

7 Literaturverzeichnis

Allen, J.E., (1993) Drug-induced photosensitivity, Clin. Pharm. 12 (8), 580-587

Aloisi, G.G., BarbaFINA, A., Canton, M., Acqua, F.D., Elisei, F., Facciolo, L., Latterini, L., Viola, G., (2004) Photophysical and Photobiological Behavior of Antimalarial Drugs in Aqueous Solution, Photochem. Photobiol. 79 (3), 248-258

Anon, (1998) Statement on the scientific validity of the 3T3 NRU PT test (an in vitro test for phototoxicity), ATLA 26, 7-8

Balchum, O.J., Doiron, D.R., Huth, G.C., (1984) Photoradiation therapy for endobronchial lung cancers employing the photodynamic action of hematoporphyrin derivative, Lasers Surg Med. 4, 13-30

Berlett, BS, Stadtman, ER, (1997) Protein oxidation in aging, disease and oxidative stress, J. Biol. Chem. 272, 20313-20316

Bilski, P., Martinez, L.J., Koker, E.B., Chignell, C.F., (1996) Photosensitization by Norfloxacin is a Function of pH, Photochem. Photobiol. 64 (3), 496-500

Boiteux, S., Gajewski, E., Laval, J., Dizdaroglu, M., (1992) Substrate Specificity of the Escherichia Coli Fpg Protein (Formamidopyrimidine-DNA Glycosylase): Excision of Purine Lesions in DNA Produced by Ionizing Radiation or Photosensitization. Biochemistry 31, 106-110

Bosch, E. Kochi, J.K., (1995) Catalytic oxidation of chlorpromazine and related phenothiazines. Cation radicals as the reactive intermediates in sulfoxide formation, J. Chem. Soc. Perkin Trans. 1 1057-1063

Bose, B., Agarwal, S., Chatterjee, S.N., (1989) UV-A induced lipid peroxidation in liposomal membrane, Rad Environ Biophys 28, 59-65

Bowers, A.G., (1999) Phytodermatitis. American Journal of Contact Dermatitis, 10(2), 89-93

Brawn, K., Fridovich, I., (1981) DNA strand scission by enzymically generated oxygen radicals, Arch. Biochem. Biophys. 206 (2), 414-419

Brinkman, U.A.Th., Welling, P.L.M., De Vries, G., Scholten, A.H.M.T., Frei, R.W., (1981) Liquid chromatography of demoxepam and phenothiazines using a post-column photochemical reactor and fluorescence detection, J. Chromatogr. 217, 463-471

Bühler, E.V., (1965) Delayed contact hypersensitivity in guinea pig, Arch. Dermatol. 91, 171

Buxton, G.V., Greestock, C.L., Helman, W.P., Ross, A.B., (1988) Critical review of rate constants for reaction of hydrated electrons hydrogen atoms and hydroxyl radical in aqueous solution, J. Phys. Chem. Ref. Data 17, 513-886

Cadet, J., Douki, T., Frelon, S., Sauvaigo, S., Pouget, J.P. Ravanat, J.L., (2002) Assessment of oxidative base damage to isolated and cellular DNA by HPLC-MS/MS measurement, Free Radical Biology and Medicine 33 (4), 441-449

Cadet, J., Treoule, R., (1978) Comparative study of oxidation of nucleic acid components by hydroxyl radicals, singlet oxygen and superoxide anion radicals, Photochem. Photobiol. 28, 661

Cadet, J., Vigny, P., (1990) Bioorganic Photochemistry. Photochemistry and Nucleic Acids, (Hrsg.: H. Morrison), John Wiley & Sons, New York 1, 1-272

Cheng, H.Y., Sackett, P.H., McCreery, R.L. (1978) Kinetics of chlorpromazine cation radical decomposition in aqueous buffers, J. Am. Chem. Soc. 100 (3), 962-967

Ciulla, T.A., Epling, G.A., Kochevar, I.E. (1986) Photoaddition of chlorpromazine to guanosine-5'-monophosphate, Photochem. Photobiol. 43, 607-613

Collins, A., Dusinska, M., Gedik, C., Stetina, R., (1996) Oxidative damage to DNA: do we have a reliable biomarker?, Env. Health Persp. 104, 465-469

Cullis, P.M., Jones, G.D.D., Symons, M.C.R., Lea, J.S., (1987) Electron transfer from protein to DNA in irradiated chromatin, *Nature*, 330, 773-774

