

Pursuing the Biological Basis of Homeopathic Remedy Responses - References

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<http://www.symbiosisonlinepublishing.com/nanoscience-technology/nanoscience-technology24.php>

- Abdal Dayem, A., Hossain, M. K., Lee, S. B., Kim, K., Saha, S. K., Yang, G. M., Choi, H. Y., & Cho, S. G. (2017). The Role of Reactive Oxygen Species (ROS) in the Biological Activities of Metallic Nanoparticles. *Int J Mol Sci*, *18*.
- Abu-Asab, M., Amri, H., Koithan, M., & Shaver, J. (2012). A systems biology approach: parsimony phylogenetics. *Forsch Komplementarmed*, *19*, 42-48.
- Abud, A. P., Cesar, B., Cavazzani, L. F., de Oliveira, C. C., Gabardo, J., & Buchi Dde, F. (2006). Activation of bone marrow cells treated with Canova in vitro. *Cell Biol Int*, *30*, 808-16.
- Ahn, A. C., Nahin, R. L., Calabrese, C., Folkman, S., Kimbrough, E., Shoham, J., & Haramati, A. (2010). Applying principles from complex systems to studying the efficacy of CAM therapies. *J Altern Complement Med*, *16*, 1015-22.
- Aickin, M. (2005). The end of biomedical journals: there is madness in their methods. *Journal of Alternative & Complementary Medicine*, *11*, 755-57.
- Aime, C., Mosser, G., Pembouong, G., Bouteiller, L., & Coradin, T. (2012). Controlling the nano-bio interface to build collagen-silica self-assembled networks. *Nanoscale*, *4*, 7127-34.
- Alberto, F., Mario, L., Sara, P., Settimio, G., & Antonella, L. (2014). Electromagnetic information delivery as a new tool in translational medicine. *Int J Clin Exp Med*, *7*, 2550-6.
- Arora, S., & Tandon, S. (2015). DNA fragmentation and cell cycle arrest: a hallmark of apoptosis induced by Ruta graveolens in human colon cancer cells. *Homeopathy*, *104*, 36-47.
- Banerjee, A., Pathak, S., Biswas, S. J., Roy-Karmakar, S., Boujedaini, N., Belon, P., & Khuda-Bukhsh, A. R. (2010). Chelidonium majus 30C and 200C in induced hepato-toxicity in rats. *Homeopathy*, *99*, 167-76.
- Banerjee, P., Bhattacharyya, S. S., Pathak, S., Boujedaini, N., Belon, P., & Khuda-Bukhsh, A. R. (2011). Evidences of protective potentials of microdoses of ultra-high diluted arsenic trioxide in mice receiving repeated injections of arsenic trioxide. *Evid Based Complement Alternat Med*, *2011*, 391752.
- Banerji, P., Campbell, D. R., & Banerji, P. (2008). Cancer patients treated with the Banerji protocols utilising homoeopathic medicine: a Best Case Series Program of the National Cancer Institute USA. *Oncol Rep*, *20*, 69-74.
- Barabasi, A. L. (2003). *Linked. How everything is connected to everything else and what it means for business, science, and everyday life*. Cambridge, MA: Plume.
- Barabasi, A. L., Gulbahce, N., & Loscalzo, J. (2011). Network medicine: a network-based approach to human disease. *Nat Rev Genet*, *12*, 56-68.
- Baumgartner, S., Doesburg, P., Scherr, C., & Andersen, J. O. (2012). Development of a biocrystallisation assay for examining effects of homeopathic preparations using cress seedlings. *Evid Based Complement Alternat Med*, *2012*, 125945.
- Beauvais, F. (2013). A quantum-like model of homeopathy clinical trials: importance of in situ randomization and unblinding. *Homeopathy*, *102*, 106-13.
- Bell, I. R., Baldwin, C. M., & Schwartz, G. E. (2002). Translating a nonlinear systems theory model for homeopathy into empirical tests. *Alternative Therapies in Health & Medicine*, *8*, 58-66.

- Bell, I. R., Brooks, A. J., Howerter, A., Jackson, N., & Schwartz, G. E. (2013). Acute electroencephalographic effects from repeated olfactory administration of homeopathic remedies in individuals with self-reported chemical sensitivity. *Alternative Therapies in Health & Medicine, 19*, 46-57.
- Bell, I. R., Brooks, A.J., Howerter, A., Jackson, N., Schwartz, G.E. (2011). Short term effects of repeated olfactory administration of homeopathic Sulphur or Pulsatilla on electroencephalographic alpha power in healthy young adults. *Homeopathy, 100*, 203-11.
- Bell, I. R., Howerter, A., Jackson, N., Aickin, M., Baldwin, C. M., & Bootzin, R. R. (2011). Effects of homeopathic medicines on polysomnographic sleep of young adults with histories of coffee-related insomnia. *Sleep Med, 12*, 505-11.
- Bell, I. R., Howerter, A., Jackson, N., Aickin, M., & Bootzin, R. R. (2012). Nonlinear dynamical systems effects of homeopathic remedies on multiscale entropy and correlation dimension of slow wave sleep EEG in young adults with histories of coffee-induced insomnia. *Homeopathy, 101*, 182-92.
- Bell, I. R., Howerter, A., Jackson, N., Brooks, A.J., Schwartz, G.E. (2012). Multi-week resting EEG cordance change patterns from repeated olfactory activation with two constitutionally-salient homeopathic remedies in healthy young adults. *J Alternative and Complementary Medicine, 18*, 445-53.
- Bell, I. R., & Koithan, M. (2006). Models for the study of whole systems. *Integrative Cancer Therapies, 5*, 293-307.
- Bell, I. R., & Koithan, M. (2012). A model for homeopathic remedy effects: low dose nanoparticles, allostatic cross-adaptation, and time-dependent sensitization in a complex adaptive system. *BMC Complement Altern Med, 12*, 191.
- Bell, I. R., Koithan, M., & Brooks, A. J. (2013). Testing the nanoparticle-allostatic cross-adaptation-sensitization model for homeopathic remedy effects. *Homeopathy, 102*, 66-81.
- Bell, I. R., Koithan, M., & Pincus, D. (2012). Research methodological implications of nonlinear dynamical systems models for whole systems of complementary and alternative medicine. *Forschende Komplementarmedizin und Klassische Naturheilkunde, 19*, 15-21.
- Bell, I. R., Lewis, D. A., 2nd, Brooks, A. J., Lewis, S. E., & Schwartz, G. E. (2003). Gas discharge visualization evaluation of ultramolecular doses of homeopathic medicines under blinded, controlled conditions. *J Altern Complement Med, 9*, 25-38.
- Bell, I. R., Lewis, D. A., 2nd, Brooks, A. J., Schwartz, G. E., Lewis, S. E., Walsh, B. T., & Baldwin, C. M. (2004). Improved clinical status in fibromyalgia patients treated with individualized homeopathic remedies versus placebo. *Rheumatology, 43*, 577-82.
- Bell, I. R., Lewis, D. A., 2nd, Lewis, S. E., Schwartz, G. E., Brooks, A. J., Scott, A., & Baldwin, C. M. (2004). EEG alpha sensitization in individualized homeopathic treatment of fibromyalgia. *International Journal of Neuroscience, 114*, 1195-220.
- Bell, I. R., Muralidharan, S., & Schwartz, G. E. (2015a). Nanoparticle characterization of traditional homeopathically-manufactured Gelsemium sempervirens medicines and placebo controls. *J Nanomedicine & Biotherapeutic Discovery, 5*, 136.
- Bell, I. R., Muralidharan, S., & Schwartz, G. E. (2015b). Nanoparticle characterization of traditional homeopathically-manufactured silver (Argentum Metallicum) medicines and placebo controls. *J Nanomed Nanotechnol, 6*, 311.
- Bell, I. R., Sarter, B., Koithan, M., Banerji, P., Banerji, P., Jain, S., & Ives, J. A. (2013). Integrative nanomedicine: treating cancer with nanoscale natural products. *Global Advances in Health and Medicine, 3*, 36-53.
- Bell, I. R., Sarter, B., Koithan, M., Standish, L. J., Banerji, P., & Banerji, P. (2013). Nonlinear response amplification mechanisms for low doses of natural product nanomedicines: dynamical interactions with the recipient complex adaptive system. *J Nanomed Nanotechnol, 4*, 179.

- Bell, I. R., Sarter, B., Standish, L. J., Banerji, P., & Banerji, P. (2015). Low doses of traditional nanophytomedicines for clinical treatment: manufacturing processes and nonlinear response patterns. *J Nanosci Nanotechnol*, *15*, 4021-38.
- Bell, I. R., & Schwartz, G. E. (2013). Adaptive network nanomedicine: an integrated model for homeopathic medicine. *Frontiers in Bioscience (Scholar Ed.)*, *5*, 685-708.
- Bell, I. R., & Schwartz, G. E. (2015). Enhancement of adaptive biological effects by nanotechnology preparation methods in homeopathic medicines. *Homeopathy*, *104*, 123-38.
- Bell, I. R., Schwartz, G. E., Boyer, N. N., Koithan, M., & Brooks, A. J. (2013). Advances in integrative nanomedicine for improving infectious disease treatment in public health. *European Journal of Integrative Medicine*, *5*, 126-40.
- Bell, I. R., Schwartz, G. E., Frye, J., Sarter, B., & Standish, L. J. (2015). Extending the adaptive network nanomedicine model for homeopathic medicine: nanostructures as salient cell danger signals for adaptation. *Nanoscience and Technology: Open Access*, *2*, 1-22.
- Bellavite, P. (2003). Complexity science and homeopathy: a synthetic overview. *Homeopathy: the Journal of the Faculty of Homeopathy.*, *92*, 203-12.
- Bellavite, P., Conforti, A., Marzotto, M., Magnani, P., Cristofolletti, M., Oliosio, D., & Zanolin, M. E. (2012). Testing homeopathy in mouse emotional response models: pooled data analysis of two series of studies. *Evid Based Complement Alternat Med*, *2012*, 954374.
- Bellavite, P., Marzotto, M., Chirumbolo, S., & Conforti, A. (2011). Advances in homeopathy and immunology: a review of clinical research. *Front Biosci (Schol Ed)*, *3*, 1363-89.
- Bellavite, P., Marzotto, M., Oliosio, D., Moratti, E., & Conforti, A. (2014a). High-dilution effects revisited. 1. Physicochemical aspects. *Homeopathy*, *103*, 4-21.
- Bellavite, P., Marzotto, M., Oliosio, D., Moratti, E., & Conforti, A. (2014b). High-dilution effects revisited. 2. Pharmacodynamic mechanisms. *Homeopathy*, *103*, 22-43.
- Bellavite, P., Oliosio, D., Marzotto, M., Moratti, E., & Conforti, A. (2013). A dynamic network model of the similia principle. *Complementary Therapies in Medicine*, *21*, 750-61.
- Bellavite, P., Ortolani, R., Pontarollo, F., Pitari, G., & Conforti, A. (2007). Immunology and homeopathy. 5. The rationale of the 'Simile'. *Evid Based Complement Alternat Med*, *4*, 149-63.
- Belon, P., Banerjee, A., Karmakar, S. R., Biswas, S. J., Choudhury, S. C., Banerjee, P., Das, J. K., Pathak, S., Guha, B., Paul, S., Bhattacharjee, N., & Khuda-Bukhsh, A. R. (2007). Homeopathic remedy for arsenic toxicity?: Evidence-based findings from a randomized placebo-controlled double blind human trial. *Sci Total Environ*, *384*, 141-50.
- Belon, P., Cumps J, Ennis M, Mannaioni PF, Roberfroid M, Sainte-Laudy J, Wiegant FA. (2004). Histamine dilutions modulate basophil activation. *Inflamm Res.*, *53*, 181-8.
- Bertani, S., Lussignoli, S., Andrioli, G., Bellavite, P., & Conforti, A. (1999). Dual effects of a homeopathic mineral complex on carrageenan-induced oedema in rats. *British Homoeopathic Journal*, *88*, 101-5.
- Bertolaso, M., Capolupo, A., Cherubini, C., Filippi, S., Gizzi, A., Loppini, A., & Vitiello, G. (2015). The role of coherence in emergent behavior of biological systems. *Electromagnetic Biology & Medicine*, *34*, 138-40.
- Betti, L., Trebbi, G., Kokornaczyk, M. O., Nani, D., Peruzzi, M., Dinelli, G., Bellavite, P., & Brizzi, M. (2017a). Number of succussion strokes affects effectiveness of ultra-high-diluted arsenic on in vitro wheat germination and polycrystalline structures obtained by droplet evaporation method. *Homeopathy*, *106*, 47-54.
- Betti, L., Trebbi, G., Kokornaczyk, O., Nani, D., Peruzzi, M., & Brizzi, M. (2013). Effectiveness of ultra high diluted arsenic is a function of succussion number as evidenced by wheat germination test and droplet evaporation method. *Int J High Dilution Res*, *12*, 127-28.

