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Abstract Book

3rd Global Webinar on Neuroscience and Brain Disorders

December 03-04, 2025

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Prof. Luiz Moutinho
University of Suffolk, England

concepts like Connectomics , Modular Mind , Neuroimaging Informatics and Open Science

The presentation starts by delving into the areas of behavioural psychology , neuropsychology and Evolutionary psychology. Other topics that follow include neuroscience , neuromodulation , genetics , computational neuroscience and behavioural neuroscience . Thetalk will then move on to the discussion of epigenetics and behavioural genetics . Neuro Genetics and Polygenic Risk Scores are also covered . The final part of the presentation is dedicated to the discussion of the concepts like Connectomics , Modular Mind , Neuroimaging Informatics and Open Science.

Biography:

Professor Luiz Moutinho (BA, MA, PhD, MAE, FCIM) is a Fellow and Visiting Professor of Marketing at Suffolk Business School, Faculty of Arts, Business and Applied Social Science, University of Suffolk, Ipswich, England, UK, and at The Marketing School, Portugal and Adjunct Professor of Marketing, Graduate School of Business, Faculty of Business and Economics, University of the South Pacific, Suva, Fiji. In 2020 he was elected as the member of The Academia Europaea. In 2017 he received a degree of Prof. Honoris Causa from the Univ. of Tourism and Management Skopje, North Macedonia. During 2015 - 2017 he was professor of BioMarketing and Futures Research at the DCU Business School, Dublin City University, Ireland. This was the first Chair in the world on both domains - BioMarketing and Futures Research. Previously, and for 20 years, he had been appointed as the Foundation Chair of Marketing at the Adam Smith Business School, University of Glasgow, Scotland. Previously, he got his first Chair in 1989 at the University of Wales College of Cardiff 1989-2006. Professor Moutinho completed his PhD at the University of Sheffield in 1982. He has been a Full Professor for 34 years and has held Visiting Professorship positions at numerous universities worldwide. He is the Founding Editor-in-Chief of the Journal of Modelling in Management (JM2) and Co-editor-in-Chief of the Innovative Marketing Journal. His main areas of research interest encompass marketing, management and tourism futurecast, artificial intelligence, biometrics and neuroscience theory, evolutionary algorithms, human-computer interaction, the use of artificial neural networks in marketing, modelling processes of consumer behaviour, futures research. Prof. Moutinho has given keynote speeches, lectures, seminars, talks, etc. in 46 countries worldwide. Prof. Moutinho has 38 books published, over 159 articles published in refereed academic journals. He has 16250 academic citations, the h-index of 59 and the i10-index of 160 (Google Scholar, August 12th, 2023). Professor Luiz Moutinho (BA, MA, PhD, MAE, FCIM) is a Fellow and Visiting Professor of Marketing at Suffolk Business School, Faculty of Arts, Business and Applied Social Science, University of Suffolk, Ipswich, England, UK, and at The Marketing School, Portugal and Adjunct Professor of Marketing, Graduate School of Business, Faculty of Business and Economics, University of the South Pacific, Suva, Fiji. In 2020 he was elected as the member of The Academia Europaea. In 2017 he received a degree of Prof. Honoris Causa from the Univ. of Tourism and Management Skopje, North Macedonia. During 2015 - 2017 he was professor of BioMarketing and Futures Research at the DCU Business School, Dublin City University, Ireland. This was the first Chair in the world on both domains - BioMarketing and Futures Research. Previously, and for 20 years, he had been appointed as the Foundation Chair of Marketing at the Adam Smith Business School, University of Glasgow, Scotland. Previously, he got his first Chair in 1989 at the University of Wales College of Cardiff 1989-2006. Professor Moutinho completed his PhD at the University of Sheffield in 1982. He has been a Full Professor for 34 years and has held Visiting Professorship positions at numerous universities worldwide. He is the Founding Editor-in-Chief of the Journal of Modelling in Management (JM2) and Co-editor-in-Chief of the Innovative Marketing Journal. His main areas of research interest encompass marketing, management and tourism futurecast, artificial intelligence, biometrics and neuroscience theory, evolutionary algorithms, human-computer interaction, the use of artificial neural networks in marketing, modelling processes of consumer behaviour, futures research. Prof. Moutinho has given keynote speeches, lectures, seminars, talks, etc. in 46 countries worldwide. Prof. Moutinho has 38 books published, over 159 articles published in refereed academic journals. He has 16250 academic citations, the h-index of 59 and the i10-index of 160 (Google Scholar, August 12th, 2023).

Prof. Zhenhuan LIU
Nanhai Affiliated Hospital for Women and Children
Guangzhou, China

Scientific evaluate quantification of social and behavioral by scalp Acupuncture on children with autism spectrum disorder

Background:

Autism spectrum disorders (ASD) are a series of neurodevelopmental disorders characterized by social disorders, rigid behaviors and narrow interests.The World Health Organization (WHO) estimates that the prevalence of ASD has been increasing over the past 50 years. With one in 48 children, ASD has become a global public health problem. Currently, there is no effective drug treatment for children with ASD, and there is no effective medical treatment.

Education of these ASD children by special education methods alone has a poor outcome, with 75% of ASD children failing to achieve normal or cure. And 80% of ASD children suffer from mental retardation, ADHD, epilepsy, emotional sleep disorders and so on. It can cause pain and suffering for ASD children and their parents. The effects may persist into adulthood.

