

VIDENSKABELIGE PUBLIKATIONER

H. Lund and S. Kwee: Polarography and reduction of Benzotriazole and related compounds. *Acta Chem. Scand.* 22 (1968) 2879-2889.

S. Kwee and H. Lund: Electrochemical preparation of Benzo-1,2,4-triazines. *Acta Chem. Scand.* 23 (1969) 2711-2716.

S. Kwee and H. Lund: Polarography and reduction of some 4-substituted Quinazolines. *Acta Chem. Scand.* 25 (1971) 1813-1821.

S. Kwee and H. Lund: Electrochemistry of some 4-substituted Quinazolines and 6-substituted Purines. *Biological Aspects of Electrochemistry. Experientia Supplementum* 18 (1971) 387-394.

S. Kwee and H. Lund: Electrolytic reduction of some substituted Purines. *Acta Chem. Scand.* 26 (1972) 1195-1200.

S. Kwee and H. Lund: Electrochemistry of some substituted Pteridines. *Biochem. Biophys. Acta* 297 (1973) 285-296.

S. Kwee and H. Lund: Indirect electrolysis of macromolecules by means of Pteridine mediators. *Bioelectrochem. Bioenerg.* 1 (1974) 87-95.

S. Kwee and H. Lund: Indirect electrochemical reduction of proteins. *Bioelectrochem. Bioenerg.* 2 (1975) 231-244.

S. Kwee: Pteridone mediators in the electrolysis of biological macromolecules in *Chemistry and Biology of Pteridines*. W. Pfliegerer ed. Walter de Gruyter. Berlin. New York 1976, pp. 671-680.

S. Kwee: The electrochemical reduction of disulphide bonds in proteins. II. *Bioelectrochem. Bioenerg.* 3 (1976) 264-271.

E. Palecek and S. Kwee: Interaction of nucleic acids with electrically charged surfaces. Part V. *Coll. Czech. Chem. Comm.* 44 (1979) 448-455.

S. Kwee and H. Lund: Electrochemical preparation of tetrahydrofolic acid and related compounds in *Chemistry and Biology of Pteridines*, R.L. Kisliuk and G.M. Brown eds. Elsevier/North Holland. New York 1979, pp. 247-252.

S. Kwee and H. Lund: Preparation of Tetrahydrofolic acid and related compounds by electrochemical methods. *Bioelectrochem. Bioenerg.* 6 (1979) 441-450.

S. Kwee and H. Lund: Asymmetric reduction of L-Folic acid at chiral electrodes. *J. Electroanal. Chem.* 116 (1980) 693-698.

J.V. Møller, M. le Maire, S. Kwee and J.P. Andersen: Mode of interactions of membrane proteins with detergents. In *Surface Chemistry*, K.S. Birdi ed. Copenhagen 1982.

M. le Maire, S. Kwee, J.P. Andersen and J.V. Møller: Mode of interaction of polyoxyethyleneglycol detergents with membrane proteins. *Eur. J. Biochem.* 129 (1983) 525-532.

S. Kwee: Electrochemistry of the C₉-N₁₀ bond in Folic acid and related compounds. *Bioelectrochem. Bioenerg.* 11 (1983) 467-475.

S. Kwee: A novel mediator for the investigation of the electrochemistry of metalloproteins. *Bioelectrochem. Bioenerg.* 16 (1986) 99-109.

S. Kwee: Mechanism of electrochemical oxidation of Tetrahydropterin derivatives in *Chemistry and Biology of Pteridines*. B.A. Cooper and W.M. Whitehead eds. W. de Gruyter. Berlin 1986, pp. 73-76.

S. Kwee, J.V. Møller and M. le Maire: Binding of detergents by membrane proteins in *Surfactants in Solution, theoretical and applied aspects*. K.L. Mittal ed. Plenum Press. New York 1987, pp. 853-859.

S. Kwee: Reactions of Tetrahydropterins with oxygen and with other one-electron acceptors. *Bioelectrochem. Bioenerg.* 18 (1987) 79-89.

S. Kwee: Electrochemical studies on the generation of active oxygen species in biological systems with the use of mediators in *Redox Chemistry and Interfacial Behaviour of Biological molecules*. G. Dryhurst ed. Plenum Press. New York 1988, pp. 407-415.

