

Acupuncture as Alternative Medicine

Prashanthi Gummadi*

Department of Pharmacy, SSJ College of Pharmacy, Hyderabad, India

***Corresponding author:** Prashanthi Gummadi, Department of Pharmacy, SSJ College of Pharmacy, Vattinagulapally, Rajendranagar mandal, Hyderabad, Telangana 500075, India, E-mail: prashanthi.cvk67@gmail.com

Received: February 08, 2017; **Accepted:** February 16, 2017; **Published:** March 06, 2017

Abstract

Acupuncture is one of the oldest and best known complementary or alternative therapies available in world. It is originated in china and is the most common treatment used to treat several medical conditions. Acupuncture involves stimulation of body points using needles and variety of techniques. It has been effective in treating Cancer, dental conditions, Infections, Respiratory disorders, Blood disorders, Neurological disorders, urogenital disorders, Psychiatric disorders, Skin diseases. As per the reviews available, during acupuncture application there will be an increase in levels of encephalin, endorphin and serotonin in brain tissue, which in turn results in sedation and recovery of motor functions, due to which they are used in treatment of pain caused due to different medical disorders. In this review I have presented the broad introduction to acupuncture along with its overall applications as an alternative treatment modality and mechanism of action involved in acupuncture.

Keywords: Acupuncture; Alternative Therapy; Acupuncture points

Introduction

Acupuncture is one of the oldest practices of medicine, originated 2,500 years ago which is used to treat several diseased conditions. **Acupuncture** means stimulation of body points, using a needle, where needles are used in at particular sites called as acupuncture points on the body depending on the disease site [1-4]. It is mostly practiced in china, japan, India and Korea, it has also earned popularity in America as well as other parts of world. The needles that are used for insertion in body are hair-thin and made of gold, silver or steel. Acupuncture is of different forms depending on the site and mode of mechanism involved, they are **moxibustion**, electric acupuncture that involves use of electric probes, on face, ear, scalp and hand acupuncture, microsystem acupuncture and photo acupuncture or **laser acupuncture** where lasers are used [5-9].

Acupuncture is performed by licensed, certified acupuncturist. There are almost 2,000 acupuncture points on body connected by different pathways called meridians, these points are site specific for various medical disorders and it is effective in treating over 40 disorders and diseases [10-14]. Acupuncture is safe as it involves drug free treatment with absolute zero side effects. Acupuncture is involved in activation of nerve fibres in muscles at the point of insertion which send or stimulates impulses to the **spinal cord** which results in activation of pituitary-hypothalamus and mid brain [15-18]. These results in increased levels of **encephalin**, endorphin and serotonin in **brain tissue**, which in turn results in sedation and recovery of motor functions, due to which they are used in treatment of pain caused due to different **medical disorders**.

Citation: Prashanthi G et al. Acupuncture as Alternative Medicine. Biochem Mol Biol Lett. 2017;3(2):125.
© 2017 Trade Science Inc.

American Association of Acupuncture and Oriental Medicine is one of the oldest national membership organizations of acupuncture and oriental medicine involving the practitioners and supporters as members of the organisation with an aim serve to advance the profession and practice of Acupuncture [19-24]. The main mission of this organisation is to support the members of the acupuncture community through continuous education, sharing knowledge of latest advances in this field [25-26]. **The American Academy of Medical Acupuncture** is the society founded in 1987 by physicians in North America who have engaged acupuncture into their traditional medical practice. The main aim of this organisation is to promote and share concepts of traditional and modern integrated forms of acupuncture with **Western medicine** and training, which results in more comprehensive mode of health care to the society [27-32].

