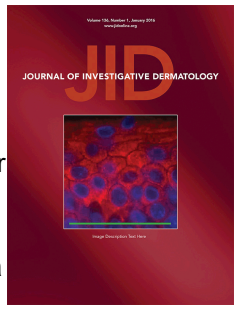
Accepted Manuscript



Comparative degradomics of porcine and human wound exudates unravels biomarker candidates for assessment of wound healing progression in trauma patients

Fabio Sabino, Fabian E. Egli, Simonas Savickas, Jörg Holstein, Daniela Kaspar, Mika Rollmann, Jayachandran N. Kizhakkedathu, Tim Pohlemann, Hans Smola, Ulrich auf dem Keller

PII: S0022-202X(17)32930-5

DOI: 10.1016/j.jid.2017.08.032

Reference: JID 1057

To appear in: *The Journal of Investigative Dermatology*

Received Date: 20 June 2017

Revised Date: 15 August 2017

Accepted Date: 17 August 2017

Please cite this article as: Sabino F, Egli FE, Savickas S, Holstein J, Kaspar D, Rollmann M, Kizhakkedathu JN, Pohlemann T, Smola H, auf dem Keller U, Comparative degradomics of porcine and human wound exudates unravels biomarker candidates for assessment of wound healing progression in trauma patients, *The Journal of Investigative Dermatology* (2017), doi: 10.1016/j.jid.2017.08.032.

Comparative degradomics of porcine and human wound exudates unravels biomarker candidates for assessment of wound healing progression in trauma patients

Fabio Sabino[1], Fabian E. Egli[1], Simonas Savickas[1], Jörg Holstein[2], Daniela Kaspar[3], Mika Rollmann[2], Jayachandran N. Kizhakkedathu[4], Tim Pohlemann[2], Hans Smola[3], and Ulrich auf dem Keller[1]*

[1]ETH Zurich, Department of Biology, Institute of Molecular Health Sciences, Otto-Stern-Weg 7, 8093 Zurich, Switzerland

[2]Department of Trauma-, Hand-, Reconstructive Surgery, Saarland University Hospital, Kirrbergstrasse 1, 66421 Homburg, Germany

[3]Paul Hartmann AG, Paul Hartmann Strasse 12, 89522 Heidenheim, Germany

[4]University of British Columbia, Department of Pathology and Laboratory Medicine and Department of Chemistry, Centre for Blood Research, 4.401 Life Sciences Institute, 2350 Health Sciences Mall, Vancouver, British Columbia, Canada V6T 1Z3

*Correspondence should be addressed to U. a. d. K. (ulrich.aufdemkeller@biol.ethz.ch)

phone: +41-44-633-3392; fax: +41-44-633-1147

Running title: Wound fluid biomarkers

Keywords: clinical research, proteases, wound healing, negative pressure wound therapy, positional proteomics, TAILS, biomarker