

## Orchid Research Newsletter No. 54 (July 2009)

The fifth volume of *Genera Orchidacearum* is being printed, now that the fourth (and thankfully final) set of proofs has been corrected and submitted. Reasons for the delay, as spelled out in the last issue of the *Orchid Research Newsletter*, can be summed up in two words: Maxillariinae and Oncidiinae. Had we chosen to maintain the *status quo* in *Maxillaria* as well as *Oncidium* and *Odontoglossum*, we probably could have published two years ago. But DNA sequencing underway at the Florida Museum of Natural History and the Royal Botanic Gardens, Kew, was producing strongly supported and congruent trees that clearly showed the polyphyly of those genera, so that the classifications and relationships would have been outdated and stale as soon as the volume appeared.

In this context, it might be appropriate here to discuss those principles that have guided contributors to *Genera Orchidacearum* in circumscribing genera. Throughout the series or even the same volume, should we expect a slavish, philosophical consistency in lumping and splitting? Or do we allow for another, mongrel option -- 'splimping', as Dressler (1981) as called it -- wherein the author splits in the group he or she is studying and lumps in other, less familiar groups? However, there is another method used in 21st century biosystematics, one that we have tried to follow in *Genera Orchidacearum*. Let's call this new mongrel 'splumping', wherein the systematist lumps and splits not according to any predispositions based on familiarity with a group (and the intuitive weighting that inevitably tags along like a remora) but according to a hierarchy of principles discussed so concisely and cogently by Backlund and Bremer (1998). Foremost among these is monophyly, which has dominated comparative biology for the last 30-40 years. Although some taxonomists have argued that paraphyletic taxa cannot be eliminated from Linnaean classification (Brummitt and Sosef, 1998), monophyly is absolutely critical in phylogenetic reconstructions and assessing evolutionary trends; to accept anything less is to introduce ambiguity (at the very least) and loss of information into classifications and nomenclature. Most orchid phylogeneticists accept monophyly, but problems and disagreements arise over whether or not we should elevate infrageneric taxa to generic rank. Should we, for instance, recognize the many sections of *Dendrobium*, *Bulbophyllum*, and *Masdevallia* as distinct genera?

This is where the secondary principles of Backlund and Bremer (1998) come into play, not necessarily listed in order of importance: 1) maximizing stability; 2) maximizing phylogenetic information (minimizing

redundancy); 3) maximizing support for monophyly; and 4) maximizing ease of identification. Although all of these are relevant in most systematic decisions, some principles might be given extra consideration under certain circumstances. Maximizing stability and ease of identification are particularly important in treating those large genera that have been widely hybridized such as *Dendrobium* and *Masdevallia*, but only after monophyly is achieved. On the other hand, maximizing both phylogenetic information and monophyly should guide us in deciding whether to accept monospecific genera or monogeneric subtribes or tribes.

In the end, once monophyly is achieved, phylogenetic classification becomes a subjective undertaking. But that does not mean that it should occur in a consensual vacuum -- without rules, without regard for the needs of society. After all, it is society that will determine the success or failure of that classification simply by usage.

**Alec Pridgeon**

### Literature cited

- Backlund, A. and Bremer, K. 1998. To be or not to be -- principles of classification and monotypic plant families. *Taxon* 47: 391-400.
- Brummitt, R. K. and Sosef, M. S. M. 1998. Paraphyletic taxa are inherent in Linnaean classification -- a reply to Freudenstein. *Taxon* 47: 411-412.
- Dressler, R. L. 1981. *The Orchids: Natural History and Classification*. Harvard University Press, Cambridge, Massachusetts.

---

### News from Correspondents

Please submit any news about newly completed research, future research plans and needs, change of address, upcoming or recent fieldwork, etc. to David Roberts (d.roberts@kew.org). Graduate students are especially encouraged to share the subjects of their thesis or dissertation with the international community. We will print submissions in the format below from the last issue. Many thanks to those who have contributed.

**Mario Blanco** (Herbarium, Florida Museum of Natural History, University of Florida, 385 Dickinson Hall. P. O. Box 117800, Gainesville, Florida 32611-7800; e-mail: mblanco@flmnh.ufl.edu) has written to report that the National Orchid Conservation Center in Guangdong, China, has recently registered its herbarium (as NOCC) in *Index Herbariorum*. More information is available from:

<http://sweetgum.nybg.org/ih/herbarium.php?irn=155684>.

