



Publications of Martin Kussman

PUBLICATIONS

BIBLIOMETRIC DATA

- **Google Scholar** [MartinKussmannGoogleScholar](#): 217 publications, h-index 47, i10 index 123, 7'446 citations
- **Orcid** [MartinKussmannORCID](#): ResearcherID 0000-0002-0966-2313: 170 publications
- **Research Gate** [MartinKussmannResearchGate](#): 239 publications, h-index 41, research interest score 3'216, 5'861 citations, 74'293 reads
- **Clarivate Web of Science** [MartinKussmannClarivate](#): ResearcherID [AAB-7453-2022](#): 150 publications, h-index 35, 4'310 citations
- **Frontiers Loop** [MartinKussmannLoop](#): 157 publications, 3'704 citations, 23'443 downloads, 116'263 views
- Elsevier **Scopus** [MartinKussmannScopus](#) 145 publications, h-index 38, 5'109 citations
- MDPI **SciProfiles** [MartinKussmannSciProfiles](#) 152 publications
- **Academia** [MartinKussmannAcademia](#)
- **Europe PMC** [MartinKussmannEuropePMC](#): 170 publications, 2'446 citations

Listed below: 81 original research publications; **61** reviews/editorials/perspectives/ proceedings; **22** book chapters; **5** edited journal issues; **2** edited books; **3** patents; **33** media communications. Total **206**.

A. ORIGINAL RESEARCH

1. Gimpfl S, Schwarz S, Rohm F, Ohlhaut N, Röger C, Senger M, Kussmann M, Linseisen J, Gedrich K. **Frontiers Nutrition**, submitted: "Dietary Greenhouse Gas Emissions and Resource Use Among Bavarian Adults: Associations with Sociodemographics and Food Choices".
2. Gimpfl S, Rohm F, Wawro N, Ohlhaut N, Röger C, Senger M, Kussmann M, Linseisen J, Gedrich K. **Nutrition Bulletin**, submitted: "Choice of Vegetarian or Vegan Diets: Insights from the 3rd Bavarian Food Consumption Survey (NBU-2024-0261)".
3. Rohm F, Wawro N, Gimpfl S, Ohlhaut N, Senger M, Röger C, [Kussmann M](#), Gedrich K, Linseisen J; **Frontiers Nutrition 2024**: „Does the habitual dietary intake of adults in Bavaria, Germany, match dietary intake recommendations? – Results of the 3rd Bavarian Food Consumption Survey (BVS III)“.
4. Linseisen J, Rohm F, Wawro N, Senger M, [Kussmann M](#), Gimpfl S, Gedrich K. **DGE Ernährungsbericht 2024**: „Einfluss des Haushaltseinkommens auf den Lebensmittelverzehr und die Nährstoffzufuhr – Ergebnisse der Bayerischen Verzehrsstudie III (2021–2023)“.
5. Stelzl T, Sandner K, Vilei S, Erdmann J, Kussmann M, Röger C; **Ernährungsumschau 2024**: „Ernährungsradar: Integrative Wissensplattform für Multiplikatoren in der Ernährungskommunikation“ – „Nutrition Radar: Integrative knowledge platform for multipliers in nutrition communication“.
6. Mullaney JA, McKeen S, Roy NC, Eriksen H, Lovell A, [Kussmann M](#), Young W, Fraser K, Wall C, McNabb W; **PLoS One 2022** 17(7) e0270213: "Adaptation of the infant gut microbiome during the complementary feeding transition".

