

Literatūra

- Agostinis P., E. Buytaert, H. Breyssens, N. Hendrickx (2004) Regulatory pathways in photodynamic therapy induced apoptosis. *Photochem Photobiol Sci.*, 3, 721-729.
- Almeida R.D., B.J. Manadas, A.P. Carvalho, C.B. Duarte (2004) Intracellular signaling mechanisms in photodynamic therapy. *Biochim. Biophys. Acta*, 1704, 59-86.
- Auler H., G. Banzer (1942) Untersuchungen über die Rolle der Porphyrine bei geschwulstkranken Menschen und Tieren. *Z.Krebsforsch.*, 53, 65-68.
- Bakalova R., H. Ohba, Z. Zhelev, M. Ishikawa, Y. Baba (2004) Quantum dots as photosensitizers? *Nature Biotechnology*, 22, 1360-1361.
- Bložnelytė-Plėšnienė L., L. Rutkovskienė (2007) Photodynamic therapy of malignant and precancerous tumours in Lithuania. *Acta medica Lituanika*, 14, 193-200.
- Brigger I., C. Dubernet, P. Couvreur (2002) Nanoparticles in cancer therapy and diagnosis. *Adv. Drug Deliv. Rev.*, 54, 631-651.
- Buytaert E., M. Dewaele, P. Agostinis (2007) Molecular effectors of multiple cell death pathways initiated by photodynamic therapy. *Biochim. Biophys. Acta*, 1776, 86-107.
- Castano A.P., P. Mroz, M.R. Hamblin (2006) Photodynamic therapy and anti-tumour immunity. *Nature Rev. Cancer*, 6, 535-545.
- Cecic I., K. Serrano, M. Gyongyossy-Issa, M. Korbelik (2005) Characteristics of complement activation in mice bearing Lewis lung carcinomas treated by photodynamic therapy. *Cancer Lett.*, 225, 215-223.
- De Vree W.J., M.C. Essers, H.S. de Bruijn, W.M. Star, J.F. Koster, W. Sluiter (1996) Evidence for an important role of neutrophils in the efficacy of photodynamic therapy *in vivo*. *Cancer Res.* 56, 2908-2911.
- Dellian M., C. Abels, G.E. Kuhnle, A.E. Goetz (1995) Effects of photodynamic therapy on leucocyte-endothelium interaction: differences between normal and tumour tissue. *Br. J. Cancer*, 72, 1125-1130.
- Derfus A.M., W.C.W. Chan, S.N. Bhatia (2004) Probing the cytotoxicity of semiconductor quantum dots. *Nano Lett.*, 4, 11-18.
- Dolmans D.E.J.G.J., A. Kadambi, J.S. Hill, C.A. Waters, B.C. Robinson, J.P. Walker, D. Fukumura, R.K. Jain (2002) Vascular accumulation of a novel photosensitizer, MV 6401, causes selective thrombosis in tumor vessels after photodynamic therapy. *Cancer Res.* 62, 2151-2156.
- Dougherty T.J., G.B. Grindey, K.R. Weishaupt, D.G. Boyle (1975) Photoradiation therapy II. Cure of animal tumours with haematoporphyrin and light. *J.Natl. Cancer Inst.*, 55, 115-121.
- Dougherty T.J., J.E. Kaufman, A. Goldfarb, K.R. Weishaupt, D.G. Boyle, A. Mittelman (1978) Photoradiation therapy for the treatment of malignant tumours. *Cancer Res.*, 38, 2628-2635.

Dougherty T.J., T.S. Mang (1987) Characterization of intra-tumoral porphyrin following injection of hematoporphyrin derivative or its purified component. *Photochem. Photobiol.*, 46, 67–70.

Dougherty T.J., W.R. Potter, K.R. Weishaupt (1984) The structure of the active component of hematoporphyrin derivative. In: *Porphyrin localization and treatment of tumours*, D.R.Doiron, C.J.Gomer (eds.).New York, Liss, 301–314.

Edinger A.L., C.B. Thompson (2004) Death by design: apoptosis, necrosis and autophagy. *Curr. Opin. Cell Biol.*, 16, 663-669.

