

## Publication lists of Walee Chamulitrat Ph.D

### A. Original Research Papers:

1. Suryanarayana, D., Chamulitrat, W., Kevan, L.: Electron spin resonance characterization of dynamical properties of urea-n-alkane adducts using peroxy spin probes. *J. Phys. Chem.* **86**: 4822-4825, 1982.
2. Chamulitrat, W., Kevan, L.: Electron spin resonance characterization of the dynamical properties of 2-methyl-octadecane urea adduct using peroxy spin probes. *J. Phys. Chem.* **88**: 3986-3989, 1984.
3. Chamulitrat, W., Kevan, L.: Electron spin resonance analysis of motional effects of superoxide anion adsorbed in calcium, strontium and barium Y-zeolites. *J. Phys. Chem.* **89**: 4989-4993, 1985.
4. Schlick, S., Chamulitrat, W., Kevan, L.: Electron spin resonance study of peroxy labels in a copolymer of tetrafluoroethylene hexafluoropropylene. *J. Phys. Chem.* **89**: 4278-4282, 1985.
5. Schwartz, R. N., Clark, M. D., Chamulitrat, W., Kevan, L.: Electron spin resonance of NO<sub>2</sub> trapped in SiO<sub>2</sub> thin films. *J. Appl. Phys.* **59(9)**: 3231-3234, 1986.
6. Chamulitrat, W., Kevan, L., Schwartz, R. N., Blair, R. G., Tangonan, G. L.: Radiation damage of germanium-doped silica glasses: spectral simplification by photo- and thermal bleaching, spectral identification and microwave saturation characteristics. *J. Appl. Phys.* **59(8)**: 2933-2939, 1986.
7. Chamulitrat, W., Kevan, L.: Peroxy radical probe studies of radical motion in polytetrafluoroethylene with different crystallinities. *Radiat. Phys. Chem. Int. J. Radiat. Appl. Instrum., Part C* **28(2)**: 145-147, 1986.
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10. Chamulitrat, W., Irwin, P. L.: Homopolygalacturonan nitroxyl amides: matrix deformation induced motional perturbations of cell wall polyuronides. *Macromolecules* **22(6)**: 2685-2693, 1989.
11. Chamulitrat, W., Takahashi, N., Mason, R. P.: Peroxyl, alkoxyl, and carbon-centered radical formation from organic hydroperoxides by chloroperoxidase. *J. Biol. Chem.* **264(14)**: 7889-7899, 1989.
12. Hall, R. D., Chamulitrat, W., Takahashi, N., Chignell, C. F., Mason, R. P.: Detection of singlet (<sup>1</sup>O<sub>2</sub>) oxygen phosphorescence during chloroperoxidase-catalysed decomposition of ethyl hydroperoxide. *J. Biol. Chem.* **264(14)**: 7900-7906, 1989.
13. Hughes, M. F., Chamulitrat, W., Mason, R. P., Eling, T. E.: Epoxidation of 7,8-dihydroxy-7,8-dihydrobenzo[a]pyrene *via* a hydroperoxide-dependent mechanism catalyzed by lipoxygenases. *Carcinogenesis* **10(11)**: 2075-2080, 1989.
14. Chamulitrat, W., Mason, R. P.: Lipid peroxy radical intermediates in the peroxidation of polyunsaturated fatty acids by lipoxygenase: direct ESR investigations. *J. Biol. Chem.* **264(35)**: 20968-20973, 1989.
15. Buettner, G. R., Chamulitrat, W.: The catalytic activity of iron in synovial fluid as monitored by the ascorbate free radical. *Free Radic. Biol. Med.* **8(2)**: 55-56, 1990.
16. Chamulitrat, W., Mason, R. P.: Alkyl free radicals from the  $\beta$ -scission of fatty acid alkoxyl radicals as detected by spin trapping in a lipoxygenase system. *Arch. Biochem. Biophys.* **282(1)**: 65-69, 1990.
17. Chamulitrat, W., Hughes, M. F., Eling, T. E., Mason, R. P.: Superoxide and peroxy radical generation from the reduction of polyunsaturated fatty acid hydroperoxides by soybean lipoxygenase. *Arch. Biochem. Biophys.* **290(1)**: 153-159, 1991.

