

Biodiversity of the aculeate wasps (Hymenoptera: Aculeata) of the Arabian Peninsula

NEVEEN S. GADALLAH¹, DENIS J. BROTHERS² & KEVIN A. WILLIAMS³ (EDS.)

¹Entomology Department, Faculty of Science, Cairo University, Giza, Egypt. E-mail: n_gadallah@hotmail.com

²School of Life Sciences, University of KwaZulu-Natal, Private Bag X01, Scottsville, 32009 South Africa. E-mail: brothers@ukzn.ac.za

³Plant Pest Diagnostics Center, California Department of Food and Agriculture, 3294 Meadowview Road, Sacramento, CA 95832, USA. E-mail: Kevin.Williams@cdfa.ca.gov

005 Biodiversity of the aculeate wasps (Hymenoptera: Aculeata) of the Arabian Peninsula: Preface

NEVEEN S. GADALLAH, DENIS J. BROTHERS & KEVIN A. WILLIAMS

008 Biodiversity of the aculeate wasps (Hymenoptera: Aculeata) of the Arabian Peninsula: Overview

NEVEEN S. GADALLAH & DENIS J. BROTHERS

017 Biodiversity of the aculeate wasps (Hymenoptera: Aculeata) of the Arabian Peninsula: Apoidea (Spheciformes), Ampulicidae

NEVEEN S. GADALLAH

020 Biodiversity of the aculeate wasps (Hymenoptera: Aculeata) of the Arabian Peninsula: Apoidea (Spheciformes), Crabronidae

NEVEEN S. GADALLAH

074 Biodiversity of the aculeate wasps (Hymenoptera: Aculeata) of the Arabian Peninsula: Apoidea (Spheciformes), Heterogynaidae

NEVEEN S. GADALLAH

077 Biodiversity of the aculeate wasps (Hymenoptera: Aculeata) of the Arabian Peninsula: Apoidea (Spheciformes), Sphecidae

NEVEEN S. GADALLAH

091 Biodiversity of the aculeate wasps (Hymenoptera: Aculeata) of the Arabian Peninsula: Chrysidoidea, Bethylidae

NEVEEN S. GADALLAH, CELSO O. AZEVEDO & DENIS J. BROTHERS

101 Biodiversity of the aculeate wasps (Hymenoptera: Aculeata) of the Arabian Peninsula: Chrysidoidea, Chrysididae

PAOLO ROSA, NEVEEN S. GADALLAH & DENIS J. BROTHERS

122 Biodiversity of the aculeate wasps (Hymenoptera: Aculeata) of the Arabian Peninsula: Chrysidoidea, Dryinidae

MASSIMO OLMI

129 Biodiversity of the aculeate wasps (Hymenoptera: Aculeata) of the Arabian Peninsula: Chrysidoidea, Embolemidae

MASSIMO OLMI

131 Biodiversity of the aculeate wasps (Hymenoptera: Aculeata) of the Arabian Peninsula: Chrysidoidea, Sclerogibbidae

MASSIMO OLMI

- 134 Biodiversity of the aculeate wasps (Hymenoptera: Aculeata) of the Arabian Peninsula: Vespoidea, Bradynobaenidae**
NEVEEN S. GADALLAH & DENIS J. BROTHERS
- 141 Biodiversity of the aculeate wasps (Hymenoptera: Aculeata) of the Arabian Peninsula: Vespoidea, Mutillidae**
NEVEEN S. GADALLAH, ARKADY S. LELEJ & DENIS J. BROTHERS
- 153 Biodiversity of the aculeate wasps (Hymenoptera: Aculeata) of the Arabian Peninsula: Vespoidea, Pompilidae**
NEVEEN S. GADALLAH, CHRISTIAN SCHMID-EGGER & DENIS J. BROTHERS
- 174 Biodiversity of the aculeate wasps (Hymenoptera: Aculeata) of the Arabian Peninsula: Vespoidea, Sapygidae**
NEVEEN S. GADALLAH & DENIS J. BROTHERS
- 176 Biodiversity of the aculeate wasps (Hymenoptera: Aculeata) of the Arabian Peninsula: Vespoidea, Scoliidae**
NEVEEN S. GADALLAH & DENIS J. BROTHERS
- 182 Biodiversity of the aculeate wasps (Hymenoptera: Aculeata) of the Arabian Peninsula: Vespoidea, Tiphiidae**
NEVEEN S. GADALLAH & DENIS J. BROTHERS
- 191 Biodiversity of the aculeate wasps (Hymenoptera: Aculeata) of the Arabian Peninsula: Vespoidea, Vespidae**
JAMES M. CARPENTER & NEVEEN S. GADALLAH