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CURRICULUM VITAE

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SUMMARY

Dr Kraemer is the Managing Director of *Sight and Life* (www.sightandlife.org), a foundation and humanitarian nutrition think tank headquartered in Switzerland, receiving its funding primarily from DSM, and Adjunct Associate Professor in the Department of International Health of Johns Hopkins Bloomberg School of Public Health, Baltimore, USA. *Sight and Life* innovates in nutrition towards eradicating all forms of malnutrition in children and women of childbearing age and so improve the lives of the world's most vulnerable populations. *Sight and Life's* three strategic areas are to advance research, share best practices, and mobilize support to benefit the world's undernourished. *Sight and Life* acts responsibly to disseminate information that reflects current knowledge and evolving scientific evidence. *Sight and Life* strongly values and promotes partnerships which aim to solve outstanding nutrition problems and which will assist in scaling-up proven micronutrient interventions. The global partnership between DSM and the UN World Food Programme was initiated by *Sight and Life*, which has served as the food and nutrition science knowledge hub of this partnership since its inception in 2007. As Managing Director, Dr Kraemer provides the leadership, vision, and direction (at all levels), guides a small but efficient global team, interacts with funders, and partners from all sectors, and serves as its key spokesperson both internally and externally. *Sight and Life* also firmly believes in capacity and the transformative leadership development of individuals, research groups, and organizations and, as such, offers a range of grants and supports initiatives, such as the African Nutrition Leadership Programme, which advances transformational leadership development on the African continent. *Sight and Life* hosts the secretariat of the recently established Society for Implementation Science in Nutrition (SISN).

Dr Kraemer is the editor of *Sight and Life* magazine, one of the most widely read scientific magazines on food, nutrition, and health in low- and middle income countries. He serves several professional societies dedicated to nutrition, vitamins, and antioxidants, is a reviewer for several scientific journals, has published over 130 scientific articles, reviews, and book chapters, has co-edited 12 books, coordinated 4 special supplements and is co-inventor of more than 20 patents.

AREAS OF INTEREST AND EXPERTISE

- The nutritional and safety aspects of vitamins, minerals, and carotenoids
- Micronutrient deficiencies, including bioavailability and bioefficacy
- Food and nutrition security

- Sustainable and resilient food systems
- Health and nutrition in the context of emergencies, refugee settings, migration, rising food prices, economic crises, climate change, globalization, and urbanization
- Food (bio)fortification and supplementation
- Micronutrient program development, implementation, monitoring, and evaluation
- Implementation science for nutrition
- The development of micronutrient solutions for varied interventions which address nutrition deficiencies across the life course, with special emphasis on the first 1,000 days
- Capacity and leadership development to catalyze the scaling-up of nutrition interventions
- The causes, consequences, and mitigation of nutritional anemia
- Malnutrition in all its forms (over- and undernutrition)
- The cultural and biological context of nutrition intervention (people-centric design)
- Evidence in nutrition biomarkers for nutrition status assessment and nutrient gene interactions
- Nutrition communication and advocacy

PRESENT

Adjunct Associate Professor

since 2013

Department of International Health,
Johns Hopkins Bloomberg School of Public Health

Managing Director *Sight and Life*

since 2005

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PAST

Global Scientific Affairs Manager Human Nutrition, BASF Ludwigshafen, Germany 2000 – 2005

- Responsible for the development and execution of scientific marketing strategy
- Key scientific liaison with global accounts in the food and supplement industry
- The initiation, coordination, and supervision of human studies on vitamins and carotenoids
- Presentations at scientific conferences and trade fairs, and to customers
- Evidence-based advocacy and lobbying
- The management of key opinion leaders

R&D Scientist Nutrition, BASF Nutrition Research Station, Offenbach, Germany 1995 – 2000

- The initiation, coordination, supervision and reporting of animal and human studies on vitamins, carotenoids, and new health ingredients
- The publication and presentation of research findings to international audiences
- Evaluation and innovation of health ingredients
- Product innovation and applications

Scientific Product Manager, Biosyn Pharmaceuticals, Fellbach, Germany 1993 – 1995

- The development of new micronutrient products and dossiers
- The writing of technical expert opinions on pharmaceutical quality and efficacy for licensing dossiers
- The initiation, coordination, supervision, and reporting of clinical studies
- The development and execution of marketing and communication strategy in a medium-size pharmaceutical company
- Networking with key opinion leaders
- The publication of human studies and review articles in the field of micronutrients
- The organization of conferences and workshops related to micronutrients
- Training the pharmaceutical sales force

Postdoctoral Research Assistant, Justus-Liebig-University, Giessen, Germany 1991 – 1993

- The supervision of diploma and PhD students
- Teaching nutrition students in methods of nutritional physiology
- The development of tissue culture methods to replace animal testing
- The initiation, coordination, supervision, and reporting of animal studies
- The publication and presentation of research findings to international audiences
- Grant proposal writing

