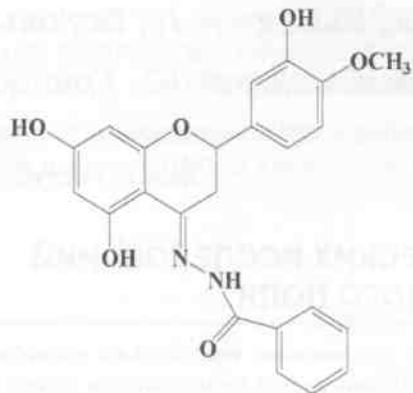


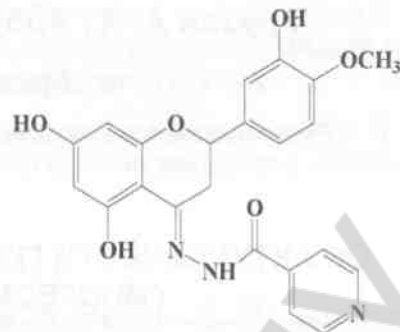
IMPACT OF SCHIFF BASES ON THE ANTIOXIDANT ACTIVITY *IN VITRO*

Schiff bases compounds from the group of imines, which are widely distributed in many biological systems and are used in medicine owing to their wide range of biological activities.

Newly received Schiff bases (HHSB and HIN) are a merger of hesperetin as bioflavonoid with benzoic acid hydrazide and isoniazid. The synthesized compounds have been characterized using appropriate of analytical techniques such: elemental analysis, thermal, magnetic, and spectral studies (IR, UV-visible, ^1H NMR, ^{13}C NMR).



HHSB



HIN

The antioxidant activity of the synthesized Schiff bases was also analyzed in suspensions of liver mitochondria isolated from Wistar rats. The research results allow alleging that Schiff bases containing hesperetin make a favorable influence on defense of isolated mitochondria from oxidative stress *in vitro*.

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ВЛИЯНИЕ ОСНОВАНИЙ ШИФФА НА АНТИОКСИДАНТНУЮ АКТИВНОСТЬ *IN VITRO*

Результаты проведенных исследований позволяют утверждать, что основания Шиффа, синтезированные на основе гесперетина оказывают благоприятное влияние на защиту изолированных митохондрий от оксидативного стресса в условиях *in vitro*.