

## Postdoctoral Fellowship, Cancer Biology

An exciting Cancer Biology Postdoctoral Fellowship is available in the Division of Women's and Perinatal Pathology at the Brigham and Women's Hospital, Harvard Medical School. The research interests of our laboratory focus on cancer biology, malignancies of the gonads and reproductive tract, with a special emphasis on ovarian cancer research and endometriosis. In addition, our laboratory has a strong interest in cancer genomics and proteomics, the role of cancer stem cells in resistance to chemotherapy, rational drug design and targeted therapies, and methods of early detection.

Current projects include investigating the contribution of cancer stem cells to mechanisms of tumor chemoresistance. We strive to develop novel strategies for selectively targeting stem cells in ovarian cancer and we are quickly translating our discoveries from the laboratory bench to the bedside. Our current studies focus on better understanding the mechanism of Notch signaling in the maintenance of the cancer stem cell niche and ovarian tumorigenesis (*McAuliffe S et al. Proc Natl Acad Sci USA 2012; Morgan S et al. Cell Cycle 2013*). Furthermore, we are working on developing better vehicles for therapy delivery by harnessing the power of nanotechnology (*Paraskar S et al. Proc Natl Acad Sci USA 2010; Sengupta P et al. Proc Natl Acad Sci USA 2012*). We are uniquely positioned and well prepared to carry out these studies, which are part of a strong interdisciplinary collaborative effort at Harvard Medical School and MIT to develop improved "homing" technologies for the delivery of therapeutic agents specifically targeting and sensitizing ovarian cancer cells, including cancer stem cells, in a spatio-temporal fashion.

Qualifications: A recent Ph.D. and lead authorship of major publications are required in addition to prior experience in genetics, molecular and cellular biology, and/or animal models of cancer. Please visit our laboratory website (<http://dinulesculab.bwh.harvard.edu>) for more information and send your cover letter and CV to Daniela Dinulescu, Ph.D. ([ddinulescu@rics.bwh.harvard.edu](mailto:ddinulescu@rics.bwh.harvard.edu)).