

CHRYSOMELA newsletter

Dedicated to information about the Chrysomelidae

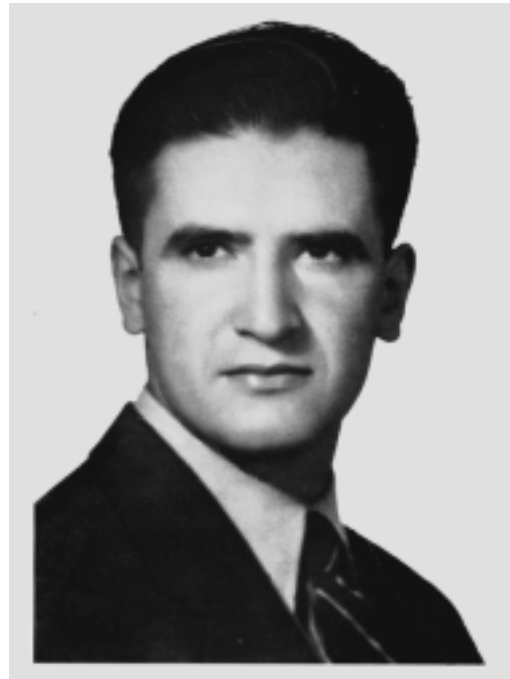
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Francisco de Asis Monrós



(See Story page 3)

Research Activities and Interests

Ebru Gül ASLAN (Turkey) is a Ph.D student interested in taxonomy, ecology, and diversity of Alticinae in Turkey. Her thesis focuses on comparative Alticinae biodiversity of three nature reserves located in southern Turkey. She is also interested in host plant relationships of flea beetles.

Janis Dickinson (USA) has done field and laboratory studies of multi-male mating, sperm competition, and lifetime reproductive success in *Labidomera clivicollis* (in TX and NY) and *Chrysochus cobaltinus* (CA). She is currently at the Cornell Lab of Ornithology, Ithaca, NY.

Renato Regalin (Italy) is working on several projects: taxonomic studies of the endemic Balkan Peninsula *Labidostomis* species; identity and redescription of some critical *Coptocephala* species (*C. arcasi* Baguena, *C. coptocephaloides* (Lacordaire)); compilation of Clytrinae list for Catalogue of the Palearctic Coleoptera (Eds. I. Lobl

& A. Smatana) in collaboration with Lev N. Medvedev; completing an annotated checklist of Clytrinae of Greece. He has future plans for a catalogue of Clytrinae of the World in collaboration with Lev N. Medvedev. He would like to exchange specimens of Clytrinae (identified or unidentified) from Afrotropical, Nearctic and Neotropical regions in exchange for Palearctic, Afrotropical, Oriental Clytrinae and various other Chrysomelidae from Mediterranean region.

Johan A. Stenberg (Sweden) is interested in trophic, indirect, and evolutionary interactions between insect herbivores and their enemies and host plants. Current study species include *Galerucella tenella* and *Altica engstroemi* (feeding on meadowsweet, *Filipendula ulmaria*), and *Galerucella calmariensis* (feeding on purple loosestrife, *Lythrum salicaria*).

The Editor's Page

Caroline S. Chaboo (USA)

Greetings Colleagues!

I hope everyone is well. It has been a long time since we featured Donaciinae and so it is a pleasure to read the contribution of Teiji Sota. Federico Agrain is a relative newcomer to chrysomelid research and will study Clytrini; he is already contributing to *CHRYSOMELA* by documenting some of our important South American chrysomelidologists. In a similar vein, Pierre Jolivet recaps the life and accomplishments of one European historical figure. The establishment of an electronic catalogue for Afrotropical Galerucinae is a giant advance for African chrysomelids.

If you attend the annual meeting of the Entomological Society of America, please attend all the chrysomelid presentations and do contact Shawn Clark about our informal lunch gathering (page 5). See you there!

Finally, please contribute to *CHRYSOMELA* 47 July 2007 issue (guideines on page 12)! As indicated in the previous issue, please use my address: chaboo@amnh.org. We are unable to use the previous 'chrysomela' address.