Objective: The purpose of this study was to investigate the effect of scalp acupuncture of painless therapy on core symptoms, quality of life and communication ability of children with ASD. Our team conducted a controlled study of scalp acupuncture therapy in 198 children diagnosed with ASD. The clinical diagnostic criteria of children with ASD who were selected for met the DSM-5 criteria. Each child and parent signed an informed consent form.

Methods: 198 children with ASD were randomly divided into two groups. One group 89 cases received painless scalp electroacupuncture therapy and the other group 89 cases received Pediatrics rehabilitation care and special education for 6 months. Clinical evaluation methods were ATEC, ABC,CARS and Gesell developmental scales. Pre -

and post-treatment assessments were performed.The age of the two groups was 3-7 years old, and the gender, degree of illness,

comorbidities, family education and rearing methods, course of disease and other factors were statistically analyzed. There was no significant difference between the two groups, and there was a certain comparability between the two groups. Painless scalp electroacupuncture therapy method, acupuncture and precise scalp surface projection in functional language area of cerebral cortex were selected for scalp acupuncture. Broca and Wennicken area were simultaneously stimulated

by acupuncture. Painless scalp acupuncture is performed every other day. After Painless scalp acupuncture acupuncture, electrical acupuncture was given to stimulate the language area for 15 minutes, every 10 times of acupuncture, rest for 15 days. A second clinical evaluation was conducted 6 months after painless scalp acupuncture.

Results:

The improvement of core symptoms in the painless scalp electroacupuncture treatment group was better than that in the control group. The initial clinical improvement was in abnormal visual communication, improvement of sleep and mood, and the following clinical effects were alleviation of rigid behavior, improvement of attention, and improvement of verbal and social communication ability. Assessment of these scales reflects a gradual improvement in these core

symptoms. But these changes were not significant in the control group.

Conclusion:

The research results showed that painless scalp acupunctureacupuncture therapy could significantly improve the core symptoms of ASD children, such as extreme loneliness, eye contact disorder, language repetition, compulsive agreement, and indifference, significantly regulate the abnormal EEG of ASD children, and positively promote the cognitive level of low-functioning ASD children. The clinical efficacy of the treatment of ASD was not closely

related to age. Painless scalp electroacupuncture can be used as an effective supplement and alternative medicine therapy in the clinical treatment of ASD. The popularization and application of painless scalp acupuncture therapy can improve the quality of life of ASD children and reduce

the economic burden of society and family.

Since 2004, Nanhai Women's and Children's Hospital Affiliated to Guangzhou Univer-

sity of Chinese Medicine has applied our original pediatric neurorehabilitation scalp acupuncture therapy to treat ASD and achieved good clinical efficacy. In order to further promote the application, our research group obtained the exact clinical effect confirmed by scientific evaluation through the clinical validation study and clinical follow-up of 1000 cases of ASD. We also receive pediatricians from all over the world who come to our hospital in China to study head acupuncture therapy for ASD. Doctors and rehabilitation therapists from Switzerland, Australia, the United States, Germany, Egypt, Russia, Kazakhstan and other countries have come to our hospital to study the clinical application of head acupuncture therapy in ASD.

Biography:

Zhenhuan LIU professor of pediatrics,Pediatric acupuncturist Ph.D.tutor.He has been engaged in pediatric clinical and child rehabilitation for 40 years. Led the rehabilitation team to treat more than 40,000 cases of children with intellectual disability, cerebral palsy and autism from China and more than 20 countries,More than 26800 childrens deformity returned to school and society and became self-sufficient.The rehabilitation effect ranks the international advanced level.Vice-chairman of Rehabilitation professional committe children with cerebral palsy,World Federation of Chinese Medicine Societies.Visiting Profassor of Chinese University of Hong Kong in recent 10 years.He is most famous pediatric neurological and rehabilitation specialists in integrated traditional Chinese and Western medicine in China.He has edited 20 books.He has published 300 papers in international and Chinese medical journals.

David Wortley
International Society of Digital Medicine (ISDM), UK

Brainwave Technologies and Biofeedback Applications

Brainwave technologies, grounded in the analysis of electrical brain activity, are gaining significant momentum across various fields due to their potential to revolutionize how humans interact with technology. These technologies utilize electroencephalography (EEG) and other neural recording methods to detect and interpret brainwave patterns, enabling a wide range of applications. In healthcare, brainwave monitoring systems are used to diagnose neurological disorders, monitor cognitive functions, and assist in rehabilitation for conditions such as epilepsy, stroke, and traumatic brain injuries. In mental health, brainwave technologies offer promising tools for detecting and managing stress, anxiety, and depression through neurofeedback systems. Cognitive enhancement and training are also expanding, with neurogaming and brain-computer interface (BCI) applications helping users improve attention, memory, and emotional regulation.

Beyond healthcare, brainwave technologies are finding their place in innovative consumer products. BCIs allow users to control external devices, such as computers and prosthetics, simply by thought, creating new possibilities for accessibility and user experience in industries like gaming, assistive technologies, and smart home devices. Brainwave-based authentication systems are being developed as secure, personalized alternatives to traditional biometric methods. Furthermore, in education, brainwave tracking systems are being utilized to assess students' engagement and cognitive states, helping educators tailor learning experiences to individual needs.