Cuquerella,M.C., Bosca, F., Miranda, M.A., Belvedere, A., Catlfo, A., De Guidi, G., (2003) Photochemical properties of Ofloxacin involved in oxidative DNA damage: A comparsion with Rufloxacin, *Chem. Res. Toxicol.* 16, 562-570

Croke, D.T., Perrouault, L., Sari, M.A., Battioni, J.P., Mansuy, D., Helene, C., Le Doan, T.J., (1993) Structure-activity relationships for DNA photocleavage by cationic porphyrins, *Photochem. Photobiol. B.* 18, 41

Davies, A.K., Navaratnam, S., Phillips, G.O. (1976) Photochemistry of chlorpromazine in propan-2-ol solution, *J.C.S. Perkin Trans. 2*, 25-9

Davies, A.K., McKellar, J.F., Philips, G.O., Reid, A.G., (1979) Photochemical oxidation of tetracycline in aqueos solution, *J. Chem. Soc. Perkin Trans. 2*, 12, 369-375

Davies, M.J., (2004) Reactive species formed on proteins exposed to singulet oxygen, *Photochem. Photobiol. Sci.* 3, 17-25

Davies, M.J., and Truscott, R.J.W. (2001) Photo-oxidation of proteins and its role in cataractogenesis, *J. Photochem. Photobiol. B.* 63, 114-125

Dean, R.T., Shanlin, F.U., Stocker, R., Davies, M.J., (1997) Biochemistry and pathology of radical mediated protein oxidation, *J. Biochem.* 324, 1-18

Devasagayam, T.P.A., Steenken, S., Obendorf, M.S.W., Schulz, W.A., Sies, H., (1991) Formation of 8-hydroxy(deoxy)guanosine and generation of strand breaks at guanine residues in DNA by singlet oxygen, *Biochemistry*, 30, 6283

Diehl, G., Karst, U., (2000) Post-column oxidative derivatization for the liquid chromatographic determination of phenothiazines, *J. Chromatogr. A* 890, 281-287

Diffey, B.L., and Langtry, J. (1989) Phototoxic potential of thiazide diuretics in normal subjects, Arch Dermatol 125, 1355-1358

Dizdaroglu, M., (1992) Oxidative damage to DNA in mammalian chromatin, Mutat. Res. 275, 331-342

Dougherty, T.J. et al., (1978) Photoradiation therapy for the treatment of malignant tumors, Cancer Res. 38, 2628-3635

Drexel, R.D., Olack, G., Jones, C., Chmurny, G.N., Santini, R., Morrison, H., (1990) Lumitetracycline: A Novel New Tetracycline Photoproduct, J. Org. Chem., 55, 2471-2478

Eger, Troschütz and Roth (1999): Arzneistoffanalyse: Reaktivität, Stabilität, Analytik, Deutscher Apothekerverlag Stuttgart 4. Auflage 678

El-Gindy, A., El-Zeany, B., Awad, T., Shabana, M., (2002) Derivative spectrophotometric, thin layer chromatographic-densitometric and high performance liquid chromatographic determination of trifluoperazinehydrochloride in presence of its hydrogen peroxide induced-degradation product, Journal of Pharmaceutical and Biomedical Analysis, 27, 9-18

Engler, M., Rüsing, G., Sörgel, F., Holzgrabe, U., (1998) Defluorinated Sparfloxacin as a New Photoproduct Identified by Liquid Chromatography Coupled with UV Detection an Tandem Mass Spectrometry, American Society for Microbiology 42 (5), 1151-1159

Epe, B. (1991) Genotoxicity of singulet oxygen, Chem. Biol. Interact 80, 239-260

Epe, B. (1995) DNA damage profiles induced by oxidizing agents, Rev. Physiol. Biochem. Pharmacol. 127, 223-249

Epe, B., Pflaum, M., and Boiteux, S. (1993) DNA damage induced by photosensitizer in cellular and cell-free systems, Mutation Res., 299, 135-145

Epe, B., Mützel, P. and Adam W., (1988) DNA damage by oxygenradicals and excited state species: a comparative study using enzymatic probes in vivo, Chem-Biol. Interactions 67, 149-165

Epstein, S. (1968) Chlorpromazine photosensitivity. Phototoxic and photoallergic reactions, Arch. Dermatol. 98, 354-363

EMEA, CPMP/SWP/398/01, (2002) Note for guidance on photosafety testing

Florey, K., Analytical Profiles of Drug Substances, Volume 10, 405-436

Foote, C.S., (1991) Definition of Type I and Type II Photosensitized Oxidation. Photochemistry and Photobiology, 54(5): 659

