

ernährung heute 2_2020

Bewegte Zeiten

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In die Gänge kommen

Autorin: Marlies Gruber, Seite: 4-7

- APA: Devise „Runter mit dem Corona-Speckgürtel“. 04.06.2020. www.science.apa.at/site/kultur_und_gesellschaft/detail?key=SCI_20200604_SCI39371351254904854 (Zugriff: 08.06.2020).
- Bundesministerium für Ernährung und Landwirtschaft: Deutschland, wie es isst – der BMEL-Ernährungsreport 2020. www.bmel.de/DE/themen/ernaehrung/ernaehrungsreport2020.html (Zugriff: 08.06.2020).
- Klass P: Emotional Eating in Quarantined Kids. New York Times, 18.05.2020. www.nytimes.com/2020/05/18/well/family/children-emotional-eating-coronavirus.html?algo=identity (Zugriff: 08.06.2020).
- Meule A: Emotionales Essverhalten. ernährung heute 4: 15–17 (2018).
- Nolan V: Krise und Kulinarik. 05.06.2020. www.salz-pfeffer.ch/themen/aus-der-branche/krise-und-kulinarik/ (Zugriff: 08.06.2020).
- Sonnenberg AK: Jüngere nahmen während Lockdown-Wochen mehr an Gewicht zu als Ältere. 13.05.2020. www.yougov.de/news/2020/05/13/juengere-nahmen-waehrend-lockdown-wochen-mehr-gewich/ (Zugriff: 08.06.2020).
- N.N: Franzosen legen während Ausgangssperre an Gewicht zu. 16.05.2020. www.pharmazeutische-zeitung.de/franzosen-legen-waehrend-ausgangssperre-an-gewicht-zu-117571/ (Zugriff: 08.06.2020).
- N.N: Dick aus der Krise: Die riskanten Folgen der Corona-Maßnahmen. 27.04.2020. www.br.de/nachrichten/wissen/dick-aus-der-krise-die-riskanten-folgen-der-corona-massnahmen,RxLuZlu (Zugriff: 08.06.2020).

fokus

Diabetes ein Update

Autorin: Ingrid Mikl, Seite: 8-11

- Imamura F et al.: Estimated Substitution of Tea or Coffee for Sugar-Sweetened Beverages Was Associated with Lower Type 2 Diabetes Incidence in Case-Cohort Analysis across 8 European Countries in the EPIC-InterAct Study. J Nutr 149: 1985–1993 (2019).
- Jannasch F, Kröger J, Schulze MB: Dietary Patterns and Type 2 Diabetes: A Systematic Literature Review and Meta-Analysis of Prospective Studies. J Nutr 147: 1174–82 (2017).
- Korat AVA et al.: Circulating Very-Long-Chain SFA Concentrations Are Inversely Associated with Incident Type 2 Diabetes in US Men and Woman. J Nutr 150: 340–349 (2020).

- Lean MEJ et al.: Durability of a Primary Care-led Weight-management Intervention for Remission of Type 2 Diabetes: 2-year Results of the DiRECT Open-label, Cluster-randomised Trial. *Lancet* 7 (5): 344–355 (2019).
- Nonogaki K, Nozue K, Oka Y: Social Isolation Affects the Development of Obesity and Type 2 Diabetes in Mice. *En* 148: 4658–4666 (2007).
- Sahakian BJ, Burdess C, Luckhurst H, Trayhurn P: Hyperactivity and Obesity: The Interaction of Social Isolation and Cafeteria Feeding. *Physiol Behav.* 28: 117–124 (1982).
- Schwarz J: Diabetes-Werte. www.netdoktor.de/krankheiten/diabetes-mellitus/diabetes-werte/ (Zugriff: 11.05.2020).
- Tuomilehto J et al.: Prevention of Type 2 Diabetes Mellitus by Changes in Lifestyle Among Subjects with Impaired Glucose Tolerance. *N Engl J Med*; 344 (18): 1343–50 (2001).

