

Martha Stampfer
Selected Publications
December 6, 2019

Lee JK, Bloom J, Zubeldia-Plazaola A, Garbe JC, Stampfer MR, LaBarge MA. Different culture media modulate growth, heterogeneity, and senescence in human mammary epithelial cell cultures. *PLoS One*. 2018;13(10):e0204645. doi: 10.1371/journal.pone.0204645. eCollection 2018. PMID: 30273377; PMCID: PMC6166958

Vrba L, Garbe JC, Stampfer MR, Futscher BW. A lincRNA connected to cell mortality and epigenetically-silenced in most common human cancers. *Epigenetics* 10:1074-83, 2015. PMID: 26646903; PMCID: PMC4844203

Garbe, JC, Vrba, L, Sputova, K, Fuchs, L, Novak, P, Brothman, AR, Jackson, M, Chin, K, LaBarge, MA, Watts, G, Futscher, BW, Stampfer, MR. Immortalization of Normal Human Mammary Epithelial Cells in Two Steps by Direct Targeting of Senescence Barriers Does Not Require Gross Genomic Alterations. *Cell Cycle* 13:3423-35, 2014. PMID: 25485586; PMCID: PMC4613853

Lee JK, Garbe JC, Vrba L, Miyano M, Futscher BW, Stampfer, MR, LaBarge, MA. Age and the means of bypassing stasis influence the intrinsic subtype of immortalized human mammary epithelial cells. *Frontiers Cell Develop Biol* 3:13, 2015. PMCID: PMC4356162

Garbe JC, Bhattacharya S, Merchant B, Bassett E, Swisshelm K, Feiler HS, Wyrobek AJ, Stampfer MR, Molecular distinctions between the stasis and telomere attrition senescence barriers demonstrated by long-term culture of normal human mammary epithelial cells. *Cancer Res* 69:7557-68, 2009. PMID: 19773443; PMCID: PMC2782785

Garbe, J, Holst, CR, Bassett, E, Tlsty, T, Stampfer, MR, Inactivation of p53 function in cultured human mammary epithelial cells turns the telomere-length dependent senescence barrier from agonescence into crisis, *Cell Cycle* 6: 1927-1936, 2007. PMID: 17671422

Jokela, TA, Engelsen, AST, Rybicka, A, Pelissier Vatter, FA, Garbe, J, Akslen, L, Stampfer, MR, Lorens, J, LaBarge, MA. Microenvironment-induced non-sporadic expression of the AXL and cKIT receptors are related to epithelial plasticity and drug resistance. *Frontiers in Cell and Developmental Biology* 6:41, 2018. PMID: 29719832; PMCID: PMC5913284

Pelissier-Vatter, FAP, Schapiro, D, Chang, H, Borowsky, AD, Lee, JK, Parvin, B, Stampfer, MR, LaBarge, MA, Bodenmiller, B, Lorens, JB. High-Dimensional Phenotyping Identifies AgeEmergent Cells in Human Mammary Epithelia. *Cell Reports*:23 1205–1219, 2018. PMID: 29694896; PMCID: PMC5946804

Kim, J, Han, S, Le, A, Miyano, M, Bloom, J, Srivastava, V, Stampfer, MR, Gartner, ZJ, LaBarge, MA, Sohn, LL. Characterizing cellular mechanical phenotypes with mechanonode-pore sensing. *Microsystems & Nanoengineering* 4:17091, 2018. PMID: 29780657; PMCID: PMC5958920

Park JL, Lee YS, Song MJ, Hong SH, Ahn JH, Seo EH, Shin SP, Lee SJ, Johnson BH, Stampfer MR, Kim HP, Kim SY, Lee YS. Epigenetic regulation of RNA polymerase III transcription in early breast tumorigenesis. *Oncogene* 36:6793-6804, 2017. PMID: 28846112

Miyano M, Sayaman RW, Stoiber MH, Lin CH, Stampfer MR, Brown JB, LaBarge MA. Age-related gene expression in luminal epithelial cells is driven by a microenvironment made from myoepithelial cells. *Aging* 9:2026-2051, 2017. PMID: 29016359; PMCID: PMC5680554

