David Bollinger, University Basel, Switzerland	Veränderungen der Darmflora nach bariatrischer Chirurgie. ¹
2018	Tamas Faludi, University Basel, Switzerland	Dynamik der Fettabschaffung im Abdomen in Korrelation zu den Blutfetten nach bariatrischer Chirurgie. ¹
2020	Lisa Hartmann, University Basel, Switzerland	Chronische Effekte der täglichen Einnahme von SATIOSTAT ® über 6 Wochen auf das Körpergewicht, die Glukosetoleranz und die Magendarmverträglichkeit sowie die Darmbakterienzusammensetzung und die Lebensqualität – eine Machbarkeitsstudie. ¹
2021	Jason Giger, University Basel, Switzerland	Auswirkungen der Zuckeralkohole Xylitol und Erythritol auf Blutlipide und Harnsäure bei akuter und chronischer Gabe. ¹
2021	Chantal Cudré-Mauroux, University Basel, Switzerland	Die Auswirkungen, einer regelmässigen Einnahme von Xylitol und Erythritol über fünf bis sieben Wochen auf das Essverhalten und die Nahrungszusammensetzung. ¹
2021	Raffael Nadermann, University Basel, Switzerland	Akute Effekte von D-Allulose auf die gastrointestinale Hormonfreisetzung und den Blutzuckerstoffwechsel. ¹
2022	Stéphanie Pfämmatter, University Basel, Switzerland	Akute Effekte von D-Allulose und Erythritol auf die Blutfette, den Harnsäurespiegel und das hochsensitive C-reaktive Protein (hsCRP). ¹
2023	Mona Dean, University Basel, Switzerland	Effekt der Blockierung des Süßrezeptors im Darm auf die Freisetzung von gastrointestinalen Sättigungshormonen. ¹
2021 - open	Morgan Hetemi, University Basel, Switzerland	EryAdo-Trial ²
2023 - open	Geena Spielmann, University Basel, Switzerland	EryClot-Trial ²

Doctoral projects medicine (accepted¹, in progress²)

Jahr	Name	Titel
2011	Lucia Schönenberger, University Basel, Switzerland	GLP-1 release after sweet taste receptor blockade by lactisole. ¹
2013	Falk Nessenius, University Basel, Switzerland	Gastric emptying in obese patients. ¹
2013	Lia Jeker, University Basel, Switzerland	Gestörte GLP-1-Ausschüttung bei Patienten mit Nicht-alkoholischer Fettlebererkrankung. ¹
2015	Daniele Riva, University Basel, Switzerland	Influence of different concentrations of glucose on the release of gastrointestinal satiation peptides in healthy normal weight and obese humans. ¹
2015	Raphael Herzog, University Basel, Switzerland	Einfluss von 75g Glucose auf die Freisetzung von gastrointestinalen Sättigungspeptiden bei gesunden normalgewichtigen und adipösen Menschen. ¹
2017	Philipp Kienle, University Freiburg, Germany	Wirkung des GLP1-Rezeptorantagonisten auf die Nahrungsaufnahme und das Appetit-empfinden bei gesunden männlichen Probanden. ¹
2017	Lucian Cajacob, University Basel, Switzerland	Auswirkung der Zuckeralkohole Xylitol und Erythritol auf die Freisetzung von GLP-1, Plasma Insulin und Glucose, sowie die Magenentleerung bei gesunden normalgewichtigen Personen. ¹
2017	Lukas Bereiter, University Basel, Switzerland	Verlauf der Glukosetoleranz über 12 Monate nach bariatrischer Operation. ¹
2017	Simon Häfliiger, University Basel, Switzerland	Auswirkung von L-Tryptophan auf die Freisetzung von CCK, GLP-1, Plasma Insulin und Glucose, sowie die Magenentleerung bei gesunden normalgewichtigen und übergewichtigen Personen. ¹
2018	Katharina Janach, University Basel, Switzerland	Effekte von intragastral verabreichtem L-Tryptophan und L-Leucin auf Sättigungs- und Belohnungsareale des Gehirns sowie auf Sättigungshormone. ¹
2018	Nina Zimak, University Basel, Switzerland	Wirkung der GLP-1 Rezeptorblockade mittels Exendin9-39 auf die Insulin- und Glukagonkonzentration sowie auf das Appetitempfinden bei 12 gesunden jungen Männern. ¹
2019	Nino Keller, University Basel, Switzerland	Plasma Insulin, Glukose und GLP-1 Konzentrationen nach der oralen Einnahme von 25g Glukose oder 8g Fruktose vor und 3 Monate nach bariatrischer Chirurgie. ¹
2019	David Bollinger, University Basel, Switzerland	Veränderungen des intestinalen Mikrobioms nach laparoskopischer Magenbypass- versus laparoskopischer Schlauchmagen-OP. ¹
2019	Roman Pfeifer, University Freiburg, Germany	Akute Effekte von SATIOSTAT Einnahme auf die Kalorieneinnahme, das Sättigungsempfinden und die Plasmaglukose. ¹
2020	Damian Gschwend, University Basel, Switzerland	Effekt unterschiedlicher Dosen von gastral verabreichtem Erythritol auf die Ausschüttung von Sättigungshormonen. ¹
2020	Alexander Riesener, University Freiburg, Germany	Akute Effekte von SATIOSTAT Einnahme auf die Magenentleerung, das Sättigungsempfinden und die Plasmaglukose. ¹
2020	Rahel Nussbaumer, University Basel, Switzerland	Publication: Reflux and Barrett's Esophagus after Sleeve Gastrectomy and Gastric Bypass: Long-Term Follow-Up. ¹