Figge F.H., G.S. Weiland, L.A. Manganiello (1948) Cancer detection and therapy. Affinity of neoplastic, embrionic, and traumatized tissues for porphyrins and metalloporphyrins. *Proc.Soc.Exp.Biol.Med.*, 68, 640-641.

Foote C.S. (1968) Mechanisms of photosensitized oxidation. *Science*, 162, 963–970.

Foote C.S., S. Wexler (1964) Olefin oxidations with exited singlet molecular oxygen. *J.Amer.Chem.Soc.*, 86, 3879–3880.

Foote C.S., R.W. Denny, L. Weaver, Y. Chang, J. Petters (1970) Quenching of singlet oxygen. *Ann.N.Y.Acad.Sci.*, 171, 139–148.

Gao X.H., Y.Y. Cui, R.M. Levenson, L.W.K.Chung, S. Nie (2004) *In vivo* cancer targeting and imaging with semiconductor quantum dots. *Nat. Biotechnol.*, 22, 969-976.

Gregory Jr H.G., E.O. Horger, J.L. Ward (1968) Hematoporphyrin derivative fluorescence in malignant neoplasms. *Ann.Surg.*, 167, 820.

Hamblin M.R., D.A. O'Donnell, N. Murthy, C.H. Contag, T. Hasan (2002) Rapid control of wound infections by targeted photodynamic therapy monitored by *in vivo* luminescence imaging. *Photochem. Photobiol.*, 75, 51-57.

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

Hayata Y., H. Kato, C. Konaka, J. Ono, N. Takizawa (1982) Hematoporphyrin derivative and laser photoradiation in the treatment of lung cancer. *Chest*, 81, 269-277.

Heckenkamp J., M. Aleksic, M. Gawenda, S. Breuer, J. Brabender, A. Mahdavi, F. Aydin, J.S. Brunkwall (2004) Modulation of human adventitial fibroblast function by photodynamic therapy of collagen matrix. *Eur. J. Vasc. Endovasc. Surg.*, 28, 651-659.

Henderson B.W., A.C. Miller (1986) Effects of scavengers of reactive oxygen and radical species on cell survival following photodynamic treatment *in vitro*: comparison to ionizing radiation. *Radiat.Res.*, 108, 196.

Ji Z., G. Yang, V. Vasovic, B. Cunderlikova, Z. Suo, J.M. Nesland, Q. Peng (2006) Subcellular localization pattern of protoporphyrin IX is an important determinant for its photodynamic efficiency of human carcinoma and normal cells. *J. Photochem. Photobiol. B: Biol.*, 84, 213-220.

Jodlbauer A., H.v. Tappeiner (1904) On the participation of oxygen in the photodynamic effect of fluorescent substances. *Munch. Med. Wochenschr.*, 52, 1139-1141.

Jori G., C. Fabris, M. Soncin, S. Ferro, O. Coppellotti, D. Dei, L. Fantetti, G. Chiti, G. Roncucci (2006) Photodynamic therapy in the treatment of microbial infections: Basic principles and perspective applications. *Lasers Surg. Med.*, 38, 468-481.

Kelly J.F., M.E. Snell (1976) Haematoporphyrin derivative: a possible aid in the diagnosis and therapy of carcinoma of the bladder. *J.Urol.*, 115, 150.

Kennedy J.C., R.H. Pottier, D.C. Pross (1990) Photodynamic therapy with endogenous protoporphyrin IX: basic principles and present clinical experience. *J. Photochem. Photobiol. B:Biol.*, 6, 143-148.

Kessel D., A.S. Arroyo (2007) Apoptotic and autophagic responses to Bcl-2 inhibition and photodamage. *Photochem Photobiol Sci.*, 6, 1290-1295.

Kessel D., M.G.H. Vicente, J.J. Reiners, Jr. (2006) Initiation of apoptosis and autophagy by photodynamic therapy. *Lasers Surg. Med.*, 28, 482-488.

Komerik N., H. Nakanishi, A.J. MacRobert, B. Henderson, P. Speight, M. Vilson (2003) In vivo killing of *Porphyromonas gingivalis* by toluidine blue-mediated photosensitisation in an animal model. *Antimicrob. Agents Chemother.*, 47, 932-940.

