Collection of publications of oncothermia

Oncotherm is keen to prepare studies and publish those in relevant scientific and medical literature. Our phylosophy covers a complex interation between the various levels of research and applications. The basic researches (theoretical considerations and in-silico models) are followed by the laboratory experiemnts in-vitro and in-vivo completed with preclinical and afterwards clinical studies. All steps are interacting not only with the next forward, but could affect the previous research steps for corrections, modifications and further developments. This complex research scheme allows us being ready to absorb the latest results from the worldwide literature and making own development on the available top of the state-of-art. Herewith we demonstrate our actual results with our publications from the laboratories until the clinical applications. Many PubMed registered publications are in harmony with the topics whics are too technical or simple sumbitted to the not NCI registered publishers.

To be active for the training of our oncotherm community, we issue informative newsletters each month and we publish our Oncothermia Journal (ISSN 2191-6438) three times a year [1], sharing the hot topics in the oncothermia research field with our community members and with other interested researchers, too. There are quite a large number of publications in the journal which can be found on its website.

Oncothermia is the special method of Oncotherm Kft., became the trade-name of the treatment modality of modulated electro-hyperthermia (mEHT), and is nowadays mentioned as nanothermia in the relevant literature.

Clinical studies (NCI-PubMed registered)

Toxicity

- Tolerability of external electro-hyperthermia in the treatment of solid tumors [2],

Gliomas (advanced)

- A phase II clinical study on relapsed malignant gliomas treated with electro-hyperthermia [3],
- Transcranial electro-hyperthermia combined with alkylating chemotherapy in patients with relapsed high-grade gliomas [4],

Gastrointestinal (advanced)

- Intra-arterial and systemic chemotherapy plus external hyperthermia in unresectable biliary cancer [5],
- Deep hyperthermia with radiofrequencies in patients with liver metastases from colorectal cancer [6],
- Sorafenib and locoregional deep electro-hyperthermia in advanced hepatocellular carcinoma. A phase II study [7],

Lung

- Current status of oncothermia therapy for lung cancer [8],
- Definitive radiotherapy with concurrent oncothermia for stage IIIB non-small-cell lung cancer: A case report [9],

Gynecology

- Successful treatment of advanced ovarian cancer with thermochemotherapy and adjuvant immune therapy [10],
- Positive response of a primary leiomyosarcoma of the breast following salvage hyperthermia and pazopanib [11],
- Long-term survival of a breast cancer patient with extensive liver metastases upon immune and virotherapy: a case report [12],
- Treatment outcome analysis of chemotherapy combined with modulated electro-hyperthermia compared with chemotherapy alone for recurrent cervical cancer, following irradiation. [13],

Bone

- Posttreatment histology and microcirculation status of osteogenic sarcoma after a neoadjuvant chemo- and radiotherapy in combination with local electromagnetic hyperthermia [14],
- Successful treatment of solitary bone metastasis of non-small cell lung cancer with combination of bevacizumab and hyperthermia [15],

Prostate

- Long-term remission of prostate cancer with extensive bone metastses upon immuno- and virotherapy: A case report [16],

Malignant ascites

- Local modulated electro-hyperthermia in combination with traditional Chinese medicine vs. intraperitoneal chemoinfusion for treatment of peritoneal carciomatosis with malignant ascites: a phase II randomized trial [17],

Temperature

- The effect of modulated electro-hyperthermia on the pharmacokinetic properties of nefopam in healthy volunteers: A randomised, single-dose, crossover open-label study [18],
- Effect of modulated electrohyperthermia on the pharmacokinetics of oral transmucosal fentanyl citrate in healthy volunteers [19]

Clinical studies (General)

Lung

- The Outcome of the Chemotherapy and Oncothermia for Far Advanced Adenocarcinoma of the Lung: Case reports of four patients [20],
- Oncothermia with chemotherapy in the patients with Small Cell Lung Cancer [21],
- Clinical study for advanced non-small-cell lung-cancer treated by oncothermia [22],

Sarcoma

- Results of oncothermia combined with operation, chemotherapy and radiation therapy for primary, recurrent and metastatic sarcoma [23],
- The results of combination of ifosfamid and locoregional hyperthermia (EHY 2000) in patients with advanced abdominal soft-tissue sarcoma after relapse of first line chemotherapy [24],

Pancreas

- Second-line chemotherapy with gemcitabine and oxaliplatin in combination with loco-regional hyperthermia (EHY-2000) in patients with refrctory metastatic pancreatic cancer - preliminary results of a prospective trial [25],
- Clinical study for advanced pancreas cancer treated by oncothermia [26],
- Behandlung des fortgeschrittenen Pankreaskarzinoms mit regionaler Hyperthermie und einer Zytostase mit Mitomycin- C und 5-Fluorouracil/ Folinsäure [27],
- Thermochemotherapy of the advanced pancreas carcinoma [28],
- Thermo-Chemotherapie des fortgeschrittenen Pankreaskarzinoms. Ergebnisseeiner klinischen Anwendungsstudie [29],
- Complex therapy of the not in sano respectable carcinoma of the pancreas – a pilot study [30],