Best wishes for the holiday season and in the New Year!!

- CSC

New Chrysomelid Book

Contributions to Systematics and Biology of beetles celebrating the 80th birthday of Igor Konstantinovich Lopatin

Alexander Konstantinov, Alexey Tishechkin and Lyubomir Penev (editors)



Figure 1. Volume cover.

This volume (Fig. 1) is dedicated to Professor Igor Konstantinovich Lopatin in celebration of his 80th birthday. Igor Konstantinovich (Fig. 2) is a renowned taxonomist, prolific author, innovative biological explorer, and respected teacher who trained hundreds of

students. During his professional life he was (and still is) an inspiration and a mentor for scores of taxonomists. His tireless enthusiastic work shaped generations of Belarussian zoologists, and brought a wide and steady respect of systematics into a local scientific community. But most important, he taught us that collecting and studying beetles, small and big, bright and dull, is a noble thing to do.

Contributions assembled in this volume reflect Lopatin's intellectual breadth and diverse scientific interests. Some dwell on Lopatin's interest in biogeography of arid areas of the Palearctic.

They describe zoogeographic connections between desert faunas of Middle Asia, Iran, and Afghanistan, and leaf beetle fauna of the Hermon Mountains in Israel. Other



Figure 2. Israel, May 1999.

contributions reflect Lopatin's interest in host plant relationships, e.g. discovery of a rare crucifer in Turkey being eaten by an even rarer flea beetle.

Many contributions are revisions and keys for identification in nearly all major groups of beetles. Some are checklists, faunistic notes, ecological studies, and many contain descriptions of new taxa in many beetle families.

This book will be an indispensable source of information on beetle taxonomy, diversity, biogeography, and host plant relationships. It will be useful for entomologists, ecologists, entomology students, comparative morphologists and evolutionary biologists working across beetle taxa and anybody interested in beetle identification

-Alexander Konstantinov

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Donaciine collection in Manitoba and Ontario, 2006, and a proposal for phylogenetic study of the subfamily Donaciinae

Teiji Sota and Masakazu Hayashi (Japan)

We are studying the evolutionary history of the subfamily Donaciinae using molecular phylogenetic approaches in addition to analyses based on taxonomy, biogeography, and fossils. In studying the origin of Japanese endemic donaciine species, especially those in the genus *Plateumaris*, we conducted a field collection in Winnipeg, Manitoba and around Guelph, Ontario, late May, 2006. Since Askevold (1991) proposed close relationships between Japanese *Plateumaris* species with North American species based on morphological cladistics, we attempt to test this hypothesis using a molecular phylogenetic approach and sought for fresh specimens for DNA extraction.

In Winnipeg, where Ingold Askevold made his great contribution to the taxonomy and phylogeny of Donaciinae, his former supervisor, Rob Roughley at the University of Manitoba kindly helped us with collecting at Broken Head River, Askevold's favorite site. At this site and two others along the highway 15,

we could collect a total of 16 species including eight species of *Plateumaris*, seven species of *Donacia*, and *Neohaemonia nigricornis*. It was lucky that we could capture some beetles of *Neohaemonia nigricornis* (Fig. 1) rising from the water when disturbed.

After three-day collection in Winnipeg, we moved to Ontario and visited Steve Marshall at Guelph University who was introduced by Rob. Steve took us to a small wet site near Salem, his favorite site for insect photography, and let us collect *Plateumaris rufa* (Fig. 2), which is a likely sister species of Japanese endemic species such as *P. constricticollis*. For four days, we visited some interesting places around Guelph and collected eight species of *Plateumaris*, six species of *Donacia*, and two species of *Neohaemonia*. Again, we could find *Neohaemonia* at a pond connected to Luther Lake.

During this trip, we could collect 10 of the 17 species of *Plateumaris* in North America, which would be sufficient for analyzing the phylogeny of *Plateumaris* with all species from Eurasia (10 species).

However, the remaining seven species are yet to be collected for a complete analysis: *P. diversa*, *P. robusta*, *P. dubia*, *P. neomexicana*, *P. notmani*, *P. balli*, *P. shafferi*. Details of our collection will be published in Entomological Review of Japan (the Japan Coleopterological Society).