Group organizes conferences on alternative health care, which focus on the latest approaches in traditional and **natural medicine** and they are demonstrated by the experts in the related field [33-38]. They undertake international events every year, which are being hosted with the support of 1000+ government and private organizations. They aim for an everlasting relation of upcoming new strategies in the field of **Alternative medicine** with the scientific community and thereby **giving everyone a healthier and quality life without any abnormalities. Recently the 4th International Conference on Acupuncture and Therapists Annual Meeting** was held in Philadelphia which was a huge success and the main theme of this conference is to provide and share knowledge on **Acupuncture and exploring the integrative approaches in acupuncture in achieving Global Health Care, in this conference some of the keynote presentations are** Efficacy of **electro acupuncture** pudendal nerve stimulation in treating female stress incontinence presented by **Wang S, Philosophical Thinking of Chinese Traditional Medicine presented by Dong J, and TCM as a basis of inter-professional education for acupuncturists** presented by **Jennifer Brett** [39-44]. **5th International Conference and Expo on Acupuncture and Oriental Medicine** is going to be held in Chicago, USA during July 27-29, 2017 and the conference proceedings include symposiums and keynote speeches, workshops, , poster sessions, panel discussion and plenary talks on recent advanced research developments in the field of Acupuncture [45-52]. These conference had offered a wide platform for alternative medicine professionals also gathered researchers, educators, clinicians, practitioners and other healthcare professionals, students, business delegates and young researchers all over the world which provides an opportunity to showcase and present latest advances in **acupuncture research**.

Mechanism of Action

The Acupuncture hypothesis explains that the within the human body there occurs a flow of energy which is utilized in balancing the health [53-57]. This energy flow is called qi, which moves throughout the body by different pathways called **meridians**. There are different meridians in the body that represents major organs and functioning of the body system [58-61]. **Acupuncture needles** are inserted through the skin at meridians and acupuncture points which are stimulated using hand or sometimes electric current. It involves the secretion of pain reducing components or natural painkillers like endorphins and **serotonin**. They also stimulate the release of cortisol from **pituitary gland**.

Applications

Many diseases and health conditions are treated using acupuncture; some of them include relief from chronic pain, osteoarthritis, post extraction pain in **dentistry**, arthritis, chronic pharyngitis, anxiety, **Acute rhinitis, insomnia**, migraine, **depression**, nausea, Headache and migraine, postoperative pain, Low back pain and obesity [63-77]. Acupuncture stimulates

certain nerve points of the body, and helps in relieving a wide variety of health conditions. Some latest applications of acupuncture are treating disorders such as sleep disorders, alcoholism, smoking, eating disorders and addiction.

Open Access Journals related to Rehabilitation and alternative therapies play major role in promoting the research and recent advances in almost all areas of Acupuncture and alternative medicine for benefit of society [78-82]. Some remarkable research findings and reviews have been published in **International Journal of Physical Medicine & Rehabilitation**; it is a peer reviewed bimonthly journal that publishes the most reliable source of content and information on the latest discoveries and current interventions in rehabilitation and pain management studies [83-93]. **Journal of Traditional Medicine & Clinical Naturopathy** Presents a new platform to researchers and scientist to explore the developed and cutting-edge study trends in the field of alternative traditional medicine and treatment [94-97].

Conclusion

This review discussed an overview of acupuncture and its applications in medical field. The main purpose of the study is to focus on improving the latest practices of acupuncture and to share the knowledge of recent discoveries in delivering the best health to the world [98-100].

