

Elad Tako- Selected Publications

- **Tako E.**, Rutzke M. A. and Glahn R. P. Using the domestic chicken (*Gallus gallus*) as an *in vivo* model for Fe bioavailability (2010). Journal of Poultry Science. Mar, 89:514-521.
- **Elad Tako** and R. P. Glahn. White beans provide more bioavailable iron than red beans: Studies in poultry (*Gallus gallus*) and an *in vitro* digestion/Caco-2 model. International Journal for Vitamin and Nutrition Research (2011). 81(1): 1-14
- **Elad Tako**, Matthew W. Blair and Raymond P. Glahn. Biofortified red mottled beans (*Phaseolus vulgaris* L.) in a maize and bean diet provide more bioavailable iron than standard red mottled beans: studies in poultry (*Gallus gallus*) and an *in vitro* digestion/ Caco-2 model. Nutrition Journal (2011). 14;10:113
- **Elad Tako** and R. P. Glahn. Intra amniotic administration and dietary inulin affect the iron status and intestinal functionality of iron deficient broiler chickens (*Gallus gallus*). Journal of Poultry Science (2012). Jun;91(6):1361-70.
- Spenser Reed, Xia Qin, Rinat Ran-Ressler, J. Thomas Brenna, Raymond P. Glahn, and **Elad Tako**. Dietary zinc deficiency affects blood linoleic acid: dihomo- γ -linolenic acid (LA:DGLA) ratio; a sensitive physiological marker of zinc status *in vivo* (*Gallus gallus*). Nutrients (2014), 6(3), 1164-1180; doi:10.3390/nu6031164 (Special Issue "Nutrient: Gene Interactions").
- **Elad Tako**, Steve E Beebe, Spenser Reed, Jonathan J Hart and Raymond P Glahn. Polyphenolic compounds appear to limit the nutritional benefit of biofortified higher iron black bean (*Phaseolus vulgaris* L.). Nutrition Journal (2014), 13:28 doi:10.1186/1475-2891-13-28.
- **Elad Tako**, Raymond P. Glahn, Marija Knez and James C.R. Stangoulis. The effect of wheat prebiotics on the gut bacterial population and iron status of iron deficient broiler chickens. Nutrition Journal (2014), 13;13(1):58. doi: 10.1186/1475-2891-13-58.
- **Elad Tako**, Spenser Reed, Jessica Budiman, Jonathan Hart, and Raymond P. Glahn. Polyphenolic compounds appear to limit the nutritional benefit of biofortified higher iron pearl millet (*Pennisetum glaucum* L.) Nutrition Journal (2015), Jan 23;14:11. doi: 10.1186/1475-2891-14-11.
- Karen Hartono, Spenser Reed, Naa Ayikarkor Ankrah, Raymond P. Glahn.a and **Elad Tako**. Alterations in gut microflora populations and brush border functionality following intra-amniotic daidzein administration. RSC Advances, (2015), 5, 6407-6412. DOI: 10.1039/C4RA10962G
- **Elad Tako**, Amrutha Anandraman, Spenser Reed, Steve Bebee, Raymond Glahn. Studies of Brown Carioca Beans (*Phaseolus Vulgaris* L.) from a Rwandan efficacy trial: *In vitro* and *In vivo* screening tools reflect human studies and predict beneficial results from iron biofortified beans. PLoS One. 2015 Sep 18;10(9):e0138479. doi: 10.1371/journal.pone.0138479.
- Spenser Reed, Hadar Neuman, Sharon Moscovich, Raymond P. Glahn, Omry Koren, and **Elad Tako**. Chronic Zinc Deficiency Alters Chick Gut Microbiota Composition and Function. Nutrients. 2015 Nov 27;7(12):9768-84. doi: 10.3390/nu7125497.
- **Tako E**, Bar H, Glahn RP. The Combined Application of the Caco-2 Cell Bioassay Coupled with *In Vivo* (*Gallus gallus*) Feeding Trial Represents an Effective Approach to Predicting Fe Bioavailability in Humans. Nutrients. 2016 Nov 18;8(11). pii: E732. Review.
- Sarina Pacifici, Jaehong Song, Cathy Zhang, Qiaoye Wang, Raymond P. Glahn, Nikolai Kolba and **Elad Tako**. Intra Amniotic Administration of Raffinose and Stachyose Affects the Intestinal Brush Border Functionality and Alters Gut Microflora Populations. Nutrients, 2017, 9(3), 304; doi:10.3390/nu9030304.
- Tao Hou, Nikolai Kolba, Raymond P. Glahn, and **Elad Tako**. Intra-Amniotic Administration (*Gallus gallus*) of Cicer arietinum and Lens culinaris Prebiotics Extracts and Duck Egg White Peptides Affects Calcium Status and Intestinal Functionality. Nutrients, 2017, 9(7), 785; doi:10.3390/nu9070785
- Spenser Reed, Hadar Neuman, Raymond Glahn, Omry Koren, and **Elad Tako**. Characterizing the Gut (*Gallus gallus*) Microbiota Following the Consumption of an Iron Biofortified Rwandan Cream Seeded Carioca (*Phaseolus Vulgaris* L.) Bean-based Diet. PLoS One, 2017, Aug 10;12(8):e0182431. doi: 10.1371/journal.pone.0182431.

Elad Tako- Selected Publications

- Marija Knez, James C.R. Stangoulis, Maria Glibetic, and **Elad Tako**. The LA:DGLA ratio - an emerging biomarker of Zn status. Nutrients (special issue: *Dietary zinc and human health*), 2017, Aug 1;9(8). pii: E825. doi: 10.3390/nu9080825. Review.
- Marija Knez, **Elad Tako**, Raymond P Glahn, Nikolai Kolba, Emma de Courcy Ireland, James CR Stangoulis. The linoleic acid: dihomo- γ -linolenic acid ratio predicts the efficacy of Zn biofortified wheat in chicken (*Gallus gallus*). Journal of agricultural and food chemistry, 2018, Feb 6. doi: 10.1021/acs.jafc.7b04905.
- Tao Hou and **Elad Tako**. The In Ovo Feeding Administration (*Gallus Gallus*)—An Emerging In Vivo Approach to Assess Bioactive Compounds with Potential Nutritional Benefits. Nutrients 2018, 10, 418; doi:10.3390/nu10040418. Review.
- Spenser Reed, Marija Knez, Atara Uzan, James Stangoulis, Omry Koren, and **Elad Tako**. Alterations in the gut (*Gallus gallus*) microbiota following the consumption of zinc biofortified wheat (*Triticum aestivum*) -based diet. Journal of agricultural and food chemistry, 2018, June 6. Doi: 10.1021/acs.jafc.8b01481