Sex Attractants for Six Clearwing and Tineid Species (Lepidoptera, Sesiidae and Tineidae) from Kazakhstan and Lithuania

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Octadecadienols, Octadecadienyl Acetates, Daily Rhythm

Sex attractants for 3 Sesiidae and 3 Tineidae moth species in West-Kazakhstan and Lithuania were discovered by field screening tests of \((3Z,13Z)\)-, \((3E,13Z)\)- and \((2E,13Z)\)-octadeca-dien-1-ols and their acetates as well as of some binary mixtures of these compounds. Total amount of chemicals was 0.3 mg/dispenser. Males of \textit{Synanthedon serica} were attracted by a 5:5 mixture of \(3E,13Z\)-18:OAc and \(2E,13Z\)-18:OAc, \textit{Chamaesphecia bibioniformis} by a 9:1 mixture of \(3Z,13Z\)-18:OAc and \(3E,13Z\)-18:OAc, \textit{Paranthrene tabaniformis} by a 1:9 mixture of \(3Z,13Z\)-18:OH and \(3E,13Z\)-18:OH, \textit{Tinea nonimella} by a 1:9 mixture of \(3Z,13Z\)-18:OH and \(2E,13Z\)-18:OH, \textit{Monopis monachella} by a 1:9 mixture of \(3Z,13Z\)-18:OH and \(2E,13Z\)-18:OH, and \textit{Nemaxera betulinella} by a 9:1 mixture of \(2E,13Z\)-18:OAc and the corresponding alcohol. The periods of attraction to the traps were registered for males of \textit{S. serica} and \textit{Ch. bibioniformis} and were found to occur at 15–18 and 15–17 o’clock, local time, respectively.