

# VEGFR-1 function and dysfunction in monocytes

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**VEGFR-1 function and dysfunction in monocytes**

1. The role of VEGF receptor 1 is a mystery with respect to VEGF-mediated angiogenesis. (*Robert S. Kerbel, N Engl J Med, 2008*)
2. TK domain of VEGFR-1 plays a crucial role in the induction of monocyte migration in response to PlGF-1 or VEGF-A. (*this thesis*)
3. Selective alteration of VEGFR-1 signaling (in contrast to fMLP-induced signaling) in diabetes indicates a higher sensitivity, i.e. vulnerability of the VEGFR-1 system. (*this thesis*)
4. Elevated RAGE expression and oxidative stress in diabetic monocytes contribute to desensitization of VEGFR-1. (*this thesis*)
5. Oxidative stress induces oxidative modifications of PTPs resulting in their inhibition in diabetic monocytes. (*this thesis*)
6. Intensive glucose control in patients with type 2 diabetes mellitus reduces the progression of microvascular disease, but the effect on macrovascular complications remains uncertain. (*Duckworth et al, N Engl J Med, 2009*)
7. Viewing a stressful soccer match more than doubles the risk of an acute cardiovascular event. (*Wilbert-Lampe et al, N Engl J Med, 2008*)
8. Drugs don't work in patients who don't take them. (*C. Everett Koop*)
9. If you don't take a temperature, you can't find a fever. (*Rule 10 of "House of God", S. Shem*)
10. The first law of dietetics seems to be if it tastes good, it is bad for you. (*Isaac Asimov*)

Vadim Tchaikovski, the 16<sup>th</sup> of December 2009