EDUCATION

- **PhD**, Nutritional Science, 1991, Justus-Liebig-University, Germany; Thesis: 'Hormonal Control of Zinc Metabolism', *Summa Cum Laude*
- **Diploma**, Nutritional Science, Justus-Liebig-University, Germany, 1986

HONORS

BMA Medical Book Awards, *The Road to Good Nutrition*, first prize in the Health and Social Care category, UK 2014

Chemical Industry News & Intelligence, *ICIS Award for Best Innovation*, MixMe™ Micronutrient Powder Supplement, UK 2008

Oxygen Club of California, *Frontiers Science and Humanity Award*, USA 2008

Micronutrient Forum Award, *Sight and Life's* Commitment to Alleviating Micronutrient Malnutrition, USA 2007

HW Schaumann Award, Best PhD Thesis in Nutritional Physiology, Germany 1991

ASSOCIATIONS

- American Society for Nutritional Sciences
- International Carotenoid Society
- New York Academy of Sciences

PROFESSIONAL APPOINTMENTS

- Swiss Commission for Research Partnerships with Developing Countries – since 2018
- Power of Nutrition Technical Advisory Panel – since 2017
- Global Alliance for Improved Nutrition (GAIN) Partnership Council – since 2017
- Society for Implementation Science in Nutrition, Board Member – since 2017
- Mongolian Health Initiative (MHI), Executive Board of Directors – since 2017
- Nutrition Initiative Evaluation Advisory Group for Rwanda – since 2016
- Scale up of Homestead Food Production for improved household food security and nutrition in Cambodia: “Family Farms for the Future”, External Advisory Committee – since 2016
- Advisor Community for Zero Hunger, since 2013
- Home Fortification Technical Advisory Group (HFTAG), Executive Committee – since 2011
- Micronutrient Forum, Board of Directors – since 2009
- European Journal of Nutrition & Food Safety, Editorial Board Member, 2014 – 2016
- International Federation for Spina Bifida and Hydrocephalus, Global Experts Panel, 2014 – 2015
- National Institute of Health, Biomarkers of Nutrition for Development (BOND), Steering Committee, 2010 – 2015
- Carotenoid Research Interest Group, Steering Committee, 2007 – 2015
- Oxygen Club of California, Advisory Board, 2009 – 2014
- Food Fortification Initiative, Leaders Group, 2009 – 2012
- Scaling Up Nutrition, Advocacy Working Group, 2010 – 2011

SCIENTIFIC REVIEWER

Annals of Nutrition and Metabolism
Archives of Biochemistry and Biophysics
Asia Pacific Journal of Clinical Nutrition
Biochimica et Biophysica Acta
Food and Chemical Toxicology
Food and Nutrition Bulletin
Global Food Security
Journal of Nutrition
Nutrients
Public Health Nutrition

LANGUAGES SPOKEN

German: Native language
English: Fluent spoken and written
French: Moderate

LIST OF PUBLICATIONS

Books and Monographs

1. Nutraceuticals in Health and Disease Prevention. Kraemer K, Hoppe PP, Packer L (eds), Marcel Dekker, New York, 2001.

2. The Antioxidant Vitamins C and E. Packer L, Traber MG, Kraemer K, Frei B (eds), AOCS Press, Champaign, 2002.
3. Carotenoids and Retinoids. Packer L, Kraemer K, Obermueller-Jevic U, Sies H (eds), AOCS Press, Champaign, 2005.
4. Oxidative Stress and Pharmaceuticals. Siems W, Kraemer K, Grune T (eds), GOVI, Eschborn, 2005.
5. Nutritional Anemia. Kraemer K, Zimmermann MB (eds), *Sight and Life* LIFE Press, Basel, 2007.
6. The Guidebook Nutritional Anemia. Kraemer K, Zimmermann MB, Badham J. (eds), *Sight and Life* Press, Basel, 2007.
7. *Sight and Life* Manual on Vitamin A Deficiency Disorders (VADD). McLaren DS, Kraemer K. (eds), World Review of Nutrition & Dietetics 103, Karger, Basel, 2012.
8. Micronutrients, Macro Impact: The Story of Vitamins and a Hungry World. Kraemer K, Badham J, Christian P, Jee Hyun Rah (eds), *Sight and Life* Press, Basel, 2012.
9. Carotenoids and Vitamin A in Translational Medicine. Sommerburg O, Siems W, Kraemer K (eds), Taylor & Francis, New York, 2013
10. The Road to Good Nutrition. A Global Perspective. Eggersdorfer M, Kraemer K, Ruel M, van Ameringen M, Biesalski HK, Bloem M, Chen J, Latef A, Mannar V (eds). Karger, Basel, 2013.
11. Good Nutrition. Perspectives for the 21st Century. Eggersdorfer M, Kraemer K, Cordaro JB, Fanzo J, Gibney M, Kennedy E, Labrique A, Steffen J (eds), Karger, Basel, 2016.
12. The Biology Behind of the First 1,000 Days of Life. Karakochuk C, Whitfield K, Lang T, Kraemer K., Taylor & Francis, 2017.

