

BIBLIOGRAPHY

Agostinis, P., Vantieghema, A., Merlevede, W. and de Witte, P.A.M. (2002). Hypericin in cancer treatment: more light on the way. *The International Journal of Biochemistry and Cell Biology* **34** 221–241

Algae Research-Introduction (2008). *Department of Botany, National Museum of Natural History, Smithsonian Institution.*

<http://botany.si.edu/projects/algae/introduction.htm>

Allen, C.M., Sharman, W.M and Van Lier, J.E. (2001). Current status of phthalocyanines in the photodynamic therapy of cancer. *J. Porphyrins Phthalocyanines* **5** 161–169

Allison, R.R., Downie, G.H., Cuenca, R., Hu, X.H., Childs, C.J.H. and Sibata, C.H. (2004). Photosensitizers in clinical PDT, Photodynamic Therapy (PDT). *Photodiagnosis and Photodynamic Therapy* **1** 27-42

Almela, L., Fernández-López, J.A. and Roca, M.J. (2000). High-performance liquid chromatographic screening of chlorophyll derivatives produced during fruit storage. *Journal of Chromatography A* **870** 483–489

Andersen, R.A. (1992). Diversity of Eukaryotic Algae. *Biodiversity and Conservation* **1** 267-292

Aprahamian, M. Evrard, S. Keller, P. Tsuji, M. Balboni, G. Damge, C. and Marescaux, J. (1993). Distribution of Pheophorbide *a* in Normal Tissues and in an Experimental Pancreatic Cancer in Rats. *Anticancer Drug Design* **8(2)** 101-114

Aveline, B., Hasan, T. and Redmond, R.W. (1993). Photophysical and photosensitizing properties of benzoporphyrin derivative monoacid ring *a* (BPD-MA). *Photochemistry and Photobiology* **59** 328-335

Berenbaum, M.C., Bonnett, R., Chevretton, E.B., Akande-adebakin, S.L. and Ruston M. (1993). Selectivity of meso-Tetra (hydroxyphenyl)porphyrins and Chlorins and of Photofrin II in Causing Photodamage in Tumour, Skin, Muscle and Bladder. The Concept of Cost-benefit in Analysing the Results. *Lasers in Medical Science* **8** 235-243

Blumenkranz, M.S., Woodburn, K.W., Fan, Q., Verdooner, S., Kessel, D. and Miller, R. (2000). Lutetium Texaphyrin (Lu-Tex): A Potential New Agent for Ocular Fundus Angiography and Photodynamic Therapy. *American Journal of Ophthalmology* **129** (3) 353-362

Bonnett, R., White, R.D., Winfield, U.J. and Berenbaum, M.C. (1989) Hydroporphyrins of the meso-tetra (hydroxyphenyl) porphyrin series as tumour photosensitizers. *Biochem. J.* **261** 277-280

Bown, S.G., Rogowska, A.Z., Whitelaw, D.E., Lees, W.R., Lovat, L.B., Ripley, P., Jones, L., Wyld, P., Gillams, A. and Hatfield, A.W.R. (2002). Photodynamic therapy for cancer of the pancreas. *Gut* **50** 549–557

Brandis, A.S., Salomon, Y. and Scherz, A. (2006). Chapter 32: Chlorophyll Sensitizers in Photodynamic Therapy. In Bernhard Grimm, Robert J. Porra, Wolfhart Rüdiger and Hugo Scheer (ed), *Chlorophylls and Bacteriochlorophylls: Biochemistry, Biophysics, Functions and Applications*. Netherland: Springer (p. 461–483)

Brandis, A.S., Salomon, Y. and Scherz, A. (2006). Chapter 33: Bacteriochlorophyll Sensitizers in Photodynamic Therapy. In Bernhard Grimm, Robert J. Porra, Wolfhart Rüdiger and Hugo Scheer (ed), *Chlorophylls and Bacteriochlorophylls: Biochemistry, Biophysics, Functions and Applications*. Netherland: Springer (p. 485-494)

Brown, J.E., Brown, S.B. and Vernon, V.I. (1999). Photodynamic Therapy – New Light on Cancer Treatment. *JSDC* **115** 249-253