7. Lovell AL, Eriksen H, McKeen S, Mullaney J, Young W, Fraser K, Altermann E, Gasser O, [Kussmann M](#), Roy NC, McNabb WC, Wall CR. **BMC Pilot and Feasibility Studies** 2022 (8) 103: "Nourish to Flourish: complementary feeding for a healthy infant gut microbiome. A non-randomised pilot feasibility study".
8. Khaldi N, Wall A, Kussmann M. [ResearchFeatures2022](#) 'Health and Medicine': "Muscle health improved using an artificial intelligence-discovered functional ingredient".
9. Barrera-Reyes PK, Cortés-Fernández de Lara J, Poquet L, Meissner-Redeuil K, [Kussmann M](#), Silva-Zolezzi I, Tejero ME. **Nutrients** 2021 (13) 3829: "Circulating Structurally Related (-)-Epicatechin Metabolite Species and Levels after Sustained Intake of a Cocoa Powder High in Polyphenols Are Comparable to Those Achieved after a Single Dose".
10. Andraos S, Jones B, Wall C, Thorstensen EB, [Kussmann M](#), Cameron-Smith D, Lange K, Clifford S, Saffery R, Burgner D, Wake M, O'Sullivan JM. **Nutrients** 2021 (13) 821: "Plasma B vitamers: population epidemiology and parent-child concordance in children and adults".
11. Andraos S, Goy M, Albert B, [Kussmann M](#), Thorstensen E, O'Sullivan JM. **Anal. Biochem.** 2020 (592) 113558: "Robotic automation of a UHPLC/MS-MS method profiling one-carbon metabolites, amino acids, and precursors in plasma".
12. Ued F, Mathias M, Toffano R, Barros T, Almada MO, Salomão R, Coelho-Landell C, Hillesheim E, Camarheiro J, Camelo-Junior JS, Aragon D, Moco S, [Kussmann M](#), Kaput J, Pontes Monteiro J. **Nutrients** 2019 11(12):2918: "Vitamin B2 and folate concentrations are associated with ARA, EPA and DHA fatty acids in red blood cells of Brazilian children and adolescents".
13. Martin FP, [Kussmann M](#), Hosking J. **Pediatric Diabetes** 2019, 1-10: "Insulin Resistance during normal child growth and development is associated with a distinct blood metabolic phenotype".
14. Barrera PK, Cortés J, Hernández N, Actis-Goretta L, Poquet L, Redeuil K, Rangel-Escareño C, [Kussmann M](#), Silva-Zolezzi I, Tejero ME. **Eur. J. Nutr.** 2019, 58(5): 1887–1898: "Antioxidant-related gene expression changes in human mononuclear cells by high-polyphenols cocoa powder intake. A randomized crossover clinical study".
15. De Marchi U, Galindo AN, Thevenet J, Hermant A, Bermont F, Lassueur S, Domingo JS, [Kussmann M](#), Dayon L, Wiederkehr A. **FASEB J.** 2019 (4) 4660-4674: "Mitochondrial lysine deacetylation promotes energy metabolism and calcium signaling in insulin-secreting cells".
16. Dayon L, Cominetti O, Wojcik J, Nunez Galindo A, Oikonomidi A, Henry H, Migliavacca E, [Kussmann M](#), Bowman GL, Popp J. **J. Proteome Res.** 2019 (18) 1162-1174: "Proteomes of paired human cerebrospinal fluid and plasma: relation to blood-brain barrier permeability in older adults".
17. Cominetti O, Núñez Galindo A, Corthésy J, Valsesia A, Irincheeva I, [Kussmann M](#), Saris WHM, Astrup A, McPherson R, Harper ME, Dent R, Hager J, Dayon L. **Sci. Reports** 2018 (8) 16981: "Obesity shows preserved plasma proteome in large independent clinical cohorts".
18. Michelini S, Balakrishnan B, Parolo S, Matone A, Mullaney J, Young W, Gasser O, Priami C, Lombardo R, [Kussmann M](#). **BMC Microbiol.** 2018 (6) 171: "A reverse metabolic approach to weaning: In silico identification of immune-beneficial infant gut bacteria, mining their metabolism for prebiotic feeds and sourcing these feeds in the natural product space".
19. Dayon L, Núñez Galindo A, Wojcik J, Cominetti O, Corthésy J, Oikonomidi A, Henry H, [Kussmann M](#), Migliavacca E, Severin I, Bowman GL, Popp J. **Alzheimer's Res. Ther.** 2018 (10) 66: "Alzheimer disease pathology and the cerebrospinal fluid proteome".