Original Articles

1. Pallauf J, Goettert W, Kraemer K. Effect of fumaric acid on nutrient digestibility in piglets (in German). *Landwirtschaftl Forschung* 1987;40:2-3.
2. Pallauf J, Goettert W, Kraemer K. Effect of citric acid on nutrient digestibility and N-balance in piglets (in German). *Dtsch tierärztl Wschr* 1988;95:146-50.
3. Pallauf J, Kraemer K, Markwitan A, Ebel D. Effect of citric acid on the bioavailability of zinc from maize germs (in German). *Z Ernährungswiss* 1990;29:27-38.
4. Kraemer K, Markwitan A, Montigel Ch, Pallauf J. Effect of an activator of protein kinase A (TPA) and a Ca²⁺ mobilizing agonist (A 23187) on zinc metabolism in the rat (in German). *Z Ernährungswiss* 1992;31:246-57.
5. Kraemer K, Markwitan A, Menne A, Pallauf J. Zinc metabolism in fasted rats. *J Trace Elem Electrolytes Health Dis* 1993;7:141-6.
6. Kraemer K, Markwitan A, Pallauf J. Studies on the metabolism of metallothionein and alkaline phosphatase of adult rat primary hepatocyte cultures: role of fetal calf serum and agonists of the phosphoinositide cascade. *Z Ernährungswiss* 1993;32:176-86.
7. Stoffel B, Kraemer K, Beuth J. Murine thymocyte proliferation, maturation and emigration in response to selenium. *Aznei.-Forsch./Drug Res* 1996;46:829-31.
8. Stoffel B, Kraemer K, Mayer H, Beuth J. Immunomodulating efficacy of combined administration of galactoside-specific lectin standardized mistletoe extract and sodium selenite in BALB/c-mice. *Anticancer Research* 1997;17:1893-96.
9. Geyer J, Netzel M, Bitsch I, Frank T, Bitsch R, Kraemer K, Hoppe PP. Bioavailability of water- and lipid-soluble thiamin compounds in broiler chickens. *Int J Vit Nutr Res* 2000;70:311-6.
10. O'Byrne D, Grundy S, Packer L, Devaraj S, Baldenius K, Hoppe PP, Kraemer K, Jialal I, Traber MG. Studies of LDL oxidation following alpha-, gamma-, or delta-tocotrienyl acetate supplementation of hypercholesterolemic humans. *Free Rad Biol Med* 2000;29:834-45.

