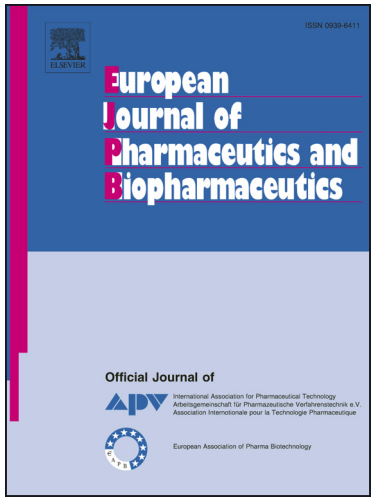

Research paper

Anti-proliferative and anti-migratory effects of hyperforin in 2D and 3D artificial constructs of human dermal fibroblasts - a new option for hypertrophic scar treatment?

J. Füller, C.C. Müller-Goymann

PII: S0939-6411(17)30116-9
DOI: http://dx.doi.org/10.1016/j.ejpb.2017.03.003
Reference: EJPB 12458

To appear in: *European Journal of Pharmaceutics and Biopharmaceutics*

Received Date: 23 January 2017
Accepted Date: 9 March 2017

Please cite this article as: J. Füller, C.C. Müller-Goymann, Anti-proliferative and anti-migratory effects of hyperforin in 2D and 3D artificial constructs of human dermal fibroblasts - a new option for hypertrophic scar treatment?, *European Journal of Pharmaceutics and Biopharmaceutics* (2017), doi: http://dx.doi.org/10.1016/j.ejpb.2017.03.003

Title: Anti-proliferative and anti-migratory effects of hyperforin in 2D and 3D artificial constructs of human dermal fibroblasts - a new option for hypertrophic scar treatment?

Authors: J. Füller[a, b], C.C. Müller-Goymann[a, b, *]

*corresponding author

[a] Institut für Pharmazeutische Technologie, Technische Universität Braunschweig, Braunschweig, Germany

[b] Center of Pharmaceutical Engineering, Technische Universität Braunschweig, Braunschweig, Germany

short titel (running head): Effects of Hyperforin on HDF

Key Words: Hyperforin, Human dermal fibroblast, migration, contraction, skin, viability assay, live-dead cell staining

Address correspondence to: C.C. Müller-Goymann, Institut für Pharmazeutische Technologie, Mendelssohnstraße 1, DE-38106 Braunschweig, Tel. +49 531 391 5650, E-mail: c.mueller-goymann@tu-braunschweig.de

Abbrevations: HYP, Hyperforin; Il-8, Interleukine 8; HDF, Human dermal fibroblasts; DMSO, Dimethyl sulfoxide; AD construct, artificial dermal construct

Abstract:

Graphical abstract