- Betti, L., Trebbi, G., Kokornaczyk, O., Nani, D., Peruzzi, M., Dinelli, G., Bellavite, P., & Brizzi, M. (2017b). Number of succussion strokes affects effectiveness of ultra-high-diluted arsenic on in vitro wheat germination and polycrystalline structures obtained by droplet evaporation method. *Homeopathy, in press*.
- Betti, L., Trebbi, G., Olioso, D., Marzotto, M., & Bellavite, P. (2013). Basic research in homeopathy and ultra-high dilutions: what progress is being made? *Homeopathy, 102*, 151-4.
- Bhattacharyya, S. S., Mandal, S. K., Biswas, R., Paul, S., Pathak, S., Boujedaini, N., Belon, P., & Khuda-Bukhsh, A. R. (2008). In vitro studies demonstrate anticancer activity of an alkaloid of the plant *Gelsemium sempervirens*. *Exp Biol Med (Maywood), 233*, 1591-601.
- Bhattacharyya, S. S., Paul, S., & Khuda-Bukhsh, A. R. (2010). Encapsulated plant extract (*Gelsemium sempervirens*) poly (lactide-co-glycolide) nanoparticles enhance cellular uptake and increase bioactivity in vitro. *Exp Biol Med (Maywood), 235*, 678-88.
- Bigagli, E., Luceri, C., Bernardini, S., Dei, A., Filippini, A., & Dolara, P. (2014). Exploring the effects of homeopathic *Apis mellifica* preparations on human gene expression profiles. *Homeopathy, 103*, 127-32.
- Bigagli, E., Luceri, C., Dei, A., Bernardini, S., & Dolara, P. (2016). Effects of Extreme Dilutions of *Apis mellifica* Preparations on Gene Expression Profiles of Human Cells. *Dose Response, 14*, 1559325815626685.
- Bischof, M., & Del Giudice, E. (2013). Communication and the emergence of collective behavior in living organisms: a quantum approach. *Mol Biol Int, 2013*, 987549.
- Bishayee, K., Chakraborty, D., Ghosh, S., Boujedaini, N., & Khuda-Bukhsh, A. R. (2013). Lycopodine triggers apoptosis by modulating 5-lipoxygenase, and depolarizing mitochondrial membrane potential in androgen sensitive and refractory prostate cancer cells without modulating p53 activity: signaling cascade and drug-DNA interaction. *Eur J Pharmacol, 698*, 110-21.
- Biswas, R., Mandal, S. K., Dutta, S., Bhattacharyya, S. S., Boujedaini, N., & Khuda-Bukhsh, A. R. (2011). Thujone-Rich Fraction of *Thuja occidentalis* Demonstrates Major Anti-Cancer Potentials: Evidences from In Vitro Studies on A375 Cells. *Evid Based Complement Alternat Med, 2011*, 568148.
- Biswas, S. J., Bhattacharjee, N., & Khuda-Bukhsh, A. R. (2008). Efficacy of a plant extract (*Chelidonium majus* L.) in combating induced hepatocarcinogenesis in mice. *Food Chem Toxicol, 46*, 1474-87.
- Biswas, S. J., & Khuda-Bukhsh, A. R. (2002). Effect of a homeopathic drug, *Chelidonium*, in amelioration of p-DAB induced hepatocarcinogenesis in mice. *BMC Complement Altern Med, 2*, 4.
- Biswas, S. J., Pathak, S., Bhattacharjee, N., Das, J. K., & Khuda-Bukhsh, A. R. (2005). Efficacy of the potentized homeopathic drug, *Carcinosin 200*, fed alone and in combination with another drug, *Chelidonium 200*, in amelioration of p-dimethylaminoazobenzene-induced hepatocarcinogenesis in mice. *J Altern Complement Med, 11*, 839-54.
- Bittner, E. R., Madalan, A., Czader, A., & Roman, G. (2012). Quantum origins of molecular recognition and olfaction in *Drosophila*. *J Chem Phys, 137*, 22a551.
- Bonafini, C., Marzotto, M., & Bellavite, P. (2017). In vitro effects of Zinc in soluble and homeopathic formulations on macrophages and astrocytes. *Homeopathy, 106*, 103-13.
- Borriello, A., Bencivenga, D., Caldarelli, I., Tramontano, A., Borgia, A., Pirozzi, A. V., Oliva, A., & Della Ragione, F. (2013). Resveratrol and cancer treatment: is hormesis a yet unsolved matter? *Curr Pharm Des, 19*, 5384-93.
- Bousta, D., Soulimani, R., Jarmouni, I., Belon, P., Falla, J., Froment, N., & Younos, C. (2001). Neurotropic, immunological and gastric effects of low doses of *Atropa belladonna* L., *Gelsemium sempervirens* L. and *Poumon histamine* in stressed mice. *J Ethnopharmacol, 74*, 205-15.
- Bracho, G., Varela, E., Fernandez, R., Ordaz, B., Marzoa, N., Menendez, J., Garcia, L., Gilling, E., Leyva, R., Rufin, R., de la Torre, R., Solis, R. L., Batista, N., Borrero, R., & Campa, C. (2010). Large-scale

- application of highly-diluted bacteria for Leptospirosis epidemic control. *Homeopathy*, 99, 156-66.
- Burbano, R. R., Leal, M. F., da Costa, J. B., Bahia Mde, O., de Lima, P. D., Khayat, A. S., Seligman, I. C., de Assumpcao, P. P., Buchi Dde, F., & Smith Mde, A. (2009). Lymphocyte proliferation stimulated by activated human macrophages treated with Canova. *Homeopathy*, 98, 45-8.
- Bussing, A., & Schweizer, K. (1998). Effects of a phytopreparation from *Helleborus niger* on immunocompetent cells in vitro. *J Ethnopharmacol*, 59, 139-46.
- Buzea, C., Pacheco, I. I., & Robbie, K. (2007). Nanomaterials and nanoparticles: sources and toxicity. *Biointerphases*, 2, MR17-71.
- Calabrese, E. J. (2013). Hormetic mechanisms. *Critical Reviews in Toxicology*, 43, 580-606.
- Calabrese, E. J. (2015). Hormesis within a mechanistic context. *Homeopathy*, 104, 90-96.
- Calabrese, E. J., Bachmann, K. A., Bailer, A. J., Bolger, P. M., Borak, J., Cai, L., Cedergreen, N., Cherian, M. G., Chiueh, C. C., Clarkson, T. W., Cook, R. R., Diamond, D. M., Doolittle, D. J., Dorato, M. A., Duke, S. O., Feinendegen, L., Gardner, D. E., Hart, R. W., Hastings, K. L., Hayes, A. W., Hoffmann, G. R., Ives, J. A., Jaworowski, Z., Johnson, T. E., Jonas, W. B., Kaminski, N. E., Keller, J. G., Klaunig, J. E., Knudsen, T. B., Kozumbo, W. J., Lettieri, T., Liu, S. Z., Maisseu, A., Maynard, K. I., Masoro, E. J., McClellan, R. O., Mehendale, H. M., Mothersill, C., Newlin, D. B., Nigg, H. N., Oehme, F. W., Phalen, R. F., Philbert, M. A., Rattan, S. I., Riviere, J. E., Rodricks, J., Sapolsky, R. M., Scott, B. R., Seymour, C., Sinclair, D. A., Smith-Sonneborn, J., Snow, E. T., Spear, L., Stevenson, D. E., Thomas, Y., Tubiana, M., Williams, G. M., & Mattson, M. P. (2007). Biological stress response terminology: Integrating the concepts of adaptive response and preconditioning stress within a hormetic dose-response framework. *Toxicol Appl Pharmacol*, 222, 122-8.
- Calabrese, E. J., & Jonas, W. B. (2010). Evaluating homeopathic drugs within a biomedical framework. *Hum Exp Toxicol*, 29, 545-9.
- Calabrese, E. J., & Jonas, W. B. (2010). Homeopathy: clarifying its relationship to hormesis. *Hum Exp Toxicol*, 29, 531-6.
- Calabrese, E. J., & Mattson, M. P. (2011). Hormesis provides a generalized quantitative estimate of biological plasticity. *J Cell Commun Signal*, 5, 25-38.
- Calabrese, E. J., Mattson, M. P., & Calabrese, V. (2010). Resveratrol commonly displays hormesis: occurrence and biomedical significance. *Hum Exp Toxicol*, 29, 980-1015.
- Canello, S., Gasparini, G., Luisetto, P., Di Cerbo, A., & Pomerri, F. (2016). Bone computed tomography mineral content evaluation in chickens: effects of substances in homeopathic concentration. *Homeopathy*, 105, 92-5.
- Cartwright, S. J. (2016). Solvatochromic dyes detect the presence of homeopathic potencies. *Homeopathy*, 105, 55-65.
- Cartwright, S. J. (2017). Interaction of homeopathic potencies with the water soluble solvatochromic dye bis-dimethylaminofuchson. Part 1: pH studies. *Homeopathy*, 106, 37-46.
- Cartwright, S. J. (2018). Degree of Response to Homeopathic Potencies Correlates with Dipole Moment Size in Molecular Detectors: Implications for Understanding the Fundamental Nature of Serially Diluted and Succussed Solutions. *Homeopathy*, 107, 19-31.
- Caulfield, T., & DeBow, S. (2005). A systematic review of how homeopathy is represented in conventional and CAM peer reviewed journals. *BMC Complement Altern Med*, 5, 12.
- Cesar, B., Abud, A. P., de Oliveira, C. C., Cardoso, F., Gremski, W., Gabardo, J., & Buchi Dde, F. (2008). Activation of mononuclear bone marrow cells treated in vitro with a complex homeopathic medication. *Micron*, 39, 461-70.
- Chaikin, Y., Kedem, O., Raz, J., Vaskevich, A., & Rubinstein, I. (2013). Stabilization of Metal Nanoparticle Films on Glass Surfaces Using Ultrathin Silica Coating. *Anal Chem*, 85, 10022-7.