11. Grune T, Kraemer K, Hoppe PP, Siems WG. Enrichment of eggs with n-3 polyunsaturated fatty acids: effects of vitamin E supplementation. *Lipids* 2001;36:833-8.
12. Hasselwander O, Kraemer K, Hoppe PP, Oberfrank U, Baldenius K, Schröder H, Kaufmann W, Bahnemann R, Nowakowsky B. Effects of various tocotrienol sources on plasma lipids and aortic atherosclerosis in cholesterol-fed rabbits. *Food Res Int* 2002;35:245-51.
13. Offord EA, Gautier J-C, Avanti O, Scaletta C, Runge F, Kraemer K, Applegate LA. Photoprotective potential of lycopene, β -carotene, vitamin E, vitamin C and carnosic acid in UVA-irradiated human skin fibroblasts. *Free Rad Biol Med* 2002;32:1293-1303.
14. Walter A, Kraemer K, Most E, Pallauf J. Effect of zinc lipoate and zinc sulfate on zinc availability in growing rats. *J Trace Elem Elem Med Biol* 2002;16:169-74.
15. Chardigny JM, Hasselwander O, Genty M, Kraemer K, Ptock A, Sebedio JL. Effect of conjugated FA on feed intake, body composition, and liver FA in mice. *Lipids* 2003;38:895-902.
16. Henriksen EJ, Teachey MK, Taylor ZC, Jacob S, Ptock A, Kraemer K, Hasselwander O. Isomer-specific Actions of Conjugated Linoleic Acid on Muscle Glucose Transport in the Obese Zucker Rat. *Am J Physiol Endocrinology Metabol* 2003;285:E98-E105.
17. Hoppe PP, Kraemer K, van den Berg H, Steenge G, van der Vliet T. Synthetic and tomato-based lycopene have identical bioavailability in humans. *Eur J Nutr* 2003;42:272-8.
18. Siems W, Capuozzo E, Crifo C, Sommerburg O, Langhans CD, Schipalius L, Kraemer K, Salerno C. Carotenoid cleavage products modify respiratory burst and induce apoptosis of human neutrophils. *Biochim Biophys Acta* 2003;1693:27-33.
19. Teachey MK, Taylor ZC, Maier T, Saengsirisuwan V, Sloniger JA, Jacob S, Klatt MJ, Ptock A, Kraemer K, Hasselwander O, Henriksen EJ. Interactions of conjugated linoleic acid and lipoic acid on insulin action in the obese Zucker rat. *Metabolism* 2003;52:1167-74.
20. Ekanayake-Mudiyanselage E, Kraemer K, Thiele JJ. Oral supplementation with all-*rac*- and *RRR*- α -tocopherol increases vitamin E levels in human sebum after a latency period of 14-21 days. *Ann NY Acad Sci* 2004;1031:184-94.
21. Kraemer K, Koch W, Hoppe PP. Is all-*rac*- α -tocopherol different from *RRR*- α -tocopherol regarding cardiovascular efficacy? A meta-analysis of clinical trials. *Ann NY Acad Sci* 2004;1031:435-8.
22. Packer L, Azzi A, Kraemer K, Ozer N, Sies H, Niki E, Viola F, Vatassery G. Future directions in preclinical vitamin E research: panel discussion A. *Ann N Y Acad Sci* 2004;1031:305-12.
23. Pentieva K, McNulty H, Reichert R, Ward M, Strain JJ, McKillop DJ, McPartlin JM, Connolly E, Molloy A, Kraemer K, Scott JM. The short-term bioavailabilities of [6S]-5-methyltetrahydrofolate and folic acid are equivalent in men. *J Nutr* 2004; 134:580-5.
24. Sanders SR, Teachey MK, Ptock A, Kraemer K, Hasselwander O, Henriksen EJ, Baumgard LH. Effects of specific conjugated linoleic acid isomers on growth characteristics in obese Zucker rats. *Lipids* 2004;39:537-43.
25. Majewicz J, Rimbach G, Proteggente AR, Lodge JK, Kraemer K, Minihane AM. Dietary vitamin C down-regulates inflammatory gene expression in apoE4 smokers. *Biochem Biophys Res Commun* 2005;338:951-5.
26. Proteggente AR, Turner R, Majewicz J, Rimbach G, Minihane AM, Kraemer K, Lodge JK. Noncompetitive plasma biokinetics of deuterium-labeled natural and synthetic α -tocopherol in healthy men with an apoE4 genotype. *J Nutr* 2005;135:1063-9.
27. Sicilia T, Bub A, Rechkemmer G, Kraemer K, Hoppe PP, Kulling SE. Novel lycopene metabolites are detectable in plasma of preruminant calves after lycopene supplementation. *J Nutr* 2005;135:2616-21.
28. Limpens J, Schröder FH, de Ridder CM, Bolder CA, Wildhagen MF, Obermueller-Jevic U, Nowakowsky B, Kraemer K, van Weerden WM. Combined lycopene and vitamin E suppresses the growth of PC-346C human prostate cancer cell in nude mice. *J Nutr* 2006;136:1287-93.