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22. Oller Moreno S, Cominetti O, Núñez Galindo A, Irincheeva I, Corthésy J, Astrup A, Saris WHM, Hager J, [Kussmann M](#), Dayon L. **Proteomics Clin. Appl.** 2018 (12) 1: "The differential plasma proteome of obese and overweight individuals undergoing a nutritional weight loss and maintenance intervention".
23. Binia A, Vargas-Martinez C, Ancira M, Gosoni L, Montoliu I, Gamez-Valdez E, Martínez-Soria D, Angeles-Quezada A, Gonzalez-Alberto R, Fernandez-Lopez S, Martínez-Conde D, Hernandez-Moran B, Ramirez-Solano M, Perez-Ortega C, Hernandez-Rodriguez Y, Castan I, Rubio-Aliaga I, Vadillo-Ortega F, Márquez-Velasco R, Bojalil R, Carlos Lopez-Alvarenga J, Valet P, [Kussmann M](#), Silva-Zolezzi I, Tejero ME; **J. Nutr. Biochem.** 2017 (43) 98-106: "Improvement of cardiometabolic markers after fish oil intervention in healthy Mexican adults and the role of PPARα L162V and PPARγ2 P12A".
24. Mauvoisin D, Atger F, Dayon L, Núñez Galindo A, Wang J, Martin E, Da Silva L, Montoliu I, Collino S, Martin FP, Ratajczak J, Cantó C, [Kussmann M](#), Naef F, Gachon F. **Cell Reports** 2017 20(7):1729-1743: "Circadian and feeding rhythms orchestrate the diurnal liver acetylome".
25. Mauvoisin D, Dayon L, Nuñez Galindo A, [Kussmann M](#), Gachon F.; **Cell Metabolism** 2017 25(1):102-117: "Nuclear proteomics uncovers diurnal regulatory landscapes in mouse liver".
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27. Guiraud SP, Montoliu I, Da Silva, L, Dayon L, Núñez Galindo A, Corthésy J, [Kussmann M](#), Martin, FP. **Anal. Bioanal. Chem.** **2017** 409(1):295-305: "High-throughput and simultaneous quantitative analysis of homocysteine-methionine cycle metabolites and co-factors in blood plasma and cerebrospinal fluid by isotope dilution LC-MS/MS".
28. Dayon L, Guiraud SP, Corthésy J, Da Silva L, Migliavacca E, Tautvydaitė D, Henry H, Métairon S, Marquis J, Descombes P, von Gunten A, Collino S, Martin FPJ, Montoliu I, [Kussmann M](#), Wojcik J, Bowman GL, Popp J. **Alzheimer's Res. Ther.** **2017** 9(1):43: "One-carbon metabolism, cognitive impairment and CSF measures of Alzheimer pathology: Homocysteine and beyond".
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31. DaSilva L, Collino S, Cominetti O, Martin FP, Montoliu I, Oller Moreno S, Dayon L, Corthésy J, Kaput J, [Kussmann M](#), Pontes Monteiro J, Guiraud SP. **Bioanalysis** **2016** (8) 1937–1949: "High-throughput method for the quantitation of metabolites and co-factors from homocysteine–methionine cycle for nutritional status assessment".
32. Cominetti Allende O, Núñez Galindo A, Corthésy J, Irincheeva I, Valsesia A, Hager J, [Kussmann M](#), Dayon L; **J. Proteome Res.** **2016** (15) 389-399: "Proteomic biomarker discovery in 1'000 human plasma samples with mass spectrometry".
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34. Ducommun S, Deak M, Sumpton D, Ford RJ, Núñez Galindo A, [Kussmann M](#), Viollet B, Steinberg GR, Foretz M, Dayon L, Morrice NA, Sakamoto K; **Cellular Signaling** **2015** (27) 978-988: "A proteomics approach for searching cellular AMPK targets: identification of mitochondrial fission factor as a new AMPK substrate".
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41. Mauvoisin D, Dayon L, Gachon F, [Kussmann M](#); **Proteomics** **2014** (13) 1-8: "Proteomics and circadian rhythms: it's all about signaling".
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B. REVIEWS, EDITORIALS, PERSPECTIVES, PROCEEDINGS