fokus

Eng verzahnt

Autorin: Elisabeth Sperr, Seite: 12

- Baeza M et al.: Effect of Periodontal Treatment in Patients with Periodontitis and Diabetes: Systematic Review and Meta-analysis. *J Appl Oral Sci [Online]* 28: e20190248 (2020).
- Bourgeois D, Inquimbert C, Ottolenghi L, Carrouel F: Periodontal Pathogens as Risk Factors of Cardiovascular Diseases, Diabetes, Rheumatoid Arthritis, Cancer, and Chronic Obstructive Pulmonary Disease – Is There Cause for Consideration? *Microorganisms* 7: 424 (2019).
- Costa FO et al.: Progression of Periodontitis and Tooth Loss Associated with Glycemic Control in Individuals Undergoing Periodontal Maintenance Therapy: A 5-Year Follow-Up Study. *J Periodontol* 84: 595–605 (2013).
- Graziani F, Gennai S, Solini A, Petrini M: A Systematic Review and Meta-analysis of Epidemiologic Observational Evidence on the Effect of Periodontitis on Diabetes an Update of the EFP-AAP Review. *J Clin Periodontol* 45: 167–187 (2018).
- Kocher T et al.: Effect of Periodontal Treatment on HbA1c among Patients with Prediabetes. *J Dent Res* 98: 171–179 (2019).
- Kuzmanova D, Jepsen S, Dommisch H: Parodontitis und Diabetes. *wissen kompakt* 10: 103–120 (2016).
- Liccardo D et al.: Periodontal Disease: A Risk Factor for Diabetes and Cardiovascular Disease. *Int J Mol* 20: 1414 (2019).
- Nauck M et al.: Definition, Klassifikation und Diagnostik des Diabetes mellitus. *Diabetologie* 12: 94–100 (2017).
- Österreichische Gesellschaft für Parodontologie: Patienteninformation. www.oegp.at/patientinnen/ (Zugriff: 29.04.2020).
- Preshaw PM, Bissett SM: Periodontitis and Diabetes. *Br Dent J* 227: 577–584 (2019).
- Quintero AJ et al.: Effect of Two Periodontal Treatment Modalities in Patients with Uncontrolled Type 2 Diabetes Mellitus: A Randomized Clinical Trial. *J Clin Periodontol* 45: 1098–1106 (2018).
- Rohani B: Oral Manifestations in Patients with Diabetes Mellitus. *World J Diabetes* 10 (9): 485–489 (2019).

fokus

Diabetes, Mikrobiom und innerer Schweinehund

Autorin: Carmen Bopp, Seite: 13-14

- Ärzte Zeitung: Mikrobiom – Butyrat-bildende Darmbakterien identifiziert (2018). www.aerztezeitung.de/Medizin/Butyrat-bildende-Darmbakterien-identifiziert-222694.html (Zugriff: 23.04.2020).
- Barton W et al: The Microbiome of Professional Athletes Differs from that of More Sedentary Subjects in Composition and Particularly at the Functional Metabolic Level. *Gut*, 67 (4), 625–633 (2018).
- Liu Y et al: Gut Microbiome Fermentation Determines the Efficacy of Exercise for Diabetes Prevention. *Cell Metabolism*, 31 (1), 77–91 (2020).
- Pedersen HK et al: Human Gut Microbes Impact Host Serum Metabolome and Insulin Sensitivity. *Nature*, 535 (7612), 376–381 (2016).
- Wu H et al: Metformin Alters the Gut Microbiome of Individuals with Treatment-naive Type 2 Diabetes, Contributing to the Therapeutic Effects of the Drug. *Nature Medicine*, 23 (7), 850 (2017).
- Zhu T, Goodarzi MO: Metabolites Linking the Gut Microbiome with Risk for Type 2 Diabetes. *Current Nutrition Reports*, 1–11 (2020).