29. Proteggente AR, Rota C, Majewicz J, Rimbach G, Minihane AM, Kraemer K, Lodge JK. Cigarette smokers differ in their handling of natural (*RRR*) and synthetic (*all-rac*) alpha-tocopherol: a biokinetic study in apoE4 male subjects. *Free Radic Biol Med* 2006;40:2080-91.
30. Zhao X, Aldini G, Johnson EJ, Rasmussen H, Kraemer K, Woolf H, Musaeus N, Krinsky NI, Russell RM, Yeum KJ. Modification of lymphocyte DNA damage by carotenoid supplementation in postmenopausal women. *Am J Clin Nutr* 2006;83:163-9.
31. Campbell AA, Thorne-Lyman A, Sun K, de Pee S, Kraemer K, Moench-Pfanner R, Sari M, Akhter N, Bloem MW, Semba RD. Greater household expenditures on fruits and vegetables but not animal source foods are associated with decreased risk of under-five child mortality among families in rural Indonesia. *J Nutr* 2008;138:2244-9.
32. Campbell AA, de Pee S, Sun K, Kraemer K, Thorne-Lyman A, Moench-Pfanner R, Sari M, Akhter N, Bloem MW, Semba RD. Relationship of household food insecurity to neonatal, infant, and under-five child mortality among families in rural Indonesia. *Food Nutr Bull* 2009;30:112-9.
33. Campbell AA, Thorne-Lyman A, Sun K, de Pee S, Kraemer K, Moench-Pfanner R, Sari M, Akhter N, Bloem MW, Semba RD. Indonesian women of childbearing age are at greater risk of clinical vitamin A deficiency in families that spend more on rice and less on fruits/vegetables and animal based foods. *Nutr Res* 2009;29:75-81.
34. Englberger L, Schierle J, Hofmann P, Lorens A, Albert K, Levendusky A, Paul Y, Lickaneth E, Elymore A, Maddison M, deBrum I, Nemra J, Alfred J, Van der Velde N, Kraemer K. Carotenoid and vitamin content of Micronesian atoll foods: Pandanus (*Pandanus tectorius*) and garlic pear (*Crataeva speciosa*) fruit. *J Food Comp Analysis* 2009;22:1-8.
35. Semba RD, de Pee S, Kraemer K, Sun K, Thorne-Lyman A, Moench-Pfanner R, Sari M, Akhter N, Bloem MW. Purchase of drinking water is associated with increased child morbidity and mortality among urban slum-dwelling families in Indonesia. *Int J Hyg Environ Health* 2009;212:387-97.
36. Campbell AA, de Pee S, Sun K, Kraemer K, Thorne-Lyman A, Moench-Pfanner R, Sari M, Akhter N, Bloem MW, Semba RD. Household rice expenditure and maternal and child nutritional status in Bangladesh. *J Nutr* 2010;140:189S-94S.
37. Rah JH, Akhter N, Semba RD, de Pee S, Bloem MW, Campbell AA, Moench-Pfanner R, Sun K, Badham J, Kraemer K. Low dietary diversity is a predictor of child stunting in rural Bangladesh. *Eur J Clin Nutr* 2010;64:1393-8.
38. Sari M, de Pee S, Bloem MW, Sun K, Thorne-Lyman A, Moench-Pfanner R, Akhter N, Kraemer K, Semba RD. Higher household expenditure on animal-source and nongrain foods lowers the risk of stunting among children 0-59 months old in Indonesia: implications of rising food prices. *J Nutr* 2010;140:195S-200S.
39. Semba RD, Moench-Pfanner R, Sun K, de Pee S, Akhter N, Rah JH, Campbell AA, Badham J, Bloem MW, Kraemer K. Iron-fortified milk and noodle consumption is associated with lower risk of anemia among children aged 6-59 mo in Indonesia. *Am J Clin Nutr* 2010;92:170-6.
40. Thorne-Lyman A, Valpiani N, Sun K, Semba RD, Klotz CL, Kraemer K, Akhter N, de Pee S, Moench-Pfanner R, Sari M, Bloem MW. Household dietary diversity and food expenditures are closely linked in rural Bangladesh, increasing the risk of malnutrition due to the financial crisis. *J Nutr* 2010;140:182S-8S.
41. Semba RD, Campbell AA, Sun K, de Pee S, Akhter N, Moench-Pfanner R, Rah JH, Badham J, Kraemer K, Bloem MW. Paternal smoking is associated with greater food insecurity among poor families in rural Indonesia. *Asia Pac J Clin Nutr* 2011;20:618-23.
42. Campbell AA, Akhter N, Sun K, de Pee S, Kraemer K, Moench-Pfanner R, Rah JH, Badham J, Bloem MW, Semba RD. Relationship of homestead food production with night blindness among children below 5 years of age in Bangladesh. *Pub Health Nutr* 2011;14:1627-31.