REFERENCE

1. Vaidya S, et al. Acupuncture: An Alternative Therapy In Medicine And Dentistry. *Eur J Gen Dent*. 2013;2:219-28.
2. Acupuncture 2016 Report (2016) 4th Global Acupuncture and Therapists Annual Meeting, Philadelphia, Pennsylvania, USA.
3. Xi-Jian D, Bi-Xia L, You-Jiang M, et al. Different Cerebellar Responding to Acupuncture at SP6 under Different Sleep States: an fMRI Study. *J Sleep Disor: Treat Care*. 2013;2:2.
4. Minelli E, Francescucci B, Toschi V, et al. From East to West and Return: A Western Interpretation of Acupuncture. *Altern Integr Med*. 2017;6:234.
5. Chen Q. The Utilization of Needle-Free Acupuncture and Chinese Traditional Medicine Theory to Cure Two Patients Suffering from Different Types of Chronic Urticaria. *J Allergy Ther*. 2017;8:249.
6. Lu M, Yu D, Cao D, et al. Acupuncture Regulates the Notch Signaling Pathway in Bone Marrow Cells to Alleviate Cyclophosphamide-Induced Myelosuppression in S180 Tumor Bearing Mice. *Altern Integr Med*. 2017;6:229.
7. Wang SJ, Li ST, Yin YH. Significant Therapeutic Effect of Acupuncture on Intractable Dermatophytosis. *J Clin Trials*. 2017;7:299.
8. Goldstein LB, Shoup D, Troncoso V. Utilizing Acupuncture and Osteopathic Manipulative Treatment (OMT) in the Integrative Treatment of TMDs. *Otolaryngol (Sunnyvale)*. 2017;7:292.
9. Hamvas S, Havasi M, Szöke H, et al. Different Techniques of Acupuncture—Part of the Traditional Chinese Medicine and “Evidence Based Medicine”. *J Tradit Med Clin Natur*. 2017;6:202.
10. Gong R, Sun S, Zhao Q, et al. Protective Effect of Electro-Acupuncture on Neural Myelin Sheaths Mediated through Activation of Epidermal Growth Factor Receptor after Compressed Spinal Cord Injury. *J Spine*. 2016;5:332.
11. Zaidi SA, Ahmed F. Acupuncture in Primary Headache Disorders; Review of the Evidence. *J Neurol Disord*. 2016;4:288.
12. Yu Y, Li S, Zhao J, et al. Transcutaneous Auricular Vagus Nerve Stimulation: A Novel Non-Invasive Non-Pharmacologic Treatment for Major Depressive Disorder. *J Depress Anxiety*. 2016;5:239.

13. Meng Goh JK, Meng Yeo NE, Ling Fong P, et al. Cervico-Thoracic Epidural Abscesses Following Acupuncture Therapy - An Uncommon but Potentially Devastating Complication. *J Clin Case Rep.* 2016;6:819.
14. Fu Y, Fan L, Feng T. A Summary of Acupuncture and Moxibustion Therapy for the Urinary Tract Infection after Stroke. *J Infect Dis Diagn.* 2016;1:107.
15. Cho TH, Park KM. Use of Acupuncture Point Injection with Placental Extract for Treatment of Complex Regional Pain Syndrome. *J Pain Relief.* 2016;5:246.
16. Comachio J. Clinical Commentary: About Acupuncture and Electroacupuncture in Advances in Muscle Weakness. *J Mult Scler (Foster City).* 2016;3:168.
17. Scoppa F, Gallamini M, Belloni G. Treating Balance Disorders with Ultrasound Acupuncture Stimulation: A Further Pilot Study on Normal Subjects Confirms Clinical Applicability of Treatment. *J Nov Physiother.* 2016;6:285.
18. Chui SH, Chow FC, Szeto YT, et al. A Case Series on Acupuncture Treatment for Female Infertility with Some Cases Supplemented with Chinese Medicines – Follow Up Study. *J Community Med Health.* 2016;6:398.
19. Liu Z, Geng W, Zhang X. The Role of Orexin in the Effect of Electroacupuncture on Inflammatory Cytokines and Respiratory Regulations in a Rat Model of Smoke Induced Chronic Obstructive Pulmonary Disease: A Short Review. *J Yoga Phys Ther.* 2016;6:225.
20. Qu J, Zhao Y. Acupuncture-Induced Bilateral Tension Pneumothorax: A Case Report and Literature Review. *J Clin Case Rep.* 2015;5:667.
21. Zhu P, Zhang M, Yang M, et al. Acupuncture Prevents the Atrial Fibrillation through Improving Remodeling of Atrial Appendage in Rats. *J Tradi Med Clin Natur.* 2016;5:186.
22. Mueller BB. The Treatment of Down Syndrome, Trisomie 21 with Acupuncture. *J Tradi Med Clin Natur.* 2016;5:183.
23. Baur-Mueller B. The Treatment of Herpes Zoster and Post Zoster Neuralgia with Acupuncture and Western Herbs in Chinese Medicine. *J Homeop Ayurv Med.* 2015;4:179.
24. Takaoka Y, Ohta M, Sugano A. Therapeutic Effect of Electroacupuncture Based on Molecular Biological Studies. *J Yoga Phys Ther.* 2015;5:218.
25. Wang L, Zhang N, Pan H. A Combination of Electro-Acupuncture and Aerobic Exercise Improves Cardiovascular Function in Patients with Coronary Heart Disease. *J Clin Exp Cardiol.* 2015;6:402.
26. Dalamagka M. Systematic Review: Acupuncture in Chronic Pain, Low Back Pain and Migraine. *J Pain Relief.* 2015;4:195.
27. Pernambuco CS, Brandão PP, Dantas EHM. How Can Acupuncture Promote Modifications on Metabolism? *J Osteopor Phys Act.* 2015;3:154.
28. Sokunbi OG. Manual Therapy and Acupuncture in the Treatment of Patient with Cervical Spondylosis with Radicular Pain-Case Report. *J Nov Physiother.* 2015;5:263.
29. Kim SM, Kwak MA, Choi AR, et al. The Effects of Acupuncture on Insomnia, Anxiety, and Depression in Women with Chronic Liver Disease: A Randomized Controlled Trial. *Altern Integr Med.* 2015;4: 194.
30. Ibrahim SE, Zohiery AK, Mobasher SA, et al. Acupuncture versus Homeopathy as a Complementary Therapy in Patients with Knee Osteoarthritis. *Int J Phys Med Rehabil.* 2015;3:259.
31. Leung PC. The Use of Acupuncture for Back Pain. *J Spine.* 2015;4:e114.

