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CD 18-mediated adhesion is required for the induction of a proinflammatory phenotype in lung epithelial cells by mononuclear cell-derived extracellular vesicles Tommaso Neri¹, Valentina Scalise¹, Ilaria Passalacqua¹, Ilaria Giusti², Stefania Lombardi³, Cristina Balia¹, Delfo D'Alessandro⁴, Stefano Berrettini⁴, Roberto Pedrinelli¹, Pierluigi Paggiaro¹, Vincenza Dolo², Alessandro Celi^{1,5}

¹Centro Dipartimentale di Biologia Cellulare Cardiorespiratoria; Dipartimento di Patologia Chirurgica, Medica, Molecolare e dell'Area Critica. University of Pisa, and Azienda Ospedaliero-Universitaria Pisana, Pisa, Italy

²Department of Life, Health and Environmental Sciences, University of L'Aquila, L'Aquila, Italy

³SD Analisi ChimicoCliniche ed ImmunoAllergologia,USL1, Massa e Carrara, Italy

⁴OtoLab; Dipartimento di Patologia Chirurgica, Medica, Molecolare e dell'Area Critica.

University of Pisa, and Azienda Ospedaliero-Universitaria Pisana, Pisa, Italy

⁵To whom correspondence should be addressed at Università di Pisa, Dipartimento

Cardiotoracico e Vascolare; Via Paradisa, 2 - 56124, Pisa, Italy

alessandro.celi@med.unipi.it

fax (+39) 050996947

Abstract

Extracellular vesicles are submicron vesicles that upregulate the synthesis of proinflammatory mediators by lung epithelial cells.

We investigated whether these structures adhere to lung epithelial cells, and whether adhesion is a prerequisite for their proinflammatory activity.

Extracellular vesicles were generated by stimulation of normal human mononuclear cells with the calcium ionophore A23187, and labelled with carboxyfluorescein diacetate succinimidyl ester. Adhesion of vesicles to monolayers of immortalized bronchial epithelial (16HBE) and alveolar (A549) cells was analysed by fluorescence microscopy. The role of

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