2021	Julian Meili, University Basel, Switzerland	Die Effekte unterschiedlicher Konzentrationen an Erythritol auf die Magenentleerung und den Glukose- und Insulinspiegel im Plasma. ¹
2021	Silvan Rast, University Basel, Switzerland	Publication: Mineral Bone density and markers of bone turn-over after Sleeve Gastrectomy: Long-Term Follow-Up. ¹
2021	Julian Bühler, University Basel, Switzerland	Publication: Mineral Bone density and markers of bone turn-over after Gastric Bypass: Long-Term Follow-Up. ¹
2022	Heiko Fischer, University Freiburg, Germany	Intestinales Glucagon-like-peptide-1 und die physiologische Bedeutung bei der Regulation der Nahrungsaufnahme. ¹
2014 - open	Patrick Kaelin, University Basel, Switzerland	Effects of acute glucose and fructose ingestion on brain regions involved in working memory in lean and obese volunteers. ²
2015 - open	Nico Streit, University Basel, Switzerland	Effekt unterschiedlicher Konzentrationen an Xylitol auf die Ausschüttung der Sättigungshormone. ²
2018 - open	Vivien Rahmel, University Freiburg, Germany	Effect of the natural sweetener xylitol on vascular function in obese subjects. ²
2022 – open	Lisa Hartmann, University Basel, Switzerland	SLIM-Trial – Part 1. ²

Master of Science (MSc) projects (accepted¹, in progress²)

Jahr	Name, Institution	Titel
2022	Emilie Flad, Technical University Munich, Germany	Effects of oral pre-loads on subsequent energy intake during an ad libitum test meal. ¹
2023	Nathalie Hasl, University Hohenheim, Germany	Assessment of reward responses to oral erythritol using flavor preferences learning. ²

PhD projects (accepted¹, in progress², external examiner³)

Jahr	Name, Institution	Titel
2017	Sina Ullrich, University Adelaide, Australia	Regulation of Energy Intake and Blood Glucose by Dietary Nutrients – Implications for Novel Therapeutic Approaches to Obesity and Type 2 Diabetes. ^{1,3}
2020 – 2024	Valentine Bordier, University Basel, Switzerland	Sinergia LowCarb Project. ²
2020 – 2024	Fabienne Teyssiere, University Basel, Switzerland	Replacing sugar with the natural sweetener erythritol as an alternative for artificial sweeteners: satiating and rewarding without calories? ²
2021-2025	Emilie Flad, University Basel, Switzerland	Metabolic outcomes in response to different nutrients. ²
2022	Maryam Hajishafiee, University Adelaide, Australia	The effects of the amino acids, L-tryptophan, alone or with the fatty acid, lauric acid, on energy intake and postprandial glycaemia in health, obesity and type 2 diabetes. ^{1,3}
2022-2026	Anita Alstädt, University Basel, Switzerland	EryClot-Trial ²

D) PRESENCE IN THE LAY PRESS

Various contributions to television programs, podcasts, press releases, interviews and professional articles.
For details see <https://www.claraforschung.ch/medien>.

Basel, 25. April 2023

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