32. Kumar C, Kulkarni CM. "Comparison between Electrical Stimulation over Motor Point and TENS over Acupuncture Point in Reducing Spasticity and Improving Function after Stroke: Randomized Clinical Trial". *Int J Phys Med Rehabil.* 2014;2:237.
33. Rui Ma, Shujun Xu, Xiuyun Wen, et al. Acupuncture for Generalized Anxiety Disorder: A Systematic Review. *J Psychol Psychother.* 2014;4:155.
34. Kandaswamy R. Energetic Stress during Pregnancy Leads to the Manifestation of Limiting Symptoms in Autism: The Blind Spot of Mainstream Medicine. *J Preg Child Health.* 2015;2:190.
35. Kandaswamy R. A Case of Life-Threatening Diabetic Ketoacidosis Completely Healed Of Diabetes Mellitus with Intent Healing (™). *J Diabetes Metab.* 2015;6:587.
36. Pilz-Klement I, May CA. Does the Acupuncture Point Shaoshang (Lu11) in Humans Match with an Increased Density of Connexines?. *J Cytol Histol.* 2014;5:267
37. Sahin AE, Cayir Y, Akcay F. Positive Effects of Acupuncture on Menstrual Irregularity and Infertility in a Patient with Polycystic Ovary Syndrome. *Fam Med Med Sci Res.* 2014;3:121.
38. Murinson BB, Mezei L, Senders ZJ, et al. Acupuncture Needle-Assisted Nerve Fenestration: Reducing Iatrogenic Neuropathic Outcomes. *J Pain Relief.* 2014;S3:005.
39. Xiao Z, Wang X, Yang S, et al. Cervical Spondylosis of the Nerve Root Treated Using a Longs' Bone Reduction Maneuver Combined with Silver Needle Acupuncture. *J Pain Relief;* 2014;3:144.
40. Garcia-Vivas J, Gonzalez-Gonzalez R, Garcia-Cardona M, et al. Effects of Acupuncture on Obesity and Adipokines Involved in Body Weight Control. *J Homeop Ayurv Med.* 2013;2:129.
41. Parthasarathy Arpitha. Cold Atmospheric Plasma as an Alternative Therapy for Cancer Treatment 2015.
42. Imbalzano E, Quartuccio S, Saitta A. Renal Denervation, "Last Resort" or Alternative Therapy? *J Hypertens.* 2014;3:141.
43. Lin SL, Choy CS, Chan WP, et al. Photoluminescence of Bioceramic Materials (PLB) as a Complementary and Alternative Therapy for Diabetes. *J Diabetes Metab.* 2013;4:321.
44. Wiwanitkit V. Natural Medicine for Management of Neuroinfectious Disease: An Interesting Topic. *J Neuroinfect Dis.* 2016;7:e106.
45. Somsri W, Wiwanitkit V. Local Natural Medicine Wisdom and Medical Cosmetology. *J Cosmo Trichol.* 2015;1:101.
46. Islam SU. Management of Depression and Uses of Natural Medicine. *Gen Med (Los Angel).* 2015;3:205.
47. Woldemariam TZ, Hanna NW, Pearson D. Pharmacogenetics: Would it be a Reason for the Lack of Potency and Intrinsic Toxicity of Several Natural Medicines? *J Proteomics Bioinform.* 2012;5:190-5.
48. Tajun Meera Begum KM, Alhaji NMI, Qurashi A, et al. Batch Studies on Remedy for Cr(VI) and Ni(II) onto Sludge-based Carbons (PMSC & APMSC). *Fluid Mech Open Acc.* 2016;3: 139.
49. Taha AY. Axillofemoral Bypass for Critically Ischemic Lone Lower Limb: A Mercy Trial in a Final Exam or a Simple Remedy for an Impending Disaster? *J Cardiovasc Dis Diagn.* 2016;4:251.
50. Rose RV, Rose DR. Psychology Remedy for Dyslexia and Dysgraphia found, but Public Unaware. *Clin Exp Psychol.* 2016;2:115.
51. Faes S, Dormond O. Systemic Buffers in Cancer Therapy: The Example of Sodium Bicarbonate; Stupid Idea or Wise Remedy?. *Med chem.* 2015;5:540-44.