Burtin, P. (2003). Nutritional Value of Seaweeds. *Electron. J. Environ. Agric. Food Chem.* **2** (4) 498-503 [ISSN 1579-4377]

Calzavara-Pinton, PG. M Venturini, R Sala (2007). Photodynamic Therapy: Update 2006, Part 1: Photochemistry and Photobiology. *Journal compilation European Academy of Dermatology and Venereology* **21** 293–302

Chee, C.F., Lee, H.B., Ong, H.C. and Ho, A.S.H. (2005). Photocytotoxic Pheophorbide- Related Compounds from *Aglaonema simplex*. Verlag Helvetica Chimica Acta AG: *Chemistry & Biodiversity* **2** (12) 1648 - 1655

Chen, X. and Drain, C.M. (2004). Photodynamic Therapy using Carbohydrate Conjugated Porphyrins. *Drug Design Reviews - Online* **1** 215-234

Choi, S-E, Sohn, S., Cho, J-W., Shin, E-A., Song, P-S. and Kang, Y. (2004). 9-Hydroxyphorbide *a*-induced apoptotic death of MCF-7 breast cancer cells is mediated by c-Jun N-terminal kinase activation. *Journal of Photochemistry and Photobiology B: Biology* **73** 101–107

Chowdhary, R.K., Shariff, I. and Dolphin, D. (2003). Photodynamic Therapy of Cancer. *Journal of Pharm. Pharmaceut. Sci.* **6(1)** 13-19

Clark, N. (1999). Reproduction of Algae, Biology Department, Instructional Technology, Pensacola Junior College.
<http://itech.pjc.edu/nclark/biologynm/pdfs/BSC1005lecture15.PDF> (p.1-7)

Cragg, G.M., Grothaus, P.G. and Newman, D.J. (2009). Impact of Natural Products on Developing New Anti-Cancer Agents. *Chem. Rev.* **109 (7)** 3012–3043

Dhargalkar V.K. and Kavlekar, D. (2004). Seaweeds – A field Manual. *National Institute of Oceanography* 1-36

Dhargalkar V.K. and Pereira, N. (2005). Seaweed: promising plant of the millennium. *Article 4, Science and Culture* **71(3-4)** 60-66

Dimofte, A., Timothy C. Zhu, Stephen M. Hahn, Robert A. Lustig (2002). In vivo light dosimetry for motexafin lutetium-mediated PDT of recurrent breast cancer. *Lasers in Surgery and Medicine* **31(5)** 305 – 312

Di Stefano, A., Ettore, A., Sbrana, S., Giovani, C., Neri, P. (2001). Purpurin-18 in combination with light leads to apoptosis or necrosis in HL60 leukemia cells *Photochemistry and Photobiology* **73(3)** 290-296

Dolmans, D.E.J.G.J., Fukumura, D. and Jain, R.K. (2003). Photodynamic therapy for cancer. *Nature Reviews Cancer* **3** 380-387

Edward, J.K.P., Murugan, A. and Patterson, J. (Eds) (2003). Proceedings of the national seminar on Marine Biodiversity as a Source of Food and Medicine. *SDMRI Res. Publ.* **3** (184 pp)

Estey, E.P., Brown, K., Diwu, Z., Liu, J., Lown, J.W., Miller, G.G., Moore, R.B., Tulip, J., McPhee, M.S. (1996). Hypocrellins as photosensitizers for photodynamic therapy: a screening evaluation and pharmacokinetic study. *Cancer Chemother Pharmacol* **37** 343–350

Facts about Cancer. World Health Organization.
<http://www.who.int/mediacentre/factsheets/fs297/en/index.html>

Fenical, W. (1997). New pharmaceuticals from marine organisms. *TIBTECH* **15** 339-341

Fernández, J. J., Souto, M.L. and Norte, M. (1998). Evaluation of the Cytotoxic Activity of Polyethers Isolated from *Laurencia*. *Bioorganic & Medicinal Chemistry* **6** 2237-2243

Ferreira, J., Menezes, P.F.C., Kurachi, C., Sibata, C., Allison R.R. and Bagnato V.S. (2008). Photostability of different chlorin photosensitizers. *Laser Phys. Lett.* **5** (2)156-161