Korbelik M., J. Sun (2005) Photodynamic therapy-generated vaccine for cancer therapy. *Cancer Immunol. Immunother.*, 55, 900-909.

Krammer B. (2001) Vascular effects of photodynamic therapy. *Anticancer Res.*, 21, 4271-4278.

Krasnovsky A.A., Jr. (1979) Photoluminescence of singlet oxygen in pigment solutions. *Photochem. Photobiol.*, 29, 29-36.

LaMuraglia G.M., J. Schiereck, J. Heckenkamp, G. Nigri, P. Waterman, D. Leszczynski, S. Kassodo (2000) Photodynamic therapy induces apoptosis in intimal hyperplastic arteries. *Am. J. Pathol.*, 157, 867-875.

Lipson R.L., E.J. Baldes, A.M. Olsen (1961) The use of a derivative of haematoporphyrin in tumour detection. *J. Natl. Cancer Inst.*, 26, 1-11.

Lipson R.L., M.J. Gray, E.J. Baldes (1967) Haematoporphyrin derivative for detection and management of cancer. *Cancer*, 20, 2255-2257.

McNeil S.E. (2005) Nanotechnology for the biologist. *J. Leuk. Biol.*, 78, 585-594.

Meyer-Betz F. (1913) Untersuchungen über die Biologische (photodynamische) Wirkung des hamatoporphyrins und anderer Derivate des Blut und Gallenfarbstoffs. *Dtsch. Arch. Klin. Med.*, 112, 476-503.

Michels S., U. Schmidt-Erfurth (2003) Sequence of early vascular events after photodynamic therapy. *Invest. Ophthalmol. Vis. Sci.*, 44, 2147-2154.

Moan J., E.Boye (1981) Photodynamic effect on DNA and cell survival of human cells sensitized by haematoporphyrin. *Photobiochem.Photobiophys.*, 2, 301-307.

Moan J., S. Sommer (1983) Uptake of components of hematoporphyrin derivative by cells and tumours. *Cancer Lett.*, 21, 167-174.

Moor A.C.E. (2000) Signaling pathways in cell death and survival after photodynamic therapy. *J. Photochem. Photobiol. B: Biol.*, 57, 1-13.

Moreno G, K. Poussin, F. Ricchelli, C. Salet (2001) The effects of singlet oxygen produced by photodynamic action on the mitochondrial permeability transition differ in accordance with the localization of the sensitizer. *Arch. Biochem. Biophys.* 386, 243-250.

Nitzan Y. (1999) Endogenous porphyrin production in bacteria by 5-amino-levulinic acid and subsequent bacterial photoeradication. *Lasers. Med. Sci.*, 14, 269-277.

Nitzan Y., M. Salmon-Divon, E. Shporen, Z. Malik (2004) ALA-induced photodynamic effects on Gram-positive and Gram-negative bacteria. *Photochem. Photobiol. Sci.*, 3, 430-435.

Oberdörster G., Z. Sharp, V. Atudorei, A. Elder, R. Gelein, W. Kreyling, C. Cox (2004) Translocation of inhaled ultrafine particles to the brain. *Inhal. Toxicol.*, 16, 437-445.

Oleinick N.L., H.H. Evans (1998) The photobiology of photodynamic therapy: cellular targets and mechanisms. *Radiat. Res.*, 150 (Suppl.), S146-S156.

Oleinick N.L., R.L. Morris, I. Belichenko (2002) The role of apoptosis in response to photodynamic therapy: What, where, why and how. *Photochem. Photobiol. Sci.*, 1, 1-21.

Osakia F., T. Kanamori, S. Sando, T. Sera, Y. Aoyama (2004) A quantum dot conjugated sugar ball and its cellular uptake. On the size effects of endocytosis in the subviral region. *J. Am. Chem. Soc.*, 126, 6520-6521.

Pazos M.d.C., H.B. Nader (2007) Effect of photodynamic therapy on the extracellular matrix and associated components. *Braz. J. Med. Biol. Res.*, 40, 1025-1035.

