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PERMETHRIN SELECTION ON THE ADULTS OF ANOPHELES STEPHENSI FROM SOUTH OR IRAN

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Abstract:

A wild strain of *Anopheles stephensi* Liston (BAN-PR), originating from Bandar-Abbas, south of Iran, was submitted to selection with permethrin at the adult stage. Ten successive generations of permethrin selection on the adults resulted in only 2.2 fold increase in tolerance. Crossing experiments on the selected and unselected strains indicated that the gene/genes for observed tolerance is inherited as an intermediate character with no indication of sex linkage. Synergist test on the selected strain indicated γ -t oxidative detoxification might be the major mechanism in the selected in for the observed tolerance. The relationship between resistance to dieldrin and malathion in permethrin selected strain was studied. The result indicated that there might be a positive correlation between resistance to dieldrin, malathion and permethrin in *An.stephensi* from Bandar-abbas.

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