

# VEDECKÉ ZDROJE

## VZHLAD VAŠEJ POKOŽKY

### ELASTICITA A PEVNOSŤ POKOŽKY

- Le Clerc et al. (2013). A Genome-Wide Association Study in Caucasian Women Points Out a Putative Role of the STXBPSL Gene in Facial Photoaging. *J Invest Dermatol.* 133(4):929-935
- Naval et al. (2014). Genetic polymorphisms and skin aging: the identification of population genotypic groups holds potential for personalized treatments. *Clin Cosmet Invest Dermatol.* 7:207-214
- Vierkötter et al. (2015). MMP-1 and -3 Promoter Variants Are Indicative of a Common Susceptibility for Skin and Lung Aging: Results from a Cohort of Elderly Woman (SALIA). *J Invest Dermatol.* 135(5): 1268-1274

### HYDRATÁCIA POKOŽKY

- Naval et al. (2014). Genetic polymorphisms and skin aging: the identification of population genotypic groups holds potential for personalized treatments. *Clin Cosmet Invest Dermatol.* 7:207-214

### CELULITÍDA

- Emanuele et al. (2010). A multilocus candidate approach identifies ACE and HIF1A as susceptibility genes for cellulite. *J EADV* 24: 930-935

### STRIE

- Tung et al. (2013). Genome-wide association analysis implicates elastic microfibrils in the development of nonsyndromic striae distensae. *J Invest Dermatol.* 133(11):2628-2631

### KRČOVÉ ŽILY

- Laurikka et al. (2002). Risk Indicators for Varicose Veins in Forty- to Sixty-year-olds in the Tampere Varicose Vein Study. *World Journal of Surgery.* 26: 648-65
- Seidel et al. (2017). Associations between symptoms and varicose veins and great saphenous vein reflux seen on Doppler ultrasonography. *Journal Vascular Brasileiro.* 16(1): 4-10
- Shadrina et al. (2016). Polymorphisms in the MTHFR and MTR genes and the risk of varicose veins in ethnical Russians. *Biomarkers.* 21(7): 619-624

# STARNUTIE VAŠEJ POKOŽKY

## OCHRANA PRED GLYKÁCIU

- Gkogkolou and Böhm (2012). Advanced glycation end products: Key players in skin aging? *Dermato-Endocrinol* 4(3): 259-270
- Leslie et al. (2003). Level of an advanced glycated end product is genetically determined: a study of normal twins. *Diabetes* 52(9): 2441-2444
- Peculis et al. (2013). Identification of glyoxalase 1 polymorphisms associated with enzyme activity. *Gene* 515(1): 140-143

## CITLIVOSŤ NA ZÁPÁL

- Jianf et al. (2010). Interleukin-6 receptor gene polymorphism modulates interleukin-6 levels and the metabolic syndrome: GBCS-CVD. *Obesity (Silver Spring)* 18(10): 1969-1974
- Kardys et al. (2006). C-reactive protein gene haplotypes and risk of coronary heart disease: the Rotterdam Study. *Eur Heart J* 27(11): 1331-1337
- Mori and Beilin. (2004). Omega-3 Fatty Acids and Inflammation. *Curr Atheroscler Rep.* 6(6): 461-467
- Pai et al. (2008). C-Reactive Protein (CRP) Gene Polymorphisms, CRP Levels, and Risk of Incident Coronary Heart Disease in Two Nested Case-Control Studies. *PLoS One* 3(1): e1395
- Scheller et al. (2011). The pro- and anti-inflammatory properties of the cytokine interleukin-6. *Biochim Biophys Acta* 1813(5): 878-888
- Simopoulos. (2002). Omega-3 Fatty Acids in Inflammation and Autoimmune Diseases. *J Am Coll Nutr* 21(6): 495-505
- Vargas et al. (2013). Influence of the 48867A>C (Asp358Ala) IL6R polymorphism on response to a lifestyle modification intervention in individuals with metabolic syndrome. *Genet Mol Res* 2(3): 3983-3991
- Walston et al. (2010). Inflammation and stress-related candidate genes, plasma interleukin-6 levels, and longevity in older adults. *Exp Gerontol* 44(5): 350-355
- Wypasek et al. (2015). Association of the C-Reactive Protein Gene (CRP) rs1205 C>T Polymorphism with Aortic Valve Calcification in Patients with Aortic Stenosis. *Int J Mol Sci* 16(10): 23745-23759

