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Forskning

Bioelektromagnetisme:

- biologiske effekter af Lavfrekvente (ELF) elektromagnetiske felter (EMF) i miljøet (højspændingsledninger, elektriske husholdningsapparatur) på vækst af menneskeceller
- hvordan disse biologiske effekter kan formindskes
- biologiske effekter af mikro-/radiobølge EMF fra mobiltelefoner, transmission antenne master, radar mm. på cellevækst
- EMF og cellernes stresspåvirkning gennem stress proteinerne HSP
- EMF og regulation af cellecyclus og reparation af celledskader

Bioelektrokemi:

- elektrochemi af kroppens metaboliske reaktioner
- electroporation: indsætning af makromolekyler, feks. proteiner, antistoffer, DNA i levende celler

Undervisning

Varetager undervisning i faget Medicinsk Biokemi for medicinstuderende ved Århus Universitet, og afholder eksamen i faget.

Curriculum vitae

1968 Cand.scient. kemi, Århus Universitet
1968 Kandidat-instruktør ved Kemisk Institut, Århus Universitet
1969 Amanuensis ved Biokemisk Institut, Århus Universitet
1972 Lektor ved Institut for Medicinsk Biokemi, Århus Universitet

Redaktionsmedlem af Bioelectrochemistry, siden 1975.

Referee for andre internationale tidsskrifter, bl.a. FEBS letters og Bioelectromagnetics, IEEE Microwave Transactions.

Peer reviewer for International Science Foundation, U.S.A.

Dansk ekspert repræsentant i EU's COST projekter 244, 244 bis og 281 "Potential Health Implications from Mobile Communication Systems".

Medlem af Organisation Committee, henholdsvis Scientific Committee ved adskillige internationale symposier.

Medlem og fhv. Councilmember af The Bioelectrochemical Society.

Medlem af The Bioelectromagnetics Society.

Chairman for The 14th International Symposium of Bioelectrochemistry and Bioenergetics 1998 i Danmark.

Chairman for The 6th Nordic Workshop on Biological Effects of Electromagnetic Fields, Aarhus 1999 i Danmark

Gæsteforelæser ved universiteterne i Paris, Dijon, Lodz, Warszawa, Prag, Brno, San Francisco, Kansas City, Columbus, Bucharest og Sydney.

Lærer ved Bioelectrochemistry course ved School of Biophysics, Erice.

Lærer ved Workshop on Advanced optical techniques in biomedical research and applications, Predeal.

Lærer ved FEBS '97 Advanced Course on Membrane Transport Processes and Signal Transduction, Bucharest.

Fhv. hovedbestyrelsesmedlem Dansk Magisterforening.

Bestyrelsesmedlem Dansk Universitetspolitisk Forum.

Publikationer

Omfatter indtil nu 44 arbejder (abstracts ikke inkluderet) publiceret i internationalt anerkendte tidsskrifter.

SE PUBLIKATIONER ([Word Format](#)) ([PDF Format](#))

Undervisningsmateriale

Udarbejdet 4 kompendier til brug som undervisningsmateriale i faget Medicinsk Biokemi for medicinstuderende ved Århus Universitet.

Foredrag

Afholdt 55 foredrag (abstracts optaget) ved internationale symposia.

Bevillinger

Modtaget bevillinger til indkøb af apparatur og driftsmidler fra Forskningsrådene, Fonden til Lægevidenskabens fremme, Novo Nordisk fond, P.Carl Petersens fond, Århus Universitetsforskningsfond, Danfoss.

Deltaget som chairman og foredragsholder i internationale symposier med tilskud fra Århus Universitet, Forskningsrådene, Udenrigsministeriet, Rektorkollegiet, EU og forskellige private fonde.

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Research

bioelectromagnetics:

biological effects of low frequency (ELF) electromagnetic fields (EMF)

in the environment (high voltage lines, electrical household appliances) on growth of human cells

how these biological effects can be reduced

biological effects of micro / radio wave EMF from mobile phones, transmission

antenna master, radar mm. on cell growth

EMF and the stress of the cells through the stress proteins HSP

EMF and cell cycle regulation and cell damage repair

Bioelektrokemi:

electrochemistry of the body's metabolic reactions

electroporation: insertion of macromolecules, e.g. proteins, antibodies, DNA in living cells

Teaching

Handles teaching in the subject Medical Biochemistry for medical students at Aarhus University, and holds an exam in the subject.

Curriculum vitae

1968 Cand.scient. chemistry, University of Aarhus

1968 Master's degree at the Department of Chemistry, University of Aarhus

1969 Amanuensis at the Department of Biochemistry, University of Aarhus

1972 Associate Professor at the Department of Medical Biochemistry, University of Aarhus

Editor of Bioelectrochemistry, since 1975.

Referee for other international journals, including FEBS letters and Bioelectromagnetics, IEEE Microwave Transactions.

Peer reviewer for International Science Foundation, U.S.A.

Danish expert representative in EU COST projects 244, 244 bis and 281 "Potential Health Implications from Mobile Communication Systems".

Member of Organization Committee and Scientific Committee respectively at several international symposia.

Member and former Councilmember of The Bioelectrochemical Society.

Member of The Bioelectromagnetics Society.

Chairman of The 14th International Symposium of Bioelectrochemistry and Bioenergetics 1998 in Denmark.

Chairman of The 6th Nordic Workshop on Biological Effects of Electromagnetic Fields, Aarhus 1999 in Denmark

Guest lecturer at the universities of Paris, Dijon, Lodz, Warsaw, Prague, Brno, San Francisco, Kansas City, Columbus, Bucharest and Sydney.

Teacher at Bioelectrochemistry course at School of Biophysics, Erice.

Teacher at Workshop on Advanced optical techniques in biomedical research and applications, Predeal.

Teacher at FEBS '97 Advanced Course on Membrane Transport Processes and Signal Transduction, Bucharest.

F. member of the board of the Danish Masters Association.

Board member Danish University Political Forum.

publications

Includes until now 44 works (abstracts not included) published in internationally recognized journals.

SEE PUBLICATIONS (Word Format) (PDF Format)

Educational material

Prepared 4 compendiums for use as teaching material in the subject Medical Biochemistry for medical students at Aarhus University.

Lecture

Hosted 55 lectures (abstracts recorded) at international symposia.

appropriations

Received grants for the purchase of equipment and operating funds from the Research Councils, the Foundation for the Promotion of Medical Sciences, Novo Nordisk Foundation, P. Carl Petersen's Fund, Aarhus University Research Fund, Danfoss.

Participated as chairman and lecturer in international symposiums with grants from Aarhus University, the Research Councils, the Ministry of Foreign Affairs, the Rector's College, the EU and various private funds.

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