52. Nasrat AM, Nasrat SAM, Nasrat RM, et al. An Alternate Natural Remedy for Symptomatic Relief of *Helicobacter pylori* Dyspepsia. *Gen Med (Los Angel)*. 2015;3: 200.
53. Sana M, Jameel H, Rahman M. Miracle Remedy: Inhibition of Bacterial Efflux Pumps by Natural Products. *J Infect Dis Ther*. 2015;3:213.
54. Suleria HAR, Butt MS, Anjum FM, et al. Aqueous Garlic Extract; Natural Remedy to Improve Haematological, Renal and Liver Status. *J Nutr Food Sci*. 2013;4:252.
55. Scovassi AI, Guamán Ortiz LM. Traditional Medicine: An Ancient Remedy Rediscovered. *Biochem Pharmacol*. 2013;2:110.
56. Kala CP. Leaf Juice of *Carica papaya* L.: A Remedy of Dengue Fever. *Med Aromat Plants*. 2012;1:109.
57. Dietl W, Trescher K, Hohensinner P, et al. SiNiTang – A Traditional Chinese Herbal Remedy Improves Cardiac Function Post-MI. *J Clinic Experiment Cardiol*. 2012;S5:004.
58. Sarkar S. Ethical Issues Relating to Faith Healing Practices in South Asia: A Medical Perspective. *J Clinic Res Bioeth*. 2014;5:190.
59. Ningning W, Huaqiang Z, Ying D, et al. In Terms of Compendium of *Materia Medica* Introducing Chinese Yam's Application and Developing the Traditional Clinical Dispensing Technology of Chinese Medicine Master Jin Shiyuan. *Med Chem (Los Angeles)*. 2017;7: 824-27.
60. Wong VKW, Zeng W, Law BYK. Perspective: Role of Autophagy in Neuroprotective Properties of Traditional Chinese Medicines. *J Neuroinfect Dis*. 2017;8:239.
61. Zhaojuan G, Huaqiang Z, Yiping Y, et al. The Pharmaceutical Academic Thought in Compendium of *Materia Medica* and Jin Shiyuan's Medication Experience Promote the Development of *Astragali Radix*'s Dispensing Technology. *Med Chem (Los Angeles)*. 2017;7:812-17.
62. Ying D, Huaqiang Z, Ningning W, et al. *Chrysanthemum* in a Prominent Position of the Compendium of *Materia Medica* and Jin Shiyuan's Modern Coping of *Chrysanthemum*. *Med Chem (Los Angeles)*. 2017;7:807-11.
63. Lu M, Yu D, Cao D, et al. Acupuncture Regulates the Notch Signaling Pathway in Bone Marrow Cells to Alleviate Cyclophosphamide-Induced Myelosuppression in S180 Tumor Bearing Mice. *Altern Integr Med*. 2017;6:229.
64. Yong-chang D, Ting-ting M, Fang W, et al. Protective Effects of Cerebrospinal Fluid With The Intake of Xixin Decoction on Hippocampal Neuron Apoptosis Induced by $A\beta_{1-42}$. *J Aging Sci*. 2017;5:175.
65. Shang E, Duan J, Fan X, et al. Association Rules Mining and Statistic Test Over Multiple Datasets on TCM Drug Pairs. *Int J Biomed Data Min*. 2017;6:126.
66. Li D, Qiao S, Shi D, et al. The Combination of Traditional Chinese Medicine with Western Medicine. *Med Aromat Plants (Los Angel)*. 2016;5:e179.
67. Tang BH. Single Nucleotide Polymorphism (SNP) and Its Preview. *J Cell Signal*. 2016;1:129.
68. Tsou HK, Kao TH, Tsai PA, et al. Serum Betaendorphin Changes in Lumbar Facet Syndrome Treated with Radiofrequency Lumbar Facet Denervation – A Randomized Controlled Study. *J Spine*. 2016;5:340.
69. Chua K, Wong A, Kwan PW, et al. A Randomized Controlled Pilot Trial of Chinese Medicine (Di-Tan Decoction) in the Treatment of Alzheimer's Disease. *J Alzheimers Dis Parkinsonism*. 2016;6:256.
70. Hijikata Y. Treatments of Lung Diseases by Treating Liver, Kidney and Spleen with Kampo Medicines or Traditional Chinese Medicines. *J Tradi Med Clin Natur*. 2016;5:190.

