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Novel immune cell-based therapies for atherosclerosis

Frodermann, V.

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Author: Frodermann, Vanessa

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NOVEL IMMUNE CELL-BASED THERAPIES FOR ATHEROSCLEROSIS

Propositions

1. Immune cell-based therapies to ameliorate early atherogenesis should mainly reduce monocyte responses, while strategies for established atherosclerosis should aim to induce regulatory T cell responses. (*This thesis*)
2. The most promising aspect of cellular therapy is the potential to induce antigen-specific tolerance. (*This thesis*)
3. Proteasomal inhibition may prove to be statin therapy 2.0 for atherosclerosis. (*This thesis*)
4. Copying nature's own remedies for preventing inflammation is a strategically smart approach. (*This thesis*)
5. Many dendritic cells in atherosclerosis are macrophages in disguise. (*Taghavi-Moghadam PL et al. Ann N Y Acad Sci. 2014;1319:19-37.*)
6. From a scientific point of view, female scientists are favorable since the male scent may compromise animal research results. (*Grimm D. Science 2014;2;344(6183):461.*)
7. The lack of gender-specific cardiovascular research impairs proper diagnosis and treatment of women. (*Maas AH et al. Eur Heart J. 2011;32(11):1362-8.*)
8. The double-blind peer review process introduced by the Nature Publishing Group will improve fair non-biased assessment of research quality and should be implemented by other journals. (*Nat Cell Biol. 2015;17(3):195.*)
9. While in the past a scientist's research spoke for itself, the modern scientist has to be multidisciplinary: ranging from student to teacher, customer to sales person, employee to manager, and journalist to artist.
10. If the only argument is "it's always been done like this and it works", it is time to reassess experimental protocols.
11. Research is like a journey into the unknown: you prepare properly but have no idea where you will end up.

Vanessa Frodermann
May 27, 2015