Garbo, G.M. (1996). Purpurins and Benzochlorins as Sensitizers for Photodynamic Therapy. *Journal of Photochemistry and Photobiology B: Biology* **34** 109-116

Garbo, G.M., Kik, P.K., Harrison, L.T., Brun, P.H., Blanc, D., Paulin, P.S., Wieman, T.J. and Fingar, V.H. (2004). Differential vascular response and relationship to tumor response with photodynamic therapy using WST-09 (TOOKAD®). *Optical Methods for Tumor Treatment and Detection: Mechanisms and Techniques in Photodynamic Therapy XIII*, edited by David Kessel, Proc. of SPIE **5315**

Garido, J.L. and Zapata, M. Chapter 8: Chlorophyll Analysis by New High Performance Liquid Chromatography Methods. In Bernhard Grimm, Robert J. Porra, Wolfhart Rüdiger and Hugo Scheer (ed) *Chlorophylls and Bacteriochlorophylls: Biochemistry, Biophysics, Functions and Applications*, The Netherlands Springer (p.109-119)

Guiry, M. (2007). Phaeophyceae: Brown Algae.
<http://www.seaweed.ie/algae/phaeophyta.html>

Hamann, M.T. and Paul J. Scheuer, P.J. (1993). Kahalalide F A Bioactive Depsipeptide from the Sacoglossaa Mollusk *Elysia rufescens* and the Green Alga *Bryopsis* sp. *J. Am. Chem. Society.* **115** 5825-5826

Hajri, A. Wack, S. Meyer, C. Smith, M. K. Leberquier, C. and Keding, M. (2002). In vitro and in vivo efficacy of photofrin and pheophorbide a, a bacteriochlorin in photodynamic therapy of colonic cancer cells. *Photochemistry and Photobiology* **75**(2) 140-148

Hajri, A., Coffy, S., Vallat, F., Evrard, S., Marescaux, J. and Aprahamian, M. (1999). Human pancreatic carcinoma cells are sensitive to photodynamic therapy in vitro and in vivo. *British Journal of Surgery* **86** (7) 899-906

Hay, M.E. and Fenical, W. (1996). Chemical Ecology and Marine Biodiversity: Insights and Products from the Sea. *Oceanography* **9**(1) 10-20

He, J.A., Hu, Y.Z. and Jiang L.J. (1997). Photodynamic action of phycobiliproteins: in situ generation of reactive oxygen species. *Biochimica et Biophysica Acta* **1320** 165–174

He, Y.Y., Liu, H.Y., An, J.Y., Han, R. and Jiang, L.J. (2000). Photodynamic action of hypocrellin dyes: structure-activity relationships. *Dyes and Pigments* **44** 63-67

Hiroishi, S., Sugie, K., Yoshida, T., Morimoto, J., Taniguchi, Y., Imai, S. and Kurebayashi, J. (2001). Antitumor effects of *Marginisporum crassissimum* (Rhodophyceae), a marine red alga. *Cancer Letters* **167** 145-150

Hörtensteiner, S., Wüthrich, K.L., Matile, P., Ongania and K., Kräutler, B. (1998). The Key Step in Chlorophyll Breakdown in Higher Plants. Cleavage of Pheophorbide-*a* Macrocycle by a Monooxygenase. *The Journal of Biological Chemistry* **273**(25) 15335–15339

Hörtensteiner, S. (1999). Chlorophyll breakdown in higher plants and algae. *Cellular and Molecular Life Sciences* **56** 330–347

Hynninen, P.H. and Assandri, S. (1973). Chlorophylls II. Allomerization of chlorophyll- *a* and *b*. *Acta Chimica Scandinavica* **27** 1478-1486

Hynninen, P.H. and Hyvärinen, K. (2002). Tracing the Allomerization Pathways of Chlorophylls by ¹⁸O-Labeling and Mass Spectrometry. *J. Org. Chem.* **67** 4055-4061

I.J. Macdonald and T. J. Dougherty (2001). Basic Principles of Photodynamic Therapy. *J. Porphyrins Phthalocyanines* **5** 105–129