However, despite their growing adoption, challenges remain in improving the accuracy and scalability of brainwave technologies. Noise in brainwave data, individual variability, and ethical concerns around privacy and data security need to be addressed for widespread implementation. As brainwave technologies continue to evolve, interdisciplinary collaboration between neuroscience, engineering, and ethics will be crucial to ensure

these tools are both effective and responsible. With ongoing advancements, brainwave technologies hold the potential to transform industries and improve the quality of life by bridging the gap between the human brain and machines.

Biography:

David Wortley is a Non-Executive Director of the World Lifestyle Medicine Education Services (WLMES), a VP of the International Society of Digital Medicine (ISDM) and CEO & Founder of 360in360 Immersive Experiences. He is a Fellow of the Royal Society of Arts and Commerce and a global thought leader and innovator on enabling technologies for health, education and motivational speaking. He is an Associate Member of the Royal Society of Medicine and a Visiting Fellow at the Faculty of Health and Social Sciences at Bournemouth University. As the Founding Director of the Serious Games Institute (SGI) at Coventry University, his team established an International Centre of Excellence for Applied Research and Innovation in the field of serious games and immersive technologies for a wide range of applications. His areas of special interest are technologies for preventative healthcare, collaboration, virtual reality and interactive rich media knowledge sharing. He a professional speaker, virtual event facilitator, webinar host and publisher.

Dr. med. Manfred Doepp
Holistic Centre, Switzerland

Impaired lymph drainage in the brain due to dental problems can trigger brain diseases

At present, we are experiencing increasingly frequent brain problems. These also have to do with coagulation disorders caused by Covid-19 vaccines and spike proteins. What is usually neglected are the problems caused by toxins in the mouth area and the resulting problems with the lymphatic drainage of the head and neck in the context of stress on the glymphatic system of the brain.

The glymphatic system is a disposal system for waste products in the central nervous system of vertebrates, i.e. in the brain and spinal cord. The name is a neologism of the terms glia and lymphatic system and was introduced by Maiken Nedergaard (Rochester and Copenhagen) in 2012. Similar to the lymphatic system, which ends outside the meninges, i.e. does not occur in the CNS, the glymphatic system acts as a flowing circulation system for the removal of brain metabolic end products and toxins.

Which toxins in the area of the mouth are important? A) Metals, i.e. heavy metals in amalgam and dental gold, light metals like titanium in implants; B) Chronic bacterial inflammation of the gingiva and gums, especially gangrenous pulp, pulpitis, granuloma findings; C) Jaw bone foci in the sense of non-infectious chronic ostitis (NICO, FDOC); D) Periodontitis and gum pockets filled with problematic pathogens.

As a result of these disorders, the brain cannot detoxify itself sufficiently and accumulates toxins. Different brain diseases can be triggered depending on the individual's previous exposure. After intensive dental diagnostics with computer tomography, we have regularly found dentogenic findings, and improvements in symptoms after treatment. These examinations should be carried out in all cases where there are unclear brain-re-

lated problems.

What are the most important dentogenic problems? NICO = FDOC: non-infectious-chronic-osteolysis. NICO take place in the jawbone. These are areas in the bone filled with fatty tissue. You can hardly see them in the usual X-ray, but in CT and with special ultrasound. A suspicion can be confirmed by determining the «Rantes» value in the blood. NICO can cause serious diseases. On the one hand cancer (especially breast cancer), on the other hand dementia and Alzheimers due to the stress on the glymphatic system and afterwards toxins accumulation in the brain.

Surgical elimination of NICO is absolutely necessary. We have seen A) normalizations of tumor markers, B) normalizations of the RANTES, and C) clear improvements of dementia and Alzheimers after removal of the NICO. .

Biography:

Dr. Manfred Doepp Born in Bad Berleburg/Germany. Medical studies in Munich and Giessen, exams and doctorate in 1971. Scientific assistant at the clinical centre of the Justus Liebig University at Giessen until 1978. Senior physician for nuclear medicine at the clinical centre in Hanau until 1985. Founder of the "International Institute for Experiential Medicine, Founder of the "Diagnostic Centre for Mineral Analysis and Spectroscopy DCMS. From 2011 to 2018 Head Physician of the Quantisana Health Centre for Holistic Diagnostics and Therapy in CH 9404 Rorschacherberg. Since 2018 Head of the HolisticCenter in CH 9030 Abtwil. Many oral and written publications in the field of complementary and energy medicine. Many videos on Youtube, Google and complementary portals. Reviewer of international journals. Co-founder and Deputy President of DGEIM.

Dr. Leighton J Reynolds
Treatment and tools for Trauma
Los Angeles, California, USA

"Clinical Research Project: Listening to The Brain/Recovering The Brain/Mind"

This presentation will focus on what I have learned through my clinical research project (ongoing for 6 years now) about the healing of trauma to the brain/mind. I began this project as a result of my work with professional athletes and traumatic brain injuries. During the course of these evaluations and the treatment that followed, I was fortunate enough to have had the foresight to research each one of these cases. Form my research I developed the Complex Architecture Model of the neurodegenerative progression of trauma to the brain/mind, that it develops as 4 interlocking architectures in response to being traumatized. (See figure #1) I also developed a series of guidelines for working with brain injured patients. This is an evolving process as I learn more about the neurobiology of the brain, how it gets damaged, and what we can to help the brain/mind heal and recover from the damage.

