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**Name of Journal:** *World Journal of Diabetes*

**Manuscript NO:** 57891

**Manuscript Type:** ORIGINAL ARTICLE

**Basic Study**

**Role of ferroptosis in the process of diabetes-induced endothelial dysfunction**

Er-Fei Luo, Hong-Xia Li, Yu-Han Qin, Yong Qiao, Gao-Liang Yan, Yu-Yu Yao, Lin-Qing Li, Jian-Tong Hou, Cheng-Chun Tang, Dong Wang



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**Cited by:** 309      **Author:** Angelo Avogaro, Mattia Albiero, Lisa Men...  
**Publish Year:** 2011

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Studies investigating **endothelial** function in animal models of type II diabetes are scarce and have yielded conflicting results. Both impaired (Sakamoto et al., 1998) and preserved (Bohlen & Lash, 1995) endothelium-dependent responses have been reported. Clinical studies in patients with type II diabetes are almost inevitably confounded by the high prevalence of other cardiovascular risk ...

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## Endothelial dysfunction

Systemic Pathological State

In vascular diseases, endothelial dysfunction is a systemic pathological state of the endothelium. Along with acting as a semi-permeable membrane, the endothelium is responsible for maintaining vascular tone and regulating oxidative stress by releasing mediators, such as nitric oxide, prostacyclin and endothelin, and controlling local angiotensin-II activity.



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**Author:** Tao Bai, Mingxing Li, Yuanfeng Liu, Zhent...

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Nov 01, 2019 · PM2.5 enhances **ferroptosis** sensitivity in **endothelial** cells. • **Dysfunction** of iron uptake and storage is a major inducer **of ferroptosis** by PM2.5. • PM2.5-induced **ferroptosis** can be partially rescued by ferrostatin-1 and deferoxamine mesylate. • Antiferroptosis activity mainly depends on the restoration of antioxidant activity and iron ...

**Cited by:** 16      **Author:** Yan Wang, Meng Tang  
**Publish Year:** 2019

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