71. Liu H, Li B, Jiang P, et al. Anti-diabetes and Anti-inflammatory Activities of Phenolic Glycosides from *Liparis odorata*. *Med chem (Los Angeles)*. 2016;6:500-505.
72. Zhen-Huan L, Qiao-Ling X, Zhang-Yong, et al. Quality of Life of Children with ASD. *Autism Open Access*. 2016;6:183.
73. Fu Z, Liu Y, Zhang Q. A Potent Pharmacological Mushroom: *Pleurotus eryngii*. *Fungal Genom Biol*. 2016;6:139.
74. Tang X, Tang Z, Zu Y, et al. A Randomized Controlled Clinical Trial on the Treatment of Type 2 Diabetes with Depression by Wu Ling Capsule. *J Clin Trials*. 2016;6:273.
75. Yang J, Chen Q, Zhu H. The Effects of Acetylation of PTEN on Hepatic Gluconeogenesis. *J Alzheimers Dis Parkinsonism*. 2016;6:243.
76. Fang W, Wei C, Dong Y, et al. The Effect on Gut Microbiota Structure of Primarily Diagnosed Type 2 Diabetes Patients Intervened by Sancai Lianmei Particle and Acarbose: A Randomized Controlled Trial. *J Clin Trials*. 2016;6:270.
77. Song D. Myomectomy during Caesarean Section is Likely Feasible. *Clinics Mother Child Health*. 2016;13:234.
78. Rui-hai Y, Li Y, Jun-chao Y, et al. Granulomatosis with Polyangiitis Presenting as Postoperative Gastrointestinal Stromal Tumors: A Case Report. *J Hypertens*. 2016;5:224.
79. Zhang Q, Liu Y, Di Z, et al. The Strategies for Increasing Cordycepin Production of *Cordyceps Militaris* by Liquid Fermentation. *Fungal Genom Biol*. 2016;6:134.
80. Morales-Martínez CE, Márquez-Aguirre AL, Díaz-Martínez E, et al. The Prospective Antiobesity Effect of Capsaicin Synthetic Analogs: A Matter of Weight. *Med chem (Los Angeles)*. 2016;6:365-371.
81. Wang S, Shi S, Lian H, et al. Structural Features and Anti-Complement Activity of an Acidic Polysaccharide from *Forsythia suspensa*. *J Glycomics Lipidomics*. 2016;6:138.
82. Han XD, Li GW, Yu L, et al. *Herba Swertiae* Benefits the Gastrointestinal System In Vivo. *Biochem Physiol*. 2016;5:201.
83. Chui SH, Chow FC, Szeto YT, et al. A Case Series on Acupuncture Treatment for Female Infertility with Some Cases Supplemented with Chinese Medicines – Follow Up Study. *J Community Med Health*. 2016;6:398.
84. Zhang X, Shi J, Tian J. Is the Combination/Multi-target Therapy a New Promise for Alzheimer's Disease? *J Alzheimers Dis Parkinsonism*. 2016;6:216.
85. Wang R. The Influence of Microorganisms on the Contemporary Society. *Med Aromat Plants*. 2016;5:e171.
86. Liu Z, Geng W, Zhang X. The Role of Orexin in the Effect of Electroacupuncture on Inflammatory Cytokines and Respiratory Regulations in a Rat Model of Smoke Induced Chronic Obstructive Pulmonary Disease: A Short Review. *J Yoga Phys Ther*. 2016;6:225.
87. Di H, He Q, Liao Y, et al. The Role of Inflammatory Cytokines in the Pathogenesis of Cerebral Palsy. *Gynecol Obstet(Sunnyvale)*. 2016;6:360.
88. Wang R, Wang T, Zheng S, et al. Traditional Chinese Medicine - A Source of Innovative Drugs. *Med Aromat Plants*. 2016;5:e169.
89. Liang L, He Q, Chen Z, et al. Comparative Study on Fluorescence Spectra of Chinese Medicine North and South Isatis Root Granules. *Nat Prod Chem Res*. 2016;4:201.
90. Shi D, Guo L, Qiao S, et al. Gene Therapy: Current Situation and Application Prospect. *Med Aromat Plants*. 2015;5:e167.