Hines WC, Kuhn I, Thi K, Chu B, Stanford-Moore G, Sampayo R, Garbe JC, Stampfer M, Borowsky AD, Bissell MJ. 184AA3: a xenograft model of ER+ breast adenocarcinoma. *Breast Can Res Treat* 155:37-52, 2016. PMID: 26661596; PMCID: PMC4706787

Severson PL, Vrba L, Stampfer MR, Futscher BW. Exome-wide mutation profile in benzo[a]pyrene-derived post-stasis and immortal human mammary epithelial cells. *Mutation Res. Genetic toxicology and environmental mutagenesis* 775-776:48-54, 2014. PMID: 25435355; PMCID: PMC4250937

Pelissier, FA, Garbe, JC, Ananthanarayanan, B, Miyano, M, Lin, C, Jokela, T, Kumar, S, Stampfer, MR, Lorens, JB, LaBarge, MA. Age-related dysfunction in mechano-transduction impairs differentiation of human mammary epithelial progenitors. *Cell Reports* 7:1926-39, 2014. PMID: 24910432; PMCID: PMC4122253

Overhoff, MG, Garbe, JC, Koh, J, Stampfer, MR, Beach, DH, Bishop, CL. Cellular senescence mediated by p16INK4A-coupled miRNA pathways. *Nuc Acid Res* 42:1606-18, 2014. PMID: 24217920; PMCID: PMC3919591

Stampfer MR , LaBarge MA, Garbe JC. An Integrated Human Mammary Epithelial Cell Culture System for Studying Carcinogenesis and Aging , in: *Cell and Molecular Biology of Breast Cancer*, ed. H. Schatten, Springer, NY pp323-361, 2013. DOI: 10.1007/978-1-62703-634-4_15

LaBarge MA, Garbe JC, Stampfer MR. Processing of human reduction mammoplasty and mastectomy tissues for cell culture. *J Visualized Experimentation* 71: e50011, 2013. PMID: 23328888; PMCID: PMC3582686

Vrba L, Muñoz-Rodríguez JL, Stampfer MR, Futscher BW. miRNA Gene Promoters Are Frequent Targets of Aberrant DNA Methylation in Human Breast Cancer. *PLoS One* 7(12): e52299, 2013. PMID: 23342147; PMCID: PMC3547033

Junk DJ, Cipriano R, Stampfer M, Jackson MW. Constitutive CCND1/CDK2 activity substitutes for p53 loss, or MYC or oncogenic RAS expression in the transformation of human mammary epithelial cells. *PLoS One* 8(2): e53776, 2013. PMID: 23390492; PMCID: PMC3563539

Garbe JC, Pepin F, Pelissier F, Sputova K, Fridriksdottir A, Guo DE, Villadsen R, Park M, Petersen OW, Barowsky A, Stampfer MR, LaBarge MA. Accumulation of multipotent progenitors with a basal differentiation bias during aging of human mammary epithelia. *Cancer Res* 72:3687-701, 2012. PMID: 22552289; PMCID: PMC3399034

Novak P, Stampfer MR, Munoz-Rodriguez JL, Garbe JC, Ehrich M, Futscher BW, Jensen TJ. Cell-Type Specific DNA Methylation Patterns Define Human Breast Cellular Identity. *PLoS One* 8(2): e53776, 2012. PMID: 23284978; PMCID: PMC3527522

Chanson L, Brownfield D, Garbe JC, Kuhn I, Stampfer MR, Bissell MJ, LaBarge MA. Selforganization is a dynamic and lineage-intrinsic property of mammary epithelial cells. *Proc Nat Acad Sci USA* 108:3264-9, 2011. PMID: 21300877; PMCID: PMC3044373

Cipriano R, Kan CE, Graham J, Danielpour D, Stampfer M, Jackson MW. TGF- signaling engages an ATM-CHK2-p53-independent RAS-induced senescence and prevents malignant transformation in human mammary epithelial cells. *Proc Nat Acad Sci USA* 108:8668-73, 2011. PMID: 21555587; PMCID: PMC3102347

Vrba L, Garbe JC, Stampfer MR, Futscher BW. Epigenetic regulation of normal human mammary cell type specific miRNAs. *Genom Res* 21:2026-2037, 2011. PMID: 21873453
PMCID:
PMC3227093

Vrba, L, Jensen, TJ, Garbe, JC, Heimark, RL, Cress, AE, Dickinson, S, Stampfer, MR, Futscher, BW. DNA Methylation Control of Normal Cell-Type Specific Expression of *miR-200c*, *PLoS One*

