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A revision of the Neotropical species of *Lucilia* Robineau-Desvoidy (Diptera: Calliphoridae)

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Abstract

A key to 23 species of Neotropical *Lucilia*, including six new species is given. Information is provided on all known *Lucilia* species found in the region, including the West Indies, Galápagos Islands, and Central and South America. The following six new species are described based on the examination of over 2700 adult specimens from Central and South America: *Lucilia albofusca* **sp. nov.** from southern Central America and northern South America, *Lucilia nitida* **sp. nov.** from Brazil, Peru and Venezuela, *Lucilia pulverulenta* **sp. nov.** from Central America (Honduras south to Panama) and South America (Colombia and Ecuador), *Lucilia rognesi* **sp. nov.** from Costa Rica, Honduras and Panama, *Lucilia vulgata* **sp. nov.** from South America (widespread from Venezuela to Argentina), and *Lucilia woodi* **sp. nov.** from Central America (Honduras south to Panama). The status of *Phaenicia japuhybensis* Mello, 1961 is clarified; it is considered a valid species of *Lucilia*. *Musca ochricornis* Wiedemann, 1830 is removed from its current synonymy with *Musca eximia* Wiedemann, 1819 and considered a valid species of *Lucilia*. *Lucilia mera* Shannon & Del Ponte, 1926 and *L. primavera* Shannon & Del Ponte, 1926 are synonymized with *L. ochricornis*, **syn. nov.** *Lucilia littoralis* Blanchard 1938 is synonymized with *L. eximia* (Wiedemann, 1819), **syn. nov.** Lectotypes are designated for *L. mera*, *L. primavera*, and *L. ochricornis*.

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