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Cancer Medical Treatment in Conjunction with the ELMAS's Theory of Thermodynamics which is the Main Scientific Approach for 5th Law of Thermodynamics

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ABSTRACT

Dr. Emin Taner Elmas, who studies energy states in medicine, proposed a "5th Law of Thermodynamics" based on his "Elmas's Theory of Thermodynamics," named after his surname. His recent publications apply this framework to the field of health, focusing on frequency-based music therapy and non-surgical treatments for medical conditions. Full texts of his work, including the basic theory and medical applications, are available online.

"ELMAS's Theory of Thermodynamics": Presented in the literature as a scientific approach to the "5th Law of Thermodynamics," this theory argues that energy and matter can exist not only in positive but also in neutral and negative states. This theory aims to provide a theoretical foundation, particularly in the field of Medical Thermodynamics (drug-cell interaction, disease treatments). Vectorial Energy and Matter Transfer: Elmas's theory argues that energy and matter are vectorial quantities moving within the body in positive, negative, or neutral directions. This allows for the mathematical modeling of drug-cell interactions and treatment processes. DNA/RNA Resonance: Establishes a connection between the sequences in musical scales and the DNA and RNA sequence structures of cells. It theorizes that the vibration frequencies of musical tones can create a state of "resonance" by matching the frequencies of genetic sequences. "ELMAS's Theory of Thermodynamics" is named after Dr. Emin Taner ELMAS, Assistant Professor of Mechanical Engineering, and also includes an acronym formed from the first letters of the following five concepts representing the cornerstones of thermodynamics. 1. Energy 2. Laws (Laws - 0, 1, 2 and 3, 4th Law (Onsager Theory) and 5th Law (ELMAS Theory)) 3. Matter (Matter/Mass) 4. Analysis (Exergy and Entropy) 5. Systems (Open, Closed, Isolated) ELMAS's Theory of Thermodynamics is a scientific approach that argues that energy and matter should be considered not only as scalar but also as vector quantities. This theory, put forward by Dr. Emin Taner ELMAS, aims to expand the scope of traditional thermodynamics and provide a foundation for the 5th Law of Thermodynamics.

Basic Principles of the Theory: At the heart of the theory is the idea that energy and matter are directional quantities (vectors) and can exist in three different states:

- Positive Direction: The state where the system gains energy or mass.
- Negative Direction: The state where the system loses energy
- Neutral Direction: This refers to the state where the system is in a steady or stable (equilibrium) condition. In this approach, total energy and total mass are formulated as the vector sum of these three components.

Medical Thermodynamics and Applications: ELMAS's Theory allows for the analysis of biological systems (such as human body cells) as explicit thermodynamic systems. Drug Interaction: The interaction of drugs with body cells is modeled as vectorial energy and mass transfer according to this theory. The treatment process is explained by controlling these interactions in positive, negative, or neutral directions.

"FM Modulated Smart Drug Algorithm" for Cancer Treatment: Dr. Elmas has developed an engineering model that targets cancer cells and differs from traditional methods: Basic Logic: He designed a Frequency Modulation (FM) algorithm based on the "self-vibration mutation frequency" of cancer cells. Smart Drug Algorithm: This study models a "smart" intervention system that will neutralize only the targeted cells without harming healthy tissues by determining the frequency characteristics of cancerous cells. Interdisciplinary Approach: By adapting the principles of signal processing and thermodynamics in mechanical engineering to medical oncology, he conducted simulations on frequency-based treatment of cancer and even viruses such as COVID-19.

Medical Thermodynamics and Cancer Algorithms: Dr. Elmas developed the concept of "Medical Thermodynamics" by adapting engineering principles to the field of medicine: FM Modulated Algorithm: He created a model that targets the unique "vibration frequencies" of cancer cells. His aim is to create smart drug protocols that will neutralize only cancerous cells at the targeted frequency without affecting healthy cells.