Ismail, A. and Tan S.H. (2002). Antioxidant Activity of Selected Commercial Seaweeds. *Mal J Nutr* **8**(2) 167-177

Jeffrey, S.W. (1976). The Occurrence of Chlorophyll c_1 and c_2 in Algae. *J. Phycol.* **12** 349-354

Jimeno, J., López-Martín, J.A., Ruiz-Casado, A., Izquierdo, M.A., Scheuer, P.J. and Rinehart, K. (2004). Progress in the clinical development of new marine-derived anticancer compounds. *Anti-Cancer Drugs* **15** 321–329

Kijjoa, A and Sawangwong, P. (2004). Drugs and Cosmetics from the Sea. *Marine Drugs* **2** 73-82

Kim, K. K., Kawano, Y. and Yamazaki, Y. (2003). A novel porphyrin photosensitizer from bamboo leaves that induces apoptosis in cancer cell lines. *Anticancer Research* **23(3B)** 2355-2361

Klass, D.L. (2004). Biomass for Renewable Energy and Fuels, *Encyclopedia of Energy, Elsevier* **1** 193-212

Kobayashi, M., Akiyama, M., Kano, H. and Kise, H. (2006) Chapter 6: Spectroscopy and Structure Determination. In Bernhard Grimm, Robert J. Porra, Wolfhart Rüdiger and Hugo Scheer (ed) *Chlorophylls and Bacteriochlorophylls: Biochemistry, Biophysics, Functions and Applications*, The Netherlands Springer (p.79–94)

Kondo, K., Miyoshi, T., Fujino, H., Takizawa, H., Imai, S., Kobayashi, N., Kenzaki, K., Sakiyama, S. and Tangoku, A. (2007). Photodynamic therapy using a second generation photosensitizer. Talaporfin. *Photodiagnosis and Photodynamic Therapy* **4(4)** 269-274

Larkum, A.W.D and Hühl, M. (2005). Chlorophyll d : The Puzzle Resolved. *Trends in Plant Science* **10(8)** 355-357

Lee, W.Y., Lim, D.S., Ko, S.K., Park, Y.J., Ryu, K.S., Ahn, M.Y., Kim, Y.R., Lee, D.W. and Cho, C.W. (2004). Photoactivation of pheophorbide a induces a mitochondrial-mediated apoptosis in Jurkat leukaemia cells. *Journal of Photochemistry and Photobiology B: Biology* **75** 119–126

Lim, D.S., Ko, S.H. and Lee, W.Y. (2004). Silkworm-pheophorbide a mediated photodynamic therapy against B16F10 pigmented melanoma. *Journal of Photochemistry and Photobiology B: Biology* **74** 1–6

Lim, C.C.G. (2002). Overview of Cancer in Malaysia. *Japan Journal of Clinical Oncology* **32** (Supplement 1) S37-S42

Lim, C.C.G. and Yahya, M. (2003). Second Report of the National cancer registry Cancer incidence in Malaysia. *National Cancer Registry, Ministry of Health*

Ling, S.K., Chee, C.F., Lee, H.B., Ho, A.S.H, Rasadah, M.A., Zainon, A.S., Khoo, M.G.S. and Norhayati, A. (2006). Screening of Selected Species of Malaysian Medicinal Plants for Photodynamic Properties. *Highlights of FRIM's Non-IRPA Projects* 53-7

Maiya B.G. (2000). Photodynamic Therapy: Old and New Photosensitizers. *Resonance* **5** (4) 15-29

Malaysian Cancer Statistics- data and figure Peninsular malaysia (2006). Edited by Omar, Z.A., Ali, Z.M. and Tamin, N.S.I. *Cancer Registry, Ministry of Health Malaysia*

Martín-Algarra, S., Enrique Espinosa, E., Rubió, J., López, J.J.L., Manzano, J.L., Carrión, L.A., Plazaola, A., Tanovic, A., and Paz-Ares, L. (2009). Phase II study of weekly Kahalalide F in patients with advanced malignant melanoma. *European Journal of Cancer* **45** 732-735