18. Chamulitrat, W., Cohen, M. S., Mason, R. P.: Free radical formation from organic hydroperoxides in isolated human polymorphonuclear neutrophils. *Free Radic. Biol. Med.* **11(5)**:439–445, 1991.
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20. Hanna, P. M., Chamulitrat, W., Mason, R. P.: When are metal ion-dependent hydroxyl and alkoxy radical adducts of DMPO artifacts?. *Arch. Biochem. Biophys.* **296(2)**: 640–644, 1992.
21. Chamulitrat, W., Iwahashi, H., Kelman, D. J., Mason, R. P.: Evidence against the 1:2:2:1 quartet DMPO spectrum as the radical adduct of the lipid alkoxy radical. *Arch. Biochem. Biophys.* **296(2)**: 645–649, 1992.
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23. Irwin, P. L., Sevilla, M. D., Chamulitrat, W., Hoffman, A. E., Klein, J.: Localized, internal and supramolecular polyuronide motions in cell wall matrices: a comparison of solid state NMR and EPR relaxation behavior. *J. Agri. Food Chem.* **40(11)**: 2045–2051, 1992.
24. Chamulitrat, W., Jordan, S. J., Mason, R. P., Saito, K., Cutler, R. G.: Nitric oxide formation during light-induced decomposition of phenyl *N-tert*-butylnitron. *J. Biol. Chem.* **268(16)**: 11520–11527, 1993.
25. LaLonde, R. T., Xie, S., Chamulitrat, W., Mason, R. P.: Oxidation and radical intermediates associated with the glutathione conjugation of mucochloric acid. *Chem. Res. Toxicol.* **7**:482–486, 1994.
26. Chamulitrat, W., Jordan, S. J., Mason, R. P.: Nitric oxide production during endotoxic shock in carbon tetrachloride treated-rats. *Mol. Pharmacol.* **46**:391–397, 1994.
27. Chamulitrat, W., Jordan, S. J., Mason, R. P., Litton, A. L., Wilson, J. G., Wood, E. R., Wolberg, G., Molina y Vedia, L.: Targets of nitric oxide in a mouse model of liver inflammation by *Corynebacterium parvum*. *Arch. Biochem. Biophys.* **316**:30–37, 1995.
28. Chamulitrat, W., Parker, C. E., Tomer, K. B., Mason, R. P.: Phenyl *N-tert*-butylnitron forms nitric oxide as a result of its Fe(III)-catalyzed hydrolysis or hydroxyl radical adduct formation. *Free Radic. Res.* **23**:1–14, 1995.
29. Chamulitrat, W., Wang, J.-F., Spitzer, J. J.: Electron paramagnetic resonance investigations of nitrosyl complex formation during endotoxin tolerance. *Life Sci.* **57**:387–395, 1995.
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31. Chamulitrat, W., Skrepnik, N. V., Spitzer, J. J.: Nitrosyl complex formation during endotoxin-induced injury in the rat small intestine. *Shock* **5**:59–65, 1996.
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33. Chamulitrat, W., Spitzer, J. J.: Nitric Oxide and liver injury in alcohol-fed rats after lipopolysaccharide administration. *Alcoholism: Clin. Exp. Res.* **20**:1065–1070, 1996.
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37. Chamulitrat, W., Carnal, J., Reed, N.M. Spitzer, J. J.: In vivo endotoxin enhances biliary ethanol-dependent free radical generation. *Am. J. Physiol.* **274**:G653–G661–196, 1998.

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54. Kuljanabhagavad T, Thongphasuk P, Chamulitrat W, Wink M: Triterpene saponins from *Chenopodium quinoa* Willd. *Phytochemistry.* **69**(9):1919–1926, 2008.
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59. Pathil A, Warth A, Chamulitrat W, Stremmel W. The synthetic bile acid-phospholipid conjugate ursodeoxycholyly lysophosphatidylethanolamide suppresses TNF $\alpha$ -induced liver injury. *J Hepatol.* **54(4)**:674–84, 2011.
60. Lenz LS, Marx J, Chamulitrat W, Kaiser I, Gröne HJ, Liebisch G, Schmitz G, Elsing C, Straub BK, Füllekrug J, Stremmel W, Herrmann T. Adipocyte-specific inactivation of Acyl-CoA synthetase fatty acid transport protein 4 (Fatp4) in mice causes adipose hypertrophy and alterations in metabolism of complex lipids under high fat diet. *J Biol Chem.* **286(41)**:35578–87, 2011.
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64. Chamulitrat W, Zhang W, Xu W, Pathil A, Setchell K, Stremmel W. Hepatoprotectant ursodeoxycholyly lysophosphatidylethanolamide increasing phosphatidylcholine levels as a potential therapy of acute liver injury. *Front Physiol.* **3**:24–34, 2012.
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72. Jiao L, Gan-Schreier H, Tuma-Kellner S, Stremmel W, Chamulitrat W. Sensitization to autoimmune hepatitis in group VIA calcium-independent phospholipase A2-null mice led to duodenal villous atrophy with apoptosis, goblet cell hyperplasia and leaked bile acids. *Biochim Biophys Acta.* **1852(8)**:1646–57, 2015.
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77. Carazo A, Hyrsova L, Dusek J, Chodounska H, Horvatova A, Berka K, Bazgier V, Gan-Schreier H, Chamulitrat W, Kudova E, Pavek P. Acetylated deoxycholic (DCA) and cholic (CA) acids are potent ligands of pregnane X (PXR) receptor. *Toxicol Lett.* **265**:86–96, 2017.
78. Utaipan T, Otto AC, Gan-Schreier H, Chunglok W, Pathil A, Stremmel W, Chamulitrat W. Ursodeoxycholy Lysophosphatidylethanolamide Protects Against CD95/Fas-Induced Fulminant Hepatitis. *Shock.* 2017 Jan 4. [Epub ahead of print]