Petermeier K., O. Tatar, W. Inhoffen, M. Voelker, B.A. Lafaut, S. Henke-Fahle, F. Gelisken, F. Ziemssen, S. Bopp, K.U.Bartz-Schmidt, S. Grisanti (2006) Verteporfin photodynamic therapy induced apoptosis in choroidal neovascular membranes. *Br. J. Ophthalmol.*, 90, 1034-1039.

Pietropaoli A. P., M.W. Frampton, R.W. Hyde, P.E. Morrow, G. Ogerdörster, C. Cox, D.M. Speers, L.M. Frasier, D.C. Chalupa, L.S. Huang, M.J. Utell (2004) Pulmonary function, diffusing capacity, and inflammation in healthy and asthmatic subjects exposed to ultrafine particles. *Inhal. Toxicol.*, 16, 59-72.

Policard A.(1924) Etudes sur les aspects offerts par des tumeur experimentales examinee a la lumiere de woods. *C.R. Soc.Biol.*, 91, 1423-1428.

Raab O. (1900) Über die Wirkung fluorescierender Stoffe auf Infusorien. *Z.Biol.*, 39, 524-546.

Runnels J.M., N. Chen, B. Ortel, D. Kato, T. Hasan (1999) BPD-MA-mediated photosensitization *in vitro* and *in vivo*: cellular adhesion and beta1 integrin expression in ovarian cancer cells. Br. J. Cancer, 80, 946-953.

Reddi E., M. Ceccon, G. Valduga, G. Jori, J.C. Bommer, F. Elisei, L. Latterini, U. Mazzucato (2002) Photophysical properties and antibacterial activity of meso-substituted cationic porphyrins. Photochem. Photobiol., 75, 462-470.

Samia A.C.S., X. Chen, C. Burda (2003) Semiconductor quantum dots for photodynamic therapy. J. Am. Chem. Soc., 125, 15736-15737.

Samia A.C.S., S. Dayal, C. Burda (2006) Quantum dot-based energy transfer: perspectives and potential for application in photodynamic therapy. Photochem. Photobiol., 82, 617-625.

Schwartz S. (1992) Historical Perspective. In: Photodynamic therapy. Basic principles and clinical application. Eds.:B.W.Henderson, T.J.Dougherty, Marcel Dekker, Inc., New York, Basel, Hong Kong, 1-8.

Schwartz S., K. Absolon, H. Vermund (1955) Some relationships of porphyrins, x-rays and tumours. Bull.Minn.Univ.Sch.Med., 27, 7-13.

Sharman W.M., C.M. Allen, J.E.van Lier (1999) Photodynamic therapeutics: basic principles and clinical applications, DDT, 4, 507-517.

Sessler J.L., G Hemmi, T.D. Mody, T. Murai, A. Burrell, S.W. Young (1994) Texapyrins: synthesis and applications. Acc.Chem.Res., 27, 43-50.

Smith A.M., X. Gao, S. Nie (2004) Quantum dot nanocrystals for *in vivo* molecular and cellular imaging. Photochem. Photobiol., 80, 377-385.

Tappeiner H.v., A. Jodlbauer (1907) Die sensibilisierende fluorescierender Substanzen. Gesammelte Untersuchungen über die photodynamische Erscheinung, F.C.W. Vogel, Leipzig.

Tatar O., E. Kaiserling, A. Adam, F. Gelisken, K. Shinoda, M. Voelker, B.A. Lafaut, K.U. Bartz-Schmidt, S. Grisanti (2006) Consequences of verteporfin photodynamic therapy on choroidal neovascular membranes. Arch. Ophthalmol., 124, 815-823.

Teichert M.C., J.W. Jones, M.N. Usacheva, M.A. Biel (2002) Treatment of oral candidiasis with methylene blue-mediated photodynamic therapy in an immunodeficient murine model. Oral Surg. Oral Med. Oral Pathol. Oral Radiol., 93, 155-160.

Wainwright M. (1998) Photodynamic antimicrobial chemotherapy (PACT). J. Antimicrob. Ther., 42, 13-28.

Weiss J. (1935) Electron transition processes in the mechanism of oxidation and reduction reactions in solutions. Naturwiss., 23, 64-69.

Winkelman J.W. (1962) The distribution of tetraphenylporphinesulfonate in the tumor-bearing rat. Cancer Res., 22, 589-596.