

## **Sri Ramachandra Centre for Pre-Clinical and Translational Medicine & Research**



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### ***Bench to Bedside***

- Evolve as an “International Centre of Excellence” to impart training and develop skilled manpower in Drug Discovery and Translational Medicine Research through Industry- Medical Academia partnership programme.
- Centre is unwaveringly ardent to anchor the concept of “*Bench to Bedside*” research for better patient compliance and to develop newer health care programme through Translational Research and Education.
- To conduct specific R&D programmes in Drug Discovery and Translational Medicine in collaboration with academia and industry partner (s) keeping in line with the thematic focus of the Centre.
- To train, develop and certify capacity built manpower in Drug Discovery and Translational Medicine in an Industry-Medical Academia Infrastructure.
- To promote research ranging from basic biology, preclinical *in vitro* and *in vivo*, to clinical studies involving clinical pharmacology to clinical trials for in house and industry
- Institutional collaborations to throw open a vista of opportunities for exchange of scientific knowledge and technology that would augment our *scientific output for the benefit of the society at large*.
- To publish research results in international journals of high impact factor, alone or in collaboration with other institutions.

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Department of Science and Technology, Department of Biotechnology, Government of India, Astraeneca Research Foundation

### **Selected Publications**

Saharia, K., Kumar, R., Gupta, K. Mishra S. and **Subramaniam JR** (2016) Reserpine requires the D2-type receptor, *dop-3*, and the exoribonuclease, *eri-1*, to extend the lifespan in *C. elegans*. J Biosci (2016). doi:10.1007/s12038-016-9652-7.

Saharia K, Kumar R, Gupta K, Mishra S and **Subramaniam JR** (2016) A novel way of amelioration of Abeta induced toxicity in *Caenorhabditis elegans*. Annals of neuroscience 23(3):149-154.

Raguraman V and **Subramaniam JR** (2016) *Withania somnifera* Root Extract Enhances Telomerase Activity in the Human HeLa Cell Line. Advances in Bioscience and Biotechnology 7 (04), 199-204.

Vasantharaja R, Kumar A, Kumar A, **Subramaniam JR** (2016) Reserpine Improves Working Memory. *Journal of Behavioral and Brain Science* 6 (03), 107-112.

Kumar A, Mishra HK, Dwivedi P, **Subramaniam JR** (2015) Secreted trophic factors of Human umbilical cord stromal cells induce differentiation and neurite extension through PI3K and independent of cAMP pathway. *Annals of neurosciences* 22 (2), 97-106.

Kumar R, Gupta K, Saharia K, Pradhan D and **Subramaniam JR** (2013) Withania somifera extract extends lifespan of *Caenorhabditis elegans*. *Annals of neurosciences* 20 (1), 13-16.

Kumar A, Mishra HK, Dwivedi P and **Subramaniam JR** (2012) Cyclic AMP pathway independent induction of neurite extension and their networking in the motor neuron cell line NSC34. *International Journal of Developmental Neuroscience* 30 (8), 646.

**Subramaniam JR** (2011) **Induction of neural differentiation, neurite extension and their networking through human umbilical cord derived stromal cells secreted trophic factors.** *J Cell Sci Ther* 10.4172/2157-7013.S1-14.

Saharia K, Arya U, Kumar R, Sahu R, Das CK, Gupta K, Dwivedi H and **Subramaniam JR** (2012) Reserpine Modulates Neurotransmitter Release To extend lifespan and alleviate Age-Dependent A $\beta$  Proteotoxicity. *Experimental Gerontology* 47(2):188-97.