- Chakraborty, M., Ghosh, S., Das, S., Basu, R., & Nandy, P. (2015). Effect of Different Potencies of Nanomedicine Aconitum Napelles on Its Spectral and Antibacterial Properties. *International Journal of Innovative Research in Science, Engineering and Technology*, 4, 6862-67.
- Chanput, W., Mes, J. J., & Wichers, H. J. (2014). THP-1 cell line: an in vitro cell model for immune modulation approach. *Int Immunopharmacol*, 23, 37-45.
- Chatel, A., & Mouneyrac, C. (2017). Signaling pathways involved in metal-based nanomaterial toxicity towards aquatic organisms. *Comp Biochem Physiol C Toxicol Pharmacol*, 196, 61-70.
- Chikramane, P. S., Kalita, D., Suresh, A. K., Kane, S. G., & Bellare, J. R. (2012). Why Extreme Dilutions Reach Non-zero Asymptotes: A Nanoparticulate Hypothesis Based on Froth Flotation. *Langmuir*, 28, 15864-75.
- Chikramane, P. S., Suresh, A. K., Bellare, J. R., & Kane, S. G. (2010). Extreme homeopathic dilutions retain starting materials: A nanoparticulate perspective. *Homeopathy*, 99, 231-42.
- Chikramane, P. S., Suresh, A. K., Kane, S. G., & Bellare, J. R. (2017). Metal nanoparticle induced hormetic activation: a novel mechanism of homeopathic medicines. *Homeopathy*, 106, 135-44.
- Choudhury, S. R., Ghosh, M., Mandal, A., Chakravorty, D., Pal, M., Pradhan, S., & Goswami, A. (2011). Surface-modified sulfur nanoparticles: an effective antifungal agent against *Aspergillus niger* and *Fusarium oxysporum*. *Appl Microbiol Biotechnol*, 90, 733-43.
- Chow, A., Brown, B. D., & Merad, M. (2011). Studying the mononuclear phagocyte system in the molecular age. *Nat Rev Immunol*, 11, 788-98.
- Chu, S. H., Feng, D. F., Ma, Y. B., & Li, Z. Q. (2012). Hydroxyapatite nanoparticles inhibit the growth of human glioma cells in vitro and in vivo. *Int J Nanomedicine*, 7, 3659-66.
- Chu, S. H., Zhou, Z. M., Feng, D. F., & Ma, Y. B. (2014). Inhibition of human glioma U251 cells growth in vitro and in vivo by hydroxyapatite nanoparticle-assisted delivery of short hairpin RNAs against SATB1. *Mol Biol Rep*, 41, 977-86.
- Coelho Moreira, C. O., de Fatima Ferreira Borges da Costa, J., Leal, M. F., Ferreira de Andrade, E., Rezende, A. P., Imbeloni, A. A., Pereira Carneiro Muniz, J. A., de Arruda Cardoso Smith, M., Burbano, R. R., & de Assumpcao, P. P. (2012). Lymphocyte proliferation stimulated by activated *Cebus apella* macrophages treated with a complex homeopathic immune response modifiers. *Homeopathy*, 101, 74-9.
- Coffey, D. S. (1998). Self-organization, complexity, and chaos: the new biology for medicine. *Nature Medicine*, 4, 882-85.
- Courtens, F., & Benabdallah, M. (2016). Homéopathie et récepteurs olfactifs, une nouvelle hypothèse pour un mode d'action possible de l'homéopathie. *La Revue d'Homéopathie*, 7, 156-60.
- Csupor, D., Boros, K., & Hohmann, J. (2013). Low potency homeopathic remedies and allopathic herbal medicines: is there an overlap? *PLoS ONE*, 8, e74181.
- Czaplicka, A., Holyst, J. A., & Sloot, P. M. (2013). Noise enhances information transfer in hierarchical networks. *Sci Rep*, 3, 1223.
- Czerlinski, G., & Ypma, T. (2011). Homeopathic potentization based on nanoscale domains. *J Altern Complement Med*, 17, 1165-73.
- Czerlinski, G., & Ypma, T. (2012). The targets of information-carrying nanodomains. *J Nanosci Nanotechnol*, 12, 2239-47.
- Danno, K., Colas, A., Masson, J. L., & Bordet, M. F. (2013). Homeopathic treatment of migraine in children: results of a prospective, multicenter, observational study. *J Altern Complement Med*, 19, 119-23.
- Das, D., De, A., Dutta, S., Biswas, R., Boujedaini, N., & Khuda-Bukhsh, A. R. (2011). Potentized homeopathic drug Arsenicum Album 30C positively modulates protein biomarkers and gene expressions in *Saccharomyces cerevisiae* exposed to arsenate. *Zhong Xi Yi Jie He Xue Bao*, 9, 752-60.

- Das, S., Das, J., Samadder, A., Bhattacharyya, S., Das, D., & Khuda-Bukhsh, A. R. (2013). Biosynthesized silver nanoparticles by ethanolic extracts of *Phytolacca decandra*, *Gelsemium sempervirens*, *Hydrastis canadensis* and *Thuja occidentalis* induce differential cytotoxicity through G2/M arrest in A375 cells. *Colloids and Surfaces B: Biointerfaces*, *101*, 325-36.
- Das, S., Saha, S. K., De, A., Das, D., & Khuda-Bukhsh, A. R. (2012). Potential of the homeopathic remedy, *Arnica Montana 30C*, to reduce DNA damage in *Escherichia coli* exposed to ultraviolet irradiation through up-regulation of nucleotide excision repair genes. *Zhong Xi Yi Jie He Xue Bao*, *10*, 337-46.
- De, A., Das, D., Dutta, S., Chakraborty, D., Boujedaini, N., & Khuda-Bukhsh, A. R. (2012). Potentized homeopathic drug *Arsenicum Album 30C* inhibits intracellular reactive oxygen species generation and up-regulates expression of arsenic resistance gene in arsenine-exposed bacteria *Escherichia coli*. *J Chinese Integrative Med*, *10*, 210-27.
- de Oliveira, C. C., de Oliveira, S. M., Godoy, L. M., Gabardo, J., & Buchi Dde, F. (2006). Canova, a Brazilian medical formulation, alters oxidative metabolism of mice macrophages. *J Infect*, *52*, 420-32.
- de Oliveira, C. C., de Oliveira, S. M., Goes, V. M., Probst, C. M., Krieger, M. A., & Buchi Dde, F. (2008). Gene expression profiling of macrophages following mice treatment with an immunomodulator medication. *J Cell Biochem*, *104*, 1364-77.
- de Oliveira, S. M., de Oliveira, C. C., Abud, A. P., Guimaraes Fde, S., Di Bernardi, R. P., Coletto, E. L., & Buchi Dde, F. (2011). *Mercurius solubilis*: actions on macrophages. *Homeopathy*, *100*, 228-36.
- de Paula Coelho, C., Motta, P. D., Petrillo, M., de Oliveira Iovine, R., Dalboni, L. C., Santana, F. R., Correia, M. S., Casarin, R. C., Carvalho, V. M., & Bonamin, L. V. (2017). Homeopathic medicine *Cantharis* modulates uropathogenic *E. coli* (UPEC)-induced cystitis in susceptible mice. *Cytokine*, *92*, 103-09.
- Del Giudice, E., & Tedeschi, A. (2009). Water and autocatalysis in living matter. *Electromagn Biol Med*, *28*, 46-52.
- Demangeat, J. L. (2010). NMR relaxation evidence for solute-induced nanosized superstructures in ultramolecular aqueous dilutions of silica-lactose. *Journal of Molecular Liquids*, *155*, 71-79.
- Demangeat, J. L. (2013). Nanosized solvent superstructures in ultramolecular aqueous dilutions: twenty years' research using water proton NMR relaxation. *Homeopathy*, *102*, 87-105.
- Demangeat, J. L. (2015). Gas nanobubbles and aqueous nanostructures: the crucial role of dynamization. *Homeopathy*, *104*, 101-15.
- Dimpfel, W., Roeska, K., & Seilheimer, B. (2012). Effect of Neurexan on the pattern of EEG frequencies in rats. *BMC Complement Altern Med*, *12*, 126.
- Dimpfel, W., Roeska K, Seilheimer B. (2010). The ultra low dose combination medication ULDCM-310 triggers electro-encephalographic patterns in the rat brain in a dose and time dependent manner. *European Journal of Integrative Medicine*, *2*, 227-28.
- Dimpfel, W., Storni, C., & Verbruggen, M. (2011). Ingested oat herb extract (*Avena sativa*) changes EEG spectral frequencies in healthy subjects. *J Altern Complement Med*, *17*, 427-34.
- Elia, V., Ausanio, G., Gentile, F., Germano, R., Napoli, E., & Niccoli, M. (2014). Experimental evidence of stable water nanostructures in extremely dilute solutions, at standard pressure and temperature. *Homeopathy*, *103*, 44-50.
- Elia, V., Marrari, L. A., & Napoli, E. (2012). Aqueous nanostructures in water induced by electromagnetic fields emitted by EDS. *Journal of Thermal Analysis and Calorimetry*, *107*, 843-51.
- Fadlalla, K., Watson, A., Yehualaeshet, T., Turner, T., & Samuel, T. (2011). *Ruta graveolens* extract induces DNA damage pathways and blocks Akt activation to inhibit cancer cell proliferation and survival. *Anticancer Res*, *31*, 233-41.
- Falagan-Lotsch, P., Grzincic, E. M., & Murphy, C. J. (2016a). One low-dose exposure of gold nanoparticles induces long-term changes in human cells. *Proc Natl Acad Sci U S A*.

- Falagan-Lotsch, P., Grzincic, E. M., & Murphy, C. J. (2016b). One low-dose exposure of gold nanoparticles induces long-term changes in human cells. *Proc Natl Acad Sci U S A*, *113*, 13318-23.
- Fioranelli, M., Bianchi, M., Rocchia, M. G., & V, D. I. N. (2016). Effects of Arnica comp.-Heel(R) on reducing cardiovascular events in patients with stable coronary disease. *Minerva Cardioangiol*, *64*, 34-40.
- Fisher, P. (2012). What is homeopathy? An introduction. *Front Biosci (Elite Ed)*, *4*, 1669-82.
- Fisher, P. (2016). Is quantum entanglement in homeopathy a reality? *Homeopathy*, *105*, 209-10.
- Fisher, P., Greenwood, A., Huskisson, E.C., Turner, P., Belon, P. (1989). Effect of homeopathic treatment on fibrositis (primary fibromyalgia). *British Medical Journal.*, *299*, 365-66.
- Foletti, A., Grimaldi, S., Lisi, A., Ledda, M., & Liboff, A. R. (2013). Bioelectromagnetic medicine: the role of resonance signaling. *Electromagn Biol Med*, *32*, 484-99.
- Foletti, A., Ledda, M., Grimaldi, S., D'Emilia, E., Giuliani, L., Liboff, A., & Lisi, A. (2015). The trail from quantum electro dynamics to informative medicine. *Electromagnetic Biology & Medicine*, *34*, 147-50.
- Fønnebø, V., Grimsgaard S, Walach H, Ritenbaugh C, Norheim AJ, MacPherson H, Lewith G, Launsø L, Koithan M, Falkenberg T, Boon H, Aickin M. (2007). Researching complementary and alternative treatments--the gatekeepers are not at home. *BMC Med Res Methodol*, *7*, 7.
- Franco, M. I., Turin, L., Mershin, A., & Skoulakis, E. M. (2011). Molecular vibration-sensing component in *Drosophila melanogaster* olfaction. *Proc Natl Acad Sci U S A*, *108*, 3797-802.
- Frass, M., Dielacher, C., Linkesch, M., Endler, C., Muchitsch, I., Schuster, E., & Kaye, A. (2005). Influence of potassium dichromate on tracheal secretions in critically ill patients. *Chest*, *127*, 936-41.
- Frass, M., Friehs, H., Thallinger, C., Sohal, N. K., Marosi, C., Muchitsch, I., Gaertner, K., Gleiss, A., Schuster, E., & Oberbaum, M. (2015). Influence of adjunctive classical homeopathy on global health status and subjective wellbeing in cancer patients - A pragmatic randomized controlled trial. *Complement Ther Med*, *23*, 309-17.
- Frass, M., Linkesch, M., Banyai, S., Resch, G., Dielacher, C., Lobl, T., Endler, C., Haidvogel, M., Muchitsch, I., & Schuster, E. (2005). Adjunctive homeopathic treatment in patients with severe sepsis: a randomized, double-blind, placebo-controlled trial in an intensive care unit. *Homeopathy*, *94*, 75-80.
- Frass, M., Linkesch, M., Banyai, S., Resch, G., Dielacher, C., Lobl, T., Endler, C., Haidvogel, M., Muchitsch, I., & Schuster, E. (2011). Adjunctive homeopathic treatment in patients with severe sepsis: a randomized, double-blind, placebo-controlled trial in an intensive care unit. 2005. *Homeopathy*, *100*, 95-100.
- Frenkel, M., Mishra, B. M., Sen, S., Yang, P., Pawlus, A., Vence, L., Leblanc, A., Cohen, L., & Banerji, P. (2010). Cytotoxic effects of ultra-diluted remedies on breast cancer cells. *Int J Oncol*, *36*, 395-403.
- Gaertner, K., Mullner, M., Friehs, H., Schuster, E., Marosi, C., Muchitsch, I., Frass, M., & Kaye, A. D. (2014). Additive homeopathy in cancer patients: Retrospective survival data from a homeopathic outpatient unit at the Medical University of Vienna. *Complement Ther Med*, *22*, 320-32.
- Gallo, P. M., & Gallucci, S. (2013). The dendritic cell response to classic, emerging, and homeostatic danger signals. Implications for autoimmunity. *Front Immunol*, *4*, 138.
- Gane, S., Georganakis, D., Maniati, K., Vamvakias, M., Ragoussis, N., Skoulakis, E. M., & Turin, L. (2013). Molecular vibration-sensing component in human olfaction. *PLoS ONE*, *8*, e55780.
- Gayen, A. L., Mondal, D., Roy, D., Bandyopadhyay, P., Manna, S., Basu, R., Das, S., Bhar, D. S., Paul, B. K., & Nandy, P. (2017). Improvisation of electrical properties of PVDF-HFP: use of novel metallic nanoparticles. *Journal of Materials Science: Materials in Electronics*, *28*, 14798-808.