Andrology & prostate

- Androtherm application for the Peyronie's Disease [31],
- Prostatakarzinom: Neue Aspekte für Diagnostik und Therapie [32],
- Für und Wider des Prostata-Karzinom-Screenings [33],
- Neue Studie heizt Diskussion über den Wert von PSA-Tests an [34],
- Sanfte Hilfen für die Prostata [35],
- Bestrahlung der Prostata erhöht Rektum-Ca-Risiko [36],

- Rebell gegen den Krebs. Bioogische Intersivtherapie – Neue Hoffnung für Patienten? [37],
- Radiofrequency Transurethral Hyperthermia and complete Androgen Blockade. A Nonsurgical Approach to Treating Prostate Cancer [38],
- Diagnostik hyperthermia in early stage prostate cancer [39],
- Adjuvante Radiotherapie: Welcher Patient mit Prostatakarzinom profitiert? [40],
- Hoffnung bei Porstata-Beschwerden. Die neue Therapie ohne Messer [41],
- Malignus és belignus prosztatadaganatok hyperthermiája [42],

TCM

- Synergy between Oncothermia and Traditional Chinese Medicine [43],

Low-back pain

- Low back pain – complex approach of treatment by different CAM modalities (Acupuncture and other type of dry-needling, “Targeted RF non invasive physiotherapy” for low back pain). [44],

Lyme-disease

- Lyme Disease and Oncothermia [45],

Multiple

- Oncothermia Application for Various Malignant Diseases [46],
- Oncothermia: Emerging Therapy in Oncology [47],

Cervix

- Oncothermia in HIV positive and negative locally advanced cervical cancer patients in South Africa [48],
- Treatment of advanced cervical cancer with complex chemoradio – hyperthermia [49],

Brain

- Glioblastoma multiforme Grad IV: Regionale Tiefenhyperthermie, Antiangiogenese mit Thalidomid, Hochdosis-Ascorbinsäureinfusionen und komplementäre Therapie [50],
- Prospective phase II trial for recurrent high-grade malignant gliomas with capacitive coupled low radiofrequency (LRF) deep hyperthermia [51],
- Retrospective clinical study of adjuvant electro-hyperthermia treatment for advanced brain-gliomas [52],

- Hyperthermia in combination with ACNU chemotherapy in the treatment of recurrent glioblastoma [53],
- The treatment of patients with high-grade malignant gliomas with RF-hyperthermia [54],

Liver

- Lebermetastasen bei kolorektalen Karzinomen [55],
- Deep electro-hyperthermia (EHY) with or without thermo-active agents in patients with advanced hepatic cell carcinoma: phase II study [56],

Melanoma

- Malignes Melanom Stadium IV: Anwendung von regionaler Tiefenhyperthermie, Tamoxifen, Interferon-α und komplementären Therapien [57],

WBH

- Whole body hyperthermia combined with carboplatin/paclitaxel in patients with ovarian carcinoma – Pase-II-study [58],
- Whole-body hyperthermia in combination with platinum containing drugs in patients with recurrent ovarian cancer [59],

Experimental studies (PubMed)

Apoptosis

- Electro-hyperthermia inhibits glioma tumorigenicity through the induction of E2F1-mediated apoptosis [60],

Apoptosis, DAMP, ICD

- DNA fragmentation and caspase-independent programmed cell death by modulated electrohyperthermia [61],
- Upregulation of heat shock proteins and the promotion of damage-associated molecular pattern signals in a colorectal cancer model by modualted electrohyperthermia [62],

Abscopal effect

- Modulated electro-hyperthermia enhances dendritic cell therapy through an abscopal effect in mice [63],
- Improving immunological tumor microenvironment using electro-hyperthermia followed by dendritic cell immunotherapy [64],

Strong synergy

- Strong synergy of heat and modulated electro- magnetic field in tumor cell killing, Study of HT29 xenograft tumors in a nude mice model [65],

Human lymphoma U937 cells

- Comparison of biological effects of modulated electro-hyperthermia and conventional heat treatment in human lymphoma U937 cells [66],

Septin

- Electro-hyperthermia up-regulates tumour suppressor Septin 4 to induce apoptotic cell death in hepatocellular carcinoma [67],

In vitro comparison

- In vitro comparison of conventional hyperthermia and modulated electro-hyperthermia [68],

Preclinical

- Temperature increase induced by modulated electrohyperthermia (oncothermia®) in the anesthetized pig liver [69],

Experimental studies (General)

