

عنوان مقاله:

Study of interaction of hemoglobin protein with malathion using circular dichroism and fluorescence spectroscopy

محل انتشار:

اولین کنفرانس ملی یافته های نوین زیست شناسی (سال: 1395)

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خلاصه مقاله:

department biochemistry biophysics, university islamic azad mashhad, iran In the present work studied interaction between hemoglobin protein and malathion in presence and absence silver nano particles with different three measure by fluorescence spectroscopy. Hemoglobin is important protein in blood disease that studied binding ligand – protein for the first time. Malathion is kind of toxicant that widely use in agriculture. Malathion is an organophosphorous insecticide with appearance green oil. Silver nanoparticles widely use in different branches biological science. In this work studied effect nanoparticles in scale assembling malathion per hemoglobin. The results of uv/vis fluorescence spectra showed distance ligand and protein is 2.75 nm. Also in presence silver nanoparticles 1,2&3 this distance is 2.63, 2.72&2.68 nm. Studied effect malathion over secondary structure hemoglobin protein with circular dichroism fluorescence. The results showed changes thus level α – helix hemoglobin changed from 45.84 to 41.71

کلمات کلیدی:

hemoglobin, malathion, silver nanoparticles, circular dichroism fluorescence, uv/vis

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