During the presentation, I will outline the above guidelines for treatment (what I understand thus far), present a case history illustrating these guidelines (see figure #2), and share my constantly evolving treatment protocol. And finally, I will share my experience 22 that recovering and restoring the brain injured individual sense of self is crucial to their recovery.

Biography:

Dr. Reynolds began toying with the idea of fictional writing back in early 2008, after having spent years writing scientific and nonfiction pieces during the process of obtaining his doctorate. Then, one Sunday morning in March, he simply sat down and started writing and writing – and the rest is history. He was (and still is) heavily inspired by Santa Clarita's year-round fire seasons. After witnessing three simultaneous wildfires in the valley in October of 2007, the gears started to turn in his head.

Dr. Roger H. Coletti
Interventional Health, PA, Lewes, DE, USA

Treatment of Chronic Muscle Spasm and Pain with the CMECD® Procedure

It has been noted by multiple researchers that there is Spontaneous Electrical Activity (SEA) at painful trigger points. This author has studied chronic muscle spasm and found that SEA is always present and appears to be the cause for the chronic nature of muscle spasm and resulting chronic pain. Chronic muscle spasm and resulting chronic pain can last for years and cases where the spasm lasted for decades were not only found but successfully treated with the CMECD® procedure. This procedure consists of EMG guidance searching for the SEA and using a combination of phenoxybenzamine, Lidocaine and dexamethasone to extinguish the SEA. Large areas of muscle often need to be treated. Thanks to lidocaine acting as an antiarrhythmic, the SEA is extinguished within seconds and the phenoxybenzamine then takes over after about one hour. With the resolution of the SEA, the muscle can immediately relax. The phenoxybenzamine forms a covalent bond on the alpha motoneuron receptor and the result is a duration of action of 2-3 months. This is enough time for the muscle to recover the prolonged effect of ischemia resulting from the prolonged spasm. Muscles treated in this fashion need only a single injection. Recurrences are rare and only occur if there is a repeat overuse or traumatic injury. The CMECD® procedure is available for use by any medical caregiver that is licensed to give injections. The ability to permanently relieve chronic pain without the use of opioid drugs should prompt interest in this procedure.

What will audience learn from your presentation?

The audience will be exposed to an EMG guided injection procedure that will allow them to treat chronic pain resulting from chronic muscle spasm in individuals with post laminectomy syndrome with a single injection regardless of the length of time the chronic spasm had been present. Details and practical considerations will be covered. The EMG presentation will be reviewed with treatment and outcome EMG videos. Theoretical

considerations will be discussed.

The ability to make use of the CMECD® procedure will allow nurses under physician supervision and independent nurse practitioners to treat individuals suffering from chronic pain. The economy of the procedure will allow them to directly treat patients directly and be rewarded with the personal accomplishment of immediate and sustained relief of chronic pain. The EMG findings that will be presented offer an opportunity for further research in the origin and treatment of chronic pain and chronic muscle spasm..

Biography:

Dr. Coletti did a fellowship in interventional cardiology in New York and had a career in interventional cardiology in New Jersy and Delaware, USA. He was board certified in internal medicine, cardiovascular disease, interventional cardiology, and nuclear cardiology. He had an interest in chronic muscle spasm and found that chronic muscle spasm had an ischemic etiology and developed a technique using EMG guidance to reverse the ischemia and resolve the chronic muscle spasm. His publication in this area is 12 abstracts, a book and 2 recent articles. He is currently retired from clinical practice and no longer has institutional affiliations.

Albin Kaelin
CEO epeaswitzerland gmbh
Switzerland

Cradle to Cradle Design Innovations Albin Kälin, CEO, epeaswitzerland

Cradle to Cradle® Design implies a paradigm shift in industrial production. The design and innovation process move from the present linear thinking towards thinking in closed cycles. Materials and processes are chosen and used in a way that the resulting products become "nutrient" at the end of their life. The materials are either reintegrated into biological cycles or remain in technical cycles. Cradle to Cradle® Design does not allow waste and strides to keep resources in endless cycles. Sample products and projects will demonstrate the concrete application and results of the design process. Design for disassembly and avoidance of problematic substances allows for a new level of quality and safety during production and use and opens new opportunities for material reuse. This can be combined with system and business models that leave the ownership with the producer. This guarantees take back and maximal reuse of resources. The radical rethinking of design and production can go even beyond towards regenerative design.

Production processes are designed according to the model of nature. No waste, no surrender, no restrictions. The right materials at the right place at the right time, in endless cycles is the key. Case

studies will cover:

- Innovations drive change, e.g biodegradable polymers, flexible packaging
- Changes from passive to active business approach
- Business management systems + certification integration
- Dissemination, scaling up
- Creating demand, the pull effect
- Redesign from downcycling to upcycling
- Circular Accounting by epeaswitzerland™

- EU Taxonomy, Digital Product Passport Compass Cradle to Cradle™

As a partner of industry in the role as knowledge and innovation trustee, epeaswitzerland has been able to implement and celebrate numerous breakthroughs of concrete innovations with industry in recent years: solutions to global problems of "microfibers", "bottles in the ocean", " toxic and non-recyclable packaging "have been created, such as biodegradable elastomers and polymers, reactive dyes or printing inks for packaging. These have been applied in areas such as flexible packaging, beverage bottles, parquet floors, luxury products, mattresses, workwear and outdoor textiles.