Temperature

- Messung der Temperaturverteilung am Modell der nicht perfundierten Schweineleber bei lokaler Hyperthermie mit Kurzwellen mit 13,56 MHz [70],
- Deep temperature measurements in oncothermia processes [71],

mRNA

- Early changes in mRNA and protein expression related to cancer treatment by modulated electro-hyperthermia [72],

Modulation

- Modulation effect in oncothermia [73],

Preclinical

- Oncothermia research at preclinical level [74],
- Report of the pilot-study done for the proposed investigation on the possible synergic effect between high dose ascorbic acid application and oncothermia treatment [75],
- Oncothermia basic research at in vivo level. The first results in Japan [76],
- Diagnostic and therapeutic aspects of canince malignant melanoma. Part 2. Own experiences [77]

Apoptosis

- Programmed cell death induced by modulated electro-hyperthermia [78],
- A modulált rádiófrekvenciás (RF) hyperthermia (oncothermia) apoptózis-indukáló hatása immunhiányos egér xenograft tumorokban [The apoptosis-inducing effect of modulated radio-frequency (RF) hyperthermia (oncothermia) on immun deficient mouse xenograft tumors] [79],
- Klinikai vizsgálatok és evidenciák a modulált vezetéses rádiófrekvenciás hyperthermia (oncothermia) alkalmazásában [Clinical trials and evidences of the application of modulated radio-frequency hyperthermia] [80],
- Modulated electrohyperthermia causes caspase independent programmed cell death in HT29 colon cancer xenografts [81],
- Modulated electro-hyperthermia induced programmed cell death in HT29 colorectal carcinoma xenograft [82],
- DNA fragmentation-driven tumor cell degradation induced by modulated electro-hyperthermia [83],

Nanoheating

- Nanoheating without Artificial Nanoparticles Part II. Experimental support of the nanoheating concept of the modulated electro-hyperthermia method, using U937 cell suspension model [84],

Monotherapy

- Cases that respond to oncothermia monotherapy [85],

Theoretical & In silico studies (PubMed)

Hypoxia

- Hyperthermia and hypoxia: new developments in anticancer chemotherapy [86],

Field effects

- Do Field-Free Electromagnetic Potentials Play a Role in Biology? [87],
- Effect of Curl-Free Potentials on Water [88],
- Axial vector interaction with bio-systems [89],

From lab

- Oncothermia treatment of cancer: from the laboratory to clinic [90],

Oncothermia general

- Hyperthermia versus oncothermia: Cellular effects in complementary cancer therapy [91],

- Oncothermia: A new paradigm and promising method in cancer therapies [92],
- A brief overview of hyperthermia in cancer treatment [93],
- Oncothermia - Nano-heating paradigm [94],
- Review. Current role and future perspectives of hyperthermia for prostate cancer treatment [95],
- Hyperthermia and immunity. A brief overview [96],

Thermal limit

- On the thermal noise limit of cellular membranes [97],

Fractal noise

- Pink noise behaviour of the bio-systems [98],
- Bio-response to White Noise Excitation [99],

Instability

- An electrically driven instability: the living-state (Does the room temperature superconductivity exist?) [100],

Membrabne effects

- New Theoretical Treatment of Ion Resonance Biological Phenomena [101],
- An energy analysis of extracellular hyperthermia [102],
- Water states in living systems. I. Structural aspects [103],

Dose

- Dose concept of oncological hyperthermia: Heat-equation considering the cell destruction [104],
- Hyperthermia, a Modality in the Wings [105],

Theoretical considerations & In-silico studies (General)

Water-structure

- Modelling of the dissipative structure of water [106],
- A synergetic representation for the double-structure model of liquid water [107],
- Two-structure model of liquid water [108],
- Self-organizing processes and dissipative structure formation in the non-crystalline materials [109],

Cell-structures

- Topological Correlation in amorphous structures [110],
- Appearance of collectivity in two-dimensional cellular structures [111],
- From Random Cellular Structure to the Honeycomb Pattern [112],
- From two dimensional cellular structures to the honeycomb pattern [113],
- Háromdimenziós sejtrendszerek topológiai összefüggései [114],
- Topologigal aspects of ordering: Proceeding of the 7th Seminar of IFHT Heat Treatment Surface Engineering of Light Alloys [115],

Electromagnetic radiation

- A mobiltelefonokból származó elektromágneses expozíció alakulása 900/1800/2100 MHz frekvencián [116],
- Assessment of electromagnetically treated wheat kernel at 120Hz using the FDTD method [117],
- Metal-framed spectacles and implants and specific absorption rate among adults and children using mobile phones at 900/1800/2100 MHz [118],

Blood-flow

- Negative impedance interval of blood flow in capillary bed [119],
- Non-Newtonian analysis of blood-flow [120],
- Hyperthermic radiology. Why to combine? [121],
- Non-Mechanical Energy Transfer of Electrically Neutral Electrolytes [122],