J.E. Celis, G.P. Ratz, A. Celis, P. Madsen, B. Gesser, S. Kwee, H.V. Nielsen, H. Yde, J.B. Lauridsen and B. Basse. Towards establishing a comprehensive database of protein information from transformed human amnion cells. *Electrophoresis* 88 (1988) 295-312.

J.E. Celis, G.P. Ratz, A. Celis, P. Madsen, B. Gesser, S. Kwee, P.S. Madsen, H.V. Nielsen, H. Yde, J.B. Lauridsen and B. Basse. Towards establishing comprehensive databases of cellular proteins from transformed human epithelial amnion cells (AMA) and normal peripheral blood mononuclear cells. *Leukemia* vol. 2 No. 9 (1988) 561-601.

J.E. Celis, G.P. Ratz, P. Madsen, B. Gesser, J.B. Lauridsen, S. Kwee, H.H. Rasmussen, H.V. Nielsen, D. Crüger, B. Basse, H. Leffers, B. Honoré, O. Møller, A. Celis, J. Vandekerckhove, G. Bauw, J. van Damme, M. Puype and M. van den Bulcke. Comprehensive, human cellular protein databases and their implication for the study of genome organization and function. *FEBS Lett.* **241** (1989) 247-254

J.E. Celis, G.P. Ratz, P. Madsen, B. Gesser, J.B. Lauridsen, K.-P. Brogaard-Hansen, S. Kwee, H.H. Rasmussen, H.V. Nielsen, D. Crüger, B. Basse, H. Leffers, B. Honoré, O. Møller and A. Celis. Computerized, comprehensive databases of cellular and secreted proteins from normal human embryonic lung MRC-5 fibroblasts: identification of transformation and/or proliferation sensitive proteins. *Electrophoresis* 10 (1989) 76-115.

J.E. Celis, P. Madsen, B. Gesser, S. Kwee, H.V. Nielsen, H.H. Rasmussen, B. Honoré, H. Leffers, G.P. Ratz, B. Basse, J.B. Lauridsen and A. Celis. Protein databases based on the

analysis of two-dimensional gels. *Adv. in Electrophoresis* 3 (1989) 3-179.

S. Kwee, H.V. Nielsen, J.E. Celis, A. Celis and P.S. Madsen. Permeabilization of mammalian cells in monolayer culture by electroporation at low electric field strengths. *Studio Biophysica* 130 (1989) 173-176.

S. Kwee, H.V. Nielsen and J.E. Celis. Electroporation of human cultured cells grown in monolayers. Incorporation of monoclonal antibodies. *Bioelectrochem. Bioenerg.* **23**(1990) 65-80

S. Kwee and J.E. Celis. Electroporation as a tool to study cell proliferation and DNA-synthesis in human cultured cells grown in monolayers. *Bioelectrochem. Bioenerg.* **25** (1991) 325-332.

S. Kwee, B. Gesser and J.E. Celis: Electroporation of human cultured cells grown in monolayers. Part 3. Transformed cells and primary cells. *Bioelectrochem. Bioenerg.* **28** (1992) 269-278.

S. Kwee, B. Gesser and J.E. Celis: Electroporation of human cultured cells grown in monolayers. II. Control of cell proliferation and DNA replication in charge and field effects in biosystems - 3. M.J. Allen, S.F. Cleary, A.E. Sowers and D.D. Shillady eds. Birkhäuser, Boston 1992, pp. 217-225.

S. Kwee and P. Raskmark: Changes in cell proliferation due to environmental electromagnetic fields in Charge and field effects in biosystems - 4. M.J. Allen, S.F. Cleary, A.E. Sowers and D.D. Shillady eds. World Scientific Publishing Co, Singapore 1994, pp. 255-260.

S.Kwee and P. Raskmark: Changes in cell proliferation due to environmental non-ionizing radiation. 1. ELF electromagnetic fields. *Bioelectrochem. Bioenerg.* **36**(1995) 109-114.

P. Raskmark and S. Kwee: The minimizing effect of electromagnetic noise on the changes in cell proliferation caused by ELF magnetic fields. *Bioelectrochem. Bioenerg.* **40** (1996) 193-196.

S. Kwee and P. Raskmark: RF electromagnetic fields and cell proliferation in 5th Nordic Workshop on Biological Effects of Low Frequency Electromagnetic Fields. A. Johnsson and G. Oftedal eds. Norwegian Radiation Protection Authority Strålevern rapport 1997:6 pp.27-28.

