Fundamental & Collaborative Studies

2015-16

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

s.no.	Title of	Period of	Brief Outcome	Publicatio				
	research study	study		n source				
Concluded: (1)								
1.	In vitro studies of some Homoeopathic medicines on the proliferation and differentiation of neural stem cell (Avena sativa, Caust., Phos. and Zinc.)	March 2012- May 2015	The study revealed the influence of homoeopathic medicines on the proliferation and differentiation of neural stem cells and will also determine the relative efficacies of potentized homoeopathic medicines regarding their possible actions on neural stem cells in vitro.	preparation is under				
Initiat	ted: (3)							
2.	Effects of Potentized Homoeopathic medicines in Agriculture (Agro- Homoeopathy): An eco-friendly alternative solution for synthetic fertilizers and pesticides.	May 2015	Study aims at extensive scientific study of effects of abiotic stress on growth and development of seedlings, field application of these potentised homeopathy remedies in agriculture and effect on yield & use of potentised homeopathic nosodes and autonosodes in controlling diseases of wheat and pea by use of same disease of plant.					
3.	To study the effect of homeopathic drugs on ultrastructure of mid-gut cells derived from Aedes	Jan 2015	To study the effect of homeopathic medicines on the ultrastructure of mid gut cells derived from Aedes albopictus &to study the apoptotic and necrotic changes in mid gut cells					
4.	albopictus. Prophylactic	Decembe	The proposed study aims to					

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	effect of	r 2016	measure and document the							
	Homeopathic		efficacy of select homeopathic							
	anti-malaria		medicines in the prevention of							
	drugs on		malaria in a community							
	malaria - A		setting through an							
	prevention		experimental study design. If							
	effectiveness		found positive, such							
	study in		homoeopathic medicines can							
	Odisha, Odisha		be used as preventive against							
			malaria.							
Ongoir	Ongoing: (7)									
5.	Effect of	Jan 2015	The study will help us to							
	homoeopathic		understand the mechanism of							
	medicines on		action of homoeopathic drugs							
	dengue virus		on dengue virus infection in							
	infection on		mice and mosquito cell line							
	mosquito cell		model. This will help us to							
	line and in		understand application of							
			same in human beings in							
	suckling mice.		further studies.							
6.	Estimation of	Jan 2015								
0.		Jan 2015	The study will help us to understand the mechanism of							
	viral load and									
	immune		action of homoeopathic drugs							
	response in JE		on JE virus infection in mice							
	virus infected		and mosquito cell line model.							
	adult and		This will help us to							
	suckling mice		understand application of							
	treated with		same in human beings in							
	Belladonna.		further studies.							
7.	Elucidation of		Main focus in this project							
	molecular	2015	proposal is to understand							
	mechanism of		how Belladonna-200 cross							
	action of		talk with the host receptors							
	Belladonna -		and innate immune response							
	Calcarea		during JEV infection and to							
	Carbonica -		understand the mechanism							
	Tuberculinum		behind its protection.							
	Bovinum (BCT)		·							
	during									
	Japanese									
	Encephalitis									
	Infection.									
8.	Understanding	March	The main objective is to							
	the Mechanism	2015	establish homeopathy as							
	of action of		nano medicine and in vitro							
	homoeopathic		study of effect of homeopathic							
	medicine at		medicines at different							
	molecular level		potencies on membrane							
	in nano		physical properties, in vivo							
	domains in-		study of effect of homeopathic							
	domains III-		stady of check of homeopathic							

	vivo and invitro systems.		medicines at different potencies & characterization of homeopathic medicines.	
9.	Evaluation of anti-fungal activity of certain Homoeopathic medicines on growth of human pathogenic fungi "Candida albicans" using in-vitro assays.	Decembe r 2013	Experiments were conducted and further experiments were planned for validation.	
10	Evaluation of anti-fungal activity of certain Homoeopathic medicines on growth of human pathogenic fungi "Aspergillusnig er" using invitro assays.	Decembe r 2013	Experiments were conducted and further experiments were planned for validation.	
	Evaluation of anti-fungal activity of certain Homoeopathic medicines on growth of human pathogenic fungi "Microsporumca nis" using invitro assays.	Decembe r 2013	Experiments were conducted and further experiments were planned for validation.	

Publications:

- 1. 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. Sulphur alters NFκB-p300 cross-talk in favour of p53-p300 to induce apoptosis in non-small cell lung carcinoma. International Journal of Oncology 2015 June 22.
- 2. Anil Kumar Nain, Preeti Droliya, Raj Kumar Manchanda, Anil Khurana, Debadatta Nayak. Physicochemical studies of extremely diluted solutions (homoeopathic formulations) of sulphur in ethanol by using volumetric, acoustic, viscometric and refractive index measurements at different temperatures. Journal of Molecular Liquids 211 (2015) 1082–1094
- 3. Thellamudhu Ganesan, Divya Bhavani Ravi, Jyothilakshmi Vasavan, Anil Khurana1, Debadatta Nayak1, Kalaiselvi Periandavan Homoeopathic preparation of Berberis vulgaris as an inhibitor of Calcium oxalate crystallization: An in vitro evidence. Indian Journal of Research in Homoeopathy / Vol. 9 / Issue 3 / Jul-Sep 2015.
- 4. Subrata Kar, Poonam Bandyopadhyay, Sweta Chakraborty, Monalisa Chakrabarty, Biplab kumar Paul, Sarbari Ghosh, Ruma Basu, Sukhen Das, Durga Sankar Bhar, Rajkumar Manchanda, Anil Khurana, Debadatta Nayak, Papiya Nandy. Derivation of an empirical relation between the size of the nanoparticle and the potency of homeopathic medicines. International Journal of High Dilution Research 2015; 14(4):2-7.
- 5. Paul B K, Kar S, Bandyopadhyay P, Basu R, Das S, Bhar D S, Manchanda RK, Khurana A, Nayak D, Nandy P. Significant enhancement of dielectric and conducting properties of electroactive polymer polyvinylidene fluoride films: An innovative use of Ferrum metallicum at different concentrations. Indian J Res Homoeopathy 2016;10:52-8.
- 6. Anil Kumar Nain, Preeti Droliya, Raj Kumar Manchanda, Anil Khurana, Debadatta Nayak. Physicochemical studies of homoeopathic formulations (extremely diluted solutions) of acidum salicylicum in ethanol by using volumetric, acoustic, viscometric and refractive index measurements at 298.15, 308.15 and 318.15 K. Journal of Molecular Liquids 215 (2016) 680–690.