Thermodynamic Model: He explains health, aging, and disease processes through the 2nd Law of Thermodynamics (Entropy). He defines diseases as "entropy increase" (disorder) in the body system. The 5th Law of Thermodynamics Theory: This original theory, which pushes the boundaries of classical physics, argues the following: Energy and Information: He suggests that energy is not only physical but also a whole with information and consciousness. Universe Analysis: By modeling the universe as a gigantic "pressure vessel," he explains energy changes at the macro and micro levels within this framework. Frequency-Based Medical Simulators: He is conducting research on designing laboratory-type prototype devices that transmit specific frequencies to cells, capable of testing "FM Modulation" algorithms that he theorizes for cancer and virus treatment. Resonance and Frequency: It is argued that the thermodynamic interaction between body cells behaves like a force or velocity component, and that these interactions need to be regulated for treatment. This theory offers a balance statement compatible with the traditional scalar-based Law of Conservation of Energy and Mass, but introduces a new perspective by defining them as vectorial parameters (such as force, velocity, and acceleration).

Unlike Einstein's energy-mass relationship ($E = mc^2$), Dr. Elmas contends that in both biological and mechanical systems, energy corresponds directly to changes in mass. In this context, the ELMAS Theory posits that the total energy transfer within a system must be vectorially equivalent to the total mass change, offering a groundbreaking perspective on the interrelation between these fundamental elements of natural processes.

In Dr. Emin Taner Elmas's approach, targeting cancer cells is based on the thermodynamic signatures of these cells, which differ from healthy cells. Cancer tissues are "chaotic" systems exhibiting high entropy (disorder) and irregular heat distribution due to uncontrolled proliferation.

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Introduction

ELMAS's Theory of Thermodynamics represents a cutting-edge scientific framework that proposes energy and matter should not only be regarded as scalar quantities but also as vector quantities. Introduced by Asst. Prof. Dr. Emin Taner ELMAS, the theory seeks to extend the boundaries of classical thermodynamics and lays the groundwork for what is termed the 5th Law of Thermodynamics. This innovative approach provides significant insights, especially in understanding the interactions of medical treatments involving medications or drugs at a cellular level. The theory elucidates how such treatments influence energy and matter dynamics within cells, leading to outcomes that can be positive, negative, or neutral depending on the nature of these interactions. According to the ELMAS Thermodynamic Theory, for therapeutic interventions to be effective, it is essential to precisely regulate these thermodynamic parameters. Energy and matter are treated as dynamic factors, much like forces or velocities, that drive cellular bioprocesses during treatment. Through these processes, the system works toward achieving equilibrium, where total energy and total mass balance across cell boundaries. Essentially, variations in energy-whether positive, negative, or neutral-contribute to one state of equilibrium, while similar variations in matter form another interconnected state of balance. This dynamic interplay underscores the critical role of energy and matter in achieving successful therapeutic outcomes. The theory aligns with the traditional scalar concept of the Law of Conservation of Energy and Mass while offering a novel perspective by introducing their treatment as vector-like parameters, similar to force, velocity, and acceleration. This redefinition enhances our understanding of how energy and mass behave dynamically within biological systems. Under this framework, the interaction between drugs and body cells is modeled as vectorial transfers of energy and mass. The therapeutic process is explained through the careful management of these interactions to produce the desired effect-whether positive, negative, or neutral. Unlike Einstein's energy-mass relationship ($E = mc^2$), Dr. Elmas contends that in both biological and mechanical systems, energy corresponds directly to changes in mass. In this context, the ELMAS Theory posits that the total energy transfer within a system must be vectorially equivalent to the total mass change, offering a groundbreaking perspective on the interrelation between these fundamental elements of natural processes [1-10].

FM Modulated Smart Drug Algorithm for Cancer Treatment: Dr. Emin Taner Elmas has pioneered an innovative engineering model for cancer treatment that diverges from conventional methods by employing a cutting-edge Frequency Modulation (FM) algorithm.

Core Concept

Dr. Elmas's approach is founded on the "self-vibration mutation frequency" unique to cancer cells. By identifying these distinct frequencies, his model aims to specifically target and neutralize cancer cells while leaving healthy tissues unharmed.

Smart Drug Algorithm

At the heart of this study lies a "smart intervention" system that leverages frequency-based characteristics of cancerous cells. This algorithm is designed to selectively disrupt malignant cells without affecting surrounding healthy ones, offering a highly precise treatment pathway.

Interdisciplinary Innovation

Integrating engineering expertise with oncology, Dr. Elmas has successfully adapted principles of signal processing and thermodynamics, often used in mechanical engineering, to medical sciences. His simulations have extended applications, including research into frequency-based treatments for other diseases like COVID-19.