5(1): e8697, 2010. PMID: 20084174; PMCID: PMC2805718

Novak, P, Jensen, TJ, Garbe, JC, Stampfer, MR, Futscher, BW, Step-wise DNA methylation changes are linked to escape from defined proliferation barriers and mammary epithelial cell immortalization, *Cancer Res* 69:5251-58, 2009. PMID: 19509227; PMCID: PMC2697259

LaBarge MA, Nelson CM, Villadsen R, Fridrikdottir A, Ruth JR, Stampfer MM, Petersen OW, and Bissell MJ. Human mammary progenitor cell fate decisions are products of interactions with combinatorial microenvironments. *Integr Biol* 1:70-79, 2009. PMID: 20023793; PMCID: PMC2933184

Li Y, Pan J, Li J-L, Lee J-H, Tunkey C, Saraf K, Garbe J, Jelinsky S, Stampfer MR, Haney, SA, Transcriptional changes associated with breast cancer occur as normal human mammary epithelial cells overcome senescence barriers and become immortalized, *Mol Can* 6: 7-24 2007. PMID: 17233903; PMCID: PMC1784108

Chin, K, Ortiz de Solorzano, C, Knowles, D, Jones, A, Chou, W, Rodriguez, E, Kuo, W-L, Ljung, B-M,

Chew, K, Krig, S, Garbe, J, Stampfer, M, Yaswen, P, Gray, JW, Lockett, SJ. *In Situ* Analysis of Genome Instability in Breast Cancer. *Nature Gen* 36:984-988 2004. PMID: 15300252

Stampfer, M, Garbe, J, Nijjar, T, Wigington, D, Swisshelm, K, Yaswen, P, Loss of p53 function accelerates acquisition of telomerase activity in indefinite lifespan human mammary epithelial cell lines, *Oncogene* 22: 5238-5251, 2003. PMID: 12917625

Olsen CL, Gardie, B, Yaswen, P, Stampfer, MR, Raf-1-induced growth arrest in human mammary epithelial cells is p16-independent and is overcome in immortal cells during conversion, *Oncogene* 21: 6328-6339 2002. PMID: 12214273

Nonet, GH, Stampfer, M, Chin, K, Gray, JW, Collins, CC, Yaswen, P. The ZNF217 Gene amplified in breast cancers promotes immortalization of human mammary epithelial cells. *Cancer Res.* 61:1250-1254, 2001. PMID: 11245413

Romanov, SR, Kozakiewicz, K, Holst, CR, Stampfer, MR, Haupt, LM, Tlsty, TD, Normal human mammary epithelial cells spontaneously escape senescence and acquire genomic changes, *Nature* 409: 633-637, 2001. PMID: 11214324

Stampfer, MR, Garbe, J, Levine, G, Lichtsteiner, S, Vasserot, AP, Yaswen, P, hTERT expression can induce resistance to TGF β growth inhibition in p16INK4A(-) human mammary epithelial cells, *Proc Natl Acad Sci (USA)* 98: 4498-4503, 2001. PMID: 11287649; PMCID: PMC31863

Garbe, J, Wong, M, Wigington, D, Yaswen, P, Stampfer, MR. Viral oncogenes accelerate conversion to immortality of cultured conditionally immortal human mammary epithelial cells. *Oncogene* 18:2169-2180, 1999. PMID: 10327063

Brenner, AJ, Stampfer, MR, Aldaz, M, Increased p16 expression with first senescence arrest in human mammary epithelial cells and extended growth capacity with inactivation, *Oncogene* 17: 199-205, 1998. PMID: 9674704

Stampfer, MR, Bodnar, A, Garbe, J, Wong, M, Pan, A, Villeponteau, B, Yaswen, P, Gradual phenotypic conversion associated with immortalization of cultured human mammary epithelial cells, *Mol Biol Cell* 8: 2391-2405, 1997. PMID: 9398663; PMCID: PMC25715

Stampfer, MR, Yaswen, P, Alhadeff, M, Hosoda, J, TGF β induction of extracellular matrix associated proteins in normal and transformed human mammary epithelial cells in culture is independent of growth effects, *J Cell Physiology* 155: 210-221, 1993. PMID: 8385676