Fu, S., Davies, M.J., Dean, R.T., (1998) Molecular aspects of free radical damage to proteins. In: Aruma, O.I., and Halliwell, B. (Hrsg) Molecular Biology of free radicals in human diseases, OICA International, Santa Lucia, London, 29-56

Fujita, H., Endo, A., and Suzuki K. (1980) Inactivation of Bacteriophage Lambda by near-ultraviolet irradiation in the presence of chlorpromazine, Photochem. Photobiol. 33, 215-222

Fujita, H., Hayashi, H., Suzuki, K. (1981) Spectrofluorometric study on photochemical interaction between chlorpromazine and nucleic acids, Photochem. Photobiol. 34, 101-105

Garcia, C., Smith, G.A., Mcgimpsey, W.G., Kochevar, I.E., Redmond, R.W. (1995) Mechanism and Solvent dependence for photoionization of promazine and chlorpromazine, J. Am. Chem. Soc. 117, 10871-10878

Gibbs, N.K., Traynor, N.J., Johnson, B.E., Ferguson, J., (1992) In vitro phototoxicity of nifedipine; sequential induction of toxic and non toxic photoproducts with UV-A radiation, J. Photochem. Photobiol. B. Biol. 13, 275-288

Grant, F.W., and Greene J. (1972) Phototoxicity and photonucleophilic aromatic substitution in chlorpromazine, Toxicol. Appl. Pharmacol. 28 (1972) 71-74

Görlitzer, K., Dobberkau, P.M., Jones, P.G. (1996) Fünfring-Analoga von Nifedipin, Pharmazie 51 (6), 392-396

Gould, J.W., Mercurio, M.G., Elmets, C.A., (1995) Cutaneous photosensitivity diseases induced by exogenous agents, J. Am. Acad. Dermatol. 33 (4) 551-573

Guarrera, M., Parodi, A., Rebora, A., (1990) Is nifedipine phototoxic? Photodermatol. Photoimmunol. Photomed. 7, 25-27

Halliwell, B., Aruoma, O., (1991) DNA damage by oxygen-derived species. Its mechanism and measurement in mammalian systems, FEBS 281 (1-2): 9-19

Halliwell, B., Dizdaroglu, M., (1992) The measurement of oxidative damage to DNA by HPLC and GC/MS techniques, Free Radic. Res. commun. 16, 75-87

Han, K.D., Bark, K.-M., Heo, E.P., Lee, J.K., Kang, J.S., Kim, T.H., (2000) Increased phototoxicity of hydrochlorothiazide by photodegradation, Photodermal Photoimmunol Photomed 16, 121-124 HC

Hasan, T., Allen, M., Cooperman, B.S., (1985) Anhydrotetracycline is a Major Product of Tetracycline Photolysis, J. Org. Chem., 50, 1755-1757

Hasan, T., Kochevar, I.E., McAuliffe, D.J., Cooperman, B.S., Abdulah, D., (1984) Mechanism of tetracycline phototoxicity, J. Invest. Dermatol., 83(3), 179-183

Hasan, T. and Khan, U., (1986) Phototoxicity of the tetracyclines: Photosensitized emission of singlet delta dioxygen, Proc. Natl. Acad. Sci. USA, 83(13) 4604-4606

Hausmann, W., (1911) Die sensibilisierende Wirkung des Hematoporphyrins, Biochem. Z. 30, 276-316

Henk, D.V., Gerhard, M.J., Beiersbergen, V.H. (1995) Photodegradation of Nifedipine under in vivo-related circumstances, Photochem. Photobiol. 62 (6), 959-963

Henriksen, T., Dahlbeck, A., Larsen, S.H., Moan, J., (1990) Ultraviolet-radiation and skin cancer. Effect of an ozone Layer depletion, Photochem. Photobiol., 51, 579-582

Horio, T., Miyauchi, H., Asada, Y., Aoki, Y., Harada, M., (1994) Phototoxicity and photoallergenicity of quinolones in guinea pigs, J. Dermatol. Sci, 3(2), 130-135

ICH Guideline Q 1B (1996). Photostability Testing of Active Substances and Medicinal Products

Ippen, H., (1993) Photoirritative und photoallergische Reaktionen: Möglichkeiten der Risikoabschätzung in der präklinischen und klinischen Entwicklung, Allergische und pseudoallergische Reaktionen, Merck-Verlag, S. 37-45

Iwoaka, W., Tannebaum, S.R., (1976) Photohydrolytic detection of N-nitroso compounds in high-performance liquid chromatography. In: Environmental N-Nitroso Compounds Analysis and Formation, Walcker, E.A., Bogovski, P., Graciute, L., (eds.) I.A.R.C. Sci. Publ. 14, 51-55