Medical Thermodynamics and Cancer Algorithms

Dr. Elmas has introduced the novel concept of "Medical Thermodynamics," which applies the laws of thermodynamics to biological systems: -

FM Modulated Algorithm: Through his research, Dr. Elmas has developed a model targeting the specific "vibration frequencies" of cancer cells. The overarching goal is to design smart drug protocols that selectively deactivate cancerous cells at their resonant frequencies, ensuring healthy tissues remain intact. - ****Thermodynamic Model of Health and Disease****: Drawing inspiration from the 2nd Law of Thermodynamics, he interprets health, aging, and disease as manifestations of bodily order (or disorder). Diseases, under this framework, correlate with an increase in bodily entropy, reflecting a systemic breakdown or chaos.

****The Fifth Law of Thermodynamics - A New Frontier**** Dr. Elmas has proposed an ambitious extension to classical thermodynamics with the introduction of his "5th Law of Thermodynamics." Key premises in his theory include: - ****Energy, Information, and Consciousness****: He postulates that energy transcends its physical form and must be understood as an integrated entity encompassing information and consciousness. - ****Universal**

Perspective**: By conceptualizing the universe as an immense "pressure vessel," he maps energy dynamics across macro and micro levels in a unified framework. **Frequency-Based Medical Simulators** Currently, Dr. Elmas is focused on creating next-generation laboratory prototypes capable of transmitting specific frequencies to cells. These devices are designed to test the potential of his FM modulation algorithms in treating cancer and viral infections. **Resonance and Cellular Frequency Interactions** Central to the theory is the idea that thermodynamic exchanges within cellular environments are akin to forces or velocity vectors. These interactions can be fine-tuned through frequency-based regulation for therapeutic purposes. By expanding the traditional scalar energy conservation laws into a vectorial framework (accounting for forces, velocities, and accelerations), Dr. Elmas's approach provides a groundbreaking perspective on energy and matter interactions within biological systems. **Targeting Cancer Through Thermodynamic Signatures** According to Dr. Elmas's work, cancer cells can be identified and treated based on their unique thermodynamic properties. Unlike healthy cells, cancerous tissues display chaotic behavior characterized by elevated entropy (disorder) and uneven heat distribution due to unchecked proliferation. His research offers a promising pathway to targeted therapies that restore balance and order at the cellular level. This paradigm-shifting approach not only redefines how we understand cancer treatment but also opens new doors in combining disciplines like engineering, physics, and medicine for solutions to some of humanity's most pressing health challenges [11-20].

Material, Method and Discussion

Dr. Emin Taner Elmas, who studies energy states in medicine, proposed a "5th Law of Thermodynamics" based on his "Elmas Theory of Thermodynamics," named after his surname. His recent publications apply this framework to the field of health, focusing on frequency-based music therapy and non-surgical treatments for medical conditions. Full texts of his work, including the basic theory and medical applications, are available online [21-25].

- "ELMAS's Theory of Thermodynamics": Presented in the literature as a scientific approach to the "5th Law of Thermodynamics," this theory argues that energy and matter can exist not only in positive but also in neutral and negative states. This theory aims to provide a theoretical foundation, particularly in the field of Medical Thermodynamics (drug-cell interaction, disease treatments).
- Vectorial Energy and Matter Transfer: Elmas's theory argues that energy and matter are vectorial quantities moving within the body in positive, negative, or neutral directions. This allows for the mathematical modeling of drug-cell interactions and treatment processes [26-30].

- DNA/RNA Resonance: Establishes a connection between the sequences in musical scales and the DNA and RNA sequence structures of cells. It theorizes that the vibration frequencies of musical tones can create a state of "resonance" by matching the frequencies of genetic sequences [31-40].

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- Laws (Laws - 0, 1, 2 and 3, 4th Law (Onsager Theory) and 5th Law (ELMAS Theory))
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Medical Thermodynamics and Applications

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- Drug Interaction: The interaction of drugs with body cells is modeled as vectorial energy and mass transfer according to this theory. The treatment process is explained by controlling these interactions in positive, negative, or neutral directions.

"FM Modulated Smart Drug Algorithm" for Cancer Treatment

Dr. Elmas has developed an engineering model that targets cancer cells and differs from traditional methods:

Basic Logic: He designed a Frequency Modulation (FM) algorithm based on the "self-vibration mutation frequency" of cancer cells.

Smart Drug Algorithm: This study models a "smart" intervention system that will neutralize only the targeted cells without harming healthy tissues by determining the frequency characteristics of cancerous cells.

Interdisciplinary Approach: By adapting the principles of signal processing and thermodynamics in mechanical engineering to medical oncology, he conducted simulations on frequency-based treatment of cancer and even viruses such as COVID-19.

Medical Thermodynamics and Cancer Algorithms

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The 5th Law of Thermodynamics

This original theory, which pushes the boundaries of classical physics, argues the following:

Energy and Information: He suggests that energy is not only physical but also a whole with information and consciousness.

Universe Analysis: By modeling the universe as a gigantic

"pressure vessel," he explains energy changes at the macro and micro levels within this framework.

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- **Resonance and Frequency:** It is argued that the thermodynamic interaction between body cells behaves like a force or velocity component, and that these interactions need to be regulated for treatment.

Scientific Context: This theory offers a balance statement compatible with the traditional scalar-based Law of Conservation of Energy and Mass, but introduces a new perspective by defining them as vectorial parameters (such as force, velocity, and acceleration).

The mathematical foundation of ELMAS's Theory of Thermodynamics is based on an "Energy-Mass-Velocity" triangle that combines traditional thermodynamics with vector mechanics.

Vectorial Energy and Mass Formulation

The essence of the theory is the assumption that energy is not just a quantity, but also a direction (vector). This is formulated with the proposed 5th Law of Thermodynamics as follows:

Here:

Positive: Work, heat, or mass entering the system.

Negative: Losses or exhaust leaving the system.

Neutral: Rest energy that maintains the internal equilibrium (entropy control) of the system.

Energy-Mass Balance

Unlike Einstein's formula, Dr. Elmas argues that in biological and mechanical systems, energy exhibits a direct equivalent balance with mass: This equation states that the total energy transfer in the system must be vectorially equal to the total mass change.

Elmas's Theory of Thermodynamics and the "5th Law of Thermodynamics"

This theory advocates the "Medical Thermodynamics" approach, adapting traditional thermodynamics to the fields of medicine and biology:

Negative and Neutral Energy States: According to the theory, energy and matter may not always be in the positive direction; neutral or negative states also exist.

The Relationship Between Life and Entropy: In the model he developed, he relates the processes of health, disease, aging, and death to the second law of thermodynamics (entropy) and the consciousness system. **Application Areas:** He has worked on "FM Modulated Smart Drug Algorithms" for the treatment of cancer cells and frequency modulation simulations for the treatment of viruses similar to COVID-19.

Dr. Elmas aims to prove the "5th Law of Thermodynamics" theory with practical devices and to place the art of the ney (Turkish flute) Nây-ı Şerif, Instrument of Ney. (Ney: Turkish Reed Flute, Nay) on a scientific basis through these studies.

Dr. Emin Taner Elmas's FM (Frequency Modulated) Smart Drug Algorithm and related device designs for cancer treatment combine classical oncological methods with signal processing and thermodynamic principles in engineering. The basic technical

working principles of the system are as follows:

Self-Vibration Mutation Frequency

Theoretical Basis: Each cell has a specific natural vibration frequency depending on its molecular structure and biochemical content.

Cancerous Cell Differentiation: Dr. Elmas argues that cancerous cells have a different "self-vibration frequency" than healthy cells because they have undergone mutation. The device design first aims to detect this specific frequency range.

Cell Disruption via Resonance

Destructive Interference: The algorithm sends an FM signal that is either the exact opposite of or resonates with the detected cancerous cell frequency.

Mechanical Effect: Just as a glass breaks when vibrated at a specific sound frequency, the membrane of the targeted cancerous cell resonates with this external frequency and is mechanically destroyed (lysis).

Selectivity: Because the frequency is very precisely adjusted, healthy tissues in different vibration ranges are not affected by this signal.

Thermodynamic and Entropy Control

Local Heat Increase: The device rapidly increases the internal energy (enthalpy) of the cancerous cell by controlling the entropy (disorder) in the target region.

Thermal Death: By increasing the intracellular temperature only at the micro level in the cancerous region, the biological functions of the cell are stopped.

Smart Drug Algorithm (Artificial Intelligence Integration)

Dynamic Tracking: Since cancer cells constantly mutate, the algorithm monitors these frequency changes in real time. **Modulation:** The device automatically changes the treatment strategy against "resistant" cells by continuously updating the amplitude and frequency of the signal.

Laboratory-Type Simulator Design

Prototype Studies: Dr. Elmas also aims to work on simulation devices that send electromagnetic or acoustic waves at specific frequencies to cell cultures to test this theory.

Application Goal: This method aims to be an alternative or supportive "contactless treatment" model to methods with systemic side effects such as chemotherapy.

This technical approach is a concrete medical manifestation of the theory of "information and energy integrity," which Dr. Elmas calls the "5th Law of Thermodynamics."

Dr. Elmas's work in the fields of cancer and medicine is based on the application of engineering approaches to biological systems (Medical Thermodynamics):

"The Effects of Medicine and Music Therapy Practices on Human Health" (2025): In this current study, he scientifically examines the effects of music frequencies (especially the sound of the ney) on human health and neurological diseases.

He has articles explaining the formation and spread of cancer cells through Entropy (Law of Disorder). He defines cancer as the deviation of the system from its equilibrium point.

He has technical publications modeling smart drug and treatment protocols that target the "self-vibration mutation frequencies" of cancer cells.

His studies, which treat the human body as a complex thermodynamic machine and relate energy transformations to medicine, are included in the literature.

Dr. Emin Taner Elmas's work, based on the "5th Law of Thermodynamics," goes beyond classical physics to address the interaction of energy, information, and biological systems. His fundamental academic works in which he shared this theory and related it to medical methods are as follows:

Theoretical Foundation: The 5th Law of Thermodynamics and the Energy-Information Relationship

In addition to the traditional 4 laws of thermodynamics, Dr. Elmas presented his proposal for a "5th Law" to the academic community under the title "Elmas' Theory of Thermodynamics" to explain the order in the universe and the complexity of life and to form the basis of medical thermodynamics.

ELMAS's Medical Thermodynamics Theory is a unique approach that treats the human body as a closed or open thermodynamic system and defines diseases as an increase in entropy (disorder) in this system. The basic mechanisms in the medical applications of this theory are as follows:

Defining Diseases as "Entropy"

According to the theory, diseases such as Alzheimer's or cancer are the disruption of the energy balance in cells and tissues and the system reaching maximum disorder (entropy). Treatment is to restore balance (homeostasis) by transferring negative entropy (information and ordered energy) to the system from the outside at the correct frequency.

Cancer Cells and Thermal Destruction

Another application area of the theory is that cancerous cells have different thermodynamic characteristics (higher heat production and disorder) compared to healthy cells. Studies are being conducted on self-destruction (apoptosis) of the cell by raising the entropy to a critical level only in the cancerous region with targeted sound waves or magnetic fields.

Elmas models disease processes through the second law of thermodynamics. The total entropy change in an organism is defined as the interaction with the external environment and irreversible processes within the system:

Medical Thermodynamics and Resonance Approach

In his studies combining medicine and engineering, Elmas uses the following concepts:

Thermodynamic Interaction: He views the energy flow and temperature balance in the body as parameters for disease analysis.

Frequency and Resonance: He focuses on algorithms that utilize the resonance effect of specific frequencies in the delivery of smart drugs to the body or in treatment processes.

Biomedical and Smart Drugs

He has conducted interdisciplinary studies on FM Modulated Smart Drug Algorithm for the treatment of cancer cells. He has developed "bio-robotic resonance" and thermodynamic interaction models for the treatment of Covid-19 and similar viruses.

Technical Detail: "ELMAS's Thermodynamic Theory" and Medical Application

Dr. Elmas has developed a theoretical model based on the "5th Law of Thermodynamics" in addition to the classical laws of thermodynamics. Technical Details: This theory is based on the "Interaction of Energy and Matter." Going beyond traditional thermodynamic systems, it attempts to explain how biological

systems (such as the human body) process energy and resist disorder (entropy). Application Example (Medical Thermodynamics): He has transformed this theory into an algorithm for cancer treatment. Using the thermodynamic signature (heat emission and energy consumption) of cancerous cells, which differs from healthy cells, he has prepared simulations for "FM Modulated Smart Drug" systems that focus only on that region. Dr. Emin Taner Elmas's "FM Modulated Smart Drug Algorithm," developed for the treatment of cancer cells, is a theoretical model that combines biomedical engineering with thermodynamic principles. 1. Basic Working Principle (Frequency Resonance)

The algorithm is based on the assumption that cancer cells and drug molecules vibrate at a specific frequency.

Sinusoidal Waveform: It is assumed that the frequency changes of the RNA structures of cancer cells and the drug algorithm are in a sinusoidal waveform.