---

## Upcoming Conferences

We welcome any news about future conferences for promotion here. Please send details to David Roberts ([d.roberts@kew.org](mailto:d.roberts@kew.org)) as far in advance of the event as possible, remembering that the *Orchid Research Newsletter* is published only in January and July of each year.

---

## Recent Orchid Nomenclature

New orchid names may now be accessed on the IPNI website: ([www.ipni.org/ipni/plantsearch?request\\_type=search&output\\_format=query&ret\\_defaults=on](http://www.ipni.org/ipni/plantsearch?request_type=search&output_format=query&ret_defaults=on)) Click on "Show additional search items" on the right-hand side of the screen. After the search page appears, type in **Orchidaceae** under family name and (for example) **2005-11-30** under "Record date" and "Added since." This will pull up a list of all names added to the IPNI database since 30 November 2005.

---

## Recent Literature

We are grateful to Ann McNeil and Margaret Ramsay for providing citations for the following publications received between 1 January and 1 July 2009.

©Copyright: The following data are copyright © the Board of Trustees of the Royal Botanic Gardens, Kew. All rights reserved (see the Home page at [www.kew.org/](http://www.kew.org/)).

### Anatomy and morphology

Chemisquy, M. A., Prevosti, F. J., and Morrone, O. 2009. Seed morphology in the tribe Chloraeae (Orchidaceae): combining traditional and geometric morphometrics. *Bot. J. Linn. Soc.* 160: 171-183.

Colleta, R. C. L. D. and Silva, I. V. 2007. Morfoanatomia foliar de microorquídeas de *Ornithocephalus* Hook. e *Psychmorchis* Dodson & Dressler. [Leaf anatomy of micro-orchids of *Ornithocephalus* Hook. and *Psychmorchis* Dodson & Dressler.] *Acta Bot. Bras.* 21: 1068-1076.

Gamarra, R., Galan, P., Herrera, I., and Ortunez, E. 2008. Seed micromorphology supports the splitting of *Limnorchis* from *Platanthera* (Orchidaceae). *Nord. J. Bot.* 26: 61-65.

Kurzweil, H., Weston, P. H., and Perkins, A. J. 2005. Morphological and ontogenetic studies on the gynostemium of some Australian members of Diurideae and Cranichideae (Orchidaceae). *Telopea* 11: 11-33.

Mayer, J. L. S., Ribas, L. L. F., Bona, C., and Quoirin, M. 2008. Anatomia comparada das folhas e raízes de *Cymbidium* Hort. (Orchidaceae) cultivadas *ex vitro* e *in vitro*. [Comparative leaf and root anatomy of *ex vitro* and *in vitro* cultured *Cymbidium* Hort. (Orchidaceae) plants.] *Acta Bot. Bras.* 22: 323-332.

Meng, Q-W. and Luo, Y-B. 2008. A new species of *Galearis* (Orchidinae: Orchidaceae) from Sichuan, China. *Bot. J. Linn. Soc.* 158: 689-695.

Pabon-Mora, N. and Gonzalez, F. 2008. Floral ontogeny of *Telipogon* spp. (Orchidaceae) and insights on the perianth symmetry in the family. *Int. J. Pl. Sci.* 169: 1159-1173.

Pansarin, E. R., Salatinom, A., and Pereiram, A. S. 2008. Micromorphological and chemical characteristics of cuticular waxes of *Cleistes* (Orchidaceae, Pogonieae). *Bol. Bot. Univ. Sao Paulo* 26: 79-91.

Stern, W. L. and Carlswald, B. S. 2008. Vegetative anatomy of Calypsoeae (Orchidaceae). *Lankesteriana* 8: 105-112.

### Cytogenetics

Bartolo, G., D'Emerico, S., Pulvirenti, S., and Terrasi, M. C. 2006. Chromosomal structure and heterochromatin distribution in *Epipactis meridionalis* Baumann & Lorenz (Orchidaceae). *J. Eur. Orchideen* 38: 33-38.

Bartolo, G., D'Emerico, S., Pulvirenti, S., Terrasi, C., and Stuto, S. 2004. Studio citotassonomico su *Epipactis aspromontana* (Orchidaceae) mediante tecnica Feulgen e metodiche di bandeggio con Giemsa. (Cytotaxonomical study on *Epipactis aspromontana* (Orchidaceae) by Feulgen and C-banding techniques.) *Inform. Bot. Ital.* 36: 458-459.

Bernados, S., Garcia Barriuso, M., and Amich, F. 2005. New chromosome counts in Iberian orchids. *J. Eur. Orchideen* 37: 639-650.