Mayer, A.M.S. and Gustafson, K.R. (2006) Marine pharmacology in 2003–2004: Anti-tumour and cytotoxic compounds. *European Journal of Cancer* **42**(14) 2241-2270

McDermid, K.J. and Stuercke, B. (2003). Nutritional composition of edible Hawaiian seaweeds, *Journal of Applied Phycology* **15** 513–52

Mody, T.D. and Sessler, J.L. (2001). Texaphyrins: a new approach to drug development. *J.Porphyrins Phthalocyanines* **5** 134-142

Mohammed K.A., Hossain, C.F., Zhang, L., Bruick, R.K., Zou, Y. and Nagle, D.G. (2004). Laurenditerpenol, a New Diterpene from the Tropical Marine Alga *Laurencia intricata* that Potently Inhibits HIF-1 Mediated Hypoxic Signaling in Breast Tumor Cells. *J. Nat. Prod.* **67** 2002-2007

Mohamed Ali, S., Soo, K.C., Gan Y.Y. and Olivo, M. (2001). Hypericin and hypocrellin induced apoptosis in human mucosa carcinoma cells. *Journal of Photochemistry and Photobiology B: Biology* **65** 59–73

Moore, C.M., Nathan, T.R., Lees, W.R., Mosse, C.A., Freeman, A., Emberton, M., Bown, S.G. (2006). Clinical Reports, Photodynamic therapy using meso tetra hydroxy phenyl chlorin (mTHPC) in early prostate cancer. *Lasers in Surgery and Medicine* **38** (5) 356 – 363

Morcos, N.C., Zaldivar, F., Lo, H.M., Henry, W.L. (1991). Bovine coronary artery endothelium: culture, characterization, angiogenesis and sensitivity to laser photodynamic treatment modalities. *J Clin Lab Immunol.* **4**(3) 99-106

Morimoto, T., Nagatsu, A., Murakami, N., Sakakibara, T.J., Tokuda, H., Nishino, H. and Iwashima, A. (1995). Anti-Tumour-Promoting Glyceroglycolipids from the Green Alga, *Chlorella Vulgaris*. *Phytochemistry* **40**(5) 1433-1437

Morlière, P., Mazière, J.C., Santus, R., Smith, C.D., Prinsep, M.R., Stobbe, C.C., Penning, M.C., Golberg, J.L. and Chapman, J.D. (1998). Tolyporphin: A Natural Product from Cyanobacteria with Potent Photosensitizing Activity against Tumor Cells in Vitro and in Vivo. *Cancer Research* **58** 3571-3578

Mosmann TJ (1983) Rapid colorimetric assay for cellular growth and survival: application to proliferation and cytotoxicity assays. *J Immunol Methods* 65:55–63.

Naylor, C.C. and Keely B. J. (1998). Sedimentary purpurins: oxidative transformation products of Chlorophylls. *Organic Geochemistry* **28** (7-8) 417-422

Norziah, M.H. and Chio Y.C. (2000) Nutritional composition of edible seaweed *Gracilaria changi*. *Food Chemistry* **68** 69-76

Nowis D., Stokłosa, T., Legat, M., Issat T., Marek Jakóbiśiak and Jakub Gołąb (2005). The influence of photodynamic therapy on the immune response. *Photodiagnosis and Photodynamic Therapy* **2** 283–298

Nyman, E.S. and Hynninen, P.H. (2004). Research advances in the use of tetrapyrrolic photosensitizers for photodynamic therapy. *Journal of Photochemistry and Photobiology B: Biology* **73** 1–28

Ocampo, R., and Repeta, D.J. (1999). Structural determination of purpurin-18 (as methyl ester) from sedimentary organic matter. *Organic Geochemistry* **30** 189-193

Osswald, J., Rellanc, S., Gago, A. and Vasconcelos, V. (2007). Toxicology and detection methods of the alkaloid neurotoxin produced by cyanobacteria, anatoxin-a. *Environment International* **33** 1070–1089

Pádula, M., Boiteux, S., Felzenszwalb, I. and Menezes S. (1996). Photodynamic action of phycocyanin: damage and repair. *Journal of Photochemistry and Photobiology B: Biology* **32** 19-26

Paine, J.R. (1997). Asia-Pacific Forestry Sector Outlook Study Working Paper Series, Working Paper No: APFSOS/WP/04, Status, Trends And Future Scenarios In *Forest Conservation Including Protected Areas In The Asia-Pacific Region*, , Forestry Policy and Planning Division, Rome Regional Office for Asia and the Pacific, Bangkok.