References:

THE EUROPEAN Climate Change: “A book for the businesses of tomorrow”

From Rebel to Radical Innovator; Leading the Transformation through Ciruclarity”

Albin Kaelin .

Biography:

Albin Kaelin is the founder, owner and CEO of epeaswitzerland gmbh since its foundation in 2009 and has driven the development and implementation of the Cradle to Cradle® design concept in various areas of the company. As early as 1993, he initiated the development of the Climatex® product line, which produced the world's first Cradle to Cradle® products. wards: Honored with over 30 awards since 2022, including IE 100 Award- 2024 Albin Kaelin - Most Innovative CEO of The Year testify to his leadership and innovative spirit.

Laura Torres Caro

Universidad UMA, Málaga, Spain and Texas Woman's University, Denton, USA

The Girl at the Mental Stop II: Echoes of Love, Fear and Emotional Dissociation in an Autoethnography Narrative Case-Study of TBI

What does it mean to feel love when your brain no longer aligns with your emotions? This autobiographical case study, "The Girl at the Mental Stop II: A journey through Emptiness and Emotional Contradiction" (Torres-Caro, 2025) examines the phenomenology of emotional attenuation and affective disconnection as long-term sequelae of traumatic brain injury (TBI). Twenty years after the initial injury, I, the patient, presents with amygdala-related dysfunction, resulting in emotional emptiness, loss of affective resonance, and recurrent episodes of cognitive blankness. These manifestations are not indicative of a primary psychiatric condition but rather of disrupted limbic-cortical communication.

From a clinical challenge: patients exhibiting emotional flatness or detachment are often referred to psychiatry and prescribed antipsychotic or antidepressant treatments. Such interventions, when misapplied to neurological rather than psychiatric phenomena, may further alter neural network communication, exacerbate cognitive-emotional disconnection, and compromise cerebral function. Correct diagnostic differentiation between mental and brain health disorders is therefore essential to prevent iatrogenic effects and ensure appropriate neurorehabilitative management. From a neurophenomenological perspective, the paradox of "loving without feeling love"; "not fear"; "not too much over thinking" reflects the dialectical interplay between affective void and existential meaning. In this context, subjectivity becomes a fragmented territory in which reflective consciousness remains active, yet emotional resonance—the basis of connection with both the environment and the body—is attenuated or dissociated, revealing the neurobiological impact of injury on emotional experience and the continuity of the self.

Disruption in amygdalar and fronto-limbic circuitry underlies these alterations in emotional awareness and regulation (Kim & Jung, 2006; Calhoon & Tye, 2015; Leal et al., 2017) Individuals may intellectually recognize emotions such as love—yet fail to expe-

rience their emotional warmth, producing what can be conceptualized as "affective emptiness." By integrating clinical narrative, phenomenology, and neuroscience, the study proposes that emotional emptiness is a dynamic space in which the presence and absence of love coexist, shaping the reconstruction of identity and relational meaning. The tension between clinical observation and lived experience is emphasized, highlighting the invisibility of emotional suffering and its subtle manifestations in language, mind, and brain, integrating neurobiological assessment with a qualitative understanding of the patient's affective subjectivity.

—"How can emotions generate what the brain cannot perceive?"—.

Biography:

Laura Torres Caro is currently pursuing her PhD at the University of Málaga (UMA), Spain, where her research bridges the fields of Medicine and Literature. Her PhD thesis is uniquely centered on her own published novel, The Girl of the Mental Stop. Do not miss the train (Torres- Caro, 2023), which serves as a foundation for her investigation into her personal experience with a neurological illness after many years of a coma state that was diagnosed with considerable delay. This innovative approach allows her to explore the interplay between narrative and neurological conditions, contributing to the growing field of illness narratives and the role of personal storytelling in understanding the lived experience of medical conditions. Laura's academic journey began with English teaching studies at Maria Inmaculada (CAMMIA), Spain, followed by a master's degree in bilingual teaching from Francisco de Vitoria University in Madrid. Her expertise in bilingual education has been applied in various educational settings, including seven years as a teaching assistant in the United Kingdom. Since 2017, she has been actively teaching English in various Spanish schools, where she combines her pedagogical experience with her deep understanding of language acquisition. Beyond her novel, Laura has published two chapters in scientific books that delve into her interdisciplinary research, with a third chapter and a scientific article currently under review. Her scholarly work reflects her commitment to combining personal experience with academic inquiry, using her unique perspective to contribute to discussions around delayed diagnosis and neurological conditions in the context of literature and education. Her research offers valuable insights into how personal narratives can inform scientific understanding, particularly in the realm of patient-centered care and medical humanities, particularly in how personal narratives can illuminate scientific understanding of memory, neurological disorders, and patient-centered care.

Neil Bindemann
Person-Centred Neurosciences Society, UK

How Emotional Health impacts progression of neurological conditions

Growing research shows that emotional health plays a decisive role in how neurological conditions progress — and, in some cases, how their trajectory may be softened or partially reversed. Emotional experiences are not confined to the mind; they shape autonomic balance, immune activity, metabolic efficiency, and neuroplastic processes. When emotional expression becomes blocked or chronically inhibited, regulatory cycles are disrupted: inflammation increases, receptor signalling shifts, and the nervous system becomes less able to maintain homeostasis.

