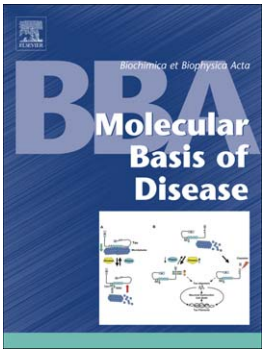

TNAP stimulates vascular smooth muscle cell trans-differentiation into chondrocytes through calcium deposition and BMP-2 activation: Possible implication in atherosclerotic plaque stability

Maya Fakhry, Monika Roszkowska, Anne Briolay, Carole Bougault, Alain Guignandon, Juan Ignacio Diaz-Hernandez, Miguel Diaz-Hernandez, Slawomir Pikula, René Buchet, Eva Hamade, Bassam Badran, Laurence Bessueille, David Magne

PII: S0925-4439(16)30331-3
DOI: doi:10.1016/j.bbadis.2016.12.003
Reference: BBADIS 64632

To appear in: *BBA - Molecular Basis of Disease*

Received date: 29 July 2016
Revised date: 12 November 2016
Accepted date: 4 December 2016

Title: TNAP stimulates vascular smooth muscle cell trans-differentiation into chondrocytes through calcium deposition and BMP-2 activation: possible implication in atherosclerotic plaque stability

Maya Fakhry[1,2,*], Monika Roszkowska[1,3,*], Anne Briolay[1], Carole Bougault[1], Alain Guignandon[4], Juan Ignacio Diaz-Hernandez[5], Miguel Diaz-Hernandez[5], Slawomir Pikula[3], René Buchet[1], Eva Hamade[2], Bassam Badran[2], Laurence Bessueille[1], David Magne[1]

[*]Both authors contributed equally

[1]Univ Lyon; University Lyon 1; ICBMS, UMR CNRS 5246, F-69622, LYON, France. [2]Lebanese University; Laboratory of Cancer Biology and Molecular Immunology; EDST-PRASE; Hadath-Beirut, Lebanon. [3]Laboratory of Biochemistry of Lipids, Department of Biochemistry, Nencki Institute of Experimental Biology of Polish Academy of Sciences, Warsaw, Poland. [4]Univ Lyon; Université Jean Monnet Saint-Etienne, LBTO, UMR INSERM 1059, F-42023 Saint-Etienne, France. [5]Universidad Complutense de Madrid, Facultad de Veterinaria, Dpt. Bioquimica y Biologia Molecular IV. Madrid, Spain.

Corresponding author:

Magne, D.

ICBMS UMR CNRS 5246

University of Lyon 1

Bâtiment Raulin, 43 Bd du 11 novembre 1918

69622 Villeurbanne Cedex, France

Phone: +33-4-27-46-57-20; Email: david.magne@univ-lyon1.fr