

## Fundamental & Collaborative Studies

**2014-15**

- No. of studies concluded: 12
- No. of studies initiated: 23
- No. of studies ongoing: 10
- No. of articles published: 25

s.no.	Title of research study	Period of study	Brief Outcome	Publication source
<b>Concluded: (3)</b>				
1.	To evaluate certain homoeopathic medicines for their immuno-modulatory and antioxidant potential.	April 2009- May 2014 (Concluded)	The study helped us to understand the specific action of homoeopathic medicines both in-vivo and in-vitro for their immuno-modulatory and antioxidant potential	Data analysis under progress.
2.	A multicenter study on action of homoeopathic medicines and potencies on heart rate variability (HRV) and blood flow variability (BFV) with medical Analyzer System	April 2009 - May 2014 (concluded)	A multi centric study on action of homoeopathic medicines and potencies on heart rate variability (HRV) and blood flow variability (BFV) using medical analyzer system was undertaken with the aim to explore the validation of effectiveness of homoeopathic preparations on physiological variabilities. It has been concluded that it is possible to record the response of homoeopathic medicines on physiologic parameters of the autonomic nervous system.	The Journal of Alternative and Complimentary Medicine, in 2011 (Volume 17(8))
3.	Exploratory experiments on ultrasonic velocity in homoeopathic potencies.	May 2014- May 2015	The study concludes that the Homoeopathic potencies have different Physio- chemical properties than the alcohol. Further, different medicines have different properties also.	Journal of Molecular Liquids 211 (2015) 1082-1094
<b>Initiated: (6)</b>				
4.	Effect of homoeopathic medicines on	Jan 2015	The study will help us to understand the mechanism of action of homoeopathic drugs	---

	dengue virus infection on mosquito cell line and in suckling mice.		on dengue virus infection in mice and mosquito cell line model. This will help us to understand application of same in human beings in further studies.	
5.	Estimation of viral load and immune response in JE virus infected adult and suckling mice treated with Belladonna.	Jan 2015	The study will help us to understand the mechanism of action of homoeopathic drugs on JE virus infection in mice and mosquito cell line model. This will help us to understand application of same in human beings in further studies.	---
6.	Exploratory experiments on ultrasonic velocity in homoeopathic potencies.	May 2014	The homoeopathic medicines are “extremely diluted solutions” showing anomalous behaviour and are obtained through the combination of two processes: a dilution of 1:100 in mass followed by succussion.	
7.	Elucidation of molecular mechanism of action of Belladonna - Calcarea Carbonica - Tuberculinum Bovinum (BCT) during Japanese Encephalitis Infection.	March 2015	Main focus in this project proposal is to understand how Belladonna-200 cross talk with the host receptors and innate immune response during JEV infection and to understand the mechanism behind its protection.	---
8.	Understanding the Mechanism of action of homoeopathic medicine at molecular level in nano domains in-vivo and in-vitro systems.	March 2015	The main objective is to establish homeopathy as nano medicine and in vitro study of effect of homeopathic medicines at different potencies on membrane physical properties, in vivo study of effect of homeopathic medicines at different potencies & characterization of homeopathic medicines.	---
9.	Exploratory	May	The study concludes that the	---

	experiments on ultrasonic velocity in homoeopathic potencies.	2014	Homoeopathic potencies have different Physio- chemical properties than the alcohol. Further, different medicines have different properties also.	
<b>Ongoing: (3)</b>				
10	Evaluation of anti-fungal activity of certain Homoeopathic medicines on growth of human pathogenic fungi " <i>Candida albicans</i> " using in-vitro assays.	December 2013	Experiments were conducted and further experiments were planned for validation.	---
11	Evaluation of anti-fungal activity of certain Homoeopathic medicines on growth of human pathogenic fungi " <i>Aspergillusniger</i> " using in-vitro assays.	December 2013	Experiments were conducted and further experiments were planned for validation.	---
12	Evaluation of anti-fungal activity of certain Homoeopathic medicines on growth of human pathogenic fungi " <i>Microsporumcanis</i> " using in-vitro assays.	December 2013	Experiments were conducted and further experiments were planned for validation.	---

**Publications:**

1. Singh S, Kumar R, Karwasra R, Kalra P, Rani S, Nayak D, Gupta Y K. Evaluation of safety profile of homeopathic mother tinctures. *Indian J Res Homoeopathy* 2014;8:81-6
2. Kashif Hanif, Manoj Kumar, Neetu Singh and Rakesh Shukla\* Effect of homeopathic *Lycopodium clavatum* on memory functions and cerebral blood flow in memory-impaired rats# *Homeopathy* (2014) -, 1-5
3. Gulrana Khuwaja, Tauheed Ishrat, M. Badruzzaman Khan, Syed Shadab Raza, M. Moshahid Ahmad Khan, Ajmal Ahmad, Kumar Vaibhav, Anil Khurana<sup>1</sup>, Fakhrul Islam Protective role of homeopathic medicines on cerebral ischaemia in animals *Indian Journal of Research in Homoeopathy / Vol. 8 / Issue 4 / Oct-Dec 2014*
4. Debadatta Nayak, Saurav Arora<sup>1</sup>, Uttam Singh<sup>2</sup>, Nitali Borah<sup>3</sup>, J. N. Thakur<sup>3</sup>, Anil Khurana<sup>4</sup>, K. R. J. Nair<sup>5</sup>, Jaya Gupta<sup>6</sup>, Hari Singh<sup>7</sup>, Rajesh Kumar<sup>8</sup>, C. Nayak<sup>9</sup> Managing acute alcohol withdrawal with Homoeopathy: A prospective, observational, multicentre exploratory study, *Indian Journal of Research in Homoeopathy / Vol. 8 / Issue 4 / Oct-Dec 2014*
5. Surender Singh, Ritu Karwasra, Prerna Kalra, Rohit Kumar, Shalu Rani, Debadatta Nayak, Y. K. Gupta. Role of homeopathic mother tinctures in rheumatoid arthritis: An experimental study. *Indian Journal of Research in Homoeopathy* 2015;9: 42-48.
6. Echur Natarajan Sundaram, Kushal Pal Singh, Pratap Karnati Reddy, Kainikkara Raven Janardanan Nair, Anil Khurana, Hari Singh, Chaturbhuja Nayak. An investigation to evaluate the analgesic and central nervous system depressant activities of *Solanum nigrum* (Linn.) as Homoeopathic potencies in experimental animal models. *Indian Journal of Research in Homoeopathy* 2015; 9: 12-19.