S. Kwee and P. Raskmark: Changes in cell proliferation due to environmental non-ionizing radiation - 2. Microwave radiation. *Bioelectrochem. Bioenerg.* **44**(1998) 251-255

S. Kwee and P. Raskmark: Radiofrequency electromagnetic fields and cell proliferation, in F. Bersani (Ed.) *Electricity and Magnetism in Biology and Medicine*, Plenum, New York, 1999, p.187-191

S. Kwee: Preface: Chairman's report on 14th International Symposium Bioelectrochemistry & Bioenergetics 1998, Denmark. *Bioelectrochem. Bioenerg.* **47** (1998) p. 1-2.

S. Velizarov, P. Raskmark and S. Kwee: The effects of radiofrequency fields on cell proliferation are non-thermal. *Bioelectrochem. Bioenerg.* **48** (1999) 177-181

S. Kwee, P. Raskmark and S. Velizarov: Changes in cellular proteins due to environmental non-ionizing radiation. 1. Heat shock proteins. *Electro- and Magnetobiology* 20(2) (2001) 165-176.

S. Kwee: Effets des champs de micro-ondes des téléphones mobiles sur la croissance des cellules vivantes in P. Lannoye (ed.) *Téléphone Mobile, Collection Resurgence*, Editions Marco Pitteur, Embourg(Belgium) 2001, p.121-141.

S. Kwee and S. Velizarov: Effects of electromagnetic fields on cell proliferation and signal transduction. Biological effects of EMFs, in P. Kostarakis (ed.) *Proceedings 2nd International Workshop on Biological effects of EMFs*, Rhodes (Greece) 2002, p.433 - 437.

S. Kwee: Effects of concentration changes in certain cellular proteins due to microwave radiation, in P. Kostarakis (ed.) *Proceedings 3rd International Workshop on Biological effects of EMFs*, Kos (Greece) 2004, p.387 - 392.

S. Kwee: Absence of linear correlation between biological effects and power density in the non-thermal RF radiation range, in P. Kostarakis (ed.) *Proceedings 4th International Workshop on Biological effects of EMFs*, Crete (Greece) 2006, p. 401 - 406.

ABSTRACTS/ FOREDRAG

S. Kwee and H. Lund. Electrochemistry of some Benzotriazines. 135th National Meeting of the Electrochemical Society, New York 1969. Abstract no. 143.

S. Kwee. Electrochemical preparation of Benzotriazines. Skandinavisk møde for elektrokemi, Aarhus 1969.

S. Kwee. Electrochemistry of some 4-substituted Quinazolines. Skandinavisk møde for elektrokemi, Aarhus 1970.

S. Kwee. Electrochemistry of some 4-substituted Quinazolines and 6-substituted Purines. 1st CITCE Symposium on Biological Aspects of Electrochemistry, Rome 1971.

S. Kwee. Electrochemistry of some biological compounds. EUCHEM Conference of Organic Electrochemistry, Rønneby Brunn 1971.

S. Kwee and H. Lund. Electrochemistry of some Pteridines, FEBS 8th Meeting, Amsterdam 1972, Abstract No. 1159.

S. Kwee. Electrode reactions of some systems of biological interest. 3rd Scandinavian Meeting on Organic Electrochemistry, Sandbjerg Gods, 1972.

S. Kwee. Electrochemical reduction of biological macromolecules with the help of mediators. 2nd International Symposium on Bioelectrochemistry, Pont-à-Mousson 1973.

S. Kwee. The electrochemical reduction of NAD^+ and oxidation of NADH in the presence of mediators. NAD-workshop, Créteil (Paris) 1973.

S. Kwee. Pteridine mediators in the electrolysis of biological macromolecules. 5th International Pteridine Symposium, Konstanz 1975.

S. Kwee. The electrochemical reduction of disulphide bonds in proteins. 3rd International Symposium on Bioelectrochemistry, Jülich 1975.

S. Kwee. The electrochemistry of folic acid and some folic acid derivatives. 6th Scandinavian Meeting on Organic Electrochemistry, Sandbjerg Gods, 1976.

S. Kwee. The electrochemistry of some tetrahydrofolate derivatives. Symposium on Organic Electrochemistry, Sandbjerg Gods, 1978.

S. Kwee. Electrochemistry of folic acid and some tetrahydrofolic acid derivatives. 6th International Symposium on the Chemistry and Biology of Pteridines, La Jolla, 1978.

