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**e-mail:** [johann.wojta@meduniwien.ac.at](mailto:johann.wojta@meduniwien.ac.at)**Research topic:**

The group focuses on the pathogenesis of atherosclerosis with special emphasis on inflammatory activation patterns of cells involved in disease development and progression such as endothelial cells, smooth muscle cells, cardiac myocytes and fibroblasts, monocytes, macrophages, dendritic cells, T-cells and adipocytes. These cells are used in various in vitro models to study processes involved in the development and progression of atherosclerosis, such as inflammatory activation induced by particular cytokines, matrix degradation and remodelling by proteases and angiogenesis and neovascularization.

**5 selected publications:**

- Rega G, Kaun C, Weiss TW, Demyanets S, Zorn G, Kastl SP, Steiner S, Seidinger D, Kopp CW, Frey M, Roehle R, Maurer G, Huber K, Wojta J. Inflammatory cytokines interleukin-6 and oncostatin m induce plasminogen activator inhibitor-1 in human adipose tissue. *Circulation*. 2005 Apr 19;111(15):1938-45.
- Hohensinner PJ, Kaun C, Rychli K, Niessner A, Pfaffenberger S, Rega G, Furnkranz A, Uhrin P, Zaujec J, Afonyushkin T, Bochkov VN, Maurer G, Huber K, Wojta J. The inflammatory mediator oncostatin M induces stromal derived factor-1 in human adult cardiac cells. *FASEB J*. 2009 Mar;23(3):774-82.
- Kastl SP, Speidl WS, Katsaros KM, Kaun C, Rega G, Assadian A, Hagmueller GW, Hoeth M, de Martin R, Ma Y, Maurer G, Huber K, Wojta J. Thrombin induces the expression of oncostatin M via AP-1 activation in human macrophages: a link between coagulation and inflammation. *Blood*. 2009 Sep 24;114(13):2812-8.
- Speidl WS, Kastl SP, Hutter R, Katsaros KM, Kaun C, Bauriedel G, Maurer G, Huber K, Badimon JJ, Wojta J. The complement component C5a is present in human coronary lesions in vivo and induces the expression of MMP-1 and MMP-9 in human macrophages in vitro. *FASEB J*. 2011 Jan;25(1):35-44.

- Demyanets S, Konya V, Kastl SP, Kaun C, Rauscher S, Niessner A, Pentz R, Pfaffenberger S, Rychli K, Lemberger CE, de Martin R, Heinemann A, Huk I, Gröger M, Maurer G, Huber K, Wojta J. Interleukin-33 induces expression of adhesion molecules and inflammatory activation in human endothelial cells and in human atherosclerotic plaques. *Arterioscler Thromb Vasc Biol.* 2011 Sep;31(9):2080-9.