- Gentile, M. T., Ciniglia, C., Reccia, M. G., Volpicelli, F., Gatti, M., Thellung, S., Florio, T., Melone, M. A., & Colucci-D'Amato, L. (2015). Ruta graveolens L. induces death of glioblastoma cells and neural progenitors, but not of neurons, via ERK 1/2 and AKT activation. *PLoS ONE*, *10*, e0118864.
- Germano, R. (2015). Water's quantum structures and life. *Electromagnetic Biology & Medicine*, *34*, 133-37.
- Ghosh, S., Bishayee, K., Paul, A., Mukherjee, A., Sikdar, S., Chakraborty, D., Boujedaini, N., & Khuda-Bukhsh, A. R. (2013). Homeopathic mother tincture of Phytolacca decandra induces apoptosis in skin melanoma cells by activating caspase-mediated signaling via reactive oxygen species elevation. *J Integr Med*, *11*, 116-24.
- Ghosh, S., Chakraborty, M., Das, S., Basu, R., & Nandy, P. (2015). Effect of Different Potencies of Nanomedicine Cuprum metallicum on Membrane Fluidity-a Biophysical Study. *American Journal of Homeopathic Medicine*, *107*, 161-69.
- Ghosh, S., Patil, S., Ahire, M., Kitture, R., Kale, S., Pardesi, K., Cameotra, S. S., Bellare, J., Dhavale, D. D., Jabgunde, A., & Chopade, B. A. (2012). Synthesis of silver nanoparticles using Dioscorea bulbifera tuber extract and evaluation of its synergistic potential in combination with antimicrobial agents. *Int J Nanomedicine*, *7*, 483-96.
- Ghosh, S., Sikdar, S., Mukherjee, A., & Khuda-Bukhsh, A. R. (2015). Evaluation of chemopreventive potentials of ethanolic extract of Ruta graveolens against A375 skin melanoma cells in vitro and induced skin cancer in mice in vivo. *J Integr Med*, *13*, 34-44.
- Glatthaar-Saalmuller, B. (2007). In vitro evaluation of the antiviral effects of the homeopathic preparation Gripp-Heel on selected respiratory viruses. *Can J Physiol Pharmacol*, *85*, 1084-90.
- Gleiss, A., Frass, M., & Gaertner, K. (2016). Re-analysis of survival data of cancer patients utilizing additive homeopathy. *Complement Ther Med*, *27*, 65-7.
- Grimaldi-Bensouda, L., Abenhaim, L., Massol, J., Guillemot, D., Avouac, B., Duru, G., Lert, F., Magnier, A. M., Rossignol, M., Rouillon, F., & Begaud, B. (2016). Homeopathic medical practice for anxiety and depression in primary care: the EPI3 cohort study. *BMC Complement Altern Med*, *16*, 125.
- Grimaldi-Bensouda, L., Begaud, B., Rossignol, M., Avouac, B., Lert, F., Rouillon, F., Benichou, J., Massol, J., Duru, G., Magnier, A. M., Abenhaim, L., & Guillemot, D. (2014). Management of Upper Respiratory Tract Infections by Different Medical Practices, Including Homeopathy, and Consumption of Antibiotics in Primary Care: The EPI3 Cohort Study in France 2007-2008. *PLoS ONE*, *9*, e89990.
- Grundling, C., Schimetta, W., & Frass, M. (2012). Real-life effect of classical homeopathy in the treatment of allergies: A multicenter prospective observational study. *Wien Klin Wochenschr*, *124*, 11-7.
- Guimaraes, F. S., Andrade, L. F., Martins, S. T., Abud, A. P., Sene, R. V., Wanderer, C., Tiscornia, I., Bollati-Fogolin, M., Buchi, D. F., & Trindade, E. S. (2010). In vitro and in vivo anticancer properties of a Calcarea carbonica derivative complex (M8) treatment in a murine melanoma model. *BMC Cancer*, *10*, 113.
- Gupta, H. R., Patil, Y., Singh, D., & Thakur, M. (2016). Embryonic Zebrafish Model - A Well-Established Method for Rapidly Assessing the Toxicity of Homeopathic Drugs: - Toxicity Evaluation of Homeopathic Drugs Using Zebrafish Embryo Model. *J Pharmacopuncture*, *19*, 319-28.
- Hahn, R. G. (2013a). Homeopathy: Meta-Analyses of Pooled Clinical Data. *Forschende Komplementärmedizin / Research in Complementary Medicine*, *20*, 376-81.
- Hahn, R. G. (2013b). Homeopathy: meta-analyses of pooled clinical data. *Forsch Komplementmed*, *20*, 376-81.
- Haidvogel, M., Riley, D. S., Heger, M., Brien, S., Jong, M., Fischer, M., Lewith, G. T., Jansen, G., & Thurneysen, A. E. (2007). Homeopathic and conventional treatment for acute respiratory and

- ear complaints: a comparative study on outcome in the primary care setting. *BMC Complement Altern Med*, 7, 7.
- Hidalgo, C. A., Blumm, N., Barabasi, A. L., & Christakis, N. A. (2009). A dynamic network approach for the study of human phenotypes. *PLoS Comput Biol*, 5, e1000353.
- Holandino, C., Oliveira, A. P., Homsani, F., de Paiva, J. P., Barbosa, G. M., de Lima Zanetti, M. R., de Barros Fernandes, T., Siqueira, C. M., da Veiga, V. F., Coli Louvisse de Abreu, L., Marzotto, M., Bernardi, P., Bonamin, L. V., Bellavite, P., Rossi, A. L., & Picciani, P. H. d. S. (2017). Structural and thermal analyses of zinc and lactose in homeopathic triturated systems. *Homeopathy*, 106, 160-70.
- Hollenstein, T. (2007). State space grids: analyzing dynamics across development. *International Journal of Behavioral Development*, 31, 384-96.
- Hostanska, K., Rostock, M., Melzer, J., Baumgartner, S., & Saller, R. (2012). A homeopathic remedy from arnica, marigold, St. John's wort and comfrey accelerates in vitro wound scratch closure of NIH 3T3 fibroblasts. *BMC Complement Altern Med*, 12, 100.
- Howerter, A., Hollenstein, T., Boon, H., & Brule, D. (2012). State-space grid analysis: Applications for clinical WS-CAM research. *Forsch Komplementarmed*, 19, DOI: 10.1159/000335187.
- Hu, Z., Song, B., Xu, L., Zhong, Y., Peng, F., Ji, X., Zhu, F., Yang, C., Zhou, J., Su, Y., Chen, S., He, Y., & He, S. (2016). Aqueous synthesized quantum dots interfere with the NF-kappaB pathway and confer anti-tumor, anti-viral and anti-inflammatory effects. *Biomaterials*, 108, 187-96.
- Hyland, M. E. (2003). Extended network generalized entanglement theory: therapeutic mechanisms, empirical predictions, and investigations. *Journal of Alternative & Complementary Medicine*, 9, 919-36.
- Hyland, M. E. (2003). Extended Network Generalized Entanglement Theory: therapeutic mechanisms, empirical predictions, and investigations. [Review] [64 refs]. *Journal of Alternative & Complementary Medicine*, 9, 919-36.
- Hyland, M. E., & Lewith, G. T. (2002). Oscillatory effects in a homeopathic clinical trial: an explanation using complexity theory, and implications for clinical practice. *Homeopathy*, 91, 145-49.
- Iavicoli, I., Calabrese, E. J., & Nascarella, M. A. (2010). Exposure to nanoparticles and hormesis. *Dose Response*, 8, 501-17.
- Iavicoli, I., Fontana, L., Leso, V., & Calabrese, E. J. (2014). Hormetic dose-responses in nanotechnology studies. *Sci Total Environ*, 487, 361-74.
- Ives, J. A., Moffett, J. R., Arun, P., Lam, D., Todorov, T. I., Brothers, A. B., Anick, D. J., Centeno, J., Namboodiri, M. A., & Jonas, W. B. (2010). Enzyme stabilization by glass-derived silicates in glass-exposed aqueous solutions. *Homeopathy*, 99, 15-24.
- Jacobs, J., Jimenez, L. M., Gloyd, S. S., Gale, J. L., & Crothers, D. (1994). Treatment of acute childhood diarrhea with homeopathic medicine: a randomized clinical trial in Nicaragua. *Pediatrics*, 93, 719-25.
- Jacobs, J., & Taylor, J. A. (2016). A randomized controlled trial of a homeopathic syrup in the treatment of cold symptoms in young children. *Complement Ther Med*, 29, 229-34.
- Jager, T., Scherr, C., Shah, D., Majewsky, V., Betti, L., Trebbi, G., Bonamin, L., Simoes-Wust, A. P., Wolf, U., Simon, M., Heusser, P., & Baumgartner, S. (2011). Use of homeopathic preparations in experimental studies with abiotically stressed plants. *Homeopathy*, 100, 275-87.
- Jager, T., Scherr, C., Simon, M., Heusser, P., & Baumgartner, S. (2011). Development of a test system for homeopathic preparations using impaired duckweed (*Lemna gibba* L.). *J Altern Complement Med*, 17, 315-23.
- Jong, M. C., Buskin, S. L., Ilyenko, L., Kholodova, I., Burkart, J., Weber, S., Keller, T., & Klement, P. (2016). Effectiveness, safety and tolerability of a complex homeopathic medicinal product in the

