

Keanekaragaman polen pakan lebah tidak bersengat (*tetragonula aff. minor*) di kampus Universitas Indonesia, Depok = Diversity of pollen collected by stingless bee (*tetragonula aff. minor*) in University of Indonesia campus area

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Abstrak

Salah satu jenis lebah tidak bersengat yang dapat dijumpai di kampus Universitas Indonesia adalah *Tetragonula aff. minor*. Penelitian mengenai lebah tersebut perlu dilakukan untuk menunjang upaya konservasi. Penelitian yang dilakukan bertujuan untuk mengetahui keanekaragaman polen yang menjadi pakan lebah *Tetragonula aff. minor* yang dibiakkan di kampus Universitas Indonesia, Depok. Proses pengambilan sampel dilakukan pada bulan November 2019 pukul 09.30--13.30. Sampel polen dikoleksi dari korbikula lebah yang sedang melakukan perjalanan kembali ke sarang. Preparasi sediaan polen dilakukan dengan metode asetolisis. Sediaan polen kemudian diamati dan dihitung di bawah mikroskop cahaya pada perbesaran 10x10 dan 10x40. Hasil penelitian menunjukkan bahwa lebah *Tetragonula aff. minor* mengoleksi polen dari 10 jenis kelompok tumbuhan yaitu *Asystasia gangetica* (rumput israel), *Caesalpinia pulcherrima* (kembang merak), *Carica papaya* (Pepaya), *Cocos nucifera* (kelapa), *Dendrophthoe pentandra* (benalu), *Mimosa sp.* (putri malu), *Morinda citrifolia* (mengkudu), *Lagerstroemia sp.* (bungur), famili Cyperaceae, dan famili Poaceae. Nilai indeks keanekaragaman Shannon-Wiener adalah 1,431 dan nilai kemerataan 62,1%, menunjukkan keanekaragaman dan kemerataan sedang. Berdasarkan data tersebut diketahui bahwa lebah *Tetragonula aff. minor* memiliki spektrum diet polilekti dan menunjukkan perilaku konsisten dalam pemilihan bunga selama satu kali perjalanan pencarian makan.

.....One of stingless bee that can be found in University of Indonesia campus is *Tetragonula aff. minor*. Therefore, research about *T. aff. minor* has to be done to support conservation action. Research conducted to gather information about the diversity of pollen that collected by *T. aff. minor* in University of Indonesia, campus Depok area. Sample collected in November 2019 at 09:30--13:30. Pollen samples collected from the corbicula of stingless bee that traveling back to the hives. Pollen preparation has done by acetolysis method. After preparation, pollens are observed and counted under light microscope in 100x and 400x magnifications. Result shows that *T. aff. minor* collected pollens from 10 kind of plants; *Asystasia gangetica* (chinese violet), *Caesalpinia pulcherrima* (peacock flower), *Carica papaya* (papaya), *Cocos nucifera* (coconut), *Dendrophthoe pentandra* (mistletoe), *Mimosa sp.* (mimosa), *Morinda citrifolia* (noni), *Lagerstroemia sp.* (crape-myrtle), family of Cyperaceae, and Poaceae. Shannon-Wiener diversity index value is 1,431 and evenness value is 62,1%, classified as moderate diversity and evenness. Based on this research, it is known that *T. aff. minor* has polilecty diet spectrum and show individual floral constancy during a foraging trip.