

International Conference on

NATURAL, TRADITIONAL & ALTERNATIVE MEDICINE

October 11-12, 2023 | Virtual Event

2023
PROCEEDINGS

Theme: “The Art of healing comes from Nature.”

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PREFACE

NATURAL MEDICINE 2023

PREFACE



Scitechseries is thrilled to announce the successful completion of the **International conference on Natural, Traditional & Alternative Medicine** (Natural Medicine 2023) in **virtually** held from **October 11-12, 2023**.

Natural Medicine 2023 was a fantastic conference that featured well-known speakers who exchanged knowledge and participated in panel discussions on cutting-edge Natural Medicine 2023. An international audience comprised of young researchers, prominent corporate delegates, and gifted students from many nations was present at this highly renowned conference hosted by Scitechseries.

The theme of the conference was “**The Art of healing comes from Nature.**” The conference brought together leading experts, researchers, academicians, and practitioners from around the globe to discuss the latest advancements and emerging trends in the field of Alternative Medicine & traditional Medicine. In the realm of Natural Medicine, we explored foundational healthcare practices for natural medicine and delved into targeted, industry-specific approaches within the broader field of healthcare.



SPEAKER ABSTRACTS

NATURAL MEDICINE 2023



Ali Yetgin
Toros Agri Industry, Turkey

Traditional medicine in the Digital Age



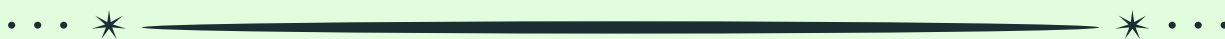
Abstract: In an epoch characterized by swift advancements in technology, the intersection between conventional medicine and the digital era presents a dynamic panorama of possibilities for healthcare and comprehensive recuperation. This discourse delves profoundly into the transformative potential of contemporary technology in conserving, enriching, and harmoniously combining with time-honored therapeutic practices. We shall embark on an exploration of how digital platforms, data analytics, telemedicine, and artificial intelligence are bringing about a revolution in the realm of traditional medicine. By means of thorough analysis of case studies and extensive exemplification, we shall illustrate how these tools are enhancing the accessibility of traditional healing methodologies, facilitating the development of personalized treatment plans, and augmenting patient outcomes. Furthermore, this presentation shall elucidate the ethical and cultural considerations that surround the integration of digital technologies into conventional medicine. We shall meticulously examine the significance of upholding the authenticity and cultural heritage of traditional healing practices while simultaneously harnessing the immense power of digital tools for their progression. Obtain a profound understanding of how the harmonious amalgamation of ancient wisdom and contemporary innovation can pave the way for more all-encompassing, efficient, and efficacious healthcare solutions. This presentation is evoking a heightened sense of admiration for the potential of technology in conserving and rejuvenating traditional healing practices in the 21st century.

Biography:

Ali Yetgin completed his undergraduate degree in molecular biology and genetics and his graduate degree in biotechnology from Izmir Institute of Technology. He worked as a researcher at Dokuz Eylül University Microbiology Laboratory. So far, it has been included in 52 publications, including 18 articles and 34 presentations. With his master's thesis, he developed chips that enable rapid screening of seeds. He works as an R&D Specialist at Toros Agri Industry the company and fulfills the task of national/international project submission. He also continues doctoral studies at Cukurova University and carries out his thesis on the development of microbial fertilizers.

**Asit Kumar Chakraborty**

Vidyasagar University, India

Development of resourceful Phyto-Drugs for the treatment of Multi-Drug resistant microbes

Abstract: Recent study in Kolkata suggested 5th generation PENEM-antibiotics meropenem and imipenem only able to eradicate less than 50% infections of MDR-patients. The blaTEM, blaCTX-M, blaOXA, blaNDM1, blaKPC types β -lactamases, AacC1/A1 acetyl transferases and AphA4 phospho transferases including catB3, sul1/2 and strA/B genes were detected in most plasmids and certain MDR chromosome islands in *E. coli*, *K. pneumoniae*, *S. aureus* and *A. baumannii*. The TetA/C, acrAB-TolC, mexAB-oprM, MaxAB, vexCD, vmeAB drug efflux genes were activated causing many antibiotics (tetracycline, azithromycin, amikacin, norfloxacin) useless. The RpoB, pncA, ponA, penA, and rpsL mutations are involved in multi-resistance in TB and Gonorrhoea. The mtrR, acrR, tetR and ampR types transcriptional regulators have also accumulated in superbug plasmids and are activated by antibiotics increasing superbug sepsis and death. Thus, we searched 80 household medicinal ethanol extracts for good antibacterial activities. We made an improved MDR-Cure organic phyto-extracts (*Cassia fistula*, *Suregada multiflora*, *Syzygium aromaticum*, *Cinnamomum zeynalicum*, etc) that inhibited Kolkata superbugs like *E. coli* KT-1_mdr and *P. aeruginosa* DB-1_mdr. We purified the active ingredient through TLC and HPLC and determined chemical nature of active components through MASS, FTIR and NMR. The CU1 chemical from *Cassia fistula* bark was a terpenine-polybromophenol that inhibited RNA polymerase of *E. coli* and *M. tuberculosis*. Similarly, NU2 chemical from *Suregada multiflora* root was a glycoside that inhibited *E. coli* DNA topoisomerase I. In Rat animal model we checked to clear superbug infections whereas the MDR-Cure lotion cleared the MDR nail infections in human. Our study gives a hope for new drug development against pan-drug resistant microbes.

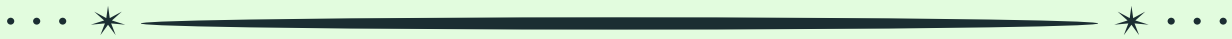
Biography:

AKC has completed his PhD in 1990 from Calcutta University and postdoctoral studies from UC Berkeley and The Johns Hopkins University School of Medicine. He is the Associate professor at the Department of Biotechnology, Vidyasagar University, India. He published about 70 papers in reputed journals and was studying phyto-drugs against mdr-bacteria.



Gary Archer
SAMRA University of Traditional Chinese
Medicine & Curentur University, UK

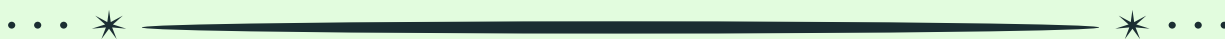
Natural homeopathic and chinese herbal treatment of in utero down's syndrome diagnosis



Abstract: Over three separate occasions young women have sought out advice and natural treatment as they were diagnosed with in utero Down's Syndrome fetus. Utilizing homeopathic remedies and Chinese herbal formulas all three fetus' self-corrected and were born "normal". The treatment plans, remedies and herbal formulas used will be discussed as will insights into how birth anomalies arise as well as laboratory exams that can be used to suggest when such anomalies may arise as well as the corrective course to take to avoid as well as correct them.

Biography:

Gary Archer has been practicing Homeopathic medicine combined with Traditional Chinese acupuncture and herbology for over 30 years in the Los Angeles, California area. In addition, for 25 years he worked as a teacher at a number of the acupuncture colleges in Los Angeles as well as the Dean of Academic Affairs at Royal University of Oriental Medicine. Over the years he has written numerous papers of his most interesting medical cases and published these at on-line homeopathic sites.

**Karol Chandler-Ezell**Stephen F. Austin State University,
USA**Kava (*Piper methysticum*) as veterans' alternative therapy of choice for PTSD, anxiety, and stress**

Abstract: This presentation explores the reasons Kava (*Piper methysticum*), a relative of black pepper used traditionally throughout the South Pacific for anxiety, stress, pain, and muscular spasms or cramps as an alternative remedy for Post-Traumatic Stress Disorder, Generalized Anxiety Disorder, and stress in military veterans. The reasons include dissatisfaction with allopathic therapies on multiple levels as well as positive traits associated with this traditional and minimally processed extract.

For more than a decade, military veterans in the USA and abroad have been seeking alternatives to the “medical” treatment options from military and civilian healthcare providers for their PTSD, GAD, and stress that are common for soldiers. Despite being prohibited for all active military personnel in all US armed forces, use is prevalent among veterans. Veterans learn about Kava in online forums and through word of mouth in veterans’ groups. These social groups share dosage, preparation, and advice on how to use Kava and manage the shift from prescribed medications to natural alternatives. For this presentation, I give a brief summary of the clinical findings and official status of Kava as an anxiolytic before moving onto the reasons veterans show a preference for Kava. Data is from literature review and text analysis of online forum posts within veterans’ groups, discussion threads, and public testimonials. In summary, Kava use shows the same pattern seen in many other cases when alternative and traditional remedies are chosen over prescription drugs. In short—when a society’s cultural systems (such as medical care) do not meet the needs of a significant portion of people, they seek alternative paradigms that do offer them what they need.

Biography:

Dr. Chandler-Ezell studied Biology and Physical Science at University of Central Arkansas, graduating from the UCA Honors College. She then earned an M.S. in Botany from Oklahoma State University. She then joined the University of Missouri Anthropology Dept and worked in the Paleoethnobotany Lab, earning her Ph.D. in 2003. After a 2-year NIMH post-doctoral fellowship at Washington University School of Medicine, she earned a Masters of Psychiatric Epidemiology before joining the faculty of Stephen F. Austin State University. She researches and teaches in ethnobiology and biocultural anthropology, with a special interest in ritual behavior, adaptive culture, and ethnomedicine.



Mohammad Kamil
Lotus Holistic Health Institute,
UAE

Herbal Medicine – Quality control studies



Abstract: According to Global Industry Analysts, the global medicinal plant sector is expected to reach close to US\$ 196 billion by 2025, and US\$ 5 trillion by 2050.

Quality is the paramount issue because it can affect the efficacy and/or safety of the herbal products being used. Current product quality ranges from high to very low due to intrinsic, extrinsic, and regulatory factors. These intrinsic, extrinsic, inadvertent contamination & substitution, and intentional adulteration are the contributing factors to the quality of Herbal Medicine.

In the present paper, an attempt has been made for a sequential study of the Quality Control and standardization of Herbal Medicines. The steps involved from the Selection of Medicinal Plants to the development of finished herbal medicine ensure the safety of Herbal Medicine at each and every step including GMP. As we know, Current Good Manufacturing Practice (CGMP) is a system for ensuring that products are consistently produced and controlled according to quality standards. It is designed to minimize the risks involved in any herbal production that cannot be eliminated through testing the final product. Intentional adulteration is dealt with in detail with all classes of herbal medicines. An emphasis has been given on the protocols that are required for the Registration of Herbal Medicines.

Biography:

Professor Dr. Mohammad Kamil, M.Sc.; M.Phil.; Ph.D.; D.Sc.; Chartered Chemist(U.K.) and Fellow Royal Society of Chemistry (London), has worked in various capacities, Head TCAM Research at the Department of Health, Abu Dhabi. Presently he is working as Director General, Lotus Holistic Healthcare Institute, Abu Dhabi, UAE since 2021. He is heading the Scientific Committee for the Sheikh Zayed International TCAM Awards.

He is a recipient of many honours and awards - the last one Sheikh Zayed International Award in Herbal Research (2020) among many other awards. Dr. Kamil produced 20 Ph. D. and M.Phil. students besides a large number of M. Sc. And 40 Interns. More than 680 research papers in reputed journals, authored six books and seven chapters in different books. His name is cited for significant Research at more than 7000 places in International books, he visited more than 45 countries.



Ying Yang
Zhejiang University School of Medicine,
China

Yin-Yang, Qi and medicinal plants (Global One Health)



Abstract: Chinese traditional medicine is a large-scale system medicine involving galaxies, earth ecology and human health. The largest proportion of the Earth's surface is the ocean, and plant growth requires the sun (Yang) and the moon (Yin) to work together to balance the water cycle. The most important factors in the air for people and plants are carbon dioxide and oxygen (Qi), while the most important factors for human health are the balance of the water cycle, plant food and oxygen. Therefore, global one health is Yin-Yang balance, Qi and Medicinal Plants work together, which reflects the traditional medical thinking of natural unity. Most of plant foods are medicinal plants. Chinese ancient doctors generally choose food first to prevent and treat diseases, and then choose drugs to treat diseases. The concept of the homology of medicine and plant foods has a long history, and people still use a large number of plants or products with the homology of medicine and plant foods to prevent and treat diseases.

Biography:

Ying Yang has completed his PhD in 2015 from Zhejiang University School of Medicine. She is a research assistant of State Key Laboratory for Diagnosis and Treatment of Infectious Diseases in The First Affiliated Hospital, Zhejiang University School of Medicine. She is engaged in the inheritance, innovation, research and promotion of traditional medicine and traditional culture through multi-disciplines. The key research fields include liver disease diagnosis and treatment, food nutrition of medicinal plants and emotional health. She has made several oral presentations on medicinal plants and global one health; she also has applied for patents with great economic and social value.



**ACCEPTED
ABSTRACTS**

NATURAL MEDICINE 2023



Afogbon Ernest
National Space, Research and Development Agency
(NASRDA),
Nigeria

Spatial distribution of medicinal plants in Edo State, Nigeria



Abstract: The aim of this study is to identify the distribution of various Herbal Medicinal plants (HMPs) and its benefits in six rural communities in a multi- ethnic Nigeria health practice, Edo State, Nigeria. The objectives are to identify the plants, their use and administration of these herbs. Facts were obtained with the aid of well structure questionnaires, interviews of old and experienced rural people as well as herbal practitioners; GPS Readings were used to capture the spatial location of the crops while satellite image with different spectral bands were used to examine the health of vegetation using the Normalized Difference Vegetation Index (NDVI). About 41 plant species were selected from 29 families for which 13 trees, 11 shrubs and 17 herbaceous plants were examined. The results avail the numerous benefits of herbal medicinal plants and its potential to become a significant part of efforts to advance medicinal discovery and development.

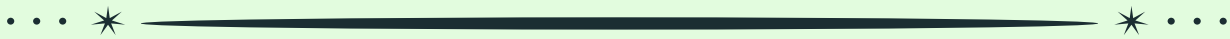
Biography:

Afogbon Ernest is a seasoned Research Scientist at the National Space Research and Development Agency in Abuja, Nigeria, specializing in satellite applications and geospatial analysis since May 2013. They hold a Postgraduate Diploma (PGD) in Remote Sensing and Geographic Information System (GIS) from Obafemi Awolowo University, where they achieved academic excellence. Engaged in environmental research, they demonstrate a commitment to leveraging advanced technologies for addressing environmental challenges. With expertise in satellite data utilization and geospatial analysis, Afogbon Ernest continues to play a crucial role in advancing space science and contributing to environmental research initiatives.



Aggelos T Margetis
Athens Naval and Veterans Hospital,
Greece

Integrative medicine approach in diabetes treatment



Abstract: During the presentation, an overview of diabetes pathogenesis and diagnosis will be outlined. Diabetes monitoring and its complication will be briefly demonstrated and thereafter, a holistic treatment approach will be analyzed focusing in special dietary regimens, nutrition supplements of benefit, herbal formulations and other lifestyle interventions which can contribute to better glycemic control and patient outcomes. Concurrently, important side effects and interactions of the different treatment modalities are going to be described so as to safely employ them in daily clinical practice.

Biography:

Dr. Margetis graduated with honors as MD at National and Kapodistrian University of Athens (NKUA), Greece in 2017. He then joined the Molecular Carcinogenesis Group in the Department of Histology, NKUA, to study how metabolism rewiring contributes to cancer development and examine whether dietary restriction protocols can restrain tumor growth in breast cancer models. In 2020 he started his Internal Medicine residency training in Athens Naval and Veterans Hospital; during 2021-2023 he was certificated in Cancer Survivorship, Clinical Nutrition and Integrative Medicine from GW University Cancer Center, KU Leuven University and University of Minnesota, respectively.



Chowdhury Md Navim Kabir
Islami Bank Central Hospital,
Bangladesh

Significance of ECG in acute myocardial infarction diagnosis in absence of chest pain in emergency and outdoor patient department

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Abstract: Epigastric discomfort with/without chest pain is a common scenario in emergency /outdoor patient department. More specifically epigastric pain associated with nausea, vomiting are the prime complaint of the patients. Patients with previous h/o any cardiac abnormality initially evaluated by electrocardiogram(ECG). But several patients, those who come with epigastric discomfort without any previous evidence of cardiac abnormality has found ST segment elevation/depression on ECG. So, importance of ECG has been proven undoubtedly as life saving primary investigation in patients with epigastric discomfort for detecting cardiac abnormality when chest pain is not felt.

Materials & Method 63 patients (35 were male and 28 female) with age group of 32-67 participated in this cross sectional study. Average age of male patients was 43+_2 and 49+_2 in female. Everyone asked about their food habit, comorbidities, previous incident of epigastric discomfort, medications and previous cardiological incidence. Every information was confidentially kept according to patients's demand.

Result Out of 63 patients, 42 patients (23 male and 19 female) had h/o repeated epigastric discomfort which was subsided by injectable esomeprazole, anti emetics. Rests of 21 patients have minor discomfort which was subsided by oral esomeprazole /rabeprazole /dexlansoprazole. Out of 42 patients, 12 male and 7 female patients who came in emergency & OPD department for relieving epigastric discomfort without having chest pain. 6 out of 12 male patients having ST segment elevation /depression and followed by Troponin- I (according to post ECG advice for confirmed heart attack).3 of them diagnosed as acute Myocardial infarction(MI).2 of 7 females diagnosed as MI after getting ECG followed by Troponin I result.

Conclusion Emergency and OPD should have ECG availability for it's specificity in early MI diagnosis specially who come without chest pain. This early diagnosis can reduce cardiac mortality in middle ages to elderly patients in grass root level of Bangladesh.



Chowdhury Md Navim Kabir
Islami Bank Central Hospital,
Bangladesh



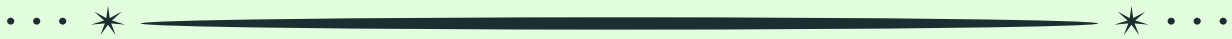
Biography:

Dr Chowdhury Md Navim Kabir, hailing from Dhaka, Bangladesh. Grow up in Dhaka, pursued his secondary and higher secondary certificate in 2007 and 2009 respectively. Graduated from Chittagong Medical College under University of Chittagong. Having keen interest in Surgery and Urology, interested in article writing Already 5 research article have been publishes in 5 international Journal. On 18th July 2023, He was awarded as MRSPH from Royal Society of Public Health.



Maria Regina Penchyna Nieto
Monterrey Institute of Technology and Higher Education, Mexico

HIV positive pregnancy and nutrition



Abstract: : If an HIV-positive woman becomes pregnant, certain complementary nutritional considerations must be justified, since pregnant women with HIV have greater needs to promote a healthy outcome. This review aims to provide information on HIV and pregnancy, nutrition, and infection, and how care and environment can be improved for these HIV positive women

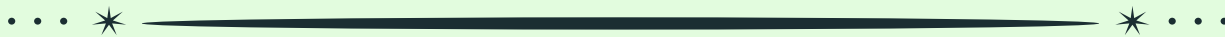
Biography:

Maria Penchyna received a degree in Nutrition and Integral Well-being at the Technological Institute and Higher Studies of Monterrey in Mexico, later on she worked for a year for the same university as a sports nutritionist and is currently a Project Support Coordinator at the PPD and Thermo Fisher company, has various certifications such as ISAK 1 standardized by the international society for the advancement of kinanthropometry and completed a diploma from Stanford University in Nutrition Sciences focused on children and the elderly population. Has published the article: Nutritional Medical Treatment in patients with COVID-19 for the scientific magazine MLS journals in the Health and Nutrition Research edition.



Nazim Bellifa
University Djillali Liabes,
Algeria

Antioxidant activity and polyphenol composition of *Pistacia terebinthus* fruit from Tessala (Western Algeria)



Abstract: Consumption of traditional herbal beverages has been generally increased in the last decades, Terebinth coffee, known as “menengic coffee” in Turkish, is one of the most consumed herbal coffees in Turkey, turpentine tree is one of the components of the Mediterranean bush, particularly in Algeria, known as Betoum el Kiffan is largely used as food and in traditional medicine.

Aims: In this study, Total phenol, flavonoid content, and antioxidant activity of three extracts of *Pistacia terebinthus* fruit growing in Algeria was measured using radical scavenging activity tests and metal-related tests including, ferric-reducing antioxidant power (FRAP). The chemical composition profile of the fruits and the coffee brands was identified by thin-layer chromatography, the effects of roasting method of this fruit was rivaled also. Materials and Methods: The total phenolic content of the extracts was determined using the Folin-Ciocalteu method. All extracts of the terebinth fruits and coffee brands displayed a high DPPH scavenging effect. Results: The results of the ferric-reducing antioxidant power show that the reduction capacity is proportional to the increase in the concentration of the samples. All the extracts of the plant exhibit antioxidant activities lower than those of the reference product besides the infusion extract of the *P. terebinthus* roasted coffee, which is the most active with an optical density of 1.68 nm at a concentration of 400 µg/mL. The chromatography results show that the various extracts of *Pistacia terebinthus* fruit carry a large number of polyphenols, in particular the carboxylic acids phenols. Conclusions: The plant can be considered as a coffee substitute and opens up promising avenues for the food and pharmaceutical industry in Algeria.

Biography:

Bellifa Nazim is a versatile medical professional and researcher, currently serving as a Research Assistant at the University of Sidi-Bel-Abbes since September 2018. Prior to this role, they garnered extensive experience in healthcare as a Medical Professional at the University Hospital Center AEK Hassani Sidi Bel Abbes. Bellifa Nazim holds a background in Pharmacy from the University of Sidi-Bel-Abbes, followed by specializations in DEMS Pharmacognosy from Abou Bakr Belkaid University of Tlemcen and Endobiogenie from the University of Monastir. With a commitment to advancing pharmaceutical knowledge and patient care, Bellifa Nazim contributes actively to research and clinical practices, demonstrating a passion for improving healthcare outcomes.



Steve V. Djova
University of Bamenda,
Cameroon

Phytochemical study of aqueous extract of *Ochna schweinfurthiana* F. Hoffm powder bark and evaluation of their anti-inflammatory, cytotoxic, and genotoxic properties

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Abstract: *Ochna schweinfurthiana* has been used in traditional medicine to treat pain, inflammation, and arthritis. It is a rich source of complex dimers of flavonoids with potential use as templates for the development of therapeutic drugs. Hence, the aim of this study was to study the phytochemical content and evaluate the in vitro cytotoxic, genotoxic, and anti-inflammatory activities of the aqueous extract of *Ochna schweinfurthiana* bark (OSE). Phytochemical study was carried out according to LC-MS procedures, while isolation was carried out using thin layer and column chromatographies. Cytotoxicity was investigated by the mitochondrial viability [3-(4,5-dimethylthiazol-2-yl)-2,5-diphenyl tetrazolium bromide] (MTT) method while genotoxicity potential of the extract was ascertained using the Salmonella typhimurium test strains TA 98 and TA 100. The anti-inflammatory effect of OSE was evaluated by the in vitro inhibition of 15-lipoxygenase enzyme and bovine serum albumin denaturation (BSA) assays. The investigation of compounds extracted from OSE led to the identification and isolation of six known compounds, namely, hemero-callone (9), 6,7-dimethoxy-3'-4'-dimethoxyisoflavone (10), lithospermoside (13), amentoflavone (14), agathisflavone (15), and -D-fructofuranosyl- -D-glucopyranoside (17). In the anti-inflammatory assay, aqueous extracts of the bark showed selective inhibition of 15-lipoxygenase with IC₅₀ value of 32.2±0.36 g/mL and the result of the bovine serum albumin denaturation assay with IC₅₀ value of 130±5.78 g/mL showed moderate activity. The toxicity assay indicated that OSE are non-cytotoxic on Vero cell line with LC₅₀ value of 50 mg/mL and non-genotoxic toward Salmonella typhimurium tester strain TA 98 and TA 100. Result from this study supports the traditional use of the selected medicinal plants in Cameroon for the treatment of inflammatory conditions. Non cytotoxicity and non-genotoxicity of OSE suggest that this plant is safe for use.

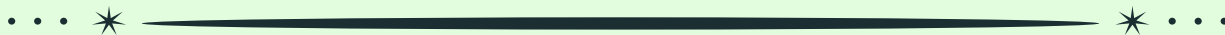
Biography:

Djova Steve Valdi is an Assistant Lecturer at the University of BAMENDA, NW-Cameroon, specializing in Biochemistry. They obtained their Ph.D. in Biochemistry from the same institution, focusing on Pharmacology, Biotechnology, and Development from January 2020 to December 2020. Additionally, Djova Steve Valdi served as a Lecturer at the University of Yaoundé I, Cameroon, from January 2020 to March 2020, where they actively engaged in practical courses and tutorial sessions in the Department of Microbiology. With a commitment to academic excellence and research, Djova Steve Valdi contributes significantly to both teaching and advancing knowledge in the fields of biochemistry, pharmacology, and biotechnology.



Sunita Teckchand
MIFPA MNAHA, UAE

Natures pharmacy and lymphoedema case studies on how essential oils help



Abstract: Lymphoedema occurs when the lymphatic system does not function as it should. We all know that the lymphatic system is a serious network of channels and glands that run throughout our body, which actually helps fight infection and remove excessive build up. It is a long term chronic condition that causes the tissues in the body to swell. It normally effects the arms and legs, but it can occur anywhere in the body.

Sunita's commitment to treating disease and symptoms of disease with the help of 'Natures Pharmacy', the magic of organic essential oils to support and heal the body, mind and. spirit, has shown her that they do indeed work miracles as a complementary therapy to support Lymphoedema. Some of her case studies have profound evidence that Clinical Aromatherapy together with other Holistic approaches can support the body to fight back. In this presentation Sunita will share those case studies and explain how essential oils target our cells and tissues and support our Immune system. Lymphoedema is a debilitating condition that affects the lymph nodes, which could get quite severe if left untreated. It may not be reversible but can definitely be managed with alternate therapies, which is a great option for long term treatment

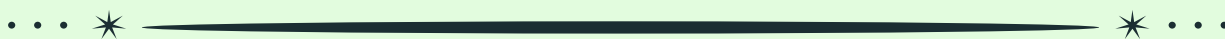
Biography:

Sunita Teckchand completed her clinical aromatherapy education in 1998 from Hong Kong, and presently lives and works in Dubai, UAE. She is the owner and principal tutor of 'The Holistic Alternatives', where she teaches the IFPA accredited program on a digital platform. She also markets her own brand of organic essential oils - 'eSSensuals'. She has personally tutored and mentored students that have graduated on to become successful therapeutic massage practitioners and clinical aromatherapists. She has been interviewed on radio, television and magazines. She has also published several articles. She currently is an external examiner, a trustee and a board member of the International Federation of Professional Aromatherapist UK (IFPA) since 2019. She has also written a chapter in a book 'She is Remarkable' which was published in February 2023 and is a best seller.



Chipiti, T
Tshwane University of Technology,
South Africa

Screening of african medicinal plants for antiepileptic activity using an in vivo zebrafish model



Abstract: A wide range of African plants ($n = 20$), used traditionally for the treatment and management of epilepsy, were selected and subjected to biological assays to assess their effectiveness in combating pentylenetetrazole (PTZ)-induced seizures in six days post fertilisation (dpf) zebrafish larvae. Ground plant material was extracted using solvents of varying polarity, six dpf larvae were incubated with the crude extracts for 18 hrs to determine the maximum tolerated concentration (MTC) for each plant extract. Of the 120 crude extracts tested, MTC values for 70 crude extracts were determined; the remaining 50 crude extracts were found to be highly toxic in the concentration range tested (10 -1000 $\mu\text{g}/\text{mL}$). For the bioactivity assay 70 crude extracts were tested for their effectiveness in reducing convulsions in PTZ-induced seizures in zebrafish larvae. Six crude extracts from *Rauvolfia caffra* Sond., *Rauvolfia vomitoria* Afzel, *Withania somnifera* (L.) Dunal., *Annona senegalensis* Pers. and *Costus afer* Ker. Gawl. were found to be active and marked as potential hits for further study. *Rauvolfia caffra* Sond. and *Withania somnifera* (L.) Dunal. extracts were found to be highly bioactive and were selected for further studies. Extracts of these two plants were fractionated to give 44 fractions, which were assayed for potential antiepileptic activity using the PTZ assay. Five fractions from *Rauvolfia caffra* Sond. reduced the locomotor activity of the larvae significantly, indicating their potential effectiveness as antiepileptic agents. From these five fractions, three compounds were isolated using preparative-HPLC. NMR structural elucidation of two of these compounds were identified firstly the known pleiocarpamine (1), as well as a previously unreported compound, to which we assigned the trivial name Rauverine H (2). Pleiocarpamine showed significant activity in reducing PTZ-induced seizures in zebrafish larvae at $P < 0.05$. The results of this study provide preliminary evidence to support the traditional use of *Rauvolfia caffra* Sond., in the treatment and management of epilepsy.

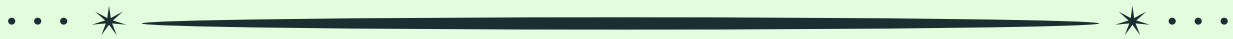
Biography:

Talent Chipiti is a versatile professional with a strong background in biochemistry and pharmaceutical sciences. They hold a Doctor of Philosophy (PhD) in Phytomedicine and Pharmaceutical Sciences from Tshwane University of Technology, complemented by a Master's degree in Biochemistry from the University of KwaZulu-Natal and an Honors degree in Biochemistry from the University of Fort Hare. With expertise in laboratory techniques, clinical trials, data management, and drug discovery, they have contributed significantly to research as a Research Scientist at the University of Pretoria, focusing on medical oncology and splicing disruptor drugs. Currently, they serve as a Lecturer at Eduvos, where they engage in innovative teaching methods and contribute to educational research. Additionally, they have experience as a Postdoctoral Research Fellow at Tshwane University of Technology and as a Peer Facilitator and Practical Demonstrator at UKZN. Their diverse skill set and passion for research and education drive their commitment to advancing knowledge in the field.



Zhenhuan LIU
University of Chinese Medicine,
China

Neuroimaging by evaluation nerverenovate and neuroplasticity of acupuncture in children with cerebral palsy



Abstract: To investigate the effect of and Acupuncture on brain plasticity and motor development in children with cerebral palsy. Investigate effect on mechanism of apoptosis of brain nerve cells, regulating the expression of neurotrophic factors, promoting the remodeling of nerve synaptic structure and motor development in young rats with cerebral palsy. Two: To evaluate the effect and mechanism of acupuncture on cerebral palsy. Three: The nerve repair effect of acupuncture on cerebral palsy. Methods: In this study, 146 cases of brain injury and 1078 cases of cerebral palsy were included by randomized controlled study with ICF Gross motor function measure, Peabody fine motor function, Gesell, muscle tension, joint activity, activity of daily living transcranial doppler, skull B ultrasound, Brain Nuclear Magnetic Resonance Imaging MRI, Positron Emission Tomography SPECT, Diffusion tensor tractography evaluation method.

Results: the recovery rate of extracellular space (92.3%) was significantly higher than that of the control group (70.8%) ($P < 0.05$), Transcranial Doppler, TCD total efficiency (79.3%) was significantly higher than that in the control group (51.8%) ($P < 0.05$). Acupuncture to promoting the development of neurological and cognitive movement under 6 months children, effectively reduce the neurological sequelae. The total effective rate of the children with cerebral palsy was 87% in the acupuncture group, which was significantly higher than that of the control group ($P < 0.01$). The total effective rate of Brain MRI was 59.55% in the acupuncture group and 13.25% higher than that in the control group ($P < 0.01$). The total effective rate was 91.3% in the 1 year follow-up group, which was significantly higher than that in the control group ($P < 0.01$). the FA value of white matter fiber bundle was significantly higher than that of acupuncture at 60 times ($P < 0.05$). The recovery rate of ultrasonous brain injury (86.7%) in acupuncture group was significantly higher than that in control group (64.4%) ($P < 0.05$). The recovery rate of brain SPECT in acupuncture group was 96.4%, which was significantly higher than that in the control group ($P < 0.01$).

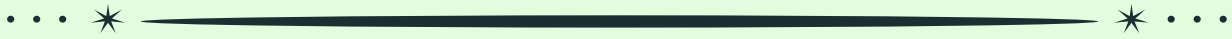
Conclusion: Acupuncture rehabilitation not only promote the development of white matter and gray matter in children with cerebral palsy, but also promote the brain function of children with cerebral palsy remodeling and compensation, and promote social adaptation, language and other cognitive function development, children with cerebral palsy movement and Fine motor function development and recovery, improve the children's self-care ability.

Key Words: Cerebral palsy; Acupuncture; Nerve repair; remodeling; motor function;



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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 committee children with cerebral palsy, World Federation of Chinese Medicine Societies. Visiting Professor 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 10 books. He has published 268 papers in international and Chinese medical journals

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