FUNDAMENTAL AND COLLABORATIVE RESEARCH

- No. of studies concluded: 09
- No. of studies initiated: 05
- No. of studies ongoing: 08
- No. of articles published: 09

S.no.	Title of research		Brief Outcome	Publication		
Traidia	study study source Initiated: 05 5 5					
1. 1.	Physicochemical studies of homoeopathic drug formulations by using volumetric, acoustic, viscometric, optical and conductometric measurements. Dyal Singh College, New Delhi	Oct. 2017 (3 years)	Proposed study is expected to provide accurately measured physiochemical data of density, viscosity, ultrasonic speed, refractive index, conductivity, etc. of homeopathic medicines, reflect the effect of various additives on physiochemical behavior of homeopathic formulations and investigate the effect of temperature and time on the behavior of these homoeopathic formulations.			
2.	Pharmacological screening of Homeopathic drugs used in rheumatoid arthritis, AIIMS, New Delhi	Feb 2017 (2 years)	Aim of the present study is to determine the safety potential of homeopathic drugs and to evaluate the anti- inflammatory and anti-arthritic activity of homoeopathic drugs.			
3.	In vitro approaches to investigate the efficacy and mechanism of action of homoeopathic medicines against hormone dependent and independent Breast and Prostate Cancer, AMITY University, Noida	May 2017 (2 years)	 Screening of homeopathic remedies for their differential anti-cancer activities in various breast and prostate cancer cell lines (which address hormone dependent and independent forms of these cancer) as well as in normal cell lines. The remedies under study will be; Sabal serrulata (MT, 30C, 200C), Thuja occidentalis (MT, 30C, 200C), Conium maculatum (MT, 30C, 200C), Hydrastis canadensis (MT, 30C, 200C) along with certain remedies reported in literature to have anticancer properties which will be provided by CCRH. Qualitative and quantitative evaluation of apoptotic activity of cancer cells after treatment with homeopathic remedies. 			
4.	Preparation of NOSODE from Escheirchia coli and Vibrio choleara: their preclinical	September 2017 (2 years)				

	effectiveness and			
	effectiveness and safety evaluation.			
	NICED, Kolkata			
5.	A pilot research proposal to explore the mechanism of action by anti-dengue homeopathic medicine, Eupatorium perfoliatum, ICGEB, New Delhi	September 2017 (May 2018) (1 year)	The study will help us to compare priming of innate immune cells adaptive immune cells, and serum soluble mediators in subjects taking placebo versus homeopathic medicine Eupatorium perfoliatum. It will help us to compare alterations in global gene expression profiles in subjects taking placebo versus homeopathic medicine, Eupatorium	, 1 5 1 1 5
			perfoliatum.	
Conal	uded: 09			
1.	Evaluation of anti-	December	Experiments were conducted and	Indian J Res
1.	fungal activity of certain Homoeopathic medicines on growth of human pathogenic fungi " <i>Candida</i> <i>albicans</i> " using in- vitro assays.	2013 Concluded March 2018 (4 years 3 months)	further experiments were conducted and further experiments were planned for validation.	Homoeopathy 2017; 11; 4, 237- 243.
2.	Evaluation of anti-	December	Experiments were conducted and	
	fungal activity of certain Homoeopathic medicines on growth of human pathogenic fungi "Aspergillus niger" using in-vitro assays.	2013 Concluded March 2018 (4 years 3 months)	further experiments were planned for validation.	
3.	Evaluation of anti- fungal activity of certain Homoeopathic medicines on growth of human pathogenic fungi <i>"Microsporumcanis"</i> using in-vitro assays.	December 2013 Concluded March 2018 (4 years 3 months)	Experiments were conducted and further experiments were planned for validation.	
4.	Screening of	March 2014	Experiments were conducted and	
	antibacterial activity of certain homoeopathic medicines on the growth of human pathogenic Gram negative bacterial strain Escherichia coli in-vitro models, CRI, Noida.	Concluded March 2018 (4 years)	further experiments were planned for validation.	
5.	Screening of	March 2014	Experiments were conducted and	
	antibacterial activity	Concluded	further experiments were planned for	
	of certain	Concluded	validation.	