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3. Vanapalli S, Kussmann M. **Research Features** 2024 'Health and Medicine': "Accelerating bioactive discovery and validations for human and planetary health using artificial intelligence and animal-free testing".
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C. BOOK CHAPTERS

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D. EDITED JOURNALS

1. Kussmann M, Berciano Benitez S, Hayek M; **Frontiers Nutrition 2022**: "Nutrition for humanity in the Anthropocene - for healthier people on a healthier planet".
2. Kussmann M, **Nutrients 2022**: "Protein matters and proteins matter: Proteomics and Peptidomics in Nutrition and Health".
3. Kaput J, Kussmann M, Radonjic M; **Genes & Nutrition 2015** (10): "Systems Nutrition and Health".
4. Kussmann M, Panchaud A, Affolter M; **J. Proteomics 2012** (76) 3381-3559: "Understanding genome regulation and genetic diversity by mass spectrometry".
5. Kussmann M, Daniel H; **Curr. Opin. Biotechnol.** 2008 (19) 63-128: "Food biotechnology".

E. EDITED BOOKS

1. Kussmann M, Stover P; "Nutrigenomics and proteomics in health and disease"; **Wiley & Blackwell 2017**.
2. Fay L, Kussmann M; "Mass spectrometry in nutrition"; Royal Soc. Chem. (RSC) 2010, Cambridge, UK.

F. PATENTS

1. Eur. Patent Appl. **EP 16171943.0**. Res. Agreement between Nestlé Ltd., Av. Nestlé 55, CH-1800 Vevey, Switzerland; and the Nat'l Inst. Genomic Medicine; Periferico Sur 4809, Colonia Arenal Tepepan, Delegacion Tlalpan, C.P. 14610, Ciudad de México, signed 25/11/11: "Response to PUFA intervention according to PPAR genotypes".
2. Eur. Patent Appl. **EP 16171945.5**. Res. Agreement between Nestlé Ltd., Av. Nestlé 55, CH-1800 Vevey, Switzerland; and the Nat'l Inst. Genomic Medicine; Periferico Sur 4809, Colonia Arenal Tepepan, Delegacion Tlalpan, C.P. 14610, Ciudad de México, signed 25/11/11: "Response to PUFA intervention according to PPAR genotypes".
3. Eur. Patent Appl. **EP 16171948.9**. Res. Agreement between Nestlé Ltd., Av. Nestlé 55, CH-1800 Vevey, Switzerland; and the Nat'l Inst. Genomic Medicine; Periferico Sur 4809, Colonia Arenal Tepepan, Delegacion Tlalpan, C.P. 14610, Ciudad de México, signed 25/11/11: "Response to PUFA intervention according to PPAR genotypes".

G. MEDIA COMMUNICATIONS

1. Presentations and interviews for the Kompetenzzentrum für Ernährung (KErn) to **German and Bavarian press 2023+** (e.g. Die Welt, Pro7 Galileo, Münchner Merkur, Redaktionsnetzwerk Deutschland).
2. Nuritas company presentation at 6th **European Chemistry Partnering** as an investor showcase of the **European Circular Bioeconomy Fund**, 17/02/22: [MartinKussmannECP-ECBF](#)
3. **Irish Times**, top Irish newspaper 01/22: Feature on "Artificial intelligence in health care".
4. **New Zealand media**: interview on "Early-life health" at the Annual High-Value Nutrition Symposium, Auckland, Oct. 2017: [MartinKussmannHVN](#).

