

List of PUBLICATIONS

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- Peer-reviewed Journals

- 1) **Roces F**, Protomastro JJ (1988) Prey availability and eclosion-help of callow workers in the formicine ant *Camponotus mus*. **Oecologia** 77:387-389
- 2) **Roces F**, Núñez JA (1989) Brood translocation and circadian variation of temperature preference in the ant *Camponotus mus*. **Oecologia** 81:33-37
- 3) **Roces F** (1990) Olfactory conditioning during the recruitment process in a leaf-cutting ant. **Oecologia** 83:261-262
- 4) **Roces F** (1990) Leaf-cutting ants cut fragment sizes in relation to the distance from the nest. **Animal Behaviour** 40:1181-1183
- 5) **Roces F**, Núñez JA (1993) Information about food quality influences load-size selection in recruited leaf-cutting ants. **Animal Behaviour** 45:135-143
- 6) **Roces F** (1993) Both evaluation of resource quality and speed of recruited leaf-cutting ants (*Acromyrmex lundí*) depend on their motivational state. **Behavioral Ecology and Sociobiology** 33:183-189
- 7) **Roces F**, Tautz J, Hölldobler B (1993) Stridulation in leaf-cutting ants: short-range recruitment through plant-borne vibrations. **Naturwissenschaften** 80:521-524
- 8) **Roces F**, Hölldobler B (1994) Leaf density and a trade-off between load-size selection and recruitment behavior in the ant *Atta cephalotes*. **Oecologia** 97:1-8
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- 14) **Roces F** (1995) Variable thermal sensitivity as output of a circadian clock controlling the bimodal rhythm of temperature choice in the ant *Camponotus mus*. ***Journal of Comparative Physiology A*** 177:637-643
- 15) **Roces F**, Hölldobler B (1995) Vibrational communication between hitchhikers and foragers in leaf-cutting ants (*Atta cephalotes*). ***Behavioral Ecology and Sociobiology*** 37:297-302
- 16) **Roces F**, Manrique G (1996) Different stridulatory vibrations during sexual behaviour and disturbance in the blood-sucking bug *Triatoma infestans* (Hemiptera: Reduviidae) ***Journal of Insect Physiology*** 42:231-238
- 17) **Roces F**, Núñez JA (1996) A circadian rhythm of thermal preference in the ant *Camponotus mus*: masking and entrainment by temperature cycles. ***Physiological Entomology*** 21:138-142
- 18) **Roces F**, Hölldobler B (1996) Use of stridulation in foraging leaf-cutting ants: mechanical support during cutting or short-range recruitment signal? ***Behavioral Ecology and Sociobiology*** 39:293-299
- 19) **Roces F**, Gnatzy W (1997) Reduced metabolic rate in crickets paralysed by a digger wasp. ***Naturwissenschaften*** 84:362-366
- 20) Josens RB, Farina W, **Roces F** (1998) Nectar feeding by the ant *Camponotus mus*: intake rate and crop filling as a function of sucrose concentration. ***Journal of Insect Physiology*** 44:579-585
- 21) **Roces F**, Blatt J (1999) Haemolymph sugars and the control of the proventriculus in the honey bee *Apis mellifera*. ***Journal of Insect Physiology*** 45:221-229
- 22) Josens R, **Roces F** (2000) Foraging in the ant *Camponotus mus*: nectar intake and crop filling depend on colony starvation. ***Journal of Insect Physiology*** 46:1103-1110
- 23) Kleineidam C, **Roces F** (2000) Carbon dioxide concentrations and nest ventilation in nests of the leaf-cutting ant *Atta vollenweideri*. ***Insectes Sociaux*** 47:241-248
- 24) **Roces F**, Kleineidam C (2000) Humidity preference for fungus culturing by workers of the leaf-cutting ant *Atta sexdens rubropilosa*. ***Insectes Sociaux*** 47:348-350
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- 38) Röschard J, **Roces F** (2003) Cutters, carriers and transport chains: distance-dependent foraging strategies in the grass-cutting ant *Atta vollenweideri*. *Insectes Sociaux* 50:237-244
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- 46) Cosarinsky MI, **Roces F** (2007) Neighbor leaf-cutting ants and mound-building termites: comparative nest micromorphology. ***Geoderma*** 141:224-234
- 47) Kleineidam C, Rössler W, Hölldobler B, **Roces F** (2007) Perceptual differences in trail-following leaf-cutting ants relate to body size. ***Journal of Insect Physiology*** 53:1233-1249
- 48) Bollazzi M, **Roces F** (2007) To build or not to build: circulating dry air organizes building responses for climate control in the leaf-cutting ant *Acromyrmex ambiguus*. ***Animal Behaviour*** 74:1349-1355
- 49) Schilman PE, **Roces F** (2008) Haemolymph sugar levels in a nectar-feeding ant: dependence on metabolic expenditure and carbohydrate deprivation. ***Journal of Comparative Physiology B*** 178:157-165
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- 60) Ruchty M, **Roces F**, Kleineidam CJ (2010) Detection of minute temperature transients by thermo-sensitive neurons in ants. ***Journal of Neurophysiology*** 104:1249-1256
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- 93) Arenas A, **Roces F** (2018) Appetitive and aversive learning of plants odors inside different nest compartments by foraging leaf-cutting ants. *Journal of Insect Physiology* 109:85-92
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- 97) Cosarinsky MI, Römer D, **Roces F** (2020) Nest turrets of *Acromyrmex* grass-cutting ants: micromorphology reveals building techniques and construction dynamics. *Insects* 11:140; doi:10.3390/insects11020140
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- Book Chapters

- 1) **Roces F**, Winter Y, v. Helversen O (1993) Concentration preference and water balance in a flower visiting bat, *Glossophaga soricina antillarum*. In: *Animal-plant Interactions in Tropical Environments* (Ed. by W Barthlott, CM

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- 3) Qiao F, **Roces F**, Schilling C, Wurmus H (2002) Cutting with flexible ultrasound transmission for minimally invasive surgery with biological inspiration. In: "**Actuator 2002**", Bremen, Germany, pp. 668-671.
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- 10) **Roces F** (2022) Vibrational communication outside and inside the nest in leaf-cutting ants. In: "**Biotremology: Physiology, Ecology, and Evolution**" (Eds. Hill P, Mazzoni V, Peljhan NS, Virant-Doberlet M & Wessel A), Springer Verlag, Germany, pp. 411-435.

-Other publications

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- Roces F** (2004) Unterirdische Pilzgärten mit raffinierter Belüftung – zur Architektur der Nester von Blattschneiderameisen. In: „*Blick*“, Universität Würzburg, Vol. 1, pp. 46-48.
- Roces F** (2022) Agricultoras subterráneas: la sorprendente vida de las hormigas cortadoras. *Revista Aves Argentinas* 65(3): 20-25.