- prevention of recurrent acute upper respiratory tract infections in children: a multicenter, open, comparative, randomized, controlled clinical trial. *Multidiscip Respir Med*, 11, 19.
- Jong, M. C., Ilyenko, L., Kholodova, I., Verwer, C., Burkart, J., Weber, S., Keller, T., & Klement, P. (2016). A Comparative Randomized Controlled Clinical Trial on the Effectiveness, Safety, and Tolerability of a Homeopathic Medicinal Product in Children with Sleep Disorders and Restlessness. *Evid Based Complement Alternat Med*, 2016, 9539030.
- Karatsoreos, I. N., & McEwen, B. S. (2013). Resilience and vulnerability: a neurobiological perspective. *F1000Prime Rep*, 5, 13.
- Karig, D. K., Siuti, P., Dar, R. D., Retterer, S. T., Doktycz, M. J., & Simpson, M. L. (2011). Model for biological communication in a nanofabricated cell-mimic driven by stochastic resonance. *Nano Commun Netw*, 2, 39-49.
- Karmakar, S. R., Biswas, S. J., & Khuda-Bukhsh, A. R. (2010). Anti-carcinogenic potentials of a plant extract (*Hydrastis canadensis*): I. Evidence from in vivo studies in mice (*Mus musculus*). *Asian Pac J Cancer Prev*, 11, 545-51.
- Karp, J. C., Sanchez, C., Guilbert, P., Mina, W., Demonceaux, A., & Cure, H. (2016). Treatment with *Ruta graveolens* 5CH and *Rhus toxicodendron* 9CH may reduce joint pain and stiffness linked to aromatase inhibitors in women with early breast cancer: results of a pilot observational study. *Homeopathy*, 105, 299-308.
- Khuda-Bukhsh, A. (2017). An overview of research at University of Kalyani in exploring some basic issues of Homoeopathy. *Indian Journal of Research in Homoeopathy*, 11, 147-57.
- Khuda-Bukhsh, A. R. (2003). Towards understanding molecular mechanisms of action of homeopathic drugs: an overview. *Mol Cell Biochem*, 253, 339-45.
- Khuda-Bukhsh, A. R., Bhattacharyya, S. S., Paul, S., Dutta, S., Boujedaini, N., & Belon, P. (2011). Modulation of Signal Proteins: A Plausible Mechanism to Explain How a Potentized Drug *Secale Cor 30C* Diluted beyond Avogadro's Limit Combats Skin Papilloma in Mice. *Evid Based Complement Alternat Med*, 2011, 286320.
- Khuda-Bukhsh, A. R., De, A., Das, D., Dutta, S., & Boujedaini, N. (2011). Analysis of the capability of ultra-highly diluted glucose to increase glucose uptake in arsenite-stressed bacteria *Escherichia coli*. *Zhong Xi Yi Jie He Xue Bao*, 9, 901-12.
- Khuda-Bukhsh, A. R., Pathak, S., Guha, B., Karmakar, S. R., Das, J. K., Banerjee, P., Biswas, S. J., Mukherjee, P., Bhattacharjee, N., Choudhury, S. C., Banerjee, A., Bhadra, S., Mallick, P., Chakrabarti, J., & Mandal, B. (2005). Can homeopathic arsenic remedy combat arsenic poisoning in humans exposed to groundwater arsenic contamination?: a preliminary report on first human trial. *Evid Based Complement Alternat Med*, 2, 537-48.
- Khuda-Bukhsh, A. R., Roy-Karmakar, S., Banerjee, A., Banerjee, P., Pathak, S., Biswas, S. J., Haque, S., Das, D., Boujedaini, N., & Belon, P. (2011). A Follow-Up Study on the Efficacy of the Homeopathic Remedy *Arsenicum album* in Volunteers Living in High Risk Arsenic Contaminated Areas. *Evid Based Complement Alternat Med*, 2011, 129214.
- Khuda-Bukhsh, A. R., & Sikdar, S. (2015). *Condurango 30C* Induces Epigenetic Modification of Lung Cancer-specific Tumour Suppressor Genes via Demethylation. *Forsch Komplementmed*, 22, 172-9.
- Kiel, S., Grinberg, O., Perkas, N., Charmet, J., Kepner, H., & Gedanken, A. (2012). Forming nanoparticles of water-soluble ionic molecules and embedding them into polymer and glass substrates. *Beilstein J Nanotechnol*, 3, 267-76.
- Kipnis, J. (2016). Multifaceted interactions between adaptive immunity and the central nervous system. *Science*, 353, 766-71.

- Klein, S. D., Sandig, A., Baumgartner, S., & Wolf, U. (2013). Differences in Median Ultraviolet Light Transmissions of Serial Homeopathic Dilutions of Copper Sulfate, Hypericum perforatum, and Sulfur. *Evid Based Complement Alternat Med*, 2013, 370609.
- Klein, S. D., & Wolf, U. (2013). Investigating Homeopathic Verum and Placebo Globules with UV Spectroscopy. *Forsch Komplementmed*, 20, 295-97.
- Klein, S. D., & Wolf, U. (2016). Comparison of homeopathic globules prepared from high and ultra-high dilutions of various starting materials by ultraviolet light spectroscopy. *Complement Ther Med*, 24, 111-7.
- Koithan, M., Bell, I. R., Niemeyer, K., & Pincus, D. (2012). A complex systems science perspective for whole systems of CAM research. *Forschende Komplementarmedizin und Klassische Naturheilkunde*, 19, 7-14.
- Koithan, M., Embrey, M., & Bell, I. R. (2015). Qualitative evaluation of successful homeopathic treatment of individuals with chronic diseases: descriptive phenomenology of patients' experiences. *Journal of Medicine and the Person*, 13, 23-35.
- Koithan, M., Verhoef, M., Bell, I. R., Ritenbaugh, C., White, M., & Mulkins, A. (2007). The process of whole person healing: "unstuckness" and beyond. *J Altern Complement Med*, 13, 659-68.
- Kokornaczyk, M. O., Baumgartner, S., & Betti, L. (2016). Polycrystalline structures formed in evaporating droplets as a parameter to test the action of Zincum metallicum 30c in a wheat seed model. *Homeopathy*, 105, 173-9.
- Kokornaczyk, M. O., Trebbi, G., Dinelli, G., Marotti, I., Bregola, V., Nani, D., Borghini, F., & Betti, L. (2014). Droplet evaporation method as a new potential approach for highlighting the effectiveness of ultra high dilutions. *Complement Ther Med*, 22, 333-40.
- Konovalov, A. I., & Ryzhkina, I. S. (2014). Highly diluted aqueous solutions: formation of nano-sized molecular assemblies (nanoassociates). *Geochemistry International*, 52, 1207-26.
- Lahnstein, L., Binder, M., Thurneysen, A., Frei-Erb, M., Betti, L., Peruzzi, M., Heusser, P., & Baumgartner, S. (2009). Isopathic treatment effects of Arsenicum album 45x on wheat seedling growth-- further reproduction trials. *Homeopathy*, 98, 198-207.
- Leal, M. F., Antunes, L. M., Lamarao, M. F., da Silva, C. E., da Silva, I. D., Assumpcao, P. P., Andrade, E. F., Rezende, A. P., Imbeloni, A. A., Muniz, J. A., Pinto, G. R., Smith Mde, A., & Burbano, R. R. (2012). The protective effect of Canova homeopathic medicine in cyclophosphamide-treated non-human primates. *Food Chem Toxicol*, 50, 4412-20.
- Lee, K. J., & Yeo, M. G. (2016). Homeopathic Rhus toxicodendron has dual effects on the inflammatory response in the mouse preosteoblastic cell line MC3T3-e1. *Homeopathy*, 105, 42-7.
- Lenger, K. (2017). Homeopathy—A Regulation Therapy Healing Hypo- or Hyper-functions of Pathological Pathways by Magnetic Photons according to the Resonance Principle. *J Life Sciences*, 11, 53-64.
- Lenger, K., Bajpai, R. P., & Spielmann, M. (2013). Identification of Unknown Homeopathic Remedies by Delayed Luminescence. *Cell Biochem Biophys*, 68, 321-34.
- Li, C., Levin, M., & Kaplan, D. L. (2016). Bioelectric modulation of macrophage polarization. *Sci Rep*, 6, 21044.
- Li, X., Kao, F. J., Chuang, C. C., & He, S. (2010). Enhancing fluorescence of quantum dots by silica-coated gold nanorods under one- and two-photon excitation. *Opt Express*, 18, 11335-46.
- Linde, K., Clausius, N., Ramirez, G., Melchart, D., Eitel, F., Hedges, L. V., & Jonas, W. B. (1997). Are the clinical effects of homeopathy placebo effects? A meta-analysis of placebo-controlled trials. *Lancet*, 350, 834-43.
- Lotti, T., Hercogova, J., Wollina, U., Chokoeva, A. A., Zarrab, Z., Gianfaldoni, S., Roccia, M. G., Fioranelli, M., & Tchernev, G. (2015). Treating skin diseases according to the low dose medicine principles. Data and hypotheses. *J Biol Regul Homeost Agents*, 29, 47-51.

- Ludtke, R., & Rutten, A. L. (2008). The conclusions on the effectiveness of homeopathy highly depend on the set of analyzed trials. *J Clin Epidemiol*, *61*, 1197-204.
- Ludtke, R., Willich, S. N., & Ostermann, T. (2013). Are the effects of homeopathy attributable to a statistical artefact? A reanalysis of an observational study. *Evid Based Complement Alternat Med*, *2013*, 612890.
- Magar, S., Nayak, D., Mahajan, U. B., Patil, K. R., Shinde, S. D., Goyal, S. N., Swaminarayan, S., Patil, C. R., Ojha, S., & Kundu, C. N. (2018). Ultra-diluted Toxicodendron pubescens attenuates pro-inflammatory cytokines and ROS-mediated neuropathic pain in rats. *Sci Rep*, *8*, 13562.
- Mahony, D., Cavallaro, A. S., Stahr, F., Mahony, T. J., Qiao, S. Z., & Mitter, N. (2013). Mesoporous Silica Nanoparticles Act as a Self-Adjuvant for Ovalbumin Model Antigen in Mice. *Small*, *9*, 3138-46.
- Malarczyk, E., Pazdzioch-Czochra, M., Graz, M., Kochmanska-Rdest, J., & Jarosz-Wilkolazka, A. (2011). Nonlinear changes in the activity of the oxygen-dependent demethylase system in Rhodococcus erythropolis cells in the presence of low and very low doses of formaldehyde. *Nonlinear Biomed Phys*, *5*, 9.
- Mallick, P., Chakrabarti, M. J., Guha, B., & Khuda-Bukhsh, A. R. (2003). Ameliorating effect of microdoses of a potentized homeopathic drug, Arsenicum Album, on arsenic-induced toxicity in mice. *BMC Complementary and Alternative Medicine*, *3*, <http://www.biomedcentral.com/1472-6882/3/7>.
- Mandal, S. K., Biswas, R., Bhattacharyya, S. S., Paul, S., Dutta, S., Pathak, S., & Khuda-Bukhsh, A. R. (2010). Lycopodine from Lycopodium clavatum extract inhibits proliferation of HeLa cells through induction of apoptosis via caspase-3 activation. *Eur J Pharmacol*, *626*, 115-22.
- Marotti, I., Betti, L., Bregola, V., Bosi, S., Trebbi, G., Borghini, G., Nani, D., & Dinelli, G. (2014). Transcriptome Profiling of Wheat Seedlings following Treatment with Ultrahigh Diluted Arsenic Trioxide. *Evid Based Complement Alternat Med*, *2014*, 851263.
- Marschollek, B., Nelle, M., Wolf, M., Baumgartner, S., Heusser, P., & Wolf, U. (2010). Effects of exposure to physical factors on homeopathic preparations as determined by ultraviolet light spectroscopy. *Scientific World Journal*, *10*, 49-61.
- Marslin, G., Sheeba, C. J., & Franklin, G. (2017). Nanoparticles Alter Secondary Metabolism in Plants via ROS Burst. *Front Plant Sci*, *8*, 832.
- Marzotto, M., Bonafini, C., Olioso, D., Baruzzi, A., Bettinetti, L., Di Leva, F., Galbiati, E., & Bellavite, P. (2016). Arnica montana Stimulates Extracellular Matrix Gene Expression in a Macrophage Cell Line Differentiated to Wound-Healing Phenotype. *PLoS ONE*, *11*, e0166340.
- Marzotto, M., Olioso, D., Brizzi, M., Tononi, P., Cristofolletti, M., & Bellavite, P. (2014). Extreme sensitivity of gene expression in human SH-SY5Y neurocytes to ultra-low doses of Gelsemium sempervirens. *BMC Complement Altern Med*, *14*, 104.
- Mathie, R. T. (2015). Controlled clinical studies of homeopathy. *Homeopathy*, *104*, 328-32.
- Mathie, R. T., Baitson, E. S., Frye, J., Nayak, C., Manchanda, R. K., & Fisher, P. (2013). Homeopathic treatment of patients with influenza-like illness during the 2009 A/H1N1 influenza pandemic in India. *Homeopathy*, *102*, 187-92.
- Mathie, R. T., & Clausen, J. (2014). Veterinary homeopathy: systematic review of medical conditions studied by randomised placebo-controlled trials. *Vet Rec*, *175*, 373-81.
- Mathie, R. T., Ramparsad, N., Legg, L. A., Clausen, J., Moss, S., Davidson, J. R., Messow, C. M., & McConnachie, A. (2017). Randomised, double-blind, placebo-controlled trials of non-individualised homeopathic treatment: systematic review and meta-analysis. *Syst Rev*, *6*, 63.
- Mathie, R. T., Roberts, E. R., & Rutten, A. L. (2016). Adverse effects of homeopathy: we clearly need more details. *Complement Ther Med*, *29*, 235.
- Mathie, R. T., Roniger, H., Van Wassenhoven, M., Frye, J., Jacobs, J., Oberbaum, M., Bordet, M. F., Nayak, C., Chauferin, G., Ives, J. A., Dantas, F., & Fisher, P. (2012). Method for appraising model

