TABLE 3

Some faunal characteristics of ponerine, cerapachyine, myrmicine, and dolichoderine genera occurring in tropical Asia and Melanesia. Further explanation in the text.

Genus	No. of species in central tropical Asia	No. of species originating in central tropical Asia	No. of Stage-I species originating in central tropical Asia	No. of species in New Guinea	No. of species originating in New Guinea	No. of Stage-I species originating in New Guinea	No. of Stage-I species present on New Guinea from all sources	Presence of endemics in other faunal regions
Amblyopone	7	7	0	1	0	0	1	+
Prionopelta	1	1	1	2	2	1	1	+
Myopopone	1	1	1	1	0	0	1	−
Mystrium	1	1	1	1	0	0	1	+
Rhytidoponera	0	0	0	12	12	1	1	+
Gnamptogenys	12	12	0	6	6	0	0	+
Proceratium	2	2	0	1	1	0	0	+
Discothyrea	2	2	0	1	1	1	1	+
Leptogenys	25	25	2	13	12	1	3	+
Anochetus	21	21	1	6	5	1	2	+
Odontomachus	8	8	2	17	14	3	5	+
Platythyrea	7	7	1	2	1	0	1	+
Bothroponera	19	19	1	2	?	?	?	+
Ectomomyrmex	13	13	0	6	6	1	1	−
Centromyrmex	1	1	0	0	0	0	0	+
Cryptopone	2	2	2	4	2	1	3	+
Diacamma	11	11	1	1	0	0	1	−
Emeryopone	1	1	0	0	0	0	0	−
Brachyponera	4	4	1	2	1	1	2	+
Mesoponera	2	2	0	2	2	1	1	+
Trachymesopus	4	4	2	3	1	1	3	+
Ponera	30	30	2	20	18	3	5	+
Pseudoponera	2	2	1	0	0	0	0	−
Myopias	6	6	0	14	14	0	0	−
Harpegnathos	2	2	0	0	0	0	0	−
Odontoponera	1	1	1	0	0	0	0	−
Cerapachys	12	12	0	9	9	1	1	+
Phyracaces	5	5	0	2	2	0	0	+
Lioponera	2	2	0	1	1	0	0	−
Simopone	2	2	0	0	0	0	0	−
Sphinctomyrmex	?	?	?	?	?	?	?	+
Crematogaster	70	70	1	26	25	4	5	+
Pheidole	81	81	2	58	56	4	5	+
Strumigenys	16	16	1	21	20	3	4	+
Hypoclinea	20	20	1	1	0	0	1	+
Monoceratoclinea	0	0	0	2	2	0	0	−
Leptomyrmex	0	0	0	3	3	1	1	+
Technomyrmex	10	10	1	2	1	0	1	+
Turneria	1	?	?	3	3	1	1	−
Iridomyrmex	1	0	0	13	8	2	7	+

In seeking an explanation for this phenomenon, we may look directly to the role of interspecific competition. There is excellent additional evidence to favor the hypothesis that competition is decisive. The Stage-I species on New Guinea include no closely related pairs. Stage-I species in the same