



Curriculum Vitae of Martin Kussmann

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Senior Research Manager, Primary Investigator and Advisor

Biotechnology / Nutrition & Health / Sustainability / Analytics and Diagnostics

Professional Summary

- Dual academic/corporate career with thirty years of experience in design, development, and management of translational research programs and initiatives.
- Proficient organisation builder and manager leading scientists of all experience levels, and managing key stakeholder, investor, and partner relationships.
- Expertise in evaluation, development, and implementation of omics-enabled discoveries and biomarkers in nutrition and health.
- Internationally requested communicator and lecturer credited with 200+ publications, 50+ media/press presentations, patents, 100's of conferences, student lectures and public presentations.

Areas of Expertise

- Biotechnology
- Nutrition & Health Science
- Omics, Biomarkers & Diagnostics
- Academic & Corporate Leadership
- Entrepreneurship, Start-Up Experience
- Institute & Facility Management
- Scientific & Business Development
- Private & Public Fund Raising
- Communication, Presentation
- Editing, Publishing, Scientific Advisor

Educational Background

PhD in Chemistry | University of Konstanz, Germany; University of San Francisco, USA
Master of Science in Chemistry | University of Konstanz, Germany
Bachelor of Science in Chemistry | Technical University (RWTH) Aachen, Germany

Career Experience

Kompetenzzentrum für Ernährung | [KErn](#) | Freising, Germany | January 2023 to present

Head of Science

- Directing science and innovation at KErn institute, Bavarian Research Organisation of Agriculture (LfL).
- KErn brings together agriculture, food production & retail, consumers, science & education to facilitate integrated solutions for a healthier and more sustainable food system in Bavaria, Germany.

Kussmann Biotech GmbH | [KBT](#) | Nordkirchen, Germany | September 2022 to present

CEO and Founder

- Scientific & business consulting for R&D intense companies, institutions, & foundations in biotechnology, health, nutrition & sustainability.
- Services: scientific strategy & development; business development; venture capital fund raising; branding; communication & presentation; scientific publishing & literature review; leverage of personal network.

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NemaLife Inc. | [NemaLife](#) | Lubbock, TX, USA | October 2023 to present

Chairman of the Strategic Advisory Board

- Design & implementation of the SAB.
- Strategic advisor for science, technology, business development & venture capital fund raising.

NURITAS Ltd. | [Nuritas](#) | Dublin, Ireland | March 2021 to June 2022

Chief Scientific Officer

- Developing & managing translational science program & operations in bioactives and nutrition.
- Leading 30 scientific staff: artificial intelligence, software engineering, molecular/cellular biology, proteomics, protein/peptide manufacturing; communications, project management, quality.
- Managing research partnerships. Business development. VC fund raising (45M US\$). Branding.

KEYSTONE SYMPOSIA | [Keystone](#) | Silverthorne, CO, USA | July 2012 to June 2021

Scientific Advisory Board Member

- Designing & planning the Keystone Symposia conference portfolio.
- Organised & chaired first Keystone Symposium on "Human Nutrition, Environment and Health", in conjunction with the Bill & Melinda Gates Foundation 'Grand Challenge' "Nutrition & Sustainability"; Beijing, October 2015.

VYDIANT | [Vydiant](#) | Folsom, CA, USA | August 2020 to February 2021

Senior Scientist

- Through combination of artificial and human intelligence, Vydiant gathers and analyses individual and public domain multi-scale data to provide evidence-based health recommendations to individuals and their communities.
- Data curation. Business development. Company presentation.

DIABETES CENTER BERN | [DCBern](#) | Bern, Switzerland | 2020 January to June

Chief Scientific Officer

- Developing a diabetes research program focused on nutrition, molecular phenotyping, biomarkers, medical technology, & translation into clinical practice and patient benefits.
- Developing the institute as research organisation, facility, service provider and funding entity.

FRONTIERS MEDIA | [Frontiers](#) | Lausanne, Switzerland | 2019 January to December

Editorial Director 'Frontiers for Young Minds'

- Making latest, world-leading science accessible in 'real-time' to school children, families and teachers, through "translating" original, top-quality scientific articles into condensed, easily understandable summaries. Articles are freely available through an open-access publishing platform.

THE LIGGINS INSTITUTE, UNIVERSITY OF AUCKLAND | [Liggins](#) | Auckland, New Zealand | 2016 – 2018

Professor 'Systems Biology in Nutrition and Health'

- Built and led nine-member academic research team of scientists, technicians & students in early-life nutrition & health, with a focus on human studies & molecular phenotyping.
- Research themes: infant gut microbiome; immunity around weaning from breast milk; maternal nutrition, breast milk quality & offspring health. Attracted three major & four smaller grants from public funding.

NATIONAL SCIENCE CHALLENGE ON HIGH-VALUE NUTRITION | [HVN](#) | Auckland, New Zealand | 2016 – 2018 | Scientific Director

- Secured 83M NZ\$ funding for the 3rd largest of New Zealand's ten national science challenges.
- Developed and consolidated program on immune, metabolic, digestive & infant health; food bioactives.
- Delivered translational nutritional science for innovation in New Zealand's largest economic sector.
- Managed stakeholder relations with government, universities, institutes & companies.
- Reported & presented findings to NZ ministry & governance-, scientific advisory- and industry advisory boards.

AARHUS UNIVERSITY | Interdisciplinary Nanoscience Center | [iNANO](#) | Aarhus, Denmark | 2009 – 2019

Honorary Professor

- Teaching nutrigenomics.

ECOLE POLYTECHNIQUE FÉDÉRALE | **School of Life Science** | [EPFL](#) | Lausanne, Switzerland | 2012 – 2016 | **Lecturer** (Maître d'Enseignement et Recherche, MER)

- Teaching nutrigenomics, as a science faculty member.

NESTLÉ INSTITUTE OF HEALTH SCIENCES (NIHS) | [NIHS](#) | Lausanne (EPFL), Switzerland | 2011 – 2016

Department Head ‘Molecular Biomarkers’

- Helped build the institute from scratch as first hired scientist. Created molecular biomarker core based on proteomics, metabolomics, lipidomics, micronutrients, and diagnostics.
- Affiliation with the Ecole Polytechnique Fédérale (EPFL), Faculty of Life Sciences.
- Built & managed team of 25 staff in generating holistic molecular insights into nutritionally relevant health and disease conditions and consumer/patient phenotypes.
- Served as a member of the NIHS Scientific Committee & NIHS representative for visitors & media.

NESTLÉ RESEARCH CENTRE (NRC) | [NRC](#) | Lausanne, Switzerland | 2003 – 2011

Group Leader ‘Functional Genomics’

- Developed and implemented facility & program for genomics, proteomics & bioinformatics. Built & led team of 20 staff. Managed projects on immunity, diabetes/obesity, physical mobility & digestive health.
- Aligned competence & technology development to business while managing external contracts.
- Managed protein/peptide ingredient pipeline & delivered corporate presentations to visitors and media.
- Established & executed partnership with the National Institute of Genomic Medicine (INMEGEN), Mexico City.
- Partnered in EU FP6 programmes DiOGenes (2005-2009) and EU H2020 NuAGE (2012-2016).

GENEPROT INC | Geneva, Switzerland | 2000 – 2003

Group Leader ‘Mass Spectrometry and Robotics’

- Helped build the clinical proteomics infrastructure & program from scratch. Built & led the mass spectrometry & robotics group of 7 staff. Managed laboratory set-up & process development for industrial-scale proteomics.
- Biomarker discovery for cardiovascular diseases.