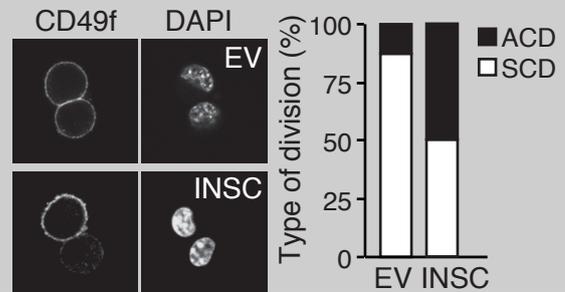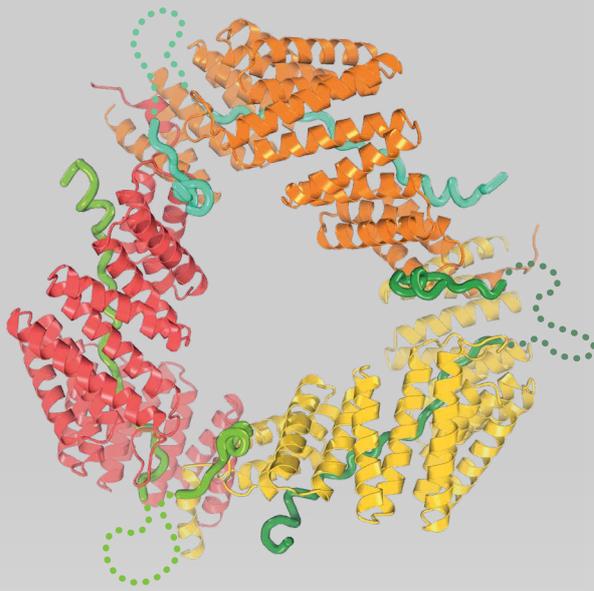# Mechanisms of oriented stem cell divisions and implications for cancer biology

The team of Marina Mapelli at the **European Institute of Oncology IEO in Milano (Italy)** is recruiting a postdoctoral researcher to investigate mechanisms of *Wnt-signaling in oriented and asymmetric cell divisions in the intestinal crypt, and their implication in cancer development.* The project is funded by AIRC and the Italian Ministry of Health.

We are looking for candidates with a strong background in biochemistry of large macromolecular assemblies and structural biology, with particular interest in crystallography.

Overall, the project will explore fundamental questions of asymmetric stem cell divisions and fate decision. To gain molecular information, the research will integrate biochemistry and structural biology with cell biology of intestinal cells. Experimental approaches including biochemistry, structural biology, and cell biology of mitosis are well established in the lab (Culurgioni, Nat. Commun. 2018; Carminati, NSMB 2016; Gallini, Curr. Biol. 2016), and additional techniques of stem cell manipulation and live imaging in organoids are being developed collaboratively. For more information about the lab please visit: http://bit.do/marinamapellilab.

The recuited postdoc will be integrated in the Mapelli lab, at the IEO Department of Experimental Oncology based at the IFOM-IEO Campus, which provides an excellent environment at the inter-face between structural biology, cell biology and cancer genetics. He/She will receive a salary and health/social security coverage from the IEO. The contract will be initially for one or two years, with possible extensions until the end of the project.

This call has an open deadline; applications will be examined until the position is filled. Potential applicants are encouraged to contact Marina Mapelli as early as possible, sending a brief description of interests, a CV, and contact information of three references to **marina.mapelli@ieo.it**.