Jensen, T., Pedersen, S.S., Nielsen, C.H., Holby, N., Koch, C., (1987) The efficacy and safety of ciprofloxacin and ofloxacin in chronic *Pseudomonas aeruginosa* infection in cystic fibrosis, J. Antimicrob. Chemther. 20, 585-594

Jennings, B.H., Pastra, S.C., Wellington, J.L., (1970) Photosensitized dimerization of thymine Photochem. Photobiol. 11, 215

Jin, F.M., Leitich, J. and von Sonntag, C., (1995) The photolysis ($\lambda=254$) of tyrosine in aqueous solution in the absence and presence of oxygen-the reaction of tyrosine with singlet oxygen, J. Photochem. Photobiol., A., 92, 147-153

Johnson, B.E., (1992) Drug and Chemical Photosensitization. In: The Environmental Threat to the Skin, Marks R. and Plewig G. (Hrsg), Martin Dunitz, London, 57-66

Johnson, B.E., Gibbs, N.KL., Ferguson, F., (1997) Quinolone antibiotic with potential to photosensitive Skin tumorigenesis, J. Photochem. Photobiol. B: Biology, 37, 171-173

Johnson, B.E., Walker, P.M., Hetherington, A.M. (1986) In vitro models for cutaneous phototoxicity. In: Marks, R., Plewig, G., eds Skin models. Berlin: Springer Verlag, 264-281

Jose, J.G., (1979) Photomutagenesis by chlorinated phenothiazine tranquilizers, Proc. Natl. Acad. Sci. USA, 76(1), 469-472

Jung, E.G., (1977) Mechanismus der Photoallergie, Arzneimittelforschung 27 (96), 1868-70

Jungst, G., Mohr, R., (1987) Side effects of ofloxacin in clinical trials and in postmarketing surveillance, Drugs, 34 (Suppl 1), 144-149

Kahn, G., Davies, B.P., (1970) In vitro studies on longwave ultraviolet light dependent reactions of the skin photosensitizer chlorpromazine with nucleic acids, purines and pyrimidines. J. Invest. Dermatol. 55, 47-51

Kawanishi, S., Inoue, S., Sano, S., (1986) Photodynamic guanine modification by hematoporphyrin is specific for single-stranded DNA with singlet oxygen as a mediator, J. Biol. Chem. 261, 6090-6095

Kersten, B., Zhang, J., Brendler-Schwaab, S.Y., Kasper, P., Müller, L. (1999) The application of the micronucleus test in Chinese hamster V79 cells to detect drug induced photogenotoxicity, Mutat. Res. 445, 55-71

Kersten, B., Kasper, P., Brendler-Schwaab, S.Y., Müller, L. (2001) Effects of visible absorbing chemicals in the photo-micronucleus test in Chinese hamster V79 cells, Environ. Mutagen. Res. 23, 97-102

Kimber, I., Weisenberger, C., (1989) A murine Local lymph node assay for the identification of contact allergens. Assay development and results of an initial validation study, Arch. Toxicol. 63, 274

Kittler, L., Löber, G., Gollmick, F.A., Berg, H., (1980) J. Electroanal. Chem. 116, 503-511

Kochevar, I.E., Chung, F.L. and Jeffery, A.M., (1984) Photoaddition of chlorpromazine to DNA, *Chem. Biol. Interact.* 51, 273-284

Kochevar, I.E., Garcia, C., Geacintov, N.E. (1998) Photoaddition to DNA by nonintercalated chlorpromazine molecules, *Photochem. Photobiol.* 68 (5): 692-697

Kochevar, I.E., Hom, J., (1983) Photoproducts of chlorpromazine which cause red blood cell lysis, *Photochem. Photobiol.* 37, 163-168

Kochevar, I.E. and Lamola, A.A., (1979) Chlorpromazine and protriptyline phototoxicity: photosensitized, oxygen independent red cell hemolysis, *Photochem. Photobiol.*, 29, 791-796

Kuhlmann, O., Krauss, G.J., (1997) Crocheted ETFE-reactor for online post-column photoderivatization of diclofenac in high-performance liquid chromatography, *J. Pharm. Biomed. Anal.*, 16, 553-559

Kouchakdijan, M., Bodepudi, V., Shibusaki, S., Eisenberg, M., Johnson F., Grollmann, A.F., Patel, D.J., (1991) NMR structural studies of the ionizing radiation adduct 7-hydro-8-oxodeoxyguanosine (8-oxo-7H-dG) opposite deoxyadenosine in a DNA duplex. 8-Oxo-7H-dG(syn).dA(anti) alignment at lesion site. *Biochemistry*, 30(5), 1403-1412