- validity of randomised controlled trials of homeopathic treatment: multi-rater concordance study. *BMC Med Res Methodol*, 12, 49.
- Mathie, R. T., Van Wassenhoven, M., Jacobs, J., Oberbaum, M., Frye, J., Manchanda, R. K., Roniger, H., Dantas, F., Legg, L. A., Clausen, J., Moss, S., Davidson, J. R., Lloyd, S. M., Ford, I., & Fisher, P. (2016). Model validity and risk of bias in randomised placebo-controlled trials of individualised homeopathic treatment. *Complement Ther Med*, 25, 120-5.
- Mayer, J., Williams, R. J., Oppenheimer, V. A., He, B., Tuckfield, C., Koslowski, E., & Gogal, R. M., Jr. (2016). The immunomodulatory effects of a commercial antiviral homeopathic compound in C57BL/6 mice, pre and post vaccine challenge. *Int Immunopharmacol*, 39, 389-96.
- McEwen, B. S. (1998). Stress, adaptation, and disease. Allostasis and allostatic load. *Ann N Y Acad Sci*, 840, 33-44.
- McEwen, B. S. (2000). The neurobiology of stress: from serendipity to clinical relevance. *Brain Res*, 886, 172-89.
- McEwen, B. S. (2012). The ever-changing brain: cellular and molecular mechanisms for the effects of stressful experiences. *Dev Neurobiol*, 72, 878-90.
- Menendez, J. A., Joven, J., Aragonés, G., Barrajon-Catalan, E., Beltran-Debon, R., Borrás-Linares, I., Camps, J., Corominas-Faja, B., Cufi, S., Fernandez-Arroyo, S., Garcia-Heredia, A., Hernandez-Aguilera, A., Herranz-Lopez, M., Jimenez-Sanchez, C., Lopez-Bonet, E., Lozano-Sanchez, J., Luciano-Mateo, F., Martin-Castillo, B., Martin-Paredero, V., Perez-Sanchez, A., Oliveras-Ferraros, C., Riera-Borrull, M., Rodriguez-Gallego, E., Quirantes-Pine, R., Rull, A., Tomas-Menor, L., Vazquez-Martin, A., Alonso-Villaverde, C., Micol, V., & Segura-Carretero, A. (2013). Xenohormetic and anti-aging activity of secoiridoid polyphenols present in extra virgin olive oil: a new family of gerosuppressant agents. *Cell Cycle*, 12, 555-78.
- Miao, Y., Xu, J., Shen, Y., Chen, L., Bian, Y., Hu, Y., Zhou, W., Zheng, F., Man, N., Shen, Y., Zhang, Y., Wang, M., & Wen, L. (2014). Nanoparticle as signaling protein mimic: robust structural and functional modulation of CaMKII upon specific binding to fullerene C60 nanocrystals. *ACS Nano*, 8, 6131-44.
- Milgrom, L. R. (2006). Towards a new model of the homeopathic process based on quantum field theory. *Forsch Komplementarmed*, 13, 174-83.
- Milgrom, L. R. (2008). A new geometrical description of entanglement and the curative homeopathic process. *J Altern Complement Med*, 14, 329-39.
- Milisav, I., Poljsak, B., & Suput, D. (2012). Adaptive response, evidence of cross-resistance and its potential clinical use. *Int J Mol Sci*, 13, 10771-806.
- Mitra, K., Kundu, S. N., & Khuda Bukhsh, A. R. (1999). Efficacy of a potentized homeopathic drug (Arsenicum Album-30) in reducing toxic effects produced by arsenic trioxide in mice: II. On alterations in body weight, tissue weight and total protein. *Complementary Therapies in Medicine*, 7, 24-34.
- Mollinger, H., Schneider, R., & Walach, H. (2009). Homeopathic pathogenetic trials produce specific symptoms different from placebo. *Forsch Komplementmed*, 16, 105-10.
- Mondal, J., Das, J., Shah, R., & Khuda-Bukhsh, A. R. (2016). A homeopathic nosode, Hepatitis C 30 demonstrates anticancer effect against liver cancer cells in vitro by modulating telomerase and topoisomerase II activities as also by promoting apoptosis via intrinsic mitochondrial pathway. *J Integr Med*, 14, 209-18.
- Mondal, J., Samadder, A., & Khuda-Bukhsh, A. R. (2016). Psorinum 6 x triggers apoptosis signals in human lung cancer cells. *J Integr Med*, 14, 143-53.
- Montagnier, L., Aissa, J., Ferris, S., Montagnier, J.-L., & Lavalley, C. (2009). Electromagnetic signals are produced by aqueous nanostructures derived from bacterial DNA sequences. *Interdisciplinary Sci Comput Life Sci*, 1, 81-90.

- Montagnier, L., Del Giudice, E., Aïssa, J., Lavallee, C., Motschwiller, S., Capolupo, A., Polcari, A., Romano, P., Tedeschi, A., & Vitiello, G. (2015). Transduction of DNA information through water and electromagnetic waves. *Electromagnetic Biology and Medicine*, *34*, 106-12.
- Mukherjee, A., Boujedaini, N., & Khuda-Bukhsh, A. R. (2013). Homeopathic Thuja 30C ameliorates benzo(a)pyrene-induced DNA damage, stress and viability of perfused lung cells of mice in vitro. *J Integr Med*, *11*, 397-404.
- Mukherjee, A., Sikdar, S., Bishayee, K., Paul, A., Ghosh, S., Boujedaini, N., & Khuda-Bukhsh, A. R. (2012). Ethanolic extract of Thuja occidentalis blocks proliferation of A549 cells and induces apoptosis in vitro. *Zhong Xi Yi Jie He Xue Bao*, *10*, 1451-9.
- Muller, A. P., Ferreira, G. K., Pires, A. J., de Bem Silveira, G., de Souza, D. L., Brandolfi, J. A., de Souza, C. T., Paula, M. M. S., & Silveira, P. C. L. (2017). Gold nanoparticles prevent cognitive deficits, oxidative stress and inflammation in a rat model of sporadic dementia of Alzheimer's type. *Mater Sci Eng C Mater Biol Appl*, *77*, 476-83.
- Mytych, J., Wnuk, M., & Rattan, S. I. (2016). Low doses of nanodiamonds and silica nanoparticles have beneficial hormetic effects in normal human skin fibroblasts in culture. *Chemosphere*, *148*, 307-15.
- Nair, H. B., Sung, B., Yadav, V. R., Kannappan, R., Chaturvedi, M. M., & Aggarwal, B. B. (2010). Delivery of antiinflammatory nutraceuticals by nanoparticles for the prevention and treatment of cancer. *Biochem Pharmacol*, *80*, 1833-43.
- Naviaux, R. K. (2014). Metabolic features of the cell danger response. *Mitochondrion*, *16*, 7-17.
- Nayak, C., Singh, V., Singh, V. P., Oberai, P., Roja, V., Shitanshu, S. S., Sinha, M. N., Deewan, D., Lakhera, B. C., Ramteke, S., Kaushik, S., Sarkar, S., Mandal, N. R., Mohanan, P. G., Singh, J. R., Biswas, S., & Mathew, G. (2012). Homeopathy in chronic sinusitis: a prospective multi-centric observational study. *Homeopathy*, *101*, 84-91.
- Nuhn, T., Ludtke, R., & Geraedts, M. (2010). Placebo effect sizes in homeopathic compared to conventional drugs - a systematic review of randomised controlled trials. *Homeopathy*, *99*, 76-82.
- Oberbaum, M., Glatthaar-Saalmuller, B., Stolt, P., & Weiser, M. (2005). Antiviral activity of Engystol: an in vitro analysis. *J Altern Complement Med*, *11*, 855-62.
- Oberbaum, M., Spira, R. M., Lukasiewicz, E., Armon, Y., Samuels, N., Singer, S. R., Barak, V., Izbicki, G., Einav, S., & Hersch, M. (2011). Effect of Traumeel S on cytokine profile in a cecal ligation and puncture (CLP) sepsis model in rats. *J Altern Complement Med*, *17*, 909-13.
- Oliosio, D., Marzotto, M., Bonafini, C., Brizzi, M., & Bellavite, P. (2016). Arnica montana effects on gene expression in a human macrophage cell line. Evaluation by quantitative Real-Time PCR. *Homeopathy*, *105*, 131-47.
- Oliosio, D., Marzotto, M., Moratti, E., Brizzi, M., & Bellavite, P. (2014). Effects of Gelsemium sempervirens L. on pathway-focused gene expression profiling in neuronal cells. *J Ethnopharmacol*, *153*, 535-9.
- Orlando, A., Cazzaniga, E., Tringali, M., Gullo, F., Becchetti, A., Minniti, S., Taraballi, F., Tasciotti, E., & Re, F. (2017). Mesoporous silica nanoparticles trigger mitophagy in endothelial cells and perturb neuronal network activity in a size- and time-dependent manner. *Int J Nanomedicine*, *12*, 3547-59.
- Palchetti, S., Digiaco, L., Pozzi, D., Peruzzi, G., Micarelli, E., Mahmoudi, M., & Caracciolo, G. (2016). Nanoparticles-cell association predicted by protein corona fingerprints. *Nanoscale*, *8*, 12755-63.
- Papp, R., et al. (1998). Oscillocoquinum in patients with influenza-like syndromes: a placebo-controlled double blind evaluation. *British Homeopathy Journal*, *87*, 69-76.