91. Li JJ, Jiang JF, Jiang Y, et al. Anti-Inflammatory Effects of Moxibustion on Mice with Adjuvant Arthritis: Role of TRPV1. *Altern Integr Med*. 2015;4:199.
92. Zheng S, Wang T, Shi D, et. Al. The Principle of Principal, Assistant, Complement and Guide in Traditional Chinese Medicine. *Med Aromat Plants*. 2015;4:e163.
93. Zheng S, Wang T, Shi D, et.al. Processing of Traditional Chinese Herbal Drugs-the Science of the Application of Chinese Traditional Medicine. *Med Aromat Plants*. 2015;4:e162.
94. Bhatnagar B, Pelser C, Gilmore S, et al. Acupuncture and Low Dose Gabapentin Effectively Treat Paclitaxel Induced Peripheral Neuropathy and Prevent Chemotherapy Dose Reduction. *Altern Integ Med*. 2013;2:126.
95. Zhou W, So EL, Yamakawa K, et al. Implication of Neuromodulation Therapy by Electroacupuncture in Treatment of Diabetes. *J Diabetes Metab*. 2013;4:270.
96. Thiel M, Stockert K. Acupuncture in Neonates—Old Experience or New Evidence? *J Neonatal Biol*. 2013;2:114.
97. Chen Y, Wu LP, Liu YJ, et al. Urinary Study on the Biochemical Effect of Acupuncture on Monosodium Urate Crystals-Induced Acute Gouty Arthritis in Rats using 600MHz ¹H NMR. *J Bioequiv Availab*. 2012;4:106-11.
98. Anderson KT. Altered States of Embodiment and the Social Aesthetics of Acupuncture. *Altern Integ Med*. 2013;2:112.
99. Yu Y, Guo X, Chen G, et al. Transcutaneous Auricular Vague Nerve Stimulation: A Promising Alternative Therapy for Insomnia Disorder. *Brain Disord Ther*. 2017;6:227.
100. Umadevi U, Umakanthan T. Alternative Therapy of Skin Diseases in Cattle. *J Infect Dis Diagn*. 2016;1:108.