43. Campbell AA, Akhter N, Sun K, de Pee S, Kraemer K, Moench-Pfanner R, Rah JH, Badham J, Bloem MW, Semba RD. Relationship of household food insecurity to anemia in children aged 6-59 months among families in rural Indonesia. *Ann Trop Med* 2011;31:321-30.
44. De Pee S, Spiegel P, Kraemer K, Wilkinson C, Bilukha O, Seal A, Macias K, Oman A, Fall AB, Yip R, West K, Zlotkin S, Bloem MW. Assessing the impact of micronutrient intervention programs implemented under special circumstances- meeting report. *Food Nutr Bull* 2011;32:256-63.
45. Ndemwa P, Klotz CL, Mwaniki D, Sun K, Muniu E, Andango P, Owigar J, Rah JH, Kraemer K, Spiegel PB, Bloem MW, de Pee S, Semba RD. Relationship of the availability of micronutrient powder with iron status and hemoglobin among women and children in the Kakuma Refugee Camp, Kenya. *Food Nutr Bull* 2011;32:286-91.
46. Kodish S, Rah JR, Kraemer K, de Pee S, Gittelsohn J. Understanding low usage of micronutrient powder in the Kakuma Refugee Camp, Kenya: Findings from a qualitative study. *Food Nutr Bull* 2011;32:292-303.
47. Rah JR, de Pee S, Halati S, Parveen M, Mehjabeen SS, Steiger G, Bloem MW, Kraemer K. Provision of micronutrient powder in response to the Cyclone Sidr emergency in Bangladesh: Cross-sectional assessment at the end of the intervention. *Food Nutr Bull* 2011;32:277-85.
48. Semba RD, Kraemer K, Sun K, de Pee S, Akhter N, Moench-Pfanner R, Rah JH, Campbell AA, Badham J, Bloem MW. Relationship of the Presence of a Household Improved Latrine with Diarrhea and Under-Five Child Mortality in Indonesia. *Am J Trop Med Hyg* 2011;84:443-50.
49. Semba RD, Moench-Pfanner R, Sun K, de Pee S, Akhter N, Rah JH, Campbell AA, Badham J, Bloem MW, Kraemer K. Consumption of micronutrient-fortified milk and noodles is associated with lower risk of stunting in preschool-aged children in Indonesia. *Food Nutr Bull* 2011;32:347-53.
50. Souganidis ES, Sun K, de Pee S, Kraemer K, Rah JH, Moench-Pfanner R, Sari M, Bloem MW, Semba RD. Determinants of Anemia Clustering Among Mothers and Children in Indonesia. *J Trop Pediatr* 2012;58:170-7.
51. Bechir M, Schelling E, Kraemer K, Schweigert F, Bonfoh B, Crump L, Tanner M, Zinsstag J. Retinol assessment among women and children in Sahelian mobile pastoralists. *Ecohealth* 2012;9:113-21.
52. Oddo VM, Rah JH, Semba RD, Sun K, Akhter N, Sari M, de Pee S, Moench-Pfanner R, Bloem MW, Kraemer K. Predictors of maternal and child double burden of malnutrition in rural Indonesia and Bangladesh. *Am J Clin Nutr* 2012;95:951-8.
53. Souganidis ES, Sun K, de Pee S, Kraemer K, Rah JH, Moench-Pfanner R, Sari M, Bloem MW, Semba RD. Relationship of Maternal Knowledge of Anemia with Maternal and Child Anemia and Health-Related Behaviors Targeted at Anemia Among Families in Indonesia. *Matern Child Health J* 2012;9:1913-25.
54. Sumithra M, Hyun Rah J, Sugimoto JD, Roos FF, Kraemer K, Black RE. The global hidden hunger indices and maps: an advocacy tool for action. *PLoS One*. 2013 Jun 12;8(6):e67860. doi: 10.1371/journal.pone.0067860.
55. Pignitter M, Stolze K, Gartner S, Dumhart B, Stoll C, Steiger G, Kraemer K, Somoza V. Cold fluorescent light as major inducer of lipid oxidation in soybean oil stored at household conditions for eight weeks. *J Agric Food Chem* 2014;62:2297-305.
56. Pignitter M, Dumhart B, Gartner S, Jirsa F, Steiger G, Kraemer K, Somoza V. Vitamin A is rapidly degraded in retinyl palmitate-fortified soybean oil stored under household conditions. *J Agric Food Chem* DOI: 10.1021/jf502109j
57. Solomons NW, Bailey E, Soto-Mendez M-J, Campos R, Kraemer K, Salem N. Erythrocyte fatty acid status in a convenience sample of Residents of the Guatemalan pacific coastal plain. Prostaglandins, Leukotrienes and Essential Fatty Acids (PLEFA) DOI:10.1016/j.plefa.2015.03.003

58. Ruel-Bergeron JC, Stevens GA, Sugimoto JD, Roos FF, Ezzati M, Black RE, Kraemer K. Global update and trends of Hidden Hunger, 1995-2011: The Hidden Hunger Index-2. *PLoS One*;10(12):e0143497. doi: 10.1371/journal.pone.0143497.
59. Mark HE, Houghton LA, Gibson RS, Monterrosa E, Kraemer K. Estimating dietary micronutrient supply and the prevalence of inadequate intakes from national Food Balance Sheets in the South Asia region. *Asia Pac J Clin Nutr*. 2016;25. doi: 10.6133/apjcn.2016.25.2.11
60. Semba RD, Shardell M, Ashour FAS, Moaddel R, Trehan I, Maleta KM, Ordiz MI, Kraemer K, Khadeer M, Ferrucci L, Manary MJ. Child stunting is associated with low circulating essential amino acids. *EBIOMED*. 2016 <http://dx.doi.org/10.1016/j.ebiom.2016.02.030>.
61. Pignitter M, Hernler N, Zauschirm M, Kienesberger J, Kraemer K, Somoza V. Palm oil limits degradation of vitamin A by a minor susceptibility to oxidative rancidity. *Nutrients*. 2016 Jun 21;8(6). pii: E378. doi: 10.3390/nu8060378.
62. Semba RD, Shardell M, Trehan I, Moaddel R, Maleta KM, Ordiz MI, Kraemer K, Khadeer M, Ferrucci L, Manary MJ. Metabolic alterations in children with environmental enteric dysfunction. *Sci Rep*. 2016 Jun 13;6:28009. doi: 10.1038/srep28009.
63. Semba RD, Trehan I, Li X, Moaddel R, Ordiz MI, Maleta KM, Kraemer K, Shardell M, Ferrucci L, Manary M. Environmental enteric dysfunction is associated with carnitine deficiency and altered fatty acid oxidation. *EBioMedicine*. 2017 Jan 18. pii: S2352-3964(17)30030-0. doi: 10.1016/j.ebiom.2017.01.026. [Epub ahead of print].
64. Karakochuk CD, Barker MK, Whitfield KC, Barr SI, Vercauteren SM, Devlin AM, Hutcheon JA, Houghton LA, Prak S, Hou K, Chai TL, Stormer A, Ly S, Devenish R, Oberkanins C, Pühringer H, Harding KB, De-Regil LM, Kraemer K, Green TJ. The effect of oral iron with or without multiple micronutrients on hemoglobin concentration and hemoglobin response among non-pregnant Cambodian women of reproductive age: A 2x2 factorial double-blind randomized controlled supplementation trial. *Am J Clin Nutr*. 2017 May 10. pii: ajcn140996. doi: 10.3945/ajcn.116.140996. [Epub ahead of print].
65. Monterrosa EC, Beesabathuni K, van Zutphen KG, Steiger G, Kupka R, Fleet A, Kraemer K. Situation analysis of production and procurement of multiple micronutrient supplements in 12 low- and middle-income countries. *Matern Child Nutr*. 2017 Dec 26. doi: 10.1111/mcn.12500.
66. Semba RD, Trehan I, Li X, Salem N, Jr, Moaddel R, Ordiz MI, Maleta KM, Kraemer K, Manary M. Low serum omega-3 and omega-6 polyunsaturated fatty acids and other metabolites are associated with poor linear growth in young children from rural Malawi. *Am J Clin Nutr*. 2017 Oct 25. pii: ajcn164384. doi: 10.3945/ajcn.117.164384.