- Pathak, S., Kumar Das, J., Jyoti Biswas, S., & Khuda-Bukhsh, A. R. (2006). Protective potentials of a potentized homeopathic drug, Lycopodium-30, in ameliorating azo dye induced hepatocarcinogenesis in mice. *Mol Cell Biochem*, *285*, 121-31.
- Pathak, S., Multani, A. S., Banerji, P., & Banerji, P. (2003). Ruta 6 selectively induces cell death in brain cancer cells but proliferation in normal peripheral blood lymphocytes: A novel treatment for human brain cancer. *Int J Oncol*, *23*, 975-82.
- Paul, A., Bishayee, K., Ghosh, S., Mukherjee, A., Sikdar, S., Chakraborty, D., Boujedaini, N., & Khuda-Bukhsh, A. R. (2012). Chelidonine isolated from ethanolic extract of Chelidonium majus promotes apoptosis in HeLa cells through p38-p53 and PI3K/AKT signalling pathways. *Zhong Xi Yi Jie He Xue Bao*, *10*, 1025-38.
- Paul, A., Das, S., Das, J., Samadder, A., & Khuda-Bukhsh, A. R. (2013). Cytotoxicity and apoptotic signalling cascade induced by chelidonine-loaded PLGA nanoparticles in HepG2 cells in vitro and bioavailability of nano-chelidonine in mice in vivo. *Toxicol Lett*, *222*, 10-22.
- Pedalino, C. M., Perazzo, F. F., Carvalho, J. C., Martinho, K. S., Massoco Cde, O., & Bonamin, L. V. (2004). Effect of Atropa belladonna and Echinacea angustifolia in homeopathic dilution on experimental peritonitis. *Homeopathy*, *93*, 193-8.
- Pereira, W. K., Lonardoni, M. V., Grespan, R., Caparroz-Assef, S. M., Cuman, R. K., & Bersani-Amado, C. A. (2005). Immunomodulatory effect of Canova medication on experimental Leishmania amazonensis infection. *J Infect*, *51*, 157-64.
- Perez-Mitta, G., Albesa, A. G., Trautmann, C., Toimil-Molares, M. E., & Azzaroni, O. (2017). Bioinspired integrated nanosystems based on solid-state nanopores: "iontronic" transduction of biological, chemical and physical stimuli. *Chem Sci*, *8*, 890-913.
- Perry, C. C., & Keeling-Tucker, T. (1998). Crystalline silica prepared at room temperature from aqueous solution in the presence of intrasilica bioextracts. *Chem Commun (Camb)*, *1998*, 2587-88.
- Perry, C. C., & Keeling-Tucker, T. (2003). Model studies of colloidal silica precipitation using biosilica extracts from Equisetum telmateia. *Colloid Polym Sci*, *281*, 652-64.
- Pincus, D., & Metten, A. (2010). Nonlinear dynamics in biopsychosocial resilience. *Nonlinear Dynamics Psychol Life Sci*, *14*, 353-80.
- Poitevin, B. (2015). Survey of immuno-allergological ultra high dilution research. *Homeopathy*, *104*, 269-76.
- Prabhu, M., Kavitha, K., Suriyaprabha, R., Manivasakan, P., Rajendran, V., & Kulandaivelu, P. (2013). Preparation and characterization of silver-doped nanobioactive glass particles and their in vitro behaviour for biomedical applications. *J Nanosci Nanotechnol*, *13*, 5327-39.
- Prabhu, M., Ruby Priscilla, S., Kavitha, K., Manivasakan, P., Rajendran, V., & Kulandaivelu, P. (2014). In vitro bioactivity and antimicrobial tuning of bioactive glass nanoparticles added with neem (Azadirachta indica) leaf powder. *Biomed Res Int*, *2014*, 950691.
- Preethi, K. C., Kuttan, G., & Kuttan, R. (2006). Anti-tumour activity of Ruta graveolens extract. *Asian Pac J Cancer Prev*, *7*, 439-43.
- Preethi, K. C., Nair, C. K., & Kuttan, R. (2008). Clastogenic potential of Ruta graveolens extract and a homeopathic preparation in mouse bone marrow cells. *Asian Pac J Cancer Prev*, *9*, 763-9.
- Premshakaran, G., Nguyen, K., Zhang, H., Forman, H. J., & Leppert, V. J. (2017). Low dose inflammatory potential of silica particles in human-derived THP-1 macrophage cell culture studies - Mechanism and effects of particle size and iron. *Chem Biol Interact*, *272*, 160-71.
- Pupulin, A. R., Marques-Araujo, S., Toledo, M. J., Gomes, M. L., Takejima, E., Cuman, R. K., & Bersani-Amado, C. A. (2010). Canova medication modifies parasitological parameters in mice infected with Trypanosoma cruzi. *Exp Parasitol*, *126*, 435-40.
- Raefsky, S. M., & Mattson, M. P. (2017). Adaptive responses of neuronal mitochondria to bioenergetic challenges: Roles in neuroplasticity and disease resistance. *Free Radic Biol Med*, *102*, 203-16.

- Rajendran, E. S. (2015). An evaluation of Avogadro's number in the light of HRTEM and EDS studies of high dilutions of Ferrum metallicum 6, 30, 200, 1M, 10M and 50 Mc. *International Journal of High Dilution Research*, 14, 3-9.
- Rajendran, E. S. (2015a). Field emission scanning electron microscopic (FESEM) and energy dispersive spectroscopic (EDS) studies of centesimal scale potencies of the homeopathic drug Lycopodium clavatum. *American Journal of Homeopathic Medicine*, 108, 9-18.
- Rajendran, E. S. (2015b). *Nanodynamics*. Cochin, India: Mohna Publications.
- Rajendran, E. S. (2017a). Homeopathy a Material Science: Nanoparticle Characterization of Aurum Metallicum 6C, 30C, 200C, 1000C, 10000C, 50000C AND 100000C. *International Journal of Current Research*, 9, 48923-27.
- Rajendran, E. S. (2017b). Homeopathy as nanomedicine - Identification and Characterization of NPs in Hypericum Performatum 6C, 30C, 200C, 1M, 10M, 50M, and CM. *International Journal of Development Research*, 7, 12425-31.
- Rajendran, E. S. (2018). Homeopathy Seen as Personalised Nanomedicine. *Homeopathy*, in press.
- Ramachandran, C., Nair, P. K., Clement, R. T., & Melnick, S. J. (2007). Investigation of cytokine expression in human leukocyte cultures with two immune-modulatory homeopathic preparations. *J Altern Complement Med*, 13, 403-7.
- Rao, M. L., Roy, R., Bell, I. R., & Hoover, R. (2007). The defining role of structure (including epitaxy) in the plausibility of homeopathy. *Homeopathy*, 96, 175-82.
- Remya, V., & Kuttan, G. (2015). Homeopathic remedies with antineoplastic properties have immunomodulatory effects in experimental animals. *Homeopathy*, 104, 211-9.
- Rey, L. (2003). Thermoluminescence of ultra-high dilutions of lithium chloride and sodium chloride. *Physica A: Statistical mechanics and its applications*, 323, 67-74.
- Rey, L. (2007). Can low-temperature thermoluminescence cast light on the nature of ultra-high dilutions? *Homeopathy*, 96, 170-4.
- Rossi, C., Foletti, A., Magnani, A., & Lamponi, S. (2011). New perspectives in cell communication: Bioelectromagnetic interactions. *Semin Cancer Biol*, 21, 207-14.
- Rostock, M., Naumann, J., Guethlin, C., Guenther, L., Bartsch, H. H., & Walach, H. (2011). Classical homeopathy in the treatment of cancer patients--a prospective observational study of two independent cohorts. *BMC Cancer*, 11, 19.
- Roy, R., Tiller, W., Bell, I. R., & Hoover, M. R. (2005). The structure of liquid water: novel insights from materials research and potential relevance to homeopathy. *Materials Research Innovation*, 9, 577-608.
- Saha, S., Bhattacharjee, P., Guha, D., Kajal, K., Khan, P., Chakraborty, S., Mukherjee, S., Paul, S., Manchanda, R., Khurana, A., Nayak, D., Chakrabarty, R., Sa, G., & Das, T. (2015). Sulphur alters NFkappaB-p300 cross-talk in favour of p53-p300 to induce apoptosis in non-small cell lung carcinoma. *Int J Oncol*.
- Saha, S., Hossain, D. M., Mukherjee, S., Mohanty, S., Mazumdar, M., Mukherjee, S., Ghosh, U. K., Nayek, C., Raveendar, C., Khurana, A., Chakrabarty, R., Sa, G., & Das, T. (2013). Calcarea carbonica induces apoptosis in cancer cells in p53-dependent manner via an immuno-modulatory circuit. *BMC Complement Altern Med*, 13, 230.
- Saha, S. K., Das, S., & Khuda-Bukhsh, A. R. (2012). Phenotypic evidence of ultra-highly diluted homeopathic remedies acting at gene expression level: a novel probe on experimental phage infectivity in bacteria. *Zhong Xi Yi Jie He Xue Bao*, 10, 462-70.
- Saha, S. K., Roy, S., & Khuda-Bukhsh, A. R. (2015). Ultra-highly diluted plant extracts of Hydrastis canadensis and Marsdenia condurango induce epigenetic modifications and alter gene expression profiles in HeLa cells in vitro. *J Integr Med*, 13, 400-11.

- Samadder, A., Das, S., Das, J., Paul, A., Boujedaini, N., & Khuda-Bukhsh, A. R. (2013). The Potentized Homeopathic Drug, *Lycopodium clavatum* (5C and 15C) Has Anti-cancer Effect on HeLa Cells In Vitro. *Journal of Acupuncture and Meridian Studies*, *6*, 180-87.
- Sarrafcchi, A., Odhammer, A. M., Hernandez Salazar, L. T., & Laska, M. (2013). Olfactory sensitivity for six predator odorants in CD-1 mice, human subjects, and spider monkeys. *PLoS ONE*, *8*, e80621.
- Seker, S., Guven, C., Akcakaya, H., Bahtiyar, N., Akbas, F., & Onaran, I. (2018). Evidence that Extreme Dilutions of Paclitaxel and Docetaxel Alter Gene Expression of In Vitro Breast Cancer Cells. *Homeopathy*, *107*, 32-39.
- Shahabi, S., Kasariyans, A., & Noorbakhsh, F. (2013). Like cures like: a neuroimmunological model based on electromagnetic resonance. *Electromagn Biol Med*, *32*, 508-26.
- Shi, C., & Pamer, E. G. (2011). Monocyte recruitment during infection and inflammation. *Nat Rev Immunol*, *11*, 762-74.
- Shi, Z., Huang, X., Liu, B., Tao, H., Cai, Y., & Tang, R. (2010). Biological response of osteosarcoma cells to size-controlled nanostructured hydroxyapatite. *J Biomater Appl*, *25*, 19-37.
- Siegrist, S., Kettiger, H., Fasler-Kan, E., & Huwyler, J. (2017). Selective stimulation of the JAK/STAT signaling pathway by silica nanoparticles in human endothelial cells. *Toxicol In Vitro*, *42*, 308-18.
- Sikdar, S., Kumar Saha, S., & Rahman Khuda-Bukhsh, A. (2014). Relative Apoptosis-inducing Potential of Homeopathic Condurango 6C and 30C in H460 Lung Cancer Cells In vitro: -Apoptosis-induction by homeopathic Condurango in H460 cells. *J Pharmacopuncture*, *17*, 59-69.
- Siqueira, C. M., Costa, B., Amorim, A. M., Goncalves, M., Feo da Veiga, V., Castelo-Branco, M., Takyia, C., Zancan, P., Camara, F. P., Couceiro, J. N., & Holandino, C. (2013). H3N2 homeopathic influenza virus solution modifies cellular and biochemical aspects of MDCK and J774G8 cell lines. *Homeopathy*, *102*, 31-40.
- Siqueira, C. M., Homsani, F., da Veiga, V. F., Lyrio, C., Mattos, H., Passos, S. R., Couceiro, J. N., & Quaresma, C. H. (2016). Homeopathic medicines for prevention of influenza and acute respiratory tract infections in children: blind, randomized, placebo-controlled clinical trial. *Homeopathy*, *105*, 71-7.
- Smit, E., Oberholzer, H. M., & Pretorius, E. (2009). A review of immunomodulators with reference to Canova. *Homeopathy*, *98*, 169-76.
- Smith, T. D., Nagalla, R. R., Chen, E. Y., & Liu, W. F. (2017). Harnessing macrophage plasticity for tissue regeneration. *Adv Drug Deliv Rev*.
- Solov'yov, I. A., Chang, P. Y., & Schulten, K. (2012). Vibrationally assisted electron transfer mechanism of olfaction: myth or reality? *Phys Chem Chem Phys*, *14*, 13861-71.
- Speciale, A., Chirafisi, J., Saija, A., & Cimino, F. (2011). Nutritional antioxidants and adaptive cell responses: an update. *Curr Mol Med*, *11*, 770-89.
- Spence, D. S., Thompson, E. A., & Barron, S. J. (2005). Homeopathic treatment for chronic disease: a 6-year, university-hospital outpatient observational study. *J Altern Complement Med*, *11*, 793-8.
- Spin-Neto, R., Belluci, M. M., Sakakura, C. E., Scaf, G., Pepato, M. T., & Marcantonio, E., Jr. (2010). Homeopathic *Symphytum officinale* increases removal torque and radiographic bone density around titanium implants in rats. *Homeopathy*, *99*, 249-54.
- Sthijns, M. M., Thongkam, W., Albrecht, C., Hellack, B., Bast, A., Haenen, G. R., & Schins, R. P. (2017). Silver nanoparticles induce hormesis in A549 human epithelial cells. *Toxicol In Vitro*, *40*, 223-33.
- Stock-Schroer, B., Albrecht, H., Betti, L., Dobos, G., Endler, C., Linde, K., Ludtke, R., Musial, F., van Wijk, R., Witt, C., & Baumgartner, S. (2011). Reporting experiments in homeopathic basic research- description of the checklist development. *Evid Based Complement Alternat Med*, *2011*, 639260.
- Stovbun, S. V., Kiselev, A. V., Zanin, A. M., Kalinina, T. S., Voronina, T. A., Mikhailov, A. I., & Berlin, A. A. (2012). Effects of physicochemical forms of phenazepam and Panavir on their action at ultra-low doses. *Bull Exp Biol Med*, *153*, 455-8.

