Molecular Genetics & Development Biology School of Medicine. In recent years developmental biology has contributed a great deal to cancer research. This is in part because both fields address the question of how genes influence the development of cancer. Researchers at the界面 Institute for Developmental Biology and Cancer Research (IIBM) have been at the forefront of this interdisciplinary approach. Their work has helped to elucidate the complex interplay between developmental and cancer processes.

For instance, the team has been studying the role of the Notch signaling pathway in cancer. Notch signaling is a key player in the development of the nervous system, and its dysregulation has been linked to various types of cancer. The researchers have shown that targeting Notch signaling in cancer cells can lead to their apoptosis (cell death), offering a potential therapeutic strategy.

Moreover, the IIBM has been involved in the development of mathematical models to predict the behavior of cancerous growths. By integrating data from different sources, these models can help to anticipate how tumors will grow and spread, allowing for more effective treatment planning.

In addition to these and other projects, the IIBM is committed to training the next generation of developmental biologists. It offers both PhD and postdoctoral programs, providing students with a comprehensive education that spans the fields of molecular biology, cell biology, cancer biology, and more.

Overall, the IIBM's work exemplifies the power of interdisciplinary research in advancing our understanding of cancer and in developing new therapeutic strategies.