Kvam, E., Tyrell, R.M., (1997) Induction of oxidative DNA base damage in human skin cells by UV and near visible radiation. *Carcinogenesis*, 18(12), 2379-2384

Lee, Y.J., Padula, J., Lee, H.K., (1988) Kinetics and mechanisms of etodolac degradation in aqueous solutions, *J. Pharm. Sci.* 77 (1), 81-86

Lehmann, P, (2004) Heliotrope Erkrankungen-Diagnostik und Therapie, *Dtsch med Wochenschr* 259-266

Liebsch, M., Barrabas, C., Traue, D., Spielmann, H., (1997) Development of a new in vitro test for dermal phototoxicity using a model of reconstituted human epidermis, *ALTEX* 14 (4), 165-174

Lipscomb, L.A., Zhou,F.X., Presnell, S.R., Woo, R.J., Peek, M.E., Plaskon, R.R., Williams, L.D., (1996) Structure of a DNA-Porphyrin Complex, Biochemistry 35, 2818-2823

Ljunggren, B. and Moller, H., (1977) Phenothiazine phototoxicity: an experimental study on chlorpromazine and its metabolites, J. Invest. Dermatol., 68, 313-317

Loft, S., Poulesen, H.E., (1996) Cancer risk and oxidative damage in man, J. Mol. Med. 74, 297-312

Magnusson, B., et Klingman, A.M., (1969) The identification of contact allergens by animal assay. The guinea Maximization test, J. Invest. Dermatol. 52, 268

Marnett, L.J., (2000) Oxyradicals and DNA damage, Carcinogenesis 21 (3), 361-370

Marnett, L.J., Riggins, J.N., West, J.D., (2003) Endogenous Generation of reactive Oxidants and Electrophiles and their Reactions with DNA and Protein. The Journal of Clinical Investigation, 111(5), 583-593

Marutani, K., Otabe, Y., Nagamuta, M., Matsubara, S., Otani, H., (1998) Photoallergenicity of a Fluoroquinolone Antibacterial Agent with a Fluorine Substituent at the 8-Position in Guinea Pigs Exposed to Long-Wavelength UV Light, Skin Pharmacol. App.l Skin Physiol. 11, 232-240

Marutani, K., Matsumoto, M., Otabe, Y., Nagamuta, M., Tanaka, K., Miyoshi, A., Hasegawa, T., Nagano, H., Matsubara, S., Kamide,R., Yokota, T., Matsumoto, F., Ueda,Y., (1993) Reduced Phototoxicity of a Fluorquinolone Antibacterial Agent with a Methoxy Group at the 8 Position in Mice Irradiation with Long-Wavelenght UV Light, Antimicrobial Agents and Chemotherapy 37 (10), 2217-2223

Matsumoto, M., Kojima, K., Nagano, H., Matsubara, S., Yokota, T., (1992) Photostability and Biological Activity of Fluoroquinolones Substituted at the 8 Position after UV Irradiation Antimicrobial Agents and Chemotherapy 36 (8), 1715-1719

Matsuo, I., Fujita, H., Hayakawa, K., Ohkido, M. (1986) Lipid peroxidative potency of photosensitized thiazide diuretics, *J. Invest. Dermatol.* 87 (5), 637-641

Martin, J.P., Colina, K., Logsdon, N., (1987) Role of Oxygen Radicals in the Phototoxicity of Tetracyclines toward *Escherichia coli* B, *Journal of Bacteriology*, 169(6), 2516-2522

Martinez, L.J., Sik R.H., Chingell, C.F., (1998) Fluoroquinolone Antimicrobials: Singlet Oxygen, Superoxide and Phototoxicity, *Photochem. Photobiol.* 67 (4), 399-403

Masti, S.P., Seetharamappa, J., Melwanki, M.B., Motohashi, N., (2002) Spectrophotometric Determination of Cerium (IV) Using a Phenothiazine Derivate, *Anal. Sci.* 18, 167-169

Matienzo, L.J., Zimmerman, J.A., Egitto, F.D., (1994) Surface modification of fluoropolymers with vacuum ultraviolet irradiation, *Journal of Vacuum Science & Technology A: Vacuum, Surfaces, and Films* 12, 2662-2671

Mayne, J.T., Johnson, N.J., Kluwe, W.M., Lencoski, Polzer, R.J., (1997) A study of the phototoxic potential of trovafloxacin in BALB/c mice, *Journal of Antimicrobial Chemotherapy* 39, 67-73

