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Regulation of metastasis by endogenous metabolites

Many endogenous metabolites that are released from extracellular matrix were identified as angiogenesis inhibitors of tumor growth. These endogenous metabolites bind to the cell surface integrins and transduce the signaling. Thus, cell surface integrins serve as trans-membrane linkers between the extracellular matrix and cytoskeleton for outside-in signaling. Such endogenous metabolites generated by MMPs from the C-terminal non-collagenous domain of type IV collagen were identified as an inhibitor of angiogenesis, but their mediated anti-metastatic signaling are not known yet. Our findings suggest that these metabolites interacting with different cell surface integrins and cross talking with other receptors and inhibiting tumor angiogenesis and tumor metastasis both *in-vitro* and *in-vivo*.

Biography

Sudhakar Yakkanti, Associate Director/Senior Scientist at Center for Cancer & Metabolism, Cell Signaling Laboratory, Bioscience Division, Stanford Research Institute (SRI) International, Menlo Park, California. In addition he is the President of OMICS Organization. Earlier he was founder Director of Cell Signaling, Retinal and Tumor Angiogenesis Laboratory at BTNRH, Omaha, NE, USA (2004-2012). He did his postdoctoral training at Harvard Medical School, Boston, MA, USA (2003). He received President's fellowship (1992), GATE (1996) and CSIR (2007-2000) fellowships from Government of India. He received Mahindra & Mahindra Educational Award (2000) and Young Clinical Scientist Awards from Flight Attendant Medical Research Institute (FAMRI) in 2007 and 2010. He also received Bio-Bio Young Scientist Award from OMICS publishing group; Michael A. O'Connor Young Investigator Award; RO1 grant Award from NIH/NCI and Research Scholar Grant Award from ACS (2010). He is serving as AIBS/NIH-RO1 Grant reviewer for DT study section. He has published more than 40 research articles in several top journals including Science, Cancer Cell, JCI, Blood, PNAS, Gastroenterology, Cancer Research, JBC, IOVS, PLOS ONE etc. He is serving as an Editor-in-Chief, Executive Editor, Editor and Editorial board member of reputed journals and is serving as a reviewer for many scientific journals including JCI, Blood, Circulation, Circulation Research, Cancer research, Clinical Cancer research etc. He was honored as honorable guest, keynote speaker, session chair and organizing committee member for many national and international conferences.

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