We are currently analyzing the sequence data of *Plateumaris* collected from the Holarctic region. An initial result revealed that there is a distinction between the European lineage (three endemic species) and the North American-Asian lineage (including two species with wide distribution in Eurasia). The differentiation of these lineages appears to have occurred during the Eocene based on a preliminary analysis of divergence time estimation.

Along with the phylogenetic analysis of *Plateumaris*, we hope to undertake a phylogenetic study of the subfamily Donaciinae including all known groups. In 1990, Askevold published a paper entitled "Reconstructed Phylogeny and Reclassification of the Genera of

Donaciinae (Coleoptera: Chrysomelidae)" (Quaestiones Entomologicae 26: 601-664). This paper provides a cladistic analysis of morphological characters which can be tested using molecular phylogeny. Because Donaciinae is a small group consisting of about 160 species in the world, the phylogenetic study may be achieved within a short time. However, collecting materials for DNA extraction (usually beetles preserved in 95-99% ethanol) is the most critical step. We could collect most of East Asian species of *Plateumaris* and *Donacia* but have not collected *Sominella* and *Macroprea*. We do not have an access to *Donaciasta* in Africa, Madagascar and India. We would be very happy if anyone could join us as a collaborator (and coauthor) of this phylogenetic analysis or could send specimens as an exchange. Please contact us if you are interested in the donaciine phylogeny and accessible to specimens of some of taxonomic groups as listed below.



Figure 1. *Neohaemonia nigricornis*.

Continued next page



Figure 2. *Plateumaris rufa*.

Genera (subgenera) of Donaciinae in Askevold (1990)

Plateumaris: We have not studied seven North American species as above mentioned.

Poecilocera: One species *P. harrisii* in North America.

Sominella: Four species in Asia and Europe; we have not studied.

Donaciella: One species *D. pubicollis* in North America; three species in the Palaearctic; we studied *D. clavipes*.

Donacia (Donaciomima): 22 species in North America and 52 species in the Palaearctic. We have studied <30 species.

Donacia (Donacia): 15 or more species in the world; 10 species in North America, and each one species in India and Africa.

Donacia (Cyphogaster): Nine species in Asia, Oceania, and India.

Donaciasta: Six species in India, Africa and Madagascar; we have not studied.

Macrolepa: Four or more species in the Palaearctic; difficult to collect in Japan.

Neohaemonia: Five species in North America; we have studied three species.



Lopatin in Tadjikistan, 1954 (page 2)

7th International Symposium on Chrysomelidae

The next International Symposium on Chrysomelidae (7th ISC) will be embedded in the frame of the 23rd International Congress of Entomology (ICE), July 6-12, 2008, in Durban, South Africa. It is preliminarily scheduled in the Section 'Special Issues'. No other details are known at this time. As the organizer of this symposium, I appeal to you for notification of your intention to contribute to the 7th ISC. Please keep me up to date even if you do or did already register in for the 23rd ICE, because I shall hear from the organizers only at a relatively late stage about the registrations for the 7th ISC. The proceedings of this symposium can most probably be published in a volume of our new series *Research on Chrysomelidae*.

I hope to see many of you in Durban in 2008.

- Michael Schmitt

Insect Collecting in Africa Permit Information

KENYA: Grebennikov, V.V. 2002. Beetle collecting in Kenya (Coleoptera). *Koleopterologische Rundschau* 27: 205-208.

NIGERIA: Medler, J.T. 1980. Insects of Nigeria - checklist and bibliography. *Memoirs of the American Entomological Institute* 30: 919 pp.

