Author's response to reviews

Title: SDF-1alpha concentration dependent modulation of RhoA and Rac1 modifies breast cancer and stromal cells interaction

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Author's response to reviews: see over
Dear Editor

Please find enclose a manuscript entitled "SDF-1alpha concentration dependent modulation of RhoA and Rac1 modifies breast cancer cell interaction with stromal cells that we would like to submit to Breast Cancer Research.

In this study we have investigated the role of SDF-1α in the regulation of both migratory and adherent properties of breast cancer cells. We have hypothesized that during their migratory course cancer cells are subjected to different concentration of SDF-1α and that such differential exposure might have differential effect. We were able to show that while low SDF-1α was stimulating migratory phenomenon high SDF-1α was associated to slower migration and increased adhesion. We were able to illustrate that at low SDF-1α concentration increase of RhoA expression and activation was responsible for an increased migration properties. On the other hand, high concentration of SDF-1α was associated to low RhoA and high Rac1 activity promoting adhesion.

The authors have all read the manuscript and declare no conflict of interest. The manuscript has not been submitted and is not under consideration, at any other publication.

Dr. Arash, MD, PhD