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## Aktuelle Publikationen

Fronza M, Lamy E, Günther S, Heinzmann B, Laufer S, Merfort I: Abietane diterpenes induce cytotoxic effects in human pancreatic cancer cell line MIA PaCa-2 through different modes of action, *Phytochem*. 2012 Mar 19. [Epub ahead of print]

Millet A\*, Lamy E\*, Jonas D, Stintzing F, Mersch-Sundermann V, Merfort I: Fermentation Enhances the Biological Activity of *Allium cepa* Bulb Extracts, *J Agric Food Chem*. 2012 Mar 7;60(9):2148-56. Epub 2012 Feb 22. \*These authors contributed equally.

Lamy E, Schmitz S, Krumbein A, Mersch-Sundermann V: Isothiocyanate-containing mustard protects human cells against genotoxins in vitro and in vivo, *Mutat Res*. 2011 Dec.; 24. 726 (2); 146-50

Lamy E, Scholtes C, Mersch-Sundermann V: Pharmacokinetic and pharmacodynamic of ITC, Review, *Drug Metab Rev*. 2011 Aug.; 43 (3): 387 - 407.

Gründemann C, Papagiannopoulos M, Lamy E, Mersch-Sundermann V, Huber R: Immunomodulatory properties of a lemon-quince preparation (Gencydo®) as an indicator of anti-allergic potency, *Phytomedicine*. 2011 Jun 15; 18 (8-9): 760 - 8

Lamy E, Mersch-Sundermann V: Sulphur-containing compounds in food plants: kinetics, biological activity, and mechanisms of action, *Environ Mol Mutagen*. 2009 Apr;50(3):163.

Lamy E, Mersch-Sundermann V: MTBITC mediates cell cycle arrest and apoptosis induction in human HepG2 cells despite its rapid degradation kinetics in the in vitro model, *Environ Mol Mutagen*. 2009 Apr; 50(3):190-200

Lamy E, Crößmann C, Saeed A, Schreiner P, Kotke M, Mersch-Sundermann V: Three structurally-homologous isothiocyanates exert "Janus" characteristics in human HepG2 cells, *Environ Mol Mutagen*. 2009 Apr; 50(3):164-70.

Wu X-J, Lamy E, Mersch-Sundermann V: Apoptosis induction in human lung adenocarcinoma cells by oil-soluble allyl sulfides: triggers, pathways and modulators, *Environ Mol Mutagen*. 2009 Apr; 50(3):266-75

Lamy E, Schröder J, Paulus S, Brenk, P, Stahl T, Mersch-Sundermann V: Studies on the genotoxic and antigenotoxic properties of *Eruca sativa* (rocket plant), erucin and erysolin towards benzo(a)pyrene in human hepatoma (HepG2) cells and mechanisms of action *Food and Chemical Toxicology* 2008, 46 2415-2421.

Lamy E, Mersch-Sundermann V. Apoptosis induction and cell cycle arrest of human HepG2 cells by 4-methylthiobutyl isothiocyanate: telomerase suppression as a new component in the signaling pathway? *Naunyn-Schmiedeberg's Archives of Pharmacology* 2008 Mar; Vol. 377, Suppl. 1, p.77

Lamy E, Völkel Y, Roos PH, Kassie F, Mersch-Sundermann V. Ethanol enhanced the genotoxicity of acrylamide in human, metabolically competent HepG2 cells by CYP2E1 induction and glutathione depletion. *Int J Hyg Environ Health*. 2008 Mar;211(1-2):74-81.

Stahl T, Zeuner C-R, Krawinkel M, Lamy E, Mersch-Sundermann V. Identifizierung und Quantifizierung chemopräventiver Isothiocyanate in Brassicaceae. *Lebensmittelchemie* 2008 62, 9-10.

Mersch-Sundermann V, Bahorun T, Stahl T, Neergehen VS, Soobrattee MA, Wohlfarth R, Sobel R, Brunn HE, Schmeiser T, Lamy E, Aruoma OI. Assessment of the DNA damaging potency and chemopreventive effects towards BaP-induced genotoxicity in human derived cells by *Monimiastrum globosum*, an endemic Mauritian plant. *Toxicol In Vitro*. 2006 Dec; 20(8):1427-34.

Aruoma OI, Colognato R, Fontana I, Gartlon J, Migliore L, Koike K, Coecke S, Lamy E, Mersch-Sundermann V, Laurenza I, Benzi L, Yoshino F, Kobayashi K, Lee MC. Molecular effects of fermented papaya preparation on oxidative damage, MAP Kinase activation and modulation of the benzo[a]pyrene mediated genotoxicity. *Biofactors*. 2006; 26(2):147-59.

Lamy E, Kassie F, Gminski R, Schmeiser HH, Mersch-Sundermann V. 3-Nitrobenzanthrone (3-NBA) induced micronucleus formation and DNA damage in human hepatoma (HepG2) cells. *Toxicol Lett.* 2004 Jan 15; 146 (2):103-9.

