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ट्रांसलेशनल स्वास्थ्य विज्ञान  
एवं प्रौद्योगिकी संस्थान

TRANSLATIONAL HEALTH SCIENCE  
AND TECHNOLOGY INSTITUTE

*Translational Research Series*

*Seminar IV*

*on*

# **Cyclic GMP-mediated signalling: getting to the gut of the matter**

**Prof. Sandhya S. Visweswariah PhD**

*Department of Molecular Reproduction, Development and Genetics  
Indian Institute of Science*

***Seminar Hall***

***At 3.00 pm on 24th September, 2013***



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## *Seminar IV*

# **Cyclic GMP-mediated signalling: getting to the gut of the matter**

## **Abstract**

*All disease begins in the gut'. This perceptive observation by Hippocrates is in harmony with the realization, today, of the importance of gastrointestinal function in the general well being of any living organism. The intestine is the primary site of nutrient absorption, fluid-ion secretion, and home to trillions of symbiotic microbiota. The high turnover of the intestinal epithelia also renders it susceptible to neoplastic growth. These diverse processes are carefully regulated by intricate signalling networks. This talk will focus on a receptor guanylyl cyclase and the role of cGMP in modulating gut physiology. From a molecular understanding of the biochemical regulation of this receptor, we have moved towards delineating its roles in regulating intestinal cell proliferation, and origins of gastrointestinal disease.*

***At 3.00 pm on 24th September, 2013***