Palumbo, G. (2007). Photodynamic Therapy and Cancer: A Brief Sightseeing Tour. *Expert Opinion Drug Delivery* **4(2)** 1-18

Pandey, R.K. (2000). Recent advances in photodynamic therapy. *J. Porphyrins Phthalocyanines* **4** 368–373

Pandey, R.K., Constantine, S., Goff, D.A., Kozyrev, A.N., Dougherty, T.J. and Smith, K.M. (1996). Chlorophyll-a Derivatives in Photodynamic Therapy: Effect of Position of Heptyl Ether Side-Chains on *in vivo* Photosensitizing Activity. *Bioorganic and Medicinal Chemistry Letters* **6(1)** 105-110

Pandey, R.K., Shiau, F.Y., Sumlin, A.B., Dougherty, T.J. and Smith, K.M. (1992). Structure/Activity Relationships among Photosensitizers Related to Pheophorbides and Bacteriopheophorbides. *Bioorganic and Medicinal Chemistry Letters* **2(5)** 491-496

Pec, M.K., Aguirre, A., Moser-Their, K., Fernández, J.J., Souto, M.L., Dorta, J., Díaz-González, Villar, J. (2003). Induction of apoptosis in estrogen dependent and independent breast cancer cells by the marine terpenoid dehydrothysiferol. *Biochemical Pharmacology* **65** 1451–1461

Pervaiz,S. (2001). Reactive Oxygen- dependent Production of Novel Photochemotherapeutic Agents. *FASEB Journal* **15** 612-617

Phaeophyta: Life History and Ecology, University of California, Museum of Paleontology. <http://www.ucmp.berkeley.edu/chromista/browns/phaeolh.html>

Phang, S.M (1994). New Records of Malaysian Marine Algae. *Hydrobiologia* **285** 123-129

Phang, S. M. (1998). The Seaweed Resources of Malaysia. In: A. T. Critchley, M. Ohno (eds) *Seaweed Resources of the World* (pp. 79–91)

Phang, S.M. (2006). Seaweed resources in Malaysia: Current status and future prospects. *Aquatic Ecosystem Health & Management* **9(2)** 185–202

Prinsep, M.R., Caplan, F.R., Moore, R.E., Patterson, G.M.L. and Smith, C.D. (1992). Tolyporphin, a Novel Multidrug Resistance Reversing Agent from the Blue-Green Alga *Tolypothrix nodosa*., *J. Am. Chem. SOC.* **114** 385-387

Proksch, P., Edrada-Ebel, R. and Ebel, R. (2003). Drugs from the Sea: Opportunities and Obstacles. *Mar. Drugs* **1** 5-17

Rademaker-Lakhai, J.M., Horenblas, S., Meinhardt, W., Stokvis, E., M. de eijke, T., Jimeno, J.M., Lopez-Lazaro, L., Martin, J.A.L., Beijnen, J.H. and Schellens, J.J.M. (2005). Phase I Clinical and Pharmacokinetic Study of Kahalalide F in Patients with Advanced Androgen Refractory Prostate Cancer. *Clinical Cancer Research* **11** 1854–1862

Razum, N.J., Snyder, A.B. and Doiron, D.R. (1996) SnET2: clinical update. In Thomas J. Dougherty (ed) *Proceedings of SPIE 2675, Optical Methods for Tumor Treatment and Detection: Mechanisms and Techniques in Photodynamic Therapy V* (p. 43-46)

Rogers, B.H.G. (2005). Chapter 11 Photodynamic Therapy: Clinical Aspects. In Grossweiner, L.I (co-author). *The Science of Phototherapy: An Introduction*, Springer (p.275-297)

Ross, A.B., Jones, J.M., Kubacki, M.L. and Bridgeman, T. (2008). Classification of macroalgae as fuel and its thermochemical behavior. *Bioresource Technology* **99** 6494–6504