D'Emerico, S., Pignone, D., Bartolo, G., Pulvirenti, S., Terrasi, C., Stuto, S., and Scrugli, A. 2005. Karyomorphology, heterochromatin patterns and evolution in the genus *Ophrys* (Orchidaceae). *Bot. J. Linn. Soc.* 148: 87-99.

### Ecology

Gao, Q., Li, S-Y., and Hong, H. 2009. Structure and annual changing pattern of mycorrhizae of four *Cypripedium* species. *Guihaia* 29: 187-191.

Roberts, D. L. and Bateman, R. M. 2007. Do ambush predators prefer rewarding or non-rewarding orchid inflorescences? *Biol. J. Linn. Soc.* 92: 763-771.

### Micropropagation/seed germination

Diaz, M. D. S. and Alvarez, C. C. 2009. Plant regeneration through direct shoot formation from leaf cultures and from protocorm-like bodies derived from callus of *Encyclia mariae* (Orchidaceae), a threatened Mexican orchid. *In Vitro Cell. Developmental Biology-Pl.* 45: 162-170.

Dutra, D., Kane, M. E., and Richardson, L. 2009. Asymbiotic seed germination and *in vitro* seedling development of *Cyrtopodium punctatum*: a propagation protocol for an endangered Florida native orchid. *Pl. Cell Tissue Organ Cult.* 96: 235-243.

Flores-Escobar, G., Legaria-Solano, J. P., Gil-Vasquez, I., and Colinas-Leon, M. T. 2008. *In vitro* propagation of *Oncidium stramineum* Lindl., an endangered endemic Mexican orchid. *Revista Chapingo Ser. Ci. Forest. Ambiente* 14: 347-353.

Gow, W. P., Chen, J. T., and Chang, W. C. 2009. Effects of genotype, light regime, explant position and orientation on direct somatic embryogenesis from leaf explants of *Phalaenopsis* orchids. *Acta Physiol. Plantarum* 31: 363-369.

Johnson, T. R. and Kane, M. E. 2007. Asymbiotic germination of ornamental *Vanda*: *in vitro* germination and development of three hybrids. *Pl. Cell Tissue Organ Cult.* 91: 251-261.

Kishor, R. and Sharma, G. J. 2009. Intergeneric hybrid of two rare and endangered orchids, *Renanthera imschootiana* Rolfe and *Vanda coerulea* Griff. ex L. (Orchidaceae): synthesis and characterization. *Euphytica* 165: 247-256.

Mahendran, G. and Bai, V. N. 2009. Mass propagation of *Satyrium nepalense* D. Don. -- a medicinal orchid via seed culture. *Sci. Hort.* 119: 203-207.

Medina, R. D., Flachsland, E. A., Gonzalez, A. M., Terada, G., Faloci, M. M., and Mroginski, L. A. 2009. *In vitro* tuberization and plant regeneration from multinodal segment culture of *Habenaria bractescens* Lindl., an Argentinean wetland orchid. *Pl. Cell Tissue Organ Cult.* 97: 91-101.

Sgarbi, E., Grimaudo, M., and Del Prete, C. 2009. *In vitro* asymbiotic germination and seedling development of *Limodorum abortivum* (Orchidaceae). *Pl. Biosystems* 143: 114-119.

Soares, J. D. R., de Araujo, A. G., Pasqual, M., Rodrigues, F. A., and de Assis, F. A. 2009. Salts concentrations of medium Knudson C and gibberellic acid in *in vitro* growth orchid plantlets. *Ci. Rural* 39: 772-777.

Taniguchi, H., Katsumi, M., Yamamoto, Y., Tatsumi, Y., Sano, C. M., Choi, Y. E., and Sano, H. 2008. *In vitro* proliferation and genetic diversity of *Cypripedium macranthos* var. *rebunense*. *Pl. Biotechnol.* 25: 341-346.

Vinogradova, T. N. 2008. Some peculiarities of propagation biology of *Neottia asiatica* (Orchidaceae) from Petropavlovsk-Kamchatsky environs. *Bot. Zh.* 93: 541-552.

Yam, T. W. and Arditti, J. 2009. History of orchid propagation: a mirror of the history of biotechnology. *Pl. Biotechnol. Rep.* 3: 1-56.

Yoon, Y. J., Mobin, M., Hahn, E. J., and Paek, K. Y. 2009. Impact of *in vitro* CO<sub>2</sub> enrichment and sugar deprivation on acclimatory responses of *Phalaenopsis* plantlets to *ex vitro* conditions. *Environm. Exp. Bot.* 65: 183-188.