Conversely, when emotional flow is restored — through improved nervous system safety, completion of emotional signalling, and greater physiological coherence — the body often exhibits renewed capacity for repair. This can influence symptoms and functional outcomes in conditions such as Parkinson's, MS, migraine, and chronic pain.

This talk synthesises insights from neuroscience, psychoneuroimmunology, and lived experience to show how emotional health acts as a central regulator of neurophysiological resilience. It proposes that addressing emotional dysregulation is not complementary but fundamental to slowing, and potentially modifying, the course of neurological conditions.

Biography:

In the past 10 years I have integrated and applied my BSc Immunology and Neurosciences PhD to an experience arising from a brain tumour diagnosis. It has been through of that whole living experience that I have been drawn to create a more person-centred emotional health services with the aim of empowering people to rebalance their immune system. This led to evolving the Primary-Care Neurology Society (originally founded in 2005) into the first ever Person-Centred society that focuses on lifestyle neuroscience - still known by many as the P-CNS. Then, in 2022, coming out of a period working with the British Society of Lifestyle Medicine I co-founded the Lifestyle Health Foundation.

Florent Pirot
Independent Researcher, Valbonne, France

Organochlorinated Pesticides and Health, and Lessons for Parkinson's Disease and Pesticides in General

This article first provides the material explanation for the Chlordecone scandal, an organochlorinated pesticide that has been used largely until the 1990s. The diseases are explained from a chemo-physical principle that is related to the presence of alpha emitters from volcanic ashes associating with the negative ions chloride from the pesticides and bioaccumulating. It also allows to draw some more general conclusions on organochlorinated pesticides and health in general, and leads to general explanations on pesticides and Parkinson's disease in particular, with the role of another channel, cation-fluoride, underlined. Lastly it is shown that magnetic acupuncture is able to heal it successfully.

Biography:

Florent Pirot is an independent researcher with many special skills and independent knowledge of physics. Having started with a thorough study of the effects of depleted uranium on public health, he has accumulated a long knowledge of biophysics and of biomathematics as well as general health and other disciplines including geophysics (besides the anti-DU commitment) and other subjects altogether.

Tahereh Jamshidnejad-Tosaramandani
Razi University, Iran and Uppsala University, Sweden

Intranasal drug delivery to brain

The treatment of neurodegenerative and psychiatric disorders remains a challenge in medical research due to the presence of the natural barrier called the blood-brain barrier (BBB). It hinders all macromolecular compounds, and over 98% of low molecular weight drugs to permeate brain

BBB protects brain, but leads to a very low drug bioavailability at the desired target site. BBB is the most important barrier in brain drug delivery. There are a few solutions available in this regard. For instance, intranasal drug delivery with an enhanced targeting and reduced systemic side effects is a promising solution. Labile, low soluble, low permeant, and/or less potent drugs need a formulation other than the common solutions or suspensions due to limitations of nose to brain rout of administration. Nanobiotechnology helps in terms of formulation stability, brain targeting, brain bioavailability, toxicity, and time to reach the brain.

Biography:

Tahereh Jamshidnejad-Tosaramandani has completed his/her PhD from Razi University, Kermanshah, Iran. Currently, she is the Post-doc researcher in department of Nanobiotechnology, Razi University, Iran. She presented papers in more than 4 national and international conferences.

Prof. Dr. Emin Taner ELMAS
Igdir University, Turkey

A Novel and Unique Neuroengineering Method- Introduction to "Applied Medi-Brain Energy- Tronic Treatment Method" for SMA - Spinal Muscular Atrophy Disease, Paralyzed Patients, ALS Patients, MPS, SSPE, DMD Patients

This article is a scientific study introducing "A Novel Unique Neuro-Physical Medical Treatment Method for SMA – Spinal Muscular Atrophy Disease, Paralyzed Patients, ALS patients, MPS, SSPE, DMD Patients and for Similar Neurological Muscle Diseases" It will be called as "Applied Medi-Brain Energy-Tronic Treatment Method".

This is a non-surgical neuro - treatment method in medicine and neurology, called as "Applied Medi-Brain Energy-Tronic Treatment Method", named by Emin Taner ELMAS who is the author of the fundamental study of this current article "Emin Taner ELMAS; System Design and Development of a Novel Unique Neuro-Physical Medical Treatment Method for SMA - Spinal Muscular Atrophy Disease and for Similar Neurological Muscle Diseases. Collect J Neurol. 2024; 1: ART0037. https://doi.org/10.70107/collectjneurol-art0037. This "Applied Medi-Brain Energy-Tronic Treatment Method" is completely original and unique to the author of this article, Emin Taner ELMAS.

This "Applied Medi-Brain Energy-Tronic Treatment Method" is not a treatment that has been applied so far, it was invented, first thought and designed by the author of this article, Emin Taner ELMAS, and can be put into practice with step-by-step development stages.

Energy transfer process with a thermodynamical interaction stated by "ELMAS's Theory of Thermodynamics" may partially or totally contribute this unique treatment method. ELMAS's Theory of Thermodynamics" introduces a scientific approach for 5th Law

of Thermodynamics which is a theoretical application example for medical thermodynamics and is revealed by Emin Taner ELMAS who is the author of this article.

The project contains the theory of a method tried to be developed that can treat SMA (Spinal Muscular Atrophy)disease and other similar neurological diseases. In the study, brain data will be examined with a 14-channel EEG Electroencephalography device. With this device, the signals in the brain will be examined and these signals will be transmitted to the patients' muscles. Many physical and sensory functions cannot be performed in SMA patients. Coughing, swallowing, breathing, chewing, walking, hand, arm, leg and other muscle movements cannot occur. With this EEG device, the signals in the brain will be able to be seen as waves. By means of the special software of EEG device it is possible to manipulate the cube on the computer screen just by brain thinking and it is possible to simulate facial movements and facial expressions on the computer screen, as well.

This article explains a project which aims to develop a treatment method integrated with electrical electronic and computer systems based on neuro-engineering, which is much more economical and accessible to all patients regarding the treatment of the disease. That is, by the realization of the method to be developed, it may be possible to treat individuals with other neurological diseases without applying expensive treatment methods. BCI – Brain Computer Interface applications will also be used for the project.

With the implementation of this methodology introduced by this study, it is also possible to treat individuals who are suffering from other neurological diseases without applying expensive treatment methods. This Braingate-based technology which is planned to develop by this article, can also be used especially for paralyzed patients, ALS patients, MPS, SSPE and DMD patients as well as SMA patients.

By use of Braingate technology it is aimed to detect signals belonging to muscles and related functions from the brain motor cortex and transmit them as electrical signals to the muscles where these signals cannot be transmitted. This treatment is based on the principle of activating muscles that cannot work or weakly work with the implementation of electrical current. The project described in this article aims to improve the quality of life and treat SMA patients by artificially stimulating muscles using internal or external devices and systems. Energy will be given to inactive points with brain power, or rather brain energy. SMA patients will only need to think about this to move any limb they

want. When neurons become active, movement will occur spontaneously. For example, if the patient manages to raise his/her arm, it becomes obvious that muscles such as the breathing muscle, eating muscle, etc. can also be stimulated. The thought energy taken from the brain will be used for this work.

At the beginning stage of the project, the brain wave signals of two people who are not sick and two people who are sick will be examined and compared. These brain waves are actually electrical signals with voltage, current intensity, wavelength and frequency, and they carry a certain amount of energy. This energy will be evaluated as electrical energy and will first operate a mechanism containing a small electric motor, and the theory described in this article will be confirmed. As the ultimate goal, a limb of an SMA patient will be moved with this electrical energy. This energy will be sent to the motor cortex or to each muscle separately, depending on the requirement. Special "Nerve Cables" will be used as the signal and energy transmission tool here. Nerve Cable is the electrical cable drawn from the brain to any part of the body.

If the electric motor can be operated with the energy of the signals received from the brain, the muscles of the hands, arms, legs, neck, swallowing, chewing and breathing can also be energized and these muscles can be moved. This energy will be sent to the motor cortex or to each muscle separately, depending on the requirement.

Special "Nerve Cables" will be used as the signal and energy transmission tool here. Nerve Cable is the electrical cable drawn from the brain to any part of the body..

Biography:

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 succesful 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.

Dr. Yasser Mohammed Hassanain Elsayed

Independent researcher at the Egyptian Ministry of Health, Egypt

Yasser's Maneuver for Regaining the Consciousness in the Psychogenic Coma; A Novel Maneuver in Emergency Medicine and Psychiatry Technical, observational, interventional, case-control, and prospective study

Statement of the problem: Psychogenic coma, generally is one of the most anxious and irritant problems in clinical medicine for all medical practitioners. Using recurrent painful or mischievous stimuli is contraindicated in a psychogenic coma. Method of study and patients: My study was technical, prospective, observational, and interventional for 321 cases. The study was conducted in a physician outpatient clinic, Fraskour Central Hospital, and Ras-Al-bar Central Hospital. The author reported the 321 cases of psychogenic coma over nearly 5 years and 7-months, started from August 07, 2015, and, ended on March 07, 2021. Three selective groups were included in the study. Three groups were selected and evaluated for safety or complications and efficacy or responses. Suggesting hypothesis: Yasser's maneuver can regaining the consciousness in a psychogenic coma. The research objectives to evaluate this hypothesis might include: What is psychogenic coma? What is Yasser's maneuver? How can Yasser's maneuver do improvement of psychogenic coma? Is the study supported by past publicized literature studies? Results: The range of age in the study was 16-55 years with an insignificant P-value (0.231). There is a female sex predominance for all groups (67%). The response for the group I was: (97.35%)) vs. (85.85%)) in group II, and (81.37%) in group III. The most common associated risk factor was psychogenic hyperventilation syndrome (HVS); in the group, I was 79.6%, in group II was 78.4%, and in group III was 96.2±1.7 with no statistical significance (P-value 0.74). Conclusions: The author concluded that Yasser's maneuver is easy, available, quick, non-costive, time-saving, and extremely safe in the psychogenic coma. Very few and mild few mild complications for this maneuver encourage the generalizing use in the psychogenic coma.

Biography:

Dr. Yasser Mohammed Hassanain Elsayed is a scientist, critical care physician, cardiologist, and independent researcher at the Egyptian Ministry of Health. He has (155) publicized articles with (26) Innovations. They included (4) "Yasser's sign", (7) "Yasser's phenomenon", (1) "Yasser's modification", (2) "Yasser's maneuver", (1) "Yasser's method", (1) "Yasser's test", (4) "Yasser's syndrome", (1) "Yasser's fibrillation", (1) "Yasser's Procedure", (1) Yasser's ECG palpitations wave, (1) Factitious Yasser's Infarction, (1) "Yasser's Criterion"", and (1) "Yasser's Conversions". He was an international speaker in (39) Conferences, reviewed (333) articles, was an honorable editor for (275) Journals, (13), Conferences OCM, and was an instructor in (14) official and (131) non-official training. He has (51) COVID-19 publicized articles; He was nominated for big prizes such as Breakthrough Prize, Einstein Prize, etc. He gained (more than 186) excellence certificates.

Dr. Shubhrashankha Sen
Hind Institute of Medical Sciences, India

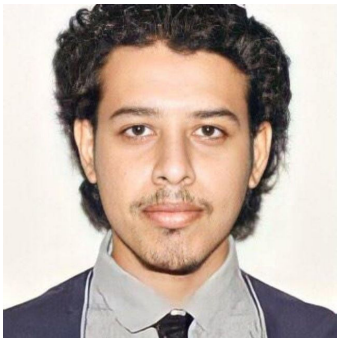
Neuro Motor Prosthetics

Neuro-technology is the application of electronics and engineering in the medical field to restore or improve the function of human nervous system.

Neuromotor prostheses are a type of Brain Machine Interface(BMI) that seeks to extract signals from the central or peripheral nervous system and delivers them to control devices.

Biography:

A MCh Neurosurgeon, passed out in 2025 from Mahatma Gandhi University, Jaipur. Performed more than 600 + surgeries both independently as well as under supervision. Past Positions have included both emergency departments and independent clinical work. Excellent bedside manner and patient communication skills developed through more than a decade of combined schooling and teaching experience.Now seeking for a professional opportunity to acquire more practical knowledge in a reputable hospital in field of Neurosurgery in order to build a solid base for further up-gradation in knowledge and skills as a doctor and also be a part in the growth of the institute.



Mustafa Abdullah Alhamed
University of Gezira, Sudan

Assessment of Perception, Attitude and Practice towards Epilepsy Among a Rural Population in Sudan, 2023

Background: Epilepsy is a neurological disorder characterized by recurrent seizures, which can affect individuals' daily lives significantly. Understanding the public's knowledge, attitudes, and practices (KAP) towards epilepsy is crucial for effective health education and management strategies. This study aimed to assess the perception, attitude and practice among a rural population in Sudan towards epilepsy.

Method and Materials: This study was a descriptive cross-sectional, community-based study conducted in March 2023 at a rural area in Gezira state in the central part of Sudan. A self-constructed questionnaire was designed by authors based on revision of previous similar studies. It consisted of four domains: The first domain was about sociodemographic data (age, gender, occupation, residence and educational level). The second, third and fourth domains consisted of questions regarding knowledge, attitude and practice. 150 participants were involved in this study and data was analysed by SPSS version 22.

Results: The total number of participant in this study was 150 individuals. The majority (83) were females (55.3%) and 36% of respondents were in the age group (15-30). The overall net result of KAP of the participants in this study towards epilepsy was as follows: for knowledge it was 67.9%, attitude 63.5% and practice 53.9%. There was no significant association between gender and knowledge of epilepsy, P-value 0.887.

Conclusion: The current study's findings underscore the need for targeted educational interventions to dispel myths and misconceptions about epilepsy. Increasing awareness through community-based programs can help reduce the stigma and improve the quality

of life for epileptic individuals. Comparative analysis with other studies highlights the universal challenge of epilepsy-related stigma and the critical role of education in mitigating its impact.

Dr. RichaYadav

MD Pathology, Hind Institute of Medical Sciences, India

CNS Tumor Classification: Molecular and Histopathological Approaches

The 2021 WHO CNS5 classification introduces major revisions in central nervous system tumor taxonomy by integrating histopathology with molecular profiling. It replaces “entity” with “type” and emphasizes combined diagnostic criteria, molecular grading, and the use of essential versus desirable markers. IDH mutation status, CDKN2A/B deletion, 1p/19q codeletion, and H3K27 alterations play central roles in defining glioma subtypes. Pediatric and adult diffuse gliomas are now classified separately, and DNA methylation profiling is highlighted for complex cases. The updated system promotes standardized, layered diagnoses and provides practical recommendations for resource-limited settings using surrogate immunohistochemical markers..

Biography:

A MD Pathologist, passed out in 2025 from Hind Institute of Medical Sciences , Ataria, Lucknow. My career has been guided by a commitment to diagnostic accuracy, scientific rigor, and continuous learning. After completing my postgraduate training, I dedicated myself to strengthening histopathology, cytology, and hematology services, ensuring each diagnosis reflected the highest standards of medical practice. I actively contributed to academic teaching, mentoring students and residents while participating in departmental quality improvement initiatives. My professional journey has been defined by discipline, integrity, and a deep respect for evidence-based medicine. Through my work, I aimed to advance patient care, support multidisciplinary teams, and uphold the values central to the practice of pathology.

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