Diagnosis of Benign and Cancerous Growths by Measuring Circulation Tumor Stem Cells and Serum AnnexinA2

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Description: Provided herein is a method for diagnosing/prognosing a metastatic cancer in a subject by measuring and detecting one or more of CS-ANXA2, DCAMKL, Lgr5 or CS-ANAX2 and DCAMKL or CS-ANXA2 and Lgr5 positive circulating tumor stem cells in the subject's blood or plasma. Also provided is a method for distinguishing the presence of early stage primary cancer from advanced stage metastatic cancer in the subject by measuring and detecting AnnexinA2, CS-ANXA2 and DCAMKL-1 or Lgr5 in the blood or plasma. In addition, there is provided a method for distinguishing the presence of benign, pre-cancerous tumorous growths or cancerous tumors in the subject by measuring and detecting AnnexinA2 and circulating tumor stem cells positive for CS-ANXA2 and DCAMKL or CS-ANXA2 and Lgr5 in the blood or plasma.


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