McCormick, J.P., Thomason, T., (1978) Near-Ultraviolet Photooxidation of Tryptophan. Proof of Formation of Superoxide Ion, *J. Am. Chem. Soc.*, 100:1, 312-313 (trpdegradation)

Meunier, B., Pratviel, G., Bernadou, J., (1994) Active species involved in oxidative DNA cleavage *Bull. Soc. Chim. Fr.* 131, 933-943

Miranda, A., (2001) Photosensitization by drugs, *Pure Appl. Chem.* 73 (3), 481-486

Moore, D.E., Tamat, S.R., (1980) Photosensitization by drugs: photolysis of some chlorine-containing drugs, *J. Pharm. Pharmacol.* 32: 172-177

Motten, A.G., Buettner, G.R., Chignell, C.F. (1985) Spectroscopic studies of cutaneous photosensitizing agents. A spin-trapping study of light induced free radicals from chlorpromazine and promazine, *Photochem. Photobiol.* 42 (1), 9-15

Motten, A.G., Martinez, L.J., Holt, N., Sik, R.H., Reszka, K., Chignell, C.F., Tonnesen, H.H., Roberts, J.E., (1999) Photophysical Studies on Antimalarial Drugs, Photochem. Photobiol. 69 (3), 282-287

Munson, B.R., Fiel, R.J., (1992) DNA intercalation and photosensitization by cationic meso substituted porphyrins, Nucleic Acids Research 20 (6), 1315-1319

Newcomb, T.G., Loeb, L.A., (1998) Mechanismus of mutagenicity of oxidatively-modified bases. In: Aruoma, O.I., Halliwell, B., (Hrsg) Molecular Biology of free radicals in human diseases, OICA International, Santa Lucia, London, S. 139-166

Noh, I., Chittur, K., Goodman, S.L., Hubbell, J.A., (2000) Surface modification of poly(tetrafluoroethylene) with benzophenone and sodium hydride by ultraviolet irradiation, Journal of Polymer Science Part A: Polymer Chemistry 35(8), 1499-1514

Note for Guidance on Photosafety Testing CPMP/SWP/398/01

Ogamo, A., and Fukumoto, M., (2004) Preparation of Metabolites by Chemical Reaction: Conversion of Antipsychotic Phenothiazines to their Sulfoxides and Tertiary Amino Cyclic Antidepressants to their N-Oxide with Hydrogen-Peroxide Using Titanosilicate Catalyst, Journal of Health Science, 50(4), 396-406

Ostling, O., Johanson, K.J., (1984) Microelectrophoretic study of radiation-induced DNA damages in individual mammalian cells, Biochem. Biophys. Res. Commun., 123, 291-298

Palar, S., (2000) Dissertation: Untersuchung zur photochemischen Stabilität mittels Durchflussreaktoren, Humboldt-Universität zu Berlin

Palar, S., Nn, Surmann, J.P., (2000) Pre-column (h-HPLC) photochemical reaction for the online characterization of photoproducts using p-aminobenzoic acid as a model substance, Fresenius J. Anal Chem. 367, 129-131

Peterkin, G.G., (1945) Sulphonamides rashes. An analysis of 500 cases in North Africa and Italy, Brit. Med. J. II:1

Pfleger, K., Maurer, H.H., Weber, A., (1992) Mass spectral and GC data. VCH, Weinheim, part 3, 1663

Pigatto, P.D., Legori, A., Bigardi, A.S., Guarnera, M., Tosti, A., Santucci, B., Monfrecola, G., Schena, D., (1996) Gruppo Italiano Ricerca Dermatiti da Contatto ed Ambientali Italian Multicenter, Study of Allergic Contact Photodermatitis: epidemiological aspects. Am J contact Dermat Sep, 7 (3), 158-163

Piette, J., (1987) Alkaline labilization of DNA photosensitized by promazine derivatives, Biochem. Biopharmacol., 1, 3701-3706

Piette, J., (1991) Biological consequences associated with DNA oxidation mediated by singlet oxygen, Photochem. Photobiol. B. 11 (3-4) 241-260

Pogozelski, W.K., Tullius, T.D., (1998) Oxidative Strand Scission of Nucleic Acids: Routes Initiated by Hydrogen Abstraction from the Sugar Moiety, Chem. Rev. 98 (3) 1089-1108

Poulsen, J.R., Birks, Gandelman, M.S., Birks, J.W. (1986) Crocheted PTFE reactors for post-column photochemistry in HPLC, Chromathographia, Vol. 22, No. 7-12, 231-234