TANZANIA: Sorenson, L.L. & N. Scharff. Guidelines to conducting research in Tanzania. www.zmuc.dk/entoweb/guidelines.htm

International Date Book

- 2006 Latin American Animal Behavior Society meet, Mexico, Oct 8-12; www.animalbehavior.org
- 2006 Entomological Society of America, Dec 10-14, Indianapolis, USA; www.entsoc.org
Coleopterists Society, annual meeting
Informal Chrysomelid Lunch (S. Clark)
- 2007 Hennig Meeting, New Orleans, USA; June 28-July 2, www.cladistics.org
- 2007 Association for Tropical Biology and Conservation, Mexico, July 15-19; www.atbio.org
- 2007 Animal Behavior Society, July 21-26, USA; www.animalbehavior.org
- 2008 International Congress in Entomology, Durban, South Africa, July 6-12; <http://www.ice2008.org.za/>
7th International Symposium on Chrysomelidae
Informal Weekend Chrysomelid Hunt?

Continued next page

Francisco de Asis Monrós (1922-1958)

Federico Alejandro Agrain (Argentina)

I would like to pay tribute to an eminent Coleopterist Francisco Monrós. He was one of the most prolific chrysomelid workers of the 1900's and he wrote several articles that include taxonomic revisions of genera of almost every subfamily, his works were always accompanied by wonderful illustrations.

He arrived in Argentina when his parents left Europe due to the Spanish civil war. He achieved very important positions and awards in Argentina, but people who knew him noticed that he was just a "simple and happy man", bestowed with a great modesty, not expending his energy in authority demonstrations but saving it for his studies.

Staines (1995) published an interesting biographical sketch about him, and there are also some notes about his personal life. I prefer here to comment on some of his last intentions expressed in the introduction of his last work "The genera of Chrysomelidae" published in 1959.

This publication represents the first part of one of his greatest projects, to do a monographic work of every genus of Chrysomelidae, including identification keys, biological notes, distribution maps, etc. He wanted to call attention to the fact that Chrysomelidae is one of the largest families not only among insects, but among all life forms on earth, with 30,000 described species at that time.

Monrós regretted that there were not enough people in the world to handle their diversity and associated investigations. He said that all vertebrate species (excluding fishes) did not reach half of the number of leaf beetles and that fungi exist in similar numbers, being vertebrates a subphylum, fungi an entire kingdom, and Chrysomelidae just a family (an incredible species rich one). He argued that an army of investigators was working on Vertebrata and fungi and that there were a lot of fabulous specializations in these fields, whereas in his time there were only about a dozen people worldwide studying chrysomelids and they were trying to cover all its different aspects. That is why he started an "ants work" of collecting literature and specimens, knowing that a complete revision at species level was impossible, but that a generic-level monograph was much more feasible and could really help to compile and summarize the work already done at that time. With this information, decisions could be made about what should come next. Regrettably, his life was too short to see this work done. I really hope to see his challenge completed during my lifetime.

(Page 1 Image taken from Monrós 1959)

Literature about Monrós' life and work:

Blake, D. H. 1958. Francisco de Asis Monrós, 1922-1958. Proceedings of the Entomological Society of Washington 60: 188-189.

Blake, D. H. 1961. A note on the Monrós collection. Proceedings of the Entomological Society of Washington 63: 207-208.

Halfiter, G. 1958. Francisco Monrós 1922-1958. Ciencia, México. Revista Hispano-americana de ciencias puras y aplicadas 18: 152-153.

Martinez, A. 1958. Francisco de Asis Monrós (1922-1958). Neotropica. Notas zoológicas sudamericanas. Buenos Aires 4:64.

Monrós, F. 1959. Los géneros de Chrysomelidae. Opera Lilloana III. 336 p

Staines, C. H. 1995. Francisco de Asis Monrós: A perspective. Proceedings of the Entomological Society of Washington 97(4): 856-865.

Wygodzinsky, P. 1959. Francisco de Asis Monrós (1922-1958). Acta Zoológica Lilloana 17: XII-XXI.

Entomological Society of America 2006, Lunch Meeting

At the Entomological Society of America (ESA) annual meetings of past years, North American chrysomelid workers often met together to update each other about our leaf beetle projects and interests. Usually, we met at lunchtime, and many people would bring along something to eat. Although a few meetings were quite formal, with scheduled speakers etc., most were very informal. I thank Dave Furth who was usually the organizer of these meetings, and Catherine Duckett who organized two recent ones.