### Molecular biology

Chang, C. C., Chang, C. C., Chaw, S. M., Lin, H. C., Lin, I. P., Chow, T. Y., Chen, H. H., Chen, W. H., Cheng, C. S., Lin, C. Y., and Liu, S. M. 2006. The chloroplast genome of *Phalaenopsis aphrodite* (Orchidaceae): comparative analysis of evolutionary rate with that of grasses and its phylogenetic implications. *Molec. Biol. Evol.* 23: 279-291.

Chen, D., Guo, B., Hexige, S., Zhang, T., Shen, D., and Ming, F. 2007. SQUA-like genes in the orchid *Phalaenopsis* are expressed in both vegetative and reproductive tissues. *Planta* 226: 369-380.

Erbar, C. 2007. Current opinions in flower development and the evo-devo approach in plant phylogeny. *Plant Syst. Evol.* 269: 107-132.

### Paleobotany

Conran, J. G., Bannister, J. M., and Lee, D. E. 2009. Earliest orchid macrofossils: Early Miocene *Dendrobium* and *Earina* (Orchidaceae: Epidendroideae) from New Zealand. *Amer. J. Bot.* 96: 466-474.

## Palynology

Freudenstein, J. V. 2008. A historical perspective on orchid pollinium and pollen characters. *Selbyana* 29: 1-5.

Pupulin, F. and Karremans, A. 2008. The orchid pollinaria collection at Lankester Botanical Garden, University of Costa Rica. *Selbyana* 29: 69-86.

## Physiology

Nepi, M. and Stpiczynska, M. 2007. Nectar resorption and translocation in *Cucurbita pepo* L. and *Platanthera chlorantha* (Custer) Rchb. *Pl. Biol.* 9: 93-100.

Yap, Y-M., Loh, C-S., and Ong, B-L. 2008. Regulation of flower development in *Dendrobium crumenatum* by changes in carbohydrate contents, water status and cell wall metabolism. *Sci. Hort.* 119: 59-66.

## Pollination

Larsen, M. W., Peter, C., Johnson, S. D., and Olesen, J. M. 2008. Comparative biology of pollination systems in the African-Malagasy genus *Brownleea* (Brownleeinae: Orchidaceae). *Bot. J. Linn. Soc.* 156: 65-78.

Liu, H., Luo, Y.-B., Pemberton R. W., Luo, D., and Liu, S.-Y. 2009. New hope for Chinese wild orchids. *Oryx* 43: 69.

Mant, J., Peakall, R., and Weston, P. H. 2005. Specific pollinator attraction and the diversification of sexually deceptive *Chiloglottis* (Orchidaceae). *Pl. Syst. Evol.* 253: 185-200.

Pemberton, R., Collins, T., and Koptur, S. 2008. An Asian orchid, *Eulophia graminea* (Orchidaceae: Cymbidieae), naturalizes in Florida. *Lankesteriana* 8: 5-14.

Pemberton, R. W. 2007. An orchid bee naturalizes in Florida; implications for orchids and other plants. *Orchids* 76: 446-448.

Pemberton, R. W. 2007. Invasive orchid bee, *Euglossa viridissima*, pollinates the ornamental orchid (*Guarianthe skinneri*) in Florida. *Lankesteriana* 7: 461-468.

Pemberton, R. W. 2008. Pollination of the ornamental *Oncidium sphacelatum* by the naturalized oil-collecting bee (*Centris nitida*) in Florida. *Selbyana* 29: 87-91.

Pemberton, R. W. and Liu, H. 2008. Potential of invasive and native solitary specialist bee pollinators to help restore the rare cowhorn orchid (*Cyrtopodium punctatum*) in Florida. *Biological Conservation* 141:

1758-1764.

Pemberton, R. W. and Wheeler, G. S. 2006. Orchid bees don't need orchids: evidence from the naturalization of an orchid bee in Florida. *Ecology* 87: 1995-2001.

Stokl, J., Paulus, H., Dafni, A., Schulz, C., Francke, W., and Ayasse, M. 2005. Pollinator attracting odour signals in sexually deceptive orchids of the *Ophrys fusca* group. *Pl. Syst. Evol.* 254: 105-120.

Tyteca, D., Rois, A. S., and Vereecken, N. J. 2006. Observations on the pollination of *Ophrys fuciflora* by pseudocopulating males of *Phyllopertha horticola* in northern France. *J. Eur. Orchideen* 38: 203-214.