fokus

Daten und Fakten zum Mikrobiom

Autorin: Carina Kern und Elisabeth Sperr, Seite: 15

- Bohlmann F: Fremdes Leben im eigenen Darm. *Tabula*: 4–9 (2015).
- Franzosa EA et al.: Identifying Personal Microbiomes Using Metagenomic Codes. *Proc Natl Acad Sci USA* 2; 112 (22): 2930–8 (2015).
- Gessner A: Das Mikrobiom – Entscheidender Faktor für die Personalisierte Medizin der Zukunft. *Diagnostik im Dialog* 51 (12): 12–15 (2016).
- Jutzi S: Der bewohnte Mensch: Darm, Haut, Psyche – Besser leben mit Mikroben. Heyne Verlag, München (2014).
- Kort R. et al.: Shaping the Oral Microbiota through Intimate Kissing. *Microbiome* 2: 41 (2014).
- Locey KJ, Lennon JT: Scaling Laws Predict Global Microbial Diversity. *Proc Natl Acad Sci USA* 113: 5970–5975 (2016).
- Sender R et al.: Revised Estimates for the Number of Human and Bacteria Cells in the Body. *PLoS Biol.* 19; 14 (8) (2016).
- Schloter M et al.: Die Bedeutung des humanen Mikrobioms für die menschliche Gesundheit. *BIOspektrum*, 21 (1), 39–40 (2014).
- Peterson J et al.: The NIH Human Microbiome Project. *Genome Res* 19 (12): 2317–2323 (2009).
- N.N: www.microbiome.at (Zugriff: 07.05.2020).

fokus

Mikrobiom: Status quo

Autorin: Carina Kern, Seite: 16

- Sikalidis AK, Maykish A: The Gut Microbiome and Type 2 Diabetes Mellitus: Discussing a Complex Relationship. *Biomedicine* 8 (1): 8 (2020).
- De Angelis M et al.: Diet Influences the Functions of the Human Intestinal Microbiome. *Sci rep* 10 (1): 1–15 (2020).
- Wilson AS et al.: Diet and the Human Gut Microbiome: An International Review. *Dig Dis Sci* 65: 723–740 (2020).

- Dao MC, Clément K: Gutmicrobiota and Obesity: Concepts Relevant to Clinical Care. *Eur J Intern Med* 48: 18–24 (2018).
- Stallmach A, Vehreschild MJGT: *Mikrobiom*. Auflage 1, Walter de Gruyter Verlag, Berlin (2016).
- Jandhyala SM et al.: Role of the Normal Gut Microbiota. *World J. Gastroenterol* 21: 8836–8847 (2015).
- David LA et al.: Diet Rapidly and Reproducibly Alters the Human Gut Microbiome. *Nature* 505 (7484): 559–563 (2014).
- Foster JA, McVey Neufeld KA: Gut-brain Axis: How the Microbiome Influences Anxiety and Depression. *Trends Neurosci* 36 (5): 305–312 (2013).
- Bell JS et al.: Invited Review: From Nose to gut – the Role of the Microbiome in Neurological Disease. *Neuropathol Appl Neurobiol* 45 (3): 195–215 (2019).
- Cani PD: Gut Microbiome and Obesity. In: Bray GA, Bouchard C: *Handbook of Obesity*, Two-Volume Set, Florida: 183–189 (2019).
- Turnbaugh PJ et al.: The Human Microbiome Project. *Nature* 449 (7164): 804–810 (2007).
- Cani PD et al.: Changes in Gut Microbiota Control Inflammation in Obese Mice Through a Mechanism Involving GLP-2-driven Improvement of Gut Permeability. *Gut* 58 (8): 1091–1103 (2009).
- Thaiss CA et al.: Hyperglycemia Drives Intestinal Barrier Dysfunction and Risk for Enteric Infection. *Science* 359 (6382): 1376–1383 (2008).
- Liu Y et al.: Gut Microbiome Fermentation Determines the Efficacy of Exercise for Diabetes Prevention. *Cell Metab* 31 (1): 77–91 (2020).
- Dalby M et al.: Dietary Uncoupling of Gut Microbiota and Energy Harvesting from Obesity and Glucose Tolerance in Mice. *Cell Rep* 21 (6): 1521–1533 (2017).