5. **Otago Daily Times, NZ, 20/11/16:** Interview about translational nutrition science at Ministry of Primary Industries (MPI) "Shaping NZ Food and Fibre Future" Conference, 10/11/16, Wellington, NZ.
6. **GenomeWeb 11/12/15:** "Nestlé builds automated MS workflow for high-throughput discovery proteomics".
7. **Keystone Symposium** "Human Nutrition, Environment and Health", Beijing, China, 14-21/10/15: organizer interview [MartinKusmannKeystone](#)
8. **3rd ICAN** (Inst. Cardiomet. Nutr.) Conf. on "**Omics**", Paris, France, 10-12/12/15: Speaker Interview [MartinKusmannICAN](#)
9. **Neue Zürcher Zeitung** (NZZ), top Swiss newspaper: Interview on personalized diagnostics, nutrition, and health 30/11/15.
10. **Crédit Suisse "Bulletin"** Interview on "Future Food and Nutrition", **2015**.
11. **Nestlé Zukunftsforum** and **TNS Infratest:** Expert workshop on "So is(s)t Deutschland 2030"; Hamburg, **20/05/14:** „Trends in Society, Nutrition, Health Science and Care“.
12. "**Journal of Family Health Care**" and "**Dietetics Today**", UK; **18/05/10:** Interview and features on Nutrigenomics and Personalized Nutrition.
13. **Discovery Channel**, USA; Prof. A. Habashi, Univ. Miami, USA; **13/04/10:** Interview and feature on nutrigenomics and personalized nutrition.
14. **Le Temps** (Switzerland), **16/02/10:** Interview on « Nutriginomique et alimentation personnalisée ».
15. **Radio Suisse Romande** (French Swiss radio channel) **23/11/09 :** Interview on « Nutriginomique et alimentation personnalisée ».
16. **German Nutritionists Association**, **09/07/09:** Interview on Nestlé Research, Nutrigenomics, Nutrigenetics and Personalized Nutrition. Published in **VDOE Position 2009**.
17. Int'l Nutrigenomics Symposium, INMEGEN, Mexico City, 16-17/04/09: **interviews on nutrigenomics, obesity, and personalized nutrition in Mexican television, radio, and newspaper.**
18. **Deutschlandfunk** (German radio news) **06/04/09**, in "Science in the focus - Trends in nutrition": Interview on Nutrigenomics and Personalized Nutrition.
19. **Radio Suisse Romande** (French Swiss radio channel) **25/03/09 :** Interview on « Nutriginomique et alimentation personnalisée ».
20. **Food and Beverage International**, **Dec. 2008** "Nutrition gets personal".
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22. **World Television**, Create Shared Value report, **13/11/08:** Interview on Nutrigenomics and Personalized Nutrition.
23. **Nestlé France**, **05/08:** Interview on Nutrigenomics and Personalized Nutrition.
24. **Decision News Media**, NutraIngredients.com, **17/01/08:** Interview on Nutrigenomics and Personalized Nutrition.
25. Nano (**3SAT**), Germany, **January 2008:** Interview on Nutrigenomics.
26. **Tagesthemen** (ARD), main public German TV news, 20/01/08: Interview and feature on nutrigenomics.
27. Berlingske Nyhedsmagasin, Danish newspaper, Aug. 2007: Interview on functional food.
28. **Food Ingredients, Health & Nutrition**, **Jul./Aug. 2007:** Interview on "DiOGenes: Diet Obesity and Genes", EU project on obesity.
29. **Der Spiegel**, top German news magazine, 06/06/07: Interview on nutrigenomics and functional foods.
30. **Børsen**, Denmark, **15/08/05:** Interview on Personalised Nutrition.
31. Swiss Television **SF DRS 1**, health magazine "Puls" **04/04/05:** Interview and feature on Nutrigenomics.
32. **Frankfurter Allgemeine Zeitung** (FAZ), top German newspaper, 07/09/04: Interview on personalised nutrition.
33. **Die Welt**, Germany, **07/09/04:** Interview on Personalised Nutrition.

H. PRESENTATIONS

100's of (invited) keynotes, presentations, lectures and webinars at international conferences and symposia.