S. Kwee. Asymmetric reduction of L-Folic acid at chiral electrodes. 5th International Symposium on Bioelectrochemistry and Bioenergetics, Weimar 1979.

S. Kwee. Electrochemical reduction of optically active alkaloids and their N-methylated derivatives. J. Heyrovsky Memorial Congress on Polarography, Prag 1980.

S. Kwee. Electrochemical transformation of biomass to liquid fuels. 6th International Symposium on Bioelectrochemistry and Bioenergetics, Israel 1981.

S. Kwee. Indirect electrochemical reduction of carbohydrates. Sandbjerg Meeting 1982 on Organic Electrochemistry.

S. Kwee. Electrochemistry of the C₉-N₁₀ bond in folic acid and related compounds. 7th International Symposium on Bioelectrochemistry and Bioenergetics, Stuttgart 1983.

S. Kwee. Mode of interaction of polyoxyethyleneglycol detergents with membrane proteins. 5th International Symposium on Surfactants in Solution, Bordeaux 1984.

S. Kwee. Novel compounds for the investigation of the electrochemistry of metalloproteins. 8th International Symposium on Bioelectrochemistry and Bioenergetics. Bologna 1985.

S. Kwee. Mechanism of electrochemical oxidation of tetrahydropterin derivatives. 8th International Symposium on Chemical, Biological and Clinical Aspects of Pteridines and Folic acid derivatives, Montreal 1986.

S. Kwee. Reactions of Tetrahydropterins with oxygen and other one-electron acceptors. Specialized Symposium on Formation and Reactions of Peroxides in Biological Systems, - Obernai 1986.

S. Kwee. Studies on the reduction of oxygen in biological systems. 9th International Symposium on Bioelectrochemistry and Bioenergetics. Széged 1987.

S. Kwee. Electroanalytical studies on the generation of active oxygen species in biological systems with the use of mediators. 172nd Meeting of The Electrochemical Society Inc., Honolulu, 1987.

S. Kwee. Permeabilization of mammalian cells in monolayer culture by electroporation at low electric field strength. 12th Jena Symposium on Biophysical Chemistry, Weimar 1988.

S. Kwee. Electroporabilization of mammalian cells in monolayer culture in low electric fields. 10th International Conference on Bioelectrochemistry and Bioenergetics, Pont-à-Mousson 1989.

S. Kwee. Electroporabilization as a tool to study cell growth control. International Interdisciplinary Symposium "Electromagnetic field effects on molecules and biological cells - Biotechnical applications. Bielefeld 1990.

S. Kwee. Electroporabilization of human cultured cells grown in monolayers. International Symposium on Charge and Field Effects in Biosystems - III. Richmond 1991.

S. Kwee. Does structure play a role in the uptake of macromolecules into electroporated cells?

BES symposium "Elements of Bioelectrochemistry and Bioenergetics: Biotechnological and Medical applications". Bielefeld 1993.

S. Kwee and P. Raskmark. Changes in cell proliferation due to environmental electromagnetic effects. Second International Congress of the European Bioelectromagnetics Association. Bled 1993.

S. Kwee. Cellular proliferation in transformed human epithelial amnion cells. 2. Effect of pulsed micro-wave fields. COST 244 Workshop. Bled 1993.

S. Kwee. Changes in cell proliferation due to environmental electromagnetic fields and microwave radiation. International Symposium on Charge and Field Effects in Biosystems - IV. Richmond 1994.

S. Kwee. The combined use of immunofluorescence and electroporation techniques in the study of cell proliferation. Workshop on Advanced optical techniques in biomedical research & applications. Predeal 1994.

S. Kwee. Window effects and adaptation to environmental electromagnetic field exposure of cell cultures. Fourth Nordic Workshop on Biological effects of low-frequency electromagnetic fields. Kuopio 1995.

S. Kwee. The effects of microwave radiation on cell proliferation. COST 244 workshop on Biological effects relevant to amplitude modulated RF fields. Kuopio 1995.

S. Kwee. Increased cell proliferation caused by electromagnetic fields can be inhibited by electromagnetic noise. The 13th International Symposium on Bioelectrochemistry and Bioenergetics. Ein Gedi 1996.

S. Kwee. The minimizing effect of electromagnetic noise on the changes in cell proliferation caused by electromagnetic fields. Third International Congress of the European Bioelectromagnetics Association. Nancy 1996.

