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Abstract—An **influence of 10-(6'-plastoquinonyl)decyltriphenylphosphonium (SkQ1)** on oxidative status and activity of some antioxidant enzymes in the liver **and blood serum** from rats was examined during experimental **hyperglycemia** devel-oped after injecting protamine sulfate.

Published

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Affiliation: [Voronezh State University](#)

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About: **Aconitase · Catalase · Plastoquinone · Oxidative stress · Mitochondrion · Protamine**

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### mitochondria-targeted antioxidant skq1: Topics by Science.gov

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May 01, 2018 · We have applied the mitochondria-targeted antioxidant 10-(6'-plastoquinonyl)decyltriphenylphosphonium (SkQ1) to explore the role of mitochondrial reactive oxygen species in the wound healing of genetically diabetic mice. Healing of full-thickness excisional dermal wounds in diabetic C57BL/Ks, J-db<sup>-</sup>/db<sup>-</sup> mice was significantly enhanced after long-term (12 weeks) administration of SkQ1.



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**Name of Journal:** *World Journal of Diabetes***Manuscript NO:** 50245**Manuscript Type:** ORIGINAL ARTICLE***Basic Study***

**Influence of 10-(6-plastoquinonyl) decyltriphenylphosphonium on free-radical homeostasis in the heart and blood serum of rats with streptozotocin-induced hyperglycemia**

**Abstract****BACKGROUND**

It is known that under conditions of tissue tolerance to insulin, observed during type 2 diabetes mellitus (DM2), there is an increase production of reactive oxygen species (ROS). Moreover, the free radicals (FR) can initiate lipid peroxidation (LPO) in

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