Frequency Matching: When the FM (Frequency Modulation) range of the drug controlled by a bio-robotic system matches the RNA frequency range of the cancer cell, the activation of the cell is terminated.

Cancellation Effect: This process works with a logic similar to the energy distribution of two sinusoidal waves that cancel each other out.

Thermodynamic and Bio-Robotic Interaction

The study is an application of Dr. Elmas's "5th Law of Thermodynamics" theory.

Energy Transfer: When the smart drug encounters the cancer cell, it provides a thermodynamic interaction by performing an energy transfer and mass exchange.

System Limitations: This interaction slows down cancer cell growth by disrupting the working mechanism of the cell's RNA structure and helps the immune system regain control.

Algorithm and Simulation Details

The simulation presented in the article was tested in the MATLAB environment:

Parameters: Sampling frequency was set to 1 kHz, and carrier frequency (f_c) to 200 Hz.

Cancer Cell Frequency: The "self-vibration mutation rate" for cancer cells was modeled based on the 100 Hz value, also used for coronaviruses.

Modulation: The drug algorithm is created by applying frequency modulation (fmod) with a frequency deviation of 50 Hz (fDev) [50-53].

Conclusion

This study is a theoretical biomedical model that aims to target cancer cells with a physical/frequency-based method, unlike classical chemotherapy.

In Dr. Emin Taner Elmas's approach, targeting cancer cells is based on the thermodynamic signatures of these cells, which differ from healthy cells. Cancer tissues are "chaotic" systems exhibiting high entropy (disorder) and irregular heat distribution due to uncontrolled proliferation.

In Elmas's theoretical framework, this targeting capacity is based on three pillars:

Thermodynamic Gradient and Vector Targeting

Cancer cells have higher metabolic activity than normal cells and therefore a different energy gradient (pressure and temperature difference). • **Negative Entropy Flow:** Elmas models smart drug

carriers (e.g., TiO₂-based nanostructures) to detect this energy difference. The drug is directed towards the "most disordered/highest energy" point in the body (cancer) with a vectorial attraction. • **Thermal Focusing:** The micro-temperature increase in the cancerous region triggers the thermally sensitive mechanism within the smart composite material (or nano-robot), releasing the drug only at that point.

Resonance and Acoustic Disintegration (Makam Effect)

The cell membrane tension and bulk density of cancer cells differ from those of healthy cells. • **Selective Resonance:** A sound wave at a specific frequency (a specific Turkish musical mode or a high-frequency signal) resonates only with the natural frequency of the cancerous cell. • **Cellular Destruction:** This resonance, according to the principle of vectorial energy transfer of Elmas, creates mechanical stress on the membrane of the cancerous cell. While healthy cells are unaffected by this frequency, the cancerous cell can be destroyed as if struck by an "acoustic hammer" or forced to take up the drug.

The Role of Nano-Carriers (Scaffolds) and 3D Printing

Porous structures produced with 3D printers are both a filter and a carrier in cancer treatment:

• **Targeted Release:** Materials such as TiO₂ can oxidize cancerous cells when they interact with radiation or specific light lengths (photocatalytic effect). • **Bio-Robotic Intervention:** Elmas's vision incorporates micro-sensing systems similar to "Bio-Eye-Tronic," tracking the spread of cancerous tissue (metastasis vector) and updating the direction of intervention in real-time. This method aims to prevent the damage that chemotherapy causes to the entire body (increased systemic entropy) by thermodynamically correcting or eliminating only the "damaged" area.

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BIOGRAPHY OF AUTHOR:

Asst. Prof. Dr. Dipl.-Ing. Emin Taner ELMAS



Asst.Prof. Dr. Emin Taner ELMAS is a Mechanical Engineer having degrees of B.Sc., M.Sc., Ph.D., and was born in Sivas in 1974. He completed his doctorate at Ege University, Graduate School of Natural and Applied Sciences, Mechanical Engineering Department, Thermodynamics Science Branch, and his master's degree at Dokuz Eylül University, Mechanical Engineering Department, Energy Science Branch. He also completed his undergraduate education at Hacettepe University, ZEF, Mechanical Engineering Department and graduated from the faculty with honors in 1995 and became a mechanical engineer. He was awarded a non-refundable scholarship by the Turkish Chamber of Mechanical Engineers in his 4th year because he was the most successful student during his first 3 classes study at the faculty. He graduated from İzmir Atatürk High School in 1991.