Rupérez, P. (2002). Mineral Contents of Edible Marine Seaweeds. *Food Chemistry* **79** 23–26

Scheer, H. (2006). Chapter 1: An Overview of Chlorophylls and Bacteriochlorophylls: Biochemistry, Biophysics, Functions and Applications. In Bernhard Grimm, Robert J. Porra, Wolfhart Rüdiger and Hugo Scheer (ed) *Chlorophylls and Bacteriochlorophylls:*

Biochemistry, Biophysics, Functions and Applications, The Netherlands Springer (p.1-26)

Schmidt-Erfurth, U. and Hasan, T. (2000). Mechanisms of Action of Photodynamic Therapy of Verteporfin for the Treatment of Age-Related Macular Degeneration. *Survey of Ophthalmology* **45(3)** 195-214

Seago, D.P., MacDonald, I., Intengan, M., Lele, S.B. and Dougherty, T.J. (2001). Evaluation of Photochlor-Mediated PDT for Treatment of Ovarian Cancer. *Proceedings of the American Society of Clinical Oncology* **20**

Sieron, A., Kawczyk-Krupka, A., Adamek, M., Biniszkiewicz, T., Birkner, B., Ledwon, A. (2006). Photodynamic diagnostics and therapy of premalignant lesions and cancer – own eight year clinical experience. *Proceedings of the Symposium on Photonics Technologies for 7th Framework Program, Wroclaw* 316-324

Simmons, T.L., Andrianasolo, E., McPhail, K., Flatt, P. and Gerwick, W.H. (2005). Marine Natural Products as Anticancer Drugs. *Molecular Cancer Therapeutics* **4(2)** 333-342

Sims, J.J., Donnell, M.S., v. Leary, J. and Lacy, G.H. (1975). Antimicrobial agents from Marine Algae. *Antimicrobial Agents and Chemotherapy* **7(3)** 320-321

Smit, A.J. (2004). Medicinal and Pharmaceutical Uses of Seaweed Natural Products: A Review. *Journal of Applied Phycology* **16** 245–262

Sogawa, K., Yamada, T., Sumida, T., Hamakawa, H., Kuwabara, H., Matsuda, M., Muramatsu, Y., Kose, H., Matsumoto, K., Sasaki, Y., Okutani, K., Kondo, K. and Monden, Y. (2000). Induction of apoptosis and inhibition of DNA topoisomerase-*α* in k-562 cells by a MOE microalgae polysaccharide. *Pharmacology Letters* **66(16)** 227-231

Stavropoulos, N.E., Kim, A., Nseyo, U.U., Tsimaris, I., Chung, T.D., Miller, T.A., Redlak, M., Nseyo, U.O., D. Skalkos, D. (2006). *Hypericum perforatum* L. extract – Novel photosensitizer against human bladder cancer cells. *Journal of Photochemistry and Photobiology B: Biology* **84** 64–69

Sternberg, E.D. and Dolphin, D. (1998) Porphyrin-based Photosensitizers for Use in Photodynamic Therapy. *Tetrahedron* **54** 4151–4202

Sze, P. (1998) Red Algae (Division Rhodophyta), *A Biology of Algae, 3rd Edition*. WCB/McGraw-Hill (p.151-178)

Taber, S.W., Fingar, V.H., Coots, C.T. and Wieman, T.J. (1998). Photodynamic Therapy Using Mono-L-aspartyl Chlorin *e6* (Npe6) for the Treatment of Cutaneous Disease: A Phase I Clinical Study. *Clinical Cancer Research* **4** 2741-274

Triesscheijn, M., Baas, P., Schellens, J.H.M. and Stewart, F.A. (2006). Photodynamic Therapy in Oncology. *The Oncologist* **11** 1034–1044

Triesscheijn, M., Ruevekamp, M., Out, R., Berkel, T.J.C.V., Schellens, J., Baas, P. and Stewart, F.A. (2007). The pharmacokinetic behavior of the photosensitizer meso-tetrahydroxyphenyl-chlorin in mice and men. *Cancer Chemother Pharmacol* **60** 113–122