## ANTIOXIDAČNÁ SCHOPNOSŤ POKOŽKY

- Fischer et al. (2011). Association between genetic variants in the Coenzyme Q10 metabolism and Coenzyme Q10 status in humans. *BMC Res Notes.* 4: 245
- Naval et al. (2014). Genetic polymorphisms and skin aging: the identification of population genotypic groups holds potential for personalized treatments. *Clin Cosmet Investig Dermatol.* 7:207-214

## BIOLOGICKÉ STARNUTIE

- Codd et al. (2010). Common variants near TERC are associated with mean telomere length. *Nat Genet* 42(3): 197-199
- Mangino et al. (2012). Genome-wide meta-analysis points to CTC1 and ZNF676 as genes regulating telomere homeostasis in humans. *Hum Mol Genet* 21(24): 5385-5394
- Soerensen et al. (2012). Genetic variation in TERT and TERC and human leukocyte telomere length and longevity: a cross-sectional and longitudinal analysis. *Aging Cell* 11(2): 223-227
- Shen et al. (2011). Common variants near TERC are associated with leukocyte telomere length in the Chinese Han population. *Eur J Hum Genet* 19(6): 721-723

# VYŽIVTE SVOJU POKOŽKU

## B VITAMÍNY

- Crider et al. (2011). MTHFR 677C->T genotype is associated with folate and homocysteine concentrations in a large, population-based, double-blind trial of folic acid supplementation. *Am J Clin Nutr.* 93(6):1365-72.
- de Bree et al. (2003). Effect of the methylenetetrahydrofolate reductase 677C->T mutation on the relations among folate intake and plasma folate and homocysteine concentrations in a general population sample. *Am J Clin Nutr* 77(3): 687-693
- Guinotte et al. (2003). Methylenetetrahydrofolate Reductase 677C T Variant Modulates Folate Status Response to Controlled Folate Intakes in Young Women. *J Nutr.* 133 :1272-1280.
- Hustad et al. (2007). The Methylenetetrahydrofolate Reductase 677CrT Polymorphism as a Modulator of a B Vitamin Network with Major Effects on Homocysteine Metabolism. *Am J Hum Genet.* 80:846-855
- McNulty et al. (2006). Riboflavin Lowers Homocysteine in Individuals Homozygous for the MTHFR 677C T Polymorphism. *Circulation.* 113: 74-80
- Namazi et al. (2011). Homocysteine may accelerate skin aging: A new chapter in the biology of skin senescence? *Journal of the American Academy of Dermatology.* 65(6): 74-80
- Powers (2003). Riboflavin (vitamin B-2) and health. *The American journal of clinical nutrition.* 77(6): 1352-1360
- Qin et al. (2012). Effect of folic acid intervention on the change of serum folate level in hypertensive Chinese adults: do methylenetetrahydrofolate reductase and methionine synthase gene polymorphisms affect therapeutic responses? *Pharmacogenet Genomics.* 22(6):421-428
- Reilly et al. (2014). MTHFR 677TT genotype and disease risk: is there a modulating role for B-vitamins? *Proceedings of the Nutrition Society.* 73(1): 47-56
- Solis et al. (2008) Folate Intake at RDA Levels Is Inadequate for Mexican American Men with the Methylenetetrahydrofolate Reductase 677TT Genotype. *J Nutr.* 138 :67-72
- Tanaka et al. (2009). Genome-wide association study of vitamin B6, vitamin B12, folate, and homocysteine blood concentrations. *Am J Hum Genet* 84(4): 477-482
- Thuesen et al. (2010). Lifestyle and genetic determinants of folate and vitamin B12 levels in a general adult population. *Br J Nutr* 103(8): 1195-1204
- Ulvik et al. (2007). Functional inference of the methylenetetrahydrofolate reductase 677C > T and 1298A > C polymorphisms from a large-scale epidemiological study. *Hum Genet.* 121(1): 57-64
- Wang et al. (2015). Predicting Hyperhomocysteinemia by Methylenetetrahydrofolate Reductase C677T Polymorphism in Chinese Patients With Hypertension. *Clin Appl Thromb Hemost.* 21(7):661-666
- Yazdanpanah et al. (2008). Low dietary riboflavin but not folate predicts increased fracture risk in postmenopausal women homozygous for the MTHFR 677 T allele. *J Bone Miner Res* 23(1):86-94