I suggest we meet again this year in Indianapolis, very informally. Unless someone else prefers a different time I suggest we meet about noon, Tuesday 12 December, in Room 204 of the Convention Center. I think many of us will be there for the beetle symposium (honoring Steve Ashe) that will just be ending. From there we can simply hunt for an unoccupied room that we could use. During the lunch hour, many rooms will likely be available.

Please talk with other chryso enthusiasts at the meeting, inviting them to join us.

- Shawn Clark

Julien Achard (1881-1925)

Pierre Jolivet (France)

Julien Achard was born in Lille, northern France, and died in Prague in Czechoslovakia. He studied in Paris and graduated from the Sorbonne. He developed an early interest in Entomology and Botany. He started on Cerambycidae and Endomychidae, but then specialized rapidly in Scaphidiidae and mostly Chrysomelidae.

At the age of 33 years, he joined the French army as a reservist captain in August 1914. He fought heroically and was seriously wounded during the war. He received many French, Belgium and Czech decorations and medals. At the end of the war in 1918 he went to Prague with the French legion and, in 1919, he married a Czech woman and joined the Czech Entomological Society. Their son Rene was born the following year in France. He learned Czech very quickly. He moved finally to Prague in 1921. He was soon elected President of the French Entomological Society and made an honorary member of the Czech Entomological Society.

Julien Achard published about 80 papers in various Czech, French, and Belgian journals, mostly on Chrysomelidae. He authored the sections on Lamprosominae, Chlamisinae and Sphaerocharinae (then considered as a chrysomelid subfamily) in Wytzman's Genera Insectorum. In Prague, 1922 he started the 10 volumes of "Fragments Entomologiques". Achard described many genera and species of chrysomelids. He separated, after Motschulsky, two well differentiated subgenera of the apterous, mountainous Neotropical genus *Elytrosphaera* with fused elytra, but related to the Doryphorini, not to *Timarcha*. He acquired a large library and collection from Reitter. He amassed a large collection base on collections around Prague and this was finally donated to the Prague Museum in 1926. He mainly made a big collection of *Timarcha*, which was the basis of Jan Bechyně's publications (around 1940s) and provided specimens for that latter's Ph. D. thesis.

Probably one consequence of the war was Julien Achard's poor health. He had serious heart problems and died of pneumonia at the age off 44, in December 1925. Several Czech generals and legion members were present at his funeral, as well as the prime minister, the French ambassador and the members of the Czech Entomological Society. He was a pioneer in chrysomelid entomology and an earnest follower of Chapuis, Lacordaire, Fairmaire or de

Marseul. Though his life was short, he left behind Jan Bechyně, a disciple who distinguished himself as a leading chrysomelidologist 25 years later. Achard was included in an exhibition on Prague entomologists when I visited the Prague Museum in 1950.

Achard has been overlooked by recent biographers of Entomology: Pamela Gilbert (1977), Reinhard Gaedike (1985), Robert Constantin (1992), Gordon Gordh and Headrick (2001). Robert Constantin quotes only few of his references, without any comment. Only two short notes by Koleska (1979) and Rambousek (1926) remembered him. I am much indebted to Jan Bezdek for his translation of

those notes from the Czech language. French references (Anon., 1925-1926; Gouillard, 2004; Lhoste, 1987) do not give details about his life and of all his short notes. The last two do not even mention his name.

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Constantin, R. 1992. Mémorial des Coléoptéristes français. Supplément 14 au Bulletin de l'ACOREP, Paris: 7.

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Koleska, Z. 1979. Seznam biografii Československých entomologů (entomologové nezijící). I. Zpravy Československé Společnosti Entomologické při CSAV 15 (1): 1-32.

Lhoste, J. 1987. Les Entomologistes français. 1750-1950. INRA. OPIE, Paris : 351 pp.

Rambousek, F. 1926. Julien Achard (posmrtná vzpomínka). Casopis Československé Společnosti Entomologické 23:1-3. CHRYSOMELA 47, December 2006



AfriGa – An illustrated electronic catalogue of Afrotropical Galerucinae (Chrysomelidae, Coleoptera)

Thomas Wagner (Germany)

An electronic catalogue with photographs of the primary types including all labels (for not yet revised taxa one syntype if applicable), a copy of the original publications, in case of revised taxa also a copy of the revisions are compiled for all described species of Afrotropical Galerucinae. Photos are currently available for about 1500 (87 %) of the 1750 taxa. Further data on publications, taxonomic acts, synonymies, type depositories and type localities are given. Data are available online under SysTax (<http://www.biologie.uni-ulm.de/systax/>).



Figure 1: Lectotype of *Monolepta africana* Jacoby, 1994.

History of Afrotropical Galerucinae

Galerucinae are one of most speciose beetle groups with worldwide about 6000 described species. In tropical Africa including Madagascar, about 1750 names have been published. The last comprehensive catalogue on the Galerucinae was published about thirty years ago (Wilcox 1971–1973). Most afrotropical species have been described between 1870 and 1950. Due to the history of natural sciences in Africa, most of the material, in particular type specimens, are deposited in European collections as in Berlin, London, Paris, Brüssel and Tervuren.

Recent studies on the taxonomy, biogeography and phylogeny on the most species rich galerucine genus *Monolepta* and further related groups from tropical Africa, showed many inconsistencies in the taxonomy of those beetles. In particular, studies on genital structures allow a much better identification of species and generic delimitation than was possible with the mainly insufficient original

descriptions, which are based on external morphology and coloration. Our own studies have led to many taxonomic changes including identification of many synonymys, and recognition of undescribed species (e.g. Bolz & Wagner 2005; Freund & Wagner 2003; Hasenkamp & Wagner 2000; Wagner 2000, 2003a, 2003b, 2005; Wagner & Kurtscheid 2005).

AfriGa

The aim of this project is to establish an online available catalogue on the afrotropical Galerucinae. A detailed knowledge on depositories and the identity of the



Figure 2. Lectotype with all labels.

primary types are basic data for any taxonomic study. Photos of type material can give valuable information on species identity, which will reduce time consuming museum visits and loan transactions.

A first version of the catalogue is now available in SYNTAX (Database System for Systematics and Taxonomy) under <http://www.biologie.uni-ulm.de/systax/>. Species can be found under the name of the original combination. The data comprise:

- photo of the primary type or one syntype specimen in high magnification (Fig. 1)
- photo with type specimen and all labels (Fig. 2)
- scan of the original publication (Fig. 3)
- details on depository, type status, secondary types, synonymys, etc.
- information on type locality, including coordinates.

Monolepta africana sp. nov.

Head, above pale brown, thorax subopaque, legs dark, antennae black; elytra uniformly red and closely punctate.

2. The base with two deep longitudinal excavations, the fourth and fifth joints of the antennae normal, the apex produced.

3. Lower portion of base smooth, narrow, forming a slight groove, antennae 11-jointed.

Length 3.1 mm.

4. Head impunctate at the vertex, the frontal tubercles obsolete, lower portion of face deeply excavated, the excavation divided by a central longitudinal edge; palpi black; antennae 11-jointed the length of the body, black, the first joint long and flattened at the apex, the second short, the third twice as long as the second, the fourth and fifth joints equal, the upper margin convex, the apex broadly produced, the following joints slender; thorax twice as long as long, the sides slightly narrowed at the base, base rounded in front, the surface rather smooth, impunctate, without depression; antennae black; elytra uniformly red and closely punctate, brown, their apices extending below the middle; subeltra and legs black, the first joint of the prothorax half as long as the others; anterior anal carinae absent.

Dist. Ende.

In this species the thorax is more transversely shaped than in generally the case with species placed in this genus; the entire structure of the head and that of the antennae is a similar exception; in spite of these differences I see no reason to separate the species from *Monolepta*; both cases may be covered by the structure of the head. The species is apparently not new to the locality where it was obtained.

Figure 3. Copy of the original publication of *Monolepta africana* Jacoby, 1994.

An example is given for *Monolepta africana* Jacoby, 1894 which is a junior synonym of *Afrocrania foveolata* (Karsch, 1882). For recently revised taxa, also a copy of the text, figures of external and genital characters, and distribution maps will be available in the near future. All photographed specimens have been marked with a specific label indicating the “AfriGa-No.”