Sensorik

Kokumi

Autorin: Eva Derndorfer, Seite: 20-21

- Derndorfer E: Umami – der unverstandene Geschmack. *ernährung heute* 3: 16–19 (2017).
- Dunkel A, Köster J, Hofmann T: Molecular and Sensory Characterization of γ -glutamyl Peptides as Key Contributors to the Kokumi Taste of Edible Beans (*Phaseolus vulgaris* L.). *J Agric Food Chem* 55 (16): 6712–6719 (2007).
- Kuroda M, Miyamura N: Mechanism of the Perception of „Kokumi“ Substances and the Sensory Characteristics of the „Kokumi“ Peptide, γ -Glu-Val-Gly. *Flavour* 4 (1): 11 (2015).
- Liu J, Song H, Liu Y, Li P, Yao J, Xiong J: Discovery of Kokumi Peptide from Yeast Extract by LC-Q-TOF-MS/MS and Sensomics Approach. *J Sci Food Agric* 95 (15): 3183–3194 (2015).
- Miyaki T, Kawasaki H, Kuroda M, Miyamura N, Kouda T: Effect of a Kokumi Peptide, γ -glutamyl-valyl-glycine, on the Sensory Characteristics of Chicken Consommé. *Flavour* 4 (1): 17 (2015).
- Miyamura N et al.: Determination and Quantification of Kokumi Peptide, γ -glutamyl-valyl-glycine, in Brewed Alcoholic Beverages. *Journal of Bioscience and Bioengineering*, 120 (3): 311–314, (2015).
- Miyamura N, Jo S, Kuroda M, Kouda T: Flavour Improvement of Reduced-fat Peanut Butter by Addition of a Kokumi Peptide, γ -glutamyl-valyl-glycine. *Flavour*, 4 (1): 16 (2015).
- Toelstede S, Dunkel A, Hofmann T: A Series of Kokumi Peptides Impart the L-lasting Mouthfulness of Matured Gouda Cheese. *J Agric Food Chem* 57 (4): 1440–1448 (2009).
- Toelstede S, Hofmann T: Kokumi-active Glutamyl Peptides in Cheeses and their Biogeneration by *Penicillium Roquefortii*. *J Agric Food Chem* 57 (9): 3738–3748 (2009).

- Ueda Y, Sakaguchi M, Hirayama K, Miyajima R, Kimizuka A: Characteristic Flavor Constituents in Water Extract of Garlic. *Agr Biol Chem* 54 (1): 163–169 (1990).

Serie: Obst & Gemüse in Saison – Teil 2

Weichsel & Mirabelle

Autorin: Eva Derndorfer, Seite: 22-23

- AMA Marketing: Alles über Joghurt. 1. Auflage (2013).
- Davidson A: *The Penguin Companion to Food*. Penguin Books, London (2002).
- Derndorfer E: www.evaderndorfer.blogspot.com/search/label/Obst&Gemüse (Zugriff: 20.04.2020).
- Derndorfer E: www.evaderndorfer.blogspot.com/2017/08/was-macht-man-mit-colakraut.html (Zugriff: 20.05.2020).
- Fischer M: Weichsel Sauerkirsche. *Mandelbaums kleine Gourmandisen* Nr. 18 (2018).
- Wittmann B: Zustand der Streuobstbestände und deren Erhaltung als wichtige Kulturlandschaftselemente im Biosphärenpark Wienerwald. Masterarbeit (2013).
- N.N: Sauerkirsche. de.wikipedia.org/wiki/Sauerkirsche Zugriff: 20.04.2020).
- N.N: Mirabelle. de.wikipedia.org/wiki/Mirabelle (Zugriff: 20.04.2020).
- N.N: Schloss Mirabell. www.stadt-salzburg.at/internet/bildung_kultur/altstadt_und_tourismus/schloss_mirabell_areal.htm (Zugriff: 20.05.2020).