## Kongressbeiträge

Lamy E, Hertrampf A, Herz C, Bakare A, Wagner M, Huber R, Drognitz O, zur Hausen A, Giesemann T, Mersch-Sundermann V. Isothiocyanate, natürliche Pflanzenstoffe aus Brassica sp., wirken zytostatisch und zytotoxisch auf humane HCC-Zellen, unabhängig vom p53-Status, *Gesunde Umwelt – Gesunde Bevölkerung (GHUP)*, München (2011)

Lamy E, Garcia-Käufer M, Prinzhorn J, Schmitz S, Mersch-Sundermann V. Humane Interventionsstudien zur Analyse des chemopräventiven Potenzials von Isothiocyanaten in Senf, *Gesunde Umwelt – Gesunde Bevölkerung (GHUP)*, München (2011)

Lamy E, Wagner M, Kleinhans C, Mersch-Sundermann V, Erucin-mediated growth suppression of human HCC cells is preceded by hTERT degradation independent of tumor suppressor p53, *The Role of Telomeres and Telomerase in Cancer Research, The Role of Telomeres and Telomerase in Cancer Research (AACR)*, Fort Worth, Texas (2010)

Lamy E, Wagner M, Kleinhans C, Mersch-Sundermann V, Activation of the tumor suppressor p53 is not essential for growth inhibition of human hepatocellular carcinoma cells by isothiocyanates, *49th Annual Meeting and Tox Expo*, Salt Lake City, Utah (2010)

Mersch-Sundermann V, Garcia-Käufer M, Prinzhorn J, Schmitz S, Lamy E: A human intervention trial for identification of the chemopreventive properties of isothiocyanates (ITCS) in mustard, presented at Annual Research Conference on Food - Nutrition - Physical Activity and Cancer, Washington D.C. and 20th Asia Pacific Cancer Conference, Ibaraki (2009)

Lamy E, Weimann H, Wagner M, Mersch-Sundermann V: Human cell models for the identification of apoptosis and cell cycle modulation by isothiocyanates (ITC), presented at the 7th Congress of the Toxicology in Developing Countries, Sun City/South Africa (2009)

Lamy E, Schmitz S and Mersch-Sundermann V: Mustard intake reduces benzo(a)pyrene diol epoxide- and hydrogen peroxide- induced DNA damage in human blood, presented at the 50th. Congress of the DGPT, Mainz, Germany (2009)

Mersch-Sundermann V, Lamy E: Modulation of cell cycle regulation and apoptosis caused by sulphur containing food ingredients: molecular mechanisms of chemoprevention caused by isothiocyanates and allyl sulfides, presented at the PAEMS meeting, Cape Town, South Africa (2008)

Lamy E, Crößmann C, Saeed A, Mersch-Sundermann V: Genotoxic and antigenotoxic properties of three structure related isothiocyanates in human HepG2 hepatoma cells, presented at the PAEMS meeting, Cape Town, South Africa (2008)

Lamy E, Mersch-Sundermann V: Telomerase and its catalytic subunit hTERT are suppressed during the p53-dependent induction of apoptosis mediated by 4-methylthiobutyl isothiocyanate (MTBITC) in human hepatoma cells *Toxicology letters*, (180) 1, 2008, S38 presented at the EUROTOX conference, Rhodos, Greece (2008)

Lamy E, Oey D, Eissmann F, Mersch-Sundermann V: Benzyl isothiocyanate (BITC) and 4-methylthiobutyl isothiocyanate (MTBITC) induce apoptosis in ascites-derived, human ovarian carcinoma cells *Toxicology Letters*, (180)1, 2008, S37, presented at the EUROTOX conference, Rhodos, Greece (2008)

Lamy E, Mersch-Sundermann V: 4-Methylthiobutyl isothiocyanat induzierte Apoptose und Zellzyklusarrest in humanen HepG2-Zellen – ist Telomeraseinhibition ein neuer Baustein in dieser Signalkaskade? presented at the 49th. Congress of the DGPT, Mainz, Germany (2008)

Lamy E, Mersch-Sundermann V: The isothiocyanate erucin induces apoptosis by modulation of the mitochondrial membrane potential and alteration of the p53-status of human hepatoma (HepG2) cells, presented at the 48th. Congress of the DGPT, Mainz, Germany (2007)

Mersch-Sundermann V, Lamy E, Oey D, Eißmann F: Induction of apoptosis by two naturally occurring isothiocyanates in primary human ovarian carcinoma cells, presented at the 48th. Congress of the DGPT, Mainz, Germany (2007)

Lamy E and Mersch-Sundermann V: Growth inhibition of human HepG2 hepatoma cells by 4-Methylthiobutyl- isothiocyanate (MTBITC)-mediated induction of apoptosis; präsentiert auf der COST Konferenz "molecular and physiological effects of bioactive food compounds", (2006) Vienna, Austria

Lamy E, Schröder J, Völkel Y, Mersch-Sundermann V: Studies on the chemopreventive effects of Eruca Sativa (Rucola) and its Isothiocyanates in Human Cell Systems, presented at the 45th Congress of the Society of Toxicology (SOT), San Diego, USA (2006) and at the 22. Congress of the Gesellschaft für Umwelt-Mutationsforschung (GUM), Darmstadt, Germany (2006).

Lamy E, Schröder J, Völkel Y, Roos P, Mersch-Sundermann V: Enhancement of acrylamide-mediated DNA-migration by ethanol in a human hepatoma (HepG2) cell line, presented at the 22. Congress of the Gesellschaft für Umwelt-Mutationsforschung (GUM), Darmstadt, Germany (2006)

Lamy E, Schröder J, Völkel Y, Mersch-Sundermann V, Untersuchungen des chemopräventiven (antigentoxischen) Effektes von Eruca Sativa (Rucola) und seinen Isothiocyanaten in humanen Zellsystemen, presented at the 47th. Congress of the DGPT, Mainz, Germany (2006)

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Lamy E, Völkel Y, Schröder J, Roos, P, Mersch-Sundermann V: Beer and potato chips: Ethanol enhances the genotoxicity of acrylamide in human, metabolically competent HepG2 cells by CYP2E1 induction, presented at the 13. Congress of the Gesellschaft für Hygiene und Umweltmedizin (GHU), 9. Congress of the International Society of Environmental Medicine (ISEM), LGL Congress of the Öffentliche Gesundheitsdienst (ÖGD), Erlangen, Germany (2005)