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## VITAMÍN C

- Timpson et al. (2010). Genetic variation at the SLC23A1 locus is associated with circulating concentrations of L-ascorbic acid (vitamin C): evidence from 5 independent studies with >15,000 participants. *Am J Clin Nutr.* 92(2):375-382

---

## VITAMÍN D

- Cheung et al. (2013). Genetic variant in vitamin D binding protein is associated with serum 25-hydroxyvitamin D and vitamin D insufficiency in southern Chinese. *J Hum Genet* 58(11): 749-751
- Heimbeck et al. (2013). Low vitamin D serum level is inversely associated with eczema in children and adolescents in Germany. *Allergy.* 68(7):906-910
- Robien et al. (2013). Genetic and environmental predictors of serum 25-hydroxyvitamin D concentrations among middle-aged and elderly Chinese in Singapore. *Br J Nutr* 109(3): 493-502
- Wang et al. (2010). Common genetic determinants of vitamin D insufficiency: a genome-wide association study. *Lancet* 376(9736): 180-188
- Zhang et al. (2012). The GC, CYP2R1 and DHCR7 genes are associated with vitamin D levels in northeastern Han Chinese children. *Swiss Med Wkly* 142: w13636

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## VITAMÍN E

- Ferrucci et al. (2009). Common variation in the beta-carotene 15,15'-monoxygenase 1 gene affects circulating levels of carotenoids: a genome-wide association study. *Am J Hum Genet.* 84(2): 123-133
- Major et al. (2011). Genome-wide association study identifies common variants associated with circulating vitamin E levels. *Hum Mol Genet* 20(19): 3876-3883
- Major et al. (2012). Genome-wide association study identifies three common variants associated with serologic response to vitamin E supplementation in men. *J Nutr* 142(5): 866-871

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## OMEGA-3 METABOLIZMUS

- Ferguson J et al. (2010). NOS3 gene polymorphisms are associated with risk markers of cardiovascular disease, and interact with omega-3 polyunsaturated fatty acids. *Atherosclerosis.* 211:539-544.
- Harsløf et al. (2013). FADS genotype and diet are important determinants of DHA status: a cross-sectional study in Danish infants. *Am J Clin Nutr* 97(6): 1403-10
- Lemaitre et al. (2011). Genetic loci associated with plasma phospholipid n-3 fatty acids: a meta-analysis of genome-wide association studies from the CHARGE Consortium. *PLoS Genet* 7(7): e1002193

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## SELÉN

- Méplán et al. (2007). Genetic polymorphisms in the human selenoprotein P gene determine the response of selenoprotein markers to selenium supplementation in a gender-specific manner (the SELGEN study). *FASEB J* 21(12): 3063-3074
  - Xia et al. (2010). Optimization of selenoprotein P and other plasma selenium biomarkers for the assessment of the selenium nutritional requirement: a placebo-controlled, double-blind study of selenomethionine supplementation in selenium-deficient Chinese subjects. *Am J Clin Nutr* 92(3): 525-531
  - Xiong et al. (2010). Association study between polymorphisms in selenoprotein genes and susceptibility to Kashin-Beck disease. *Osteoarthritis Cartilage* 18(6): 817-824
  - Evans et al. (2013). Genome-wide association study identifies loci affecting blood copper, selenium and zinc. *Hum Mol Genet.* 22(19): 3998-3400
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