S. Kwee. RF electromagnetic fields and cell proliferation. Fifth Nordic Workshop on Biological Effects of Low Frequency Electromagnetic Fields. Trondheim 1997.

S. Kwee. The biological effects of microwave radiation. Second World Congress for Electricity and Magnetism in Biology and Medicine. Bologna 1997.

S. Kwee. Cell surface signals affecting cell growth and cell death. FEBS '97 Advance course on Membrane Transport Processes and Signal Transduction. Bucharest 1997.

S. Kwee. Organizer of 14th International Symposium on Bioelectrochemistry and Bioenergetics, Vingsted, Denmark 1998.

S. Kwee. Health effects of electromagnetic fields. 2nd World Conference on Breast Cancer, Ottawa 1999.

S. Kwee. Organizer of the 6th Nordic Workshop on Biological Effects of Electromagnetic Fields, Skejby Sygehus, Denmark 1999.

S. Kwee. The effects of microwave radiation on cell growth. 6th Nordic Workshop on Biological Effects of Electromagnetic Fields, Skejby Sygehus, Denmark 1999.

S. Kwee. Effects of microwave fields from mobile phones on cell growth. Conference on "Possible effects on health of Radiofrequency Electromagnetic fields". European Parliament, Brussels, 2000.

S. Kwee: Non-thermal effects of microwave fields on cell proliferation and signal transduction. 3rd International Conference on Bioelectromagnetism, Bled, Slovenia 2000.

S. Kwee: Changes in cellular signal transduction due to microwave fields. 16th International Symposium on Bioelectrochemistry and Bioenergetics, Bratislava, Slovakia 2001.

S. Kwee: The effect of radiofrequency electromagnetic fields on growth of human cells. International scientific conference on Electrosmog, Ischia, Italy 2001.

S. Kwee: Effects of electromagnetic fields on cellular signal transduction. International Symposium on Endogenous Physical Fields, Prague, Czech republic, 2002.

S. Kwee: Effects of electromagnetic fields on cell proliferation and signal transduction. Biological effects of EMFs. 2nd International Workshop, Rhodes, Greece 2002.

S. Kwee: Non-thermal effects of EMF on cellular signal transduction. COST 281 Workshop on Subtle temperature effects of RF-EMF, London, UK, 2002.

S. Kwee: Exposure to microwave fields can induce changes in cell cycle proteins. 25th Annual meeting of the Bioelectromagnetics Society, Maui, Hawaii, 2003.

S. Kwee: The generation of heat-shock proteins in cells exposed to RF magnetic fields. COST 281 Workshop on influences of RF fields on the expression of stress proteins, Helsinki, 2004.

S. Kwee: Exposure to non-ionizing radiation and cellular signal transduction. International conference on Children's Leukaemia, London 2004.

S. Kwee: Effects of concentration changes in certain cellular proteins due to microwave radiation. 3rd International Workshop on Biological effects of EMFs, Kos, Greece 2004.

S. Kwee: Coherence and changes in cell proliferation caused by electromagnetic fields. Fröhlich Centenary International Symposium on Coherence and Electromagnetic fields in Biological systems, Prague, 2005.

S. Kwee: Mögliche Wirkungen von ausgedehnter Exposition in elektromagnetischer Strahlung auf das Zellwachstum. 3. Nationaler Kongress Elektrosmog-Betroffener, Olten, Switzerland 2005.

S. Kwee: Absence of linear correlation between biological effects and power density in the non-thermal RF radiation range 4th International Workshop on Biological effects of EMFs, Crete, Greece 2006.

Courses

"Bioelectrochemistry III". International School of Biophysics. Erice 1988.

"Microinjection and Electrotransfection of cells". European Molecular Biology Laboratory. Heidelberg 1989.

FEBS Advanced Lecture Course - 6th Meeting of the European Cytoskeleton Club. Fuglsøcentret 1990.

"New methods in Genetic Toxicology". COST 244 short term training course. Mol 1995.

UNDERVISNINGSMATERIALE

S. Kwee og B. Honoré: “Metoder i eksperimentel biokemi”. Kompendium.

S. Kwee: “Ernæring”. Kompendium

S. Kwee: “Basal biokemi”. Laboratorievejledning

S. Kwee: “Klinisk biokemi”. Laboratorievejledning