Quintero, B., Miranda, M.A., (2000) Mechanisms of photosensitization induced by drugs: A general survey, Ars. Pharmaceutica 41 (1), 27-46

Ravanat, J.-L., Di Mascio, P. Martinez, G.R., Medeiros, M.H.G., Cadet, J., (2000) Singlet oxygen induces oxidation of cellular DNA, J. Biol. Chem. 275, 40601-40602

Ravanat, J.L., Tureskey, R.J., Gremaud, E., Trudel, L.J., Stadler, R.H., (1995) Determination of 8-oxguanine in DNA by gas chromatography-mass spectrometry and HPLC-elektrochemical detection: Overestimation of the background level of the oxidized base by the gas chromatography-mass spectrometry assay, Chemical Research in Toxicology 8, 1039-1045

Reavy, H.J., Trynor, N.J., Gibbs, N.K., (1997) Photogenotoxicity of skin phototumorigenic fluoroquinolone antibiotics detected using the comet assay, Photochem. Photobiol., 66(3), 368-373

Revelle, L.K., Musser S.M., Rowe, B.J., Feldman, I.C. (1997) Identification of chlorothiazide and hydrochlorothiazide UV-A photolytic decomposition products, *J. Pharm. Sci.* 86, 631-634

Robertson, D.G., Epling, G.A., Kiely, J.S., Bailey, D.L., Song, B., (1991) Mechanistic studies of the phototoxic potential of PD 117596, a quinolone antibacterial compound, *Toxicol. Appl. Pharmacol.*, 111, 221-232

Rosenthal, I., Ben-Hur, E., Prager, A., Riklis, E., (1978) Photochemical reactions of chlorpromazine, chemical and biochemical implications, *Photochem. Photobiol.* 28, 591-594
Sandmann, H., (2001) Über die ultraviolette Sonnenstrahlung. Der mathematische und naturwissenschaftliche Unterricht, 54 (5), 260-265

Schempp, C.M., Schöpf, E., und Simon, J.C., (2002) Plant-induced toxic and allergic Dermatitis (Phytodermatitis). *Der Hautarzt*, 53(2), 93,97

Schmidt, A.H., (2003) Use of an on-line, precolumn photochemical reactor in high-performance liquid chromatography of naphthodianthrone in Hypericum perforatum preparations, *J. Chromatogr. A*, 987, 181-187

Schloßmann, K. (1972) Fluorometrische Bestimmung des 4-(2-Nitrophenyl)-2,6-dimethyl-1,4-dihydropyridin-3,5-dicarbonsäuredimethylester und seines Hauptmetaboliten, *Arzneim. Forsch.* 22, 60-62

Schulz, M., Dinnendahl, V., Braun, R., (1989), Ruhen der Zulassung von Corvaton- Tropfen – Hintergrundinformationen, PZ 50, 6-7

Schwaab, S.B., Czich, A., Epe, B., Gocke, E., Kaina, B., Müller, L., Pollet, D., Utesch, D., (2004) Photochemical genotoxicity: principles and test methods Report of a GUM task force, *Mutation Research* 566, 65-91

Scholten, A.H.M.T., Welling, P.L.M., Brinkman, U.A.T., Frei, R.W., (1980) Use of PTFE coils in post-column photochemical reactors for liquid chromatography – Application to Pharmaceuticals, *J. Chromatogr.* 199, 239-248

Schoonderwoerd, S.A., Beijersbergen van Henegouwen, G.M. and Luijendijk, J.J., (1988) Photobinding of chlorpromazine and its sulfoxide in vitro and in vivo, Photochem. Photobiol. 48, 621-626

Schothorst, A.A., Suurmond, D., Schouten, R. (1983) Photochemical damage to DNA treated with chlorpromazine and near uv radiation under aerobic and anaerobic conditions, Photochem. Photobiol. 38, 659-664

Selvaag, E., Petersen, A.B., Gniadecki, R., Thorn, T., Wulf, H.C. (2002) Phototoxicity to diuretics and antidiabetics in the cultured keratinocyte cell line HaCaT: evaluation by clonogenic assay and single cell gel electrophoresis Comet assay 18, 90-95

Shibutani, S., Takeshita, M., Grollmann, A.P., (1991) Insertion of specific bases during DNA synthesis past the oxidation-damaged base 8-oxoG, Nature 349, 431-434

Spielmann, H., Balls, M., Döring, B., Holzhütter, H.G., Kalweit, S., Klecak, G., L'Eplattenier, H., Liebsch, M., Lovell, M.M., Maurer, T., Moldenhauer, F., Moore, L., Pape, W., Pfannebecker, U., Potthast, J., De Silva, O., Steiling, W. and Willshaw, A., (1994): EC/COLIPA project on in vitro phototoxicity testing: first results obtained with the Balb/c 3T3 cell phototoxicity assay, Toxicology in Vitro 8, 793-796