- Sukul, N. C., Bala, S. K., & Bhattacharyya, B. (1986). Prolonged cataleptogenic effects of potentized homeopathic drugs. *Psychopharmacology*, *89*, 338-39.
- Temgire, M. K., Suresh, A. K., Kane, S. G., & Bellare, J. R. (2016). Establishing the interfacial nanostructure and elemental composition of homeopathic medicines based on inorganic salts: a scientific approach. *Homeopathy*, *105*, 160-72.
- Temgire, M. K., Suresh, A. K., Kane, S. G., & Bellare, J. R. (2016). Establishing the interfacial nanostructure and elemental composition of homeopathic medicines based on inorganic salts: a scientific approach. *Homeopathy*, *105*, 160-72.
- Teodoro, J. S., Silva, R., Varela, A. T., Duarte, F. V., Rolo, A. P., Hussain, S., & Palmeira, C. M. (2016). Low-dose, subchronic exposure to silver nanoparticles causes mitochondrial alterations in Sprague-Dawley rats. *Nanomedicine (Lond)*, *11*, 1359-75.
- Teut, M., Ludtke, R., Schnabel, K., Willich, S. N., & Witt, C. M. (2010). Homeopathic treatment of elderly patients--a prospective observational study with follow-up over a two year period. *BMC Geriatr*, *10*, 10.
- Thieves, K., Gleiss, A., Kratky, K. W., & Frass, M. (2016). First evidence of Beauvais' hypothesis in a plant model. *Homeopathy*, *105*, 270-9.
- Torres, J. L., & Ruiz, M. A. G. (1996). Stochastic resonance and the homeopathic effect. *British Homoeopathic Journal*, *85*(3), 134-40.
- Tournier, A. (2014). Quantum coherence domains and nanoparticles - one and the same thing? *Homeopathy*, *103*, 79-80.
- Turin, L. (1996). A spectroscopic mechanism for primary olfactory reception. *Chemical Senses*, *21*, 773-91.
- Ucker, A., Baumgartner, S., Sokol, A., Huber, R., Doesburg, P., & Jager, T. (2018). Systematic Review of Plant-Based Homeopathic Basic Research: An Update. *Homeopathy*.
- Ullman, D., & Frass, M. (2010). A review of homeopathic research in the treatment of respiratory allergies. *Altern Med Rev*, *15*, 48-58.
- Upadhyay, R. P. (2017). The Possible Mechanism of Memory through Nanoparticles and Exclusion Zones. *Water*, *7*, 158-76.
- Upadhyay, R. P., & Nayak, C. (2011). Homeopathy emerging as nanomedicine. *International Journal of High Dilution Research*, *10*, 299-310.
- van Haselen, R., Thinesse-Mallwitz, M., Maidannyk, V., Buskin, S. L., Weber, S., Keller, T., Burkart, J., & Klement, P. (2016). The Effectiveness and Safety of a Homeopathic Medicinal Product in Pediatric Upper Respiratory Tract Infections With Fever: A Randomized Controlled Trial. *Glob Pediatr Health*, *3*, 2333794x16654851.
- van Riel, D., Verdijk, R., & Kuiken, T. (2015). The olfactory nerve: a shortcut for influenza and other viral diseases into the central nervous system. *J Pathol*, *235*, 277-87.
- Van Wassenhoven, M., Goyens, M., Capieaux, E., Devos, P., & Dorfman, P. (2018). Nanoparticle Characterisation of Traditional Homeopathically Manufactured Cuprum metallicum and Gelsemium sempervirens Medicines and Controls. *Homeopathy*.
- Van Wijk, R., & Wiegant, F. A. (1997). The similia principle as a therapeutic strategy: a research program on stimulation of self-defense in disordered mammalian cells. *Alternative Therapies in Health & Medicine*, *3*, 33-8.
- Van Wijk, R., & Wiegant, F. A. (2010). Postconditioning hormesis and the homeopathic Similia principle: molecular aspects. *Hum Exp Toxicol*, *29*, 561-5.
- Van Wijk, R., & Wiegant, F. A. (2011). Postconditioning hormesis and the similia principle. *Front Biosci (Elite Ed)*, *3*, 1128-38.
- Vasquez, A., Dobrin, R., Sergi, D., Eckmann, J. P., Oltvai, Z. N., & Barabasi, A. L. (2004). The topological relationship between the large-scale attributes and local interaction patterns of complex

- networks. *Proceedings of the National Academy of Sciences of the United States of America*, 101, 17940-45.
- Vidal, M., Cusick, M. E., & Barabasi, A. L. (2011). Interactome networks and human disease. *Cell*, 144, 986-98.
- Vincent, S., Demonceaux, A., Deswarte, D., Scimeca, D., & Bordet, M. F. (2013). Management of Influenza-Like Illness by Homeopathic and Allopathic General Practitioners in France During the 2009-2010 Influenza Season. *J Altern Complement Med*, 19, 146-52.
- Walach, H. (2001a). The efficacy paradox in randomized controlled trials of CAM and elsewhere: beware of the placebo trap. *Journal of Alternative & Complementary Medicine*, 7, 213-8.
- Walach, H. (2001b). The efficacy paradox in randomized controlled trials of CAM and elsewhere: beware of the placebo trap. *Journal of Alternative & Complementary Medicine*, 7, 213-8.
- Walach, H. (2003). Entanglement model of homeopathy as an example of generalised entanglement predicted by weak quantum theory. *Forschende Komplementarmedizin/Research in Complementary Medicine*, 10, 192-200.
- Walach, H. (2005). Generalized entanglement: a new theoretical model for understanding the effects of complementary and alternative medicine. *J Altern Complement Med*, 11, 549-59.
- Walach, H., Möllinger H, Sherr J, Schneider R. (2008). Homeopathic pathogenetic trials produce more specific than non-specific symptoms: results from two double-blind placebo controlled trials. *J Psychopharmacol*, 22, 543-52.
- Walach, H., Tressoldi, P., & Pederzoli, L. (2016). Mental, behavioural and physiological nonlocal correlations within the Generalized Quantum Theory framework. *Axiomathes*, 26, 313-28.
- Wani, K., Shah, N., Prabhune, A., Jadhav, A., Ranjekar, P., & Kaul-Ghanekar, R. (2016). Evaluating the anticancer activity and nanoparticulate nature of homeopathic preparations of Terminalia chebula. *Homeopathy*, 105, 318-26.
- Werkman, C., Senra GS, da Rocha RF, Brandao AA. (2006). Comparative therapeutic use of Risedronate and Calcarea phosphorica--allopathy versus homeopathy--in bone repair in castrated rats. *Pesqui Odontol Bras*, 20, 196-201.
- Wiegant, F., & Van Wijk, R. (2010). The similia principle: results obtained in a cellular model system. *Homeopathy*, 99, 3-14.
- Wiegant, F. A., Prins, H. A., & Van Wijk, R. (2011). Postconditioning hormesis put in perspective: an overview of experimental and clinical studies. *Dose Response*, 9, 209-24.
- Wiegant, F. A., Souren, J. E., & van Wijk, R. (1999). Stimulation of survival capacity in heat shocked cells by subsequent exposure to minute amounts of chemical stressors; role of similarity in hsp-inducing effects. *Hum Exp Toxicol*, 18, 460-70.
- Wiegant, F. A., Spieker, N., & van Wijk, R. (1998). Stressor-specific enhancement of hsp induction by low doses of stressors in conditions of self- and cross-sensitization. *Toxicology*, 127, 107-19.
- Witt, C. M., Ludtke, R., Mengler, N., & Willich, S. N. (2008). How healthy are chronically ill patients after eight years of homeopathic treatment?--Results from a long term observational study. *BMC Public Health*, 8, 413.
- Witt, C. M., Luedtke R, Baur R, Willich SN. (2005). Homeopathic Medical Practice: Long-term results of a Cohort Study with 3981 Patients. *BMC Public Health*, 5, 115 epub.
- Wittig, A., Gehrke, H., Del Favero, G., Fritz, E. M., Al-Rawi, M., Diabate, S., Weiss, C., Sami, H., Ogris, M., & Marko, D. (2017). Amorphous Silica Particles Relevant in Food Industry Influence Cellular Growth and Associated Signaling Pathways in Human Gastric Carcinoma Cells. *Nanomaterials (Basel)*, 7.
- Wolf, U., Wolf, M., Heusser, P., Thurneysen, A., & Baumgartner, S. (2009). Homeopathic Preparations of Quartz, Sulfur and Copper Sulfate Assessed by UV-Spectroscopy. *Evid Based Complement Alternat Med*.

- Wolf, U., Wolf, M., Heusser, P., Thurneysen, A., & Baumgartner, S. (2011). Homeopathic Preparations of Quartz, Sulfur and Copper Sulfate Assessed by UV-Spectroscopy. *Evid Based Complement Alternat Med*, 2011, 692798.
- Yang, X., & Xiao, M. (2015). Electromagnetically Induced Entanglement. *Sci Rep*, 5, 13609.
- Yeste, A., Takenaka, M. C., Mascanfroni, I. D., Nadeau, M., Kenison, J. E., Patel, B., Tukpah, A. M., Babon, J. A., DeNicola, M., Kent, S. C., Pozo, D., & Quintana, F. J. (2016). Tolerogenic nanoparticles inhibit T cell-mediated autoimmunity through SOCS2. *Sci Signal*, 9, ra61.
- Zanasi, A., Cazzato, S., Mazzolini, M., Ierna, C. M., Mastroberto, M., Nardi, E., & Morselli-Labate, A. M. (2015). Does additional antimicrobial treatment have a better effect on URTI cough resolution than homeopathic symptomatic therapy alone? A real-life preliminary observational study in a pediatric population. *Multidiscip Respir Med*, 10, 25.
- Zanasi, A., Mazzolini, M., Tursi, F., Morselli-Labate, A. M., Paccapelo, A., & Lecchi, M. (2014). Homeopathic medicine for acute cough in upper respiratory tract infections and acute bronchitis: a randomized, double-blind, placebo-controlled trial. *Pulm Pharmacol Ther*, 27, 102-8.
- Zhu, M., Li, Y., Shi, J., Feng, W., Nie, G., & Zhao, Y. (2012). Exosomes as extrapulmonary signaling conveyors for nanoparticle-induced systemic immune activation. *Small*, 8, 404-12.
- Zhu, W., Wang, D., Xiong, J., Liu, J., You, W., Huang, J., Duan, L., Chen, J., & Zeng, Y. (2015). Study on clinical application of nano-hydroxyapatite bone in bone defect repair. *Artif Cells Nanomed Biotechnol*, 43, 361-5.