Umemura, K., Yanase, K., Suzuki, M. Okutani, K., Yamori, T. and Ando, T. (2003). Inhibition of DNA topoisomerases I and II, and growth inhibition of human cancer cell lines by a marine microalgal polysaccharide. *Biochemical Pharmacology* **66** 481–487

Umemura, K. Yumita, N. Nishigaki, R. and Umemura, S. (1996). Sonodynamically induced antitumor effect of pheophorbide a. *Cancer Lett* **102** (1-2) 152-157

Usuda, J., Tsutsui, H., Honda, H., Ichinose, S., Ishizumi, T., Hirata, T., Inoue, T., Ohtani, K., Maehara, S., Imai, K., Tsunoda, Y., Kubota, M., Ikeda, N., Furukawa, K., Okunaka, T. and Kato, H. (2007) Photodynamic therapy for lung cancers based on novel photodynamic diagnosis using talaporfin sodium (NPe6) and autofluorescence bronchoscopy. *Lung Cancer* **58**, 317–323

Vairappan, C.S. (2003). Potent antibacterial activity of halogenated metabolites from Malaysian red algae, *Laurencia majuscula* (Rhodomelaceae, Ceramiales). *Biomolecular Engineering* **20** 255-259

Visudyne, Novartis.
http://www.us.novartisophthalmics.com/info/products/visudyne.jsp?usertrack.filter_applied=true&NovaId=3350119519805769634

Vollmer, J.J. and Rosenson, J. (2004). Chemistry of St. John's Wort: Hypericin and Hyperforin. *Journal of Chemical Education* **81** (1) 1450-1456

Wainwright, M. (1996). Non-porphyrin Photosensitizers in Biomedicine. *Chemical Society Reviews* 351-359

Wöhrle, D., Muller, S., Shopova, M., Mantareva, V., Spassova, G., Vietri, F., Ricchelli, F. and Jori, G. (1999) Effect of delivery system on the pharmacokinetic and phototherapeutic properties of bis (methoxyethyleneoxy) silicon-phthalocyanine in tumor-bearing mice. *Journal of Photochemistry and Photobiology. B: Biology* **50** 124-128

Wong, T.W., Aizawa, K., Sheyhedin, I., Wushur C.M.G and Kato, H. (2003). Pilot Study of Topical Delivery of Mono-L-aspartyl Chlorin e6 (NPe6): Implication of Topical NPe6-Photodynamic Therapy. *Pharmacol Sci* **93** 136 – 142

Xu, S., Chen, S., Zhang, M., Shen, T., Zhao, Y., Liu, Z. and Wu, Y. (2001). Butylamino-demethoxy-hypocrellins and photodynamic therapy decreases human cancer in vitro and in vivo. *Biochimica et Biophysica Acta* **1537** 222-232

Young, S.W., Woodburn, K.W., Wright, M., Mody, T.D., Fan, Q., Sessler, J.L., Dow, W.C. and Miller, R.A. (1996). Lutetium texaphyrin (PCI-0123): a near-infrared, water-soluble photosensitizer. *Photochem Photobiol.* **63(6)** 892-7

Zapata, M., Garido, J.L. and Jeffrey, S.W. (2006). Chapter 3: Chlorophyll *c* Pigment: current status. In Bernhard Grimm, Robert J. Porra, Wolfhart Rüdiger and Hugo Scheer (ed) *Chlorophylls and Bacteriochlorophylls: Biochemistry, Biophysics, Functions and Applications*, The Netherlands Springer (p.40-50)

Zhang, J., Cao, E.H., Li, J.F., Zhang, T.C. and Ma, W.J. (1998). Photodynamic effects of hypocrellin in A on three human malignant cell lines by inducing apoptotic cell death. *Journal of Photochemistry and Photobiology B: Biology* **43** 106-111

Zeitouni, N.C., Oseroff, A.R. and Shieh, S. (2003). Photodynamic therapy for nonmelanoma skin cancers: Current review and update. *Molecular Immunology* **39** 1133–1136

Zemke-White, W.L. and Ohno, M. (1999). World seaweed utilisation: An end-of-century summary. *Journal of Applied Phycology* **11** 369–376