Front-page demo

- Front page illustration of Forum Medizine [123],

Quantum biology

- Onsagerian quantum mechanics [124],
- Nonequilibrium thermodynamic and quantum model of a damped oscillator [125],
- Rosen-Chambers variation theory of linearly-damped classic and quantum oscillator [126],

Review

- Challenges and Solutions in Oncological Hyperthermia [127],
- Personalised dosing of hyperthermia [128],
- Hyperthermie in der Tumortherapie [129],

- Too hot for cancer [130],
- Hyperthermia in oncology: A promising new method? [131],
- Hyperthermia today: electric energy, a new opportunity in cancer treatment [132],
- Hyperthermie in der Tumortherapie [133],
- Stellenwert der Hyperthermie in der Onkotherapie [134],
- Formen der Hyperthermie und klinische Ergebnisse [135],
- "Quo vadis" oncologic hyperthermia? [136],
- Critical Analysis Of Electromagnetic Hyperthermia Randomized Trials: Dubious Effect And Multiple Biases [137],
- Essentials of oncothermia [138],
- Hyperthermia versus oncothermia: Cellular effects in cancer therapy [139],
- Renewing Oncological Hyperthermia-Oncothermia [140],
- The History Of Hyperthermia Rise And Decline [141],
- Oncothermie [142],
- Traditionen und Reformen in der onkologischen Hyperhtermie [143],
- What is against the acceptance of hyperthermia treatment? [144],
- What is against the acceptance of hyperthermia? [145],
- Hyperthermie in der Onkologie: eine aktuell beforschte Behandlungsmethode [146],
- New Results, New Hopes [147],
- Elektromagnetische Hyperthermieverfahren: die kapazitive Kopplung [148],
- Hyperthermia for Oncology: An effective new treatment modality [149],
- Hyperthermie in der Onkologie mit einem historischen Überblick [150],
- Onkotermia fizika a rák ellen [151],
- Electro-hyperthermia: a new paradigm in cancer therapy [152],
- Hipertermia az onkológiában: onkotermia [153],
- Komparative, retrospektive klinische Studie in Bezug auf mit Onkothermie behandelten [154],
- Az ezerarcú víz [155],
- The myriad-minded water [156],
- The cancer revolution [157],

Dose

- Heating, efficacy and dose of local hyperthermia [158],
- Generalization of the thermal dose of hyperthermia in oncology [159],
- Critical analysis of the thermodynamics of reaction kinetics [160],

Personalization

- Oncothermia as personalized treatment option [161],

Book

- Electromagnetic effects in nanoscale range. Cellular Response to Physical Stress and Therapeutic Applications [162],
- Hyperthermia in oncology [163],
- Heat Therapy in oncology [164],
- Local hyperthermia in Oncology – To Choose or not to Choose? [165],
- Oncothermia – Principles and practices [166],
- Physical background and technical realization of hyperthermia [167],
- Bioelectromagnetic Paradigm of Cancer Treatment Oncothermia [168],
- Heat therapy in oncology, New paradigm in electro-hyperthermia [169],

Membrane noise

- Effect of cellular membrane resistivity inhomogeneity on the thermal noise-limit [170],
- Heat penetration into the cell wall [171],
- Response of bio-systems on white noise excitation [172],
- Origin of pink-noise in bio-systems [173],

Electric field

- Reorganization of actin filaments and microtubules by outside electric field [174],
- Bioelectromagnetic interactions in agriculture: Controversial positions [175],
- Device and procedure for measuring and examining the signal of systems releasing measurable signal during operation or in response to external excitation [176],
- Electric field regulation of chondrocyte proliferation, biosynthesis and cellular signaling [177],
- Industrial device for stimulating seeds [178],

- Is the structure of the water convertible in physical way? [179],
- Üzemi berendezés vetőmagvak stimulációjára [180],

Nano heating

- Immune effects by selective heating of membrane rafts of cancer-cells [181],
- Heating of membrane raft of cancer-cells [182],
- Nanoheating without Artificial Nanoparticles [183],
- Electromagnetic effects in nanoscale range. Cellular Response to Physical Stress and Therapeutic Applications [184],

Homeostasis

- On the Dynamic Equilibrium in Homeostasis [185],
- Study of the oxygen mass transfer in a gas-dispersing apparatus [186],

Geometry of cell-structures

- On the Aboav-Weaire law [187]

Thesis

Thesis

- Developments into electromagnetic stimulation of neural cells [188]
- Studio dei meccanismi fisiopatologici dell'ipertermia oncologica e dell'oncothermia [189]
- Studies on modulated electrohyperthermia induced tumor cell death in a colorectal carcinoma model [190]
- Preclinical investigation on the biological effects of modulated electro-hyperthermia [191]

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