Spielmann, H., Balls, M., Dupuis, J., Pape, W., Pechovitch, G., De Silva, O., Holzhütter, H.G., Clothier, R., Desolle, P., Gerberick, F., Liebsch, M., Lovell, W.W., Maurer, T., Pfannebecker, U., Potthast, J., Csato, M., Sladowski, D., Steiling, W. and Brantom, P. (1998) EU/COLIPA "In vitro phototoxicity" validation study, results of phase II (blind trial) part 1: 3T3 NRU phototoxicity test, Toxicology in vitro 12, 305-327

Spielmann, H., Müller, L., Averbeck, D., Balls, M., Brendler-Schwaab, S., Castell, J.V., Curren, R., Silvia, O. d., Gibbs, N.K., Liebsch, M., Lovell, W. W., Merk, H.F., Nash, J.F., Neumann, N.J., Pape, W.J.W., Ulrich, P. und Vohr H.-W. (2000) The second ECVAM Workshop on Phototoxicity Testing. Alternatives to Laboratory Animals, 28, 777-814

Singh, N.P., McCoy, M.T., Tice, R.R., Schneider, E.L. (1988) A simple technique for quantitation of low levels of DNA damage in individual cells, Exp. Cell. Res. 175, 184-191

Snyder, R.D., Cooper, C.S. (1999) Photogenotoxicity of fluorquinolones in Chinese hamster V79 Cells: dependency on active topoisomerase II, Photochem. Photobiol. 69, 288-293

Southborn, P.A. and Powis, G., Free radicals in medicine, Mayo. Clin. Proc. 63, 381-389

Sunderland, J., Tobin, C.M., Hedges, A.J., McGowan, P., White, L.O., (2001) Antimicrobial activity of fluoroquinolone photodegradation products determined by parallel-line bioassay high performance liquid chromatography, Journal of Antimicrobial Chemotherapy 47, 271-275

Stahlmann, R., Lode, H., (1998) Nebenwirkungen der neuen Fluorochinolone. Arzneimitteltherapie, 12, 385-394

Tamat, S.R., Moore D.E., (1983) Photolytic decomposition of hydrochlorothiazide, J.Pharm. Sci. 72 (2), 180-3 HC

Tønnesen, H.H., and Grislingaas, A.-L., (1990) Photochemical stability of biologically active compounds. II. Photochemical decomposition of mefloquine in water, Int. J. Pharm., 60, 157-162

Tønnesen, H.H., Moore, D.E., (1991) Photochemical stability of biologically active compounds. III. Mefloquine as a photosensitizer, International Journal of Pharmaceutics, 70, 95-101

Trosko, J.E., Chu, E.H.J., Carrier, W.L., (1965) Induction of thymine in ultraviolet-irradiated mammalian cells. Radiat. Res., 24, 669-672

Twitchett, P.J., Williams, P.L., Moffat, A.C., (1978) Photochemical Detection in High-Performance Liquid Chromatography and its Application to Cannabinoid Analysis, J. of Chromatography, 149, 683-691

Urbach, F., (1989) The biological Effects of increased Ultraviolet Radiation: An Update, Photochemistry and Photobiology 50 (4): 439-441

von Tappeiner, H., & Jesionek, A., (1900) Therapeutische Versuche mit fluoreszierenden Stoffen, Münch. med. Wochenschr. 47, 5

Wagai, N., Tawara, K., (1992) Possible direct role of reactive oxygens in the cause of cutaneous phototoxicity induced by five quinolones in mice, Arch. Toxicol., 66(6), 392-397

Waksman, R., et al., (2006) Intracoronary photodynamic therapy reduces neointimal growth without suppressing reendothelialization in a porcine model, Heart, <http://heart.bmjjournals.com/cgi/eletter-submit/hrt.2005.073486v2>

Wood, P.D., Redmond, R.W., (1996) Triplet state interactions between nucleic acids bases in solution at room temperature, J. Am. Chem. Soc. 118, 4256-4263

Yap, L.M., Foley, P.A., Crouch, R.B., Baker, C.S., (2000) Drug-induced solar urticaria due to tetracycline, Australasian Journal of Dermatology, 41(3), 181-184

Zenarola, P., Gatti, S., and Lomuto, M., (1991) Photodermatitis due to nifedipine: report of 2 cases. Dermatologica 182, 196-198