	homoeonathic	March 2018]
	homoeopathic medicines on the	(4 years)		
	growth of human	(+ years)		
	pathogenic Gram			
	negative bacterial			
	strain Klebsiella			
	pneumonia in-vitro			
	models, CRI, Noida.	1 2014		
6.	Screening of	March 2014	Experiments were conducted and	
	antibacterial activity		further experiments were planned for	
	of certain	Concluded	validation.	
	homoeopathic	March 2018		
	medicines on the	(4 years)		
	growth of human			
	pathogenic Gram			
	negative bacterial			
	strain Proteus			
	mirabilis in-vitro			
	models, CRI, Noida.			
7.	Efficacy of the	March 2015	The study aims to:	Indian Journal of
· •	Homoeopathic		• Develop effective natural	Research in
	preparation of	Concluded	therapeutic strategy to alleviate	
	Berberis vulgaris to	September	hyperoxaluric stress associated	Homoeopathy /
	alleviate acute oxalate	2017	oxidative, nitrosative disturbances	Vol. 9 / Issue 3 /
	toxicity: An insight	(2 years 6)	and inflammatory aberrations on	Jul-Sep 2015
	into lithogenic events	(2 years 0 months)	the basis of biochemical,	
	with special reference	monuis)	,	ForschKompleme
	-		molecular and immunological	-
	to crystallization and		analysis (with special reference to	ntmed 2014;21:7-
	inflammation,		lithogenic protein expression and	12
	ALMPGI, Madras		Bonn Risk Index) and thereby	Link
	University		identifying the potency of the	
			homeopathic preparation of	
			Berberis vulgaris in acute oxalate	
			toxicity.	
			• Find out whether the homeopathic	
			preparations of Berberis vulgaris	
			in $\hat{\theta}$, 6C, 30C, and 200C potencies	
			are effective in lowering the	
			lithogenic risk factors such as	
			promoters and inhibitors by	
			computation of Bonn Risk index.	
			• Analyze whether the oxalate	
			induced altered expression of	
			genes and proteins are reverted by	
			the drug	
			e	
			• Explore whether the homeopathic	
			preparation mediates the	
			salubrious effect by altering	
			p38MAPK/p42, 44 MAPK.	
			• Delineate whether the drug is	
			capable of preventing	
			mitochondrial collapse induced	
			by oxalate.	
8.	Safety studies and	May 2016	This study aims to investigate the	

	pharmacological screening of Homoeopathic Drugs- Dengue Nosodes developed from Dengue virus. AIIMS, New Delhi	Concluded December 2017 (1 year 6 months)	safety of <i>Eupatorium perf.</i> , <i>Crotalus horridus</i> , and <i>Dengue nosode</i> on mouse model.	
9.	Understanding the Mechanism of action of homoeopathic medicine at molecular level in nano domains in-vivo and in-vitro systems, CIRE, Kolkata	March 2015 Concluded March 2018 (3 years)	The main objective is to establish homeopathy as nano medicine and in vitro study of effect of homeopathic medicines at different potencies, in vivo study of effect of homeopathic medicines at different potencies & characterization of homeopathic medicines.	Energy Education Science and Technology Part A: Energy Science and Research 2017 Volume (issues) 35(3): 249-254 International Journal of High Dilution Research 2017; 16(2): 01-04 International Journal of High Dilution Research 2016; 15(3): 18-22 Materials Research Innovations, DOI: 10.1080/14328917. 2016.1196563 International Journal of High Dilution Research; 2016; 15(1): 10-17 Indian J Res Homoeopathy 2016;10:52-8 International Journal of High Dilution Research 2015; 14(4):2-7 Available at www.highdilution. org