**B. Reviews, symposium and book chapters:**

1. Schwartz, R. N., Tangonan, G. L., Blair, R. G., Chamulitrat, W., and Kevan, L.: Electron Paramagnetic Resonance and Optical Study of Radiation-Induced Defect Centers in Doped Silica Glasses. In Galeener, F. L., Griscom, M. J. and Weber, M. J. (eds.): Defects in Glasses. Materials Research Society Symposia Proceedings, Vol.61, Materials Research Society, pp. 197–204, 1986.
2. Schwartz, R. N., Clark, M. D., Chamulitrat, W., and Kevan, L.: Electron Paramagnetic Resonance Studies of Intrinsic Bonding Defects and Impurities in SiO<sub>2</sub> Thin solid Films. In Galeener, F. L., Griscom, M. J. and Weber, M. J. (eds.): Defects in Glasses. Materials Research Society Symposia Proceedings, Vol.61, Materials Research Society, pp. 359–366, 1986.
3. Chamulitrat, W., Mason, R. P., Cohen, M. S.: Free Radical Formation from Organic Hydroperoxides in Isolated Human Polymorphonuclear Neutrophils. In: Proceedings of the 5<sup>th</sup> International Congress on Oxygen Radicals: Active Oxygens, Lipid Peroxides and Antioxidants. Kyoto, 17–21 November 1991, Elsevier Science Publishers: Amsterdam, pp. 55–58, 1992.
4. Chamulitrat, W.: Applications of Electron Paramagnetic Resonance in Biology and Medicine: Lipoyxygenase-catalyzed Metabolism of Fatty Acids and Fatty Acid Hydroperoxides. In Nanthavanij, S., Wecharatana, M. (eds): Proceedings of the Second International Workshop on Advanced Science and Technology Transfer to Thailand. Bangkok, 21–23 August 1992, National Science and Technology Development Agency (NSTDA): Bangkok, pp. 314–336, 1992.
5. Irwin, P. L., Sevilla, M. D., Chamulitrat, W., and Hoffman, A. E.: Nitroxyl Amide Spin Labeling: Methyl Esterification-, Hydration- and Ca<sup>+2</sup>- Induced Motional Perturbations of Pectinic Polysaccharides in Apples. In: New Techniques and Applications of Physical Chemistry to Food Systems. Van Nostrand Reinhold: New York, Vol. II, pp. 432–458, 1993.
4. Darley-Usmar, V. M., Mason, R. P., Chamulitrat, W., Hogg, N., and Kalyanaraman, B.: Lipid Peroxidation and Cardiovascular Disease. In: Immunopharmacology of Free Radical Species. Academic Press: New York, pp. 23–37, 1995.
5. Chamulitrat, W., Huber, A., Riedel, H., Stremmel, W: Role of superoxide-generating Nox1 in neoplastic transformation of human epithelial cells. In: Proceedings of the 13<sup>th</sup> Congress of the Society for Free Radical Research International. Davos (Switzerland), 15–19 August 2006, Medimond International Proceedings: Bologna, Italy, pp. 87–90, 2006.
6. Huber, A., Thongphasuk, P., Stremmel, W, Chamulitrat, W.: Superior Antioxidant Anticancer activities of 2,3 dehydrosilybin than silybin. In: Proceedings of the 13<sup>th</sup> Congress of the Society for Free Radical Research International. Davos (Switzerland), 15–19 August 2006, Medimond International Proceedings: Bologna, Italy, pp. 167–171, 2006.
7. Stremmel W., Pathil-Warth A., Chamulitrat W., Neue Aspekte zur Pathogenese der NASH. *Gastroenterologie* **5**:101–107, 2010.
8. Sattayakhom A, Chunglok W<sup>1</sup>, Ittarat W<sup>2</sup>, Chamulitrat W Study designs to investigate Nox1 acceleration of neoplastic progression in immortalized human epithelial cells by selection of differentiation resistant cells. *Redox Biol.* 2013;**2**:140–147.