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Webinar

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Inhibition of cd146 in breast cancer stem cells and tumorigenesis to control breast cancer metastasis

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Breast cancer is the second most common cancer after lung cancer and contributes to 15% of total cancer death; being treated by surgery, radio and target therapy still it relapse after sometime. It has been found that angiogenesis plays central role in cancer and cancer cells with stem like properties are main culprit for relapse of cancer, thereby making them the new target of treatment. CD146, 113 KDa surface glycoprotein has been found to have key role in angiogenesis and cancer stem cells, thus we hypothesized that CD46 is playing a key role in regulating both angiogenesis and cancer stem cells thereby targeting growth and metastasis of breast cancer. Based on our hypothesis we have conducted our research on MDA MB 231 triple negative cell line by performing various in-vitro and in-vivo experiments and also inhibited the CD146 expression to study its effect. So we found that CD146 is key molecule which when targeted can inhibit breast cancer growth and metastasis.

Recent Publications

1) Pankaj Kaingade,* Indumathi Somasundaram,* Akshita Sharma, Darshan Patel and Dhanasekaran Marappagounder. Cellular Components, Including Stem-Like Cells, of Preterm Mother's Mature Milk as Compared with Those in Her Colostrum: A Pilot Study Breastfeed Med 2017 Sep;12(7):446-449. doi: 10.1089/bfm.2017.0063. Epub 2017 Jun 22. (I.F.0.836)

2) Akshita Sharma, Indumathi Somasundaram. Factors triggering tumor angiogenesis in breast cancer. Medical Journal D. Y. Patil

University (2018).

3) Akshita Sharma, Nilaja Badodekar, Vikrant Patil, Gaurang Telang, Rakesh Sharma, Shankargouda Patil, Nishant Vyas, Indumathi Somasundaram. Angiogenesis induction in breast cancer: A paracrine paradigm. Cell Biochem Funct. 2021;1-14. DOI: 10.1002/cbf.3663. (I.F. 3.69)

4) Akshita Sharma, Ahmad Joshkon, Aymen Ladjimi, Richard Bachelier, Stéphane Robert, Alexandrine Foucault-Bertaud, Aurélie Leroyer, Nathalie Bardin, Indumathi Somasundaram and Marcel Blot-Chabaud. Soluble CD146 as a Potential Target for preventing Triple Negative Breast Cancer MDA-MB-231 Cells growth and dissemination. (Communicated). (I.F.)

Biography

Akshita Sharma is Research Scholar at Centre for inter-disciplinary research centre, Department of Stemcell, D. y. Patil Education Society, Kolhapur (India). She has done her M.Sc in Biotechnology from Banasthali Vidyapeeth, jaipur and then completed Diploma in Stem cell and regenerative medicine from y. Patil Education Society, Kolhapur to pursue her PhD in breast cancer stem cells. She has worked in collaboration with Prof. Marcel Blot Chabaud, renowned Scientist in Aix- AMrseille University, France.

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