## Systematics and distribution

Adams, P. B., Burke, J. M., and Lawson, S.D. 2006. A review of the taxonomy and relationships of the *Dendrobium speciosum* complex (Orchidaceae), and recognition of two new taxa. *Telopea* 11: 195-232.

Akhalkatsi, M., Baumann, H., Lorenz, R., Mosulishvili, M., and Peter, R. 2005. Beitrage zur Kenntnis kaukasischer Orchideen. (Contributions to the knowledge of Caucasian orchids.) *J. Eur. Orchideen* 37: 889-914.

Amardeilh, J. P., Demange, M., Dusak, F., and Scappaticci, G. 2005. Combinaisons nouvelles pour les Orchidaceae de la flore de France. *Orchidophile* 36: 103-105.

Astier, J. 2005. A propos de l' *Ophrys philippi* Grenier. *Orchidophile* 36: 217-218.

Authier, P. 2006. Chasse-croise chez les *Ophrys* de Bulgarie. *Orchidophile* 37: 41-47.

Bartolo, G. and Pulvirenti, S. 2005. Le Orchidee della Sicilia: aggiornamento della check-list. (The Sicilian orchids: a revision of the checklist.) *J. Eur. Orchideen* 37: 585-623.

Bateman, R. M., Rudall, P. J., and James, K. E. 2006. Phylogenetic context, generic affinities and evolutionary origin of the enigmatic Balkan orchid *Gymnadenia frivaldii* Hampe & Griseb. *Taxon* 55: 107-118.

Batista, J. A. N. and Bianchetti, L. B. 2005. Two new taxa in *Cyrtopodium* (Orchidaceae) from southern Brazil. *Darwiniana* 43: 74-83.

Batista, J. A. N., Bianchetti, L. de B., and Pellizaro, K. F. 2005. Orchidaceae da Reserva Ecologica do Guara, DF, Brasil. (Orchidaceae of the Reserva Ecologica do

- Guara, Distrito Federal, Brazil.) *Acta Bot. Brasil.* 19: 221-232.
- Baumann, B. and Baumann, H. 2005. Beitrage zur Kenntnis der Orchideenflora Nordwestafrikas. (Contributions to the knowledge of the orchid flora of north-west-Africa.) *J. Eur. Orchideen* 37: 915-938.
- Baumann, H. and Lorenz, R. 2005. Beitrage zur Taxonomie europaischer und mediterraner Orchideen. (Contributions to the taxonomy of European and Mediterranean orchids.) *J. Eur. Orchideen* 37: 705-743.
- Baumann, H. and Lorenz, R. 2005. Beitrage zur Taxonomie europaischer und mediterraner Orchideen, Teil 2. (Contributions to the taxonomy of European and Mediterranean orchids, part 2.) *J. Eur. Orchideen* 37: 939-974.
- Baumann, H. and Lorenz, R. 2006. Die Sektionen der Gattung *Orchis* L. (The sections of the genus *Orchis* L.) *J. Eur. Orchideen* 38: 173-183.
- Baumann, H. and Lorenz, R. 2006. Typisierung von *Orchis laxiflora* Lam. subsp. *dielsiana* Soo. (Typification of *Orchis laxiflora* Lam. subsp. *dielsiana* Soo.) *J. Eur. Orchideen* 38: 184-186.
- Baumbach, N. 2005. *Dracontia tuerckheimii* (Schltr.) Luer 2004. *Orchidee (Hamburg)* 56: 583-584.
- Baumbach, N. 2005. *Epidendrum*-Arten im Guayana-Hochland von Venezuela. *Orchidee (Hamburg)* 56: 441-446.
- Baumbach, N. 2005. *Lepanthes ctenophora* Luer et Hirtz. *Orchidee (Hamburg)* 56: 340.
- Bell, S., Branwhite, B., and Driscoll, C. 2005. *Thelymitra adorata* Jeanes ms (Orchidaceae): population size and habitat of a highly restricted terrestrial orchid from the Central Coast of New South Wales. *Orchadian* 15: 6-10.
- Bergman, B., Draleva, S., and Uzunov, S. 2004. *Ophrys reinholdii* (Orchidaceae) - a new species for the Bulgarian flora. *Phytologia Balcanica* 10: 175-177.
- Bhaumik, M. and Pathak, M. K. 2004. *Neottia alternifolia* (King & Pantl.) Szlach. - a new orchid record to Arunachal Pradesh. *J. Orchid Soc. India* 18: 59-61.
- Borba, E. L. 2003. Novas combinacoes em *Acianthera (Pleurothallis s.l.)*; Orchidaceae: Pleurothallidinae) ocorrentes nos campos rupