

Colloquium

On

“Mechanisms governing vertebrate mesoderm development”

by

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Abstract: A single cell, the fertilized egg, generates the entire organism. In vertebrates, the fertilized egg divides to make an embryo which implants in mother's uterus and develops to attain the adult body plan. As soon the embryo implants the embryonic cells, which make the entire body of the vertebrate animal compartmentalizes into 3 germ layers. Inner endoderm, middle mesoderm and outer ectoderm. All organs and tissues of the animal arise through these germ layer intermediates. My laboratory studies the signaling molecules (external influences) as well as transcription factors (the cell intrinsic gene expression regulators) that control the development of mesoderm. Mesoderm specializes in a stepwise fashion to generates muscle, bone, blood, heart, kidney etc. Our study reveals the mechanisms of early steps of this specialization process. I'll give an overview of early embryo development and discuss some of our results.

Day and Date : Tuesday, November 03 , 2015
Time : 4.00 pm
Venue : PF-AG 14, Seminar Room, Prefab

All are Welcome