Reprinted from "Annual Report of National Institute of Genetics (Japan)
No. 35, 1984," pp. 46–48 (1985)

Chromosome Observations on Tropical Ants from Indonesia

Hirotami Y. IMAI, Masao KUBOTA[1], William L. BROWN Jr.[2],
Masaaki IHARA[3], Machmud TOHARI[4], and Rafael I. PRANATA[4]

The senior author has been promoting a karyological survey of world ants. As a part of this project, IMAI and KUBOTA had a chance to survey chromosomes of Indonesian ants in cooperation with IHARA, TOHARI and PRANATA. Collection of ants and chromosome preparations were made from March 3 to March 15 in 1984. A total of 88 colonies including 4 subfamilies, 32 genera, and 64 species were examined. The colonies collected were labelled as HI84-(1 ~ 88) and their localities are as follows: Bogor (HI84-1 ~ 15, 44 ~ 52, 54 ~ 62, 71 ~ 88), Chibodas (HI84-16 ~ 43, 53), and Darmaga (HI84-63 ~ 70). The identification of species was made mainly by BROWN and partly by BOLTON (British Museum) for *Tetramorium*. One set of alcohol specimens was deposited with BIOTROP, which is maintained by PRANATA. The results are summmarized in Table 1.

Table 1. Chromosome numbers of Indonesian ants

Taxa (Colony number)	Chrom. number (n) $2n$
PONERINAE	
Discothyrea sp. near *bryanti* (HI84–56)	30
Leptogenys kraepelini (HI84–17, 24, 30, 31)	26
L. diminuta (HI84–7)	32
L. iridescens (HI84–57)	46
L. myops (HI84–13, 62)	48
L. peuqueti (HI84–6, 75)	54
Diacamma sp. (HI84–4)	66
Odontoponera transversa (HI84–86)	42
Pachycondyla astuta (HI84–25)	18
P. astuta (HI84–54)	22

1) Nakasone 13, Odawara, Kanagawa-ken, 250, Japan.
2) Department of Entomology, Cornell University, Ithaca, New York, 14853, U.S.A.
3) JICA Scientific Expert, Tropical Forest Program BIOTROP, Bogor, Indonesia.
4) Tropical Agricultural Pest Biology, BIOTROP, Bogor, Indonesia.

Table 1. (Continued).

Taxa (Colony number)	Chrom. number (n) $2n$
P. rubra (HI84–16, 34)	(10) 20
P. sp. near *obscurans* (HI84–64)	44
Ponera sp. (HI84–28)	12
Hypoponera pruinosa (HI84–58)	24
H. confinis (HI84–61)	38
Odontomachus latidens (HI84–23, 33)	32
O. simillimus (HI84–12, 44)	(22) 44
Anochetus modicus (HI84–22)	30
A. graeffei (HI84–5, 76)	38
MYRMICINAE	
Pheidole capellinii (HI84–2)	20
P. hortensis (HI84–37, 53)	20
P. binghami (HI84–40)	20
P. plagiaria (HI84–60)	20
P. sp. 5 (HI84–66)	18
P. sp. 6 (HI84–84)	18
P. sp. 7 (HI84–38, 43)	18
P. sp. 8 (HI84–39)	32
Crematogaster sp. **1** (HI84–74, 77)	24
C. sp. 2 (HI84–88) B-chromosome polymorphism	56/58
Meranoplus bicolor (HI84–11, 15)	16
Monomorium sp. 1 (HI84–47)	22
M. sp. 2 (HI84–51)	22
Oligomyrmex sp. 1 (HI84–69, 80)	34
O. sp. 2 (HI84–49)	42
Vollenhovia sp. (HI84–29)	36
Myrmicaria sp. (HI84–18, 21)	44
Myrmecina sp. 1 (HI84–32)	66
M. sp. 2 (HI84–19)	68
Tetramorium kheperra (HI84–81)*	14
T. brevidentatum (HI84–35, 36)*	(10) 20
T. adelphon (HI84–10)*	22
T. insolens (HI84–9, 14)*	22
T. pacificum (HI84–87)*	22
T. smithi (HI84–8)*	26
Smithistruma sp. (HI84–27, 71)	38
Kydris mutica (HI84–73)	36
Strumigenys doriae (HI84–20)	22
S. godeffroyi (HI84–72)	44

Table 1. (Continued).

Taxa (Colony number)	Chrom. number (n) $2n$
DOLICHODERINAE	
Dolichoderus bituberculatus (HI84–50)	30
Iridomyrmex anceps (HI84–48)	48
Tapinoma melanocephalum (HI84–3, 67)	10
Technomyrmex sp. 1 (HI84–83)	28
T. sp. 2 (HI84–78)	30
FORMICINAE	
Anoplolepis longipes (HI84–82)	34
Acropyga sp. (HI84–63)	32
Plagiolepis sp. (HI84–70)	18
Pseudolasius sp. (HI84–46)	30
Paratrechina longicornis (HI84–1)	(16)
P. sp. 2 (HI84–41)	30
P. sp. 3 (HI84–42, 68, 79, 85)	30
Camponotus sp. 1 (HI84–45, 52) Robertsonian polymorphism	38/39
C. sp. 2 (HI84–65)	38
Polyrhachis gribodoi (HI84–26)	48
P. illaudata (HI84–55, 59)	(14) 28

The *Tetramorium* species with asterisks indicates samples for which the determination has been checked and confirmed by Bolton.