Reviews

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Book Chapters

1. Virgili F, Scaccini C, Hoppe PP, Kraemer K, Packer L. Plant phenols and cardiovascular disease: antioxidants and modulators of cell response. pp 187-215, *Nutraceuticals in Health and Disease Prevention*. Kraemer K, Hoppe PP, Packer L. (eds), Marcel Dekker, New York, 2001.
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Special Supplements – Guest Editor/Coordinator

1. The Impact of Climate Change, the Economic Crisis, and the Increase in Food Prices on Malnutrition. *J Nutr* 2010;140:130S-228S.
2. Special section: Assessing the impact of micronutrient interventions under special circumstances such as refugee camps and emergency operations. *Food Nutr Bull* 2011;32:255-303.
3. Multiple Micronutrient Nutrition: Evidence from History to Science to Effective Programs. *J Nutr* 2012;142:138S-209S.
4. The Discovery of Vitamins – 100th Anniversary Special Issue. *Ann Nutr Metab* 2012;61:181-270.

Letters to the Editor

1. Limpens J, van Weerden WM, Kraemer K, Pallapies D, Obermueller-Jevic UC, Schroeder FH. Re: Prostate carcinogenesis in N-methyl-N-nitrosourea (NMU)-testosterone-treated rats fed tomato powder, lycopene, or energy-restricted diets. *J Natl Cancer Inst* 2004;96:554.
2. Hathcock JN, Azzi A, Blumberg J, Dickinson A, Frei B, Traber MG, Johnston CS, Kraemer K, Parthasarathy S, Packer L. Potential harm of vitamin E. *Am J Clin Nutr* 2005;82:1142-3.

Blogs

1. Building New Models to Nourish 7 Billion. *Diplomatic Courier* (January 2012).
2. Micronutrients: The Smartest Investment the World can Make. *GlobalPost* (June 2012).
3. Addressing Malnutrition – Turning Commitments into Action. *ImPact Blog* (September 2012).
4. Preventing Blindness and Saving Lives with Vitamin A - together with Howard Schiffer. *ONE* (October 2012).
5. Breaking Down Silos: Integrating Nutrition for Impact. *GHD News* (October 2012).
6. Scaling Up Nutrition with Public and Private Partnerships - together with Gladys Mugambi. *Africa Review* (November 2012).
7. Interview with Dr Klaus Kraemer on Tackling Malnutrition and Micronutrient Deficiencies. *The Chicago Council* (December 2012).
8. We can't Address Food Security Without Addressing Nutrition Security. *The Economist, Management Thinking Blog* (December 2012).
9. Unlocking Human Potential – together with Kalpana Beesabathuni. *Scientists Without Borders EasyBlog* (April 2013).
10. Searching for the 'Moonshot Moment': Crowdsourcing model promises environmentally sensitive packaging solutions – together with Marcel Wubbolds. *Scientists Without Borders Digest* (July 2013).
11. A New Tool to Tackle Hidden Hunger. *Thomson Reuters Foundation. Trust.org* (July 2013).
12. Towards the Next Horizon for Nutrition – Capacity Development. *Global Nutrition Report* (September 2014).

13. Building capacity — and leadership — for the next decade of progress on nutrition. Global Nutrition Report (November 2014).
14. Supplements for pregnant women in Bangladesh to boost nutrition. The Guardian Global Development Professionals Network (March 2015).
15. Finding the balance. *Sight and Life* (January 2016).
16. Trends show where to focus on hidden hunger. Huffington Post (January 2016).
17. Scaling up nutrition by investing in our nutrition workforce – together with Jessica Fanzo and Johann Jerling. Global Nutrition Report (February 2016).
18. Have we been hooked on micronutrients in our search for the solution of stunting? – together with Richard D Semba. Huffington Post (April 2016).