Results in numbers

Literature sources checked: 321

Number of described galerucine species from Africa/Madagascar: 1722

Primary type specimens photographed in AfriGa:

1504 (87%)

as holotype: 618 lectotype: 231

neotype: 2 syntype: 653

Number of replacement names: 30

The missing 218 taxa could not yet located (e.g. a few smaller collections need to be visited) or are destroyed (e.g. fires in the collections in Hamburg, Lübeck and Lisbon).

The primary types photographed are in these collections:

BMNH, London: 363 MNHU, Berlin: 301

MRAC, Tervuren: 253 MNHN, Paris: 241

ZMUH, Hamburg: 116 IRSN, Brussels: 59

MCGD, Genova: 56 NHRS, Stockholm: 34

NHMB, Basel: 20 ZFMK, Bonn: 15

Further 8 collections with > 10 species each: 44

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Wagner, Th. 2005.

Revision of *Galerudolphia* Hincks, 1949 (Col.: Chrys.). Insect Systematics and Evolution 35: 361–400.

Freund, W. &

Wagner, Th. 2003.

Revision of *Bonesioides* Laboissiere, 1925 (Col., Chrys., Galerucinae), including its phylogenetical position, and a key to species. J. Natural History 37: 1915–1976.

Hasenkamp, R. &

Wagner, Th. 2000.

Revision of *Afromaculepta* gen. n., a monophyletic group of Afrotropical galerucinae leaf beetles (Coleoptera:

Chrysomelidae). Insect Systematics and Evolution 31: 3–26.

Wagner, Th. 2000. Revision of afrotropical *Monolepta* species (Col., Chrys., Galerucinae). Part I: Species with red and black coloured elytra, pronotum and head, with description of new species. Entomol. Zeits. 110: 226–237.

Wagner, Th. 2003a. Revision of afrotropical *Monolepta* Chevrolat, 1837 (Coleoptera, Chrysomelidae, Galerucinae). Part IV: Species with red head and thorax and black elytra or black elytra with red apex, with description of new species. Ann. Sci. Zool., Miscellaneous 49: 37–89.

Wagner, Th. 2003b. Present status of a taxonomic revision of afrotropical *Monolepta* and related groups (Galerucinae). Pp. 133–146 in: Furth, D.G. (ed.) Special Topics in Leaf Beetle Biology. Proceedings V. International Symposium on the Chrysomelidae, Foz do Iguacu 2000. Pensoft.

Wagner, Th. 2005. Revision of the *vincta* species-group of *Monolepta* Chevrolat, 1837 from Africa, Arabia and the Near East (Coleoptera, Chrysomelidae, Galerucinae). Bonner Zoologische Beiträge 52: 255–282.

Wagner, Th & Kurtscheid, A. 2005. Revision of *Candezea* Chapuis, 1879 (Coleoptera, Chrysomelidae, Galerucinae) from continental Africa. Journal of Natural History 39: 2591–2641.

Wilcox, J. A. 1971–1973. Chrysomelidae: Galerucinae. Pp. 1–664 in: Junk, W. (ed.) Coleopterorum Catalogus Suppl. 78, 's-Gravenhage, Junk.

Proceedings: 6th International Symposium on Chrysomelidae

The proceedings volume of the 6th International Symposium on the Chrysomelidae is released from the press. It is published as no 4 of vol. 54 in *Bonner zoologische Beiträge* and contains 12 contributions on 139 pages. It can be purchased from www.insecta.de (books@insecta.de) for 11.50 Euro each plus postage and handling.



The titles of the contributions are:

- Aslan, Irfan; Beenen, Ron & Özbek, Hikmet:** Biological aspects of *Galeruca circassica* Reitter, 1889 (Coleoptera: Chrysomelidae: Galerucinae) in relation to the weed *Cephalaria procera* Fish. and Lall. (Dipsacaceae) in Anatolia. Pp. 173-177.
- Beenen, Ron:** Translocation in leaf beetles (Coleoptera: Chrysomelidae). Pp. 179-199.
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