Asst. Prof. Dr. ELMAS has completed his military service as a NATO Officer in Bosnia and Herzegovina. He was a "Reserved Officer" as a "2nd Lieutenant" as an "English-Turkish Interpreter". He was also a "Guard Commander" and served in Sarajevo, Camp Butmir within the SFOR task force of NATO. He has been awarded with 2 (two) NATO Medals and Turkish Armed Forces Service Certificate of Pride (Bosnia & Herzegovina).

In addition to his academic duties at universities, he has worked as an engineer and manager in various industrial institutions, organizations and companies; He has served as Construction Site Manager, Project Manager, Management Representative, Quality Manager, Production Manager, Energy Manager, CSO-CTO, CBDO, Factory Manager, Deputy General Manager and General Manager.

Asst. Prof. Dr. Elmas is Department Head and is an Assistant Professor of Automotive Technology at the Department of Motor Vehicles and Transportation Technologies at Vocational School of Higher Education for Technical Sciences at IGDİR UNIVERSITY, Turkey. He is also an Assistant Professor of Bioengineering & BioSciences at the same university. He has nearly 30 years of total experience in academia and in industry.

He has served as a scientific referee and panelist for ASME, TUBITAK and many scientific institutions, organizations and universities, including NASA.

He has published numerous international and national academic scientific articles, books, and book chapters, and serves as an editor for international academic journals. He also serves on the scientific committees of many international conferences, publishing conference and congress proceedings and giving presentations.

"Mechanical Engineering, Energy Transfer, Thermodynamics, Fluid Mechanics, Heat Transfer, Higher Mathematics, Evaporation, Heat Pipes, Space Sciences, Automotive, Bioengineering, Medical Engineering Applications, Neuroengineering, Medical Technique" are his academic and scientific fields of study; "Heating-Ventilation Air Conditioning Applications, Pressure Vessels, Heat Exchangers,

Energy Efficiency, Steam Boilers, Power Plants, Cogeneration, Water Purification, Water Treatment, Industrial Equipment and Machinery, Welding Manufacturing, Sheet Metal Forming, Machining" are his industrial experience fields.

As of 2026, he has been awarded the Nobel Scientist Award by the international platform organization Scientific Laurels.

Asst. Prof. Dr. Emin Taner ELMAS is also a musician, saz (baglama) virtuoso player and ney (Nay, Turkish Reed Flute) performer. He plays also cümbüş instrument and performs darbuka rhythm instrument. He has a YouTube Music Channel (Emin Taner ELMAS) which includes some of his sound recordings of him playing the saz-baglama and blowing the ney. He composed the poem written by the great poet Âşık Veysel ŞATIROĞLU under the name of "Raşit Bey" in memory of his father Judge (Hâkim) Raşit ELMAS as "Raşit Bey Türküsü", wrote it down, notated and published it as an academic article and broadcasted this song on his own music channel. He wrote the poems entitled "Canım Babam" and "Geldim Babam" which he wrote also in memory of his father and published in an academic literature journal, and composed instrumental musics for these poems. He also composed an instrumental song called "Annem Annem Türküsü" and gave it to his mother, Lawyer Tuna ELMAS, as a gift on Mother's Day, 11.05.2025. He also has a poem titled "Ney and Neyzen." He also wrote and presented a poem titled "Esra Kardeşim" to his sister, Esra ELMAS, an archaeologist and English teacher. He has published books including "Saz-Bağlama Tuning System Method" ("Saz- Bağlama Akort Sistemi Metodu") and "Ney and Neyzen; Ney's Pitches, Frets, Sound Stages, Octaves, Structure, Performance, Ney Maintenance and Basic Music Theory" (Ney ve Neyzen; Ney'de Perdeler, Ses Devreleri, Oktavlar, Yapısı, İcrası, Ney Bakımı ile Temel Musiki Nazariyatı) and My Collection of Literary and Musical Art Works – I Story / Anecdote / Essay / Poetry / Verse / Prose / Humorous; witty - satirical; poetic stories / Lyrics / Composition (Edebiyat ve Musiki Sanat Eserleri Külliyyatım – I Hikâye / Anekdot / Deneme / Şiir / Manzume / Nesir /Mizahi; nükteli – hicivli; şiirsel hikâyeler / Güfte / Beste). He continues his artistic studies by writing various articles, books, poetry, lyrics and also realizing musical composition and repertoire works.

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