Presentations and Panels

Dr Kraemer has given presentations on a wide range of nutrition and micronutrient topics, at forums across the world, and is often invited to be a panel member in discussions addressing nutrition and food security issues.

CONFERENCE/WORKSHOP ORGANIZER

1. *Nutritional Anemia*. Workshop co-organized with Michael B Zimmermann at 1st World Public Health Nutrition Conference. Barcelona, Spain, September 27-30, 2006.
2. *Hidden Hunger: Socioeconomic and Scientific Challenges*. Round Table co-organized with Lester Packer and Helmut Sies at Oxygen Club of California World Congress. Santa Barbara, USA, March 15-18, 2008.
3. *The Impact of Climate Change, the Economic Crisis, and the Increase in Food Prices on Malnutrition*. Workshop co-organized with Martin W Bloem and Richard D Semba. Castel Gandolfo, Italy, January 24-25, 2009.
4. *Micronutrient Powders*. Satellite Meeting at 2nd Micronutrient Forum. Beijing, May 12-15, 2009.
5. *Multiple Micronutrient Nutrition: Evidence from History to Science to Effective Programs*. Workshop co-organized with Richard D Semba and Jean-Pierre Habicht at 2nd World Public Health Nutrition Conference. Porto, Portugal, September 23-25, 2010.
6. *Emerging Nutrition Gaps in a World of Affluence*. Lunch Forum co-organized with Manfred Eggersdorfer at 2nd World Public Health Nutrition Conference. Porto, Portugal, September 23-25, 2010.
7. *Implementing Large-Scale Micronutrient Powder (MNP) Programs: Experiences from WFP-DSM Partnership*. Lunch Forum co-organized with Martin W Bloem and Saskia de Pee at 2nd World Public Health Nutrition Conference. Porto, Portugal, September 23-25, 2010.
8. *Nutrient-Gene Interactions and Epigenetics*. Session at Oxygen Club of California World Congress. June 20–23, 2012, Alba, Italy
9. *International Conference Hidden Hunger*. Member International Board and Program Committee. Stuttgart, Germany, March 6-9, 2013.
10. *Biomarkers in Growth (BIG)*. Workshop co-organized with Daniel Raiten at International Congress of Nutrition. Granada, Spain, September 15-20, 2013.
11. *A New Nutrition Workforce: Educating and Training for a Post 2015 World*. Workshop co-organized with Jessica Fanzo, Martin W Bloem and Richard J Deckelbaum. Rome, Italy, November 7-8, 2013.

12. *The First 1000 Days: From Metabolic Signal to Societal Impact*. Session co-organized with Christine Stewart at Oxygen Club of California World Congress. May 7-10, 2014, Davis, USA.
13. *Stakeholders and Sustainability: Elements of an Enabling Environment*. Track co-chair with Emorn Udomkesmalee, Katharine Kreis for Micronutrient Forum. Addis Ababa, Ethiopia, June 2-6, 2014.
14. *Public-Private Partnerships: Public nutrition services and private sector engagement - a conflict or reality?* Symposium during the World Congress of Public Health Nutrition, organized with Eva Monterrosa and Martin Bloem. Las Palmas, Grand Canarias, Spain, November 9-12, 2014.
15. *Bridging the Nutrient Gap – Which delivery channels can effectively provide the missing nutrients?* Symposium co-organized with Regina Moench-Pfanner at the 12th Asian Congress of Nutrition. Yokohama, Japan, May 14-18, 2015.
16. *DOHAD and nutrition: Are we doing enough to improve birth and long-term outcomes through maternal nutrition?* Co-organized with Luz Maria de Regil. 9th World Congress on Developmental Origins of Adult Health and Disease. Cape Town, South Africa, 8-11 November 2015.
17. *Biology of Linear Growth: A Guide for Reducing Childhood Stunting*. Symposium co-organized with Keith West, Jr. Experimental Biology. San Diego, April 2-6, 2016.
18. *Transforming the enabling environment to forge a future for micronutrients – what will it take?* Track chair for Micronutrient Forum. Cancun, Mexico, October 24-28, 2016.
19. *3rd International Conference Hidden Hunger*. Member Advisory Board. Stuttgart, Germany, March 20-22, 2017. *Rationale for a public health address to emerging micronutrients in Hidden Hunger: Vitamin D, vitamin K, vitamin E, essential fatty acids and amino acids*. Session Co-organized with Noel Solomons.
20. *The Biology of the First 1,000 Days*. Symposium co-organized with Crystal Karakochuk. 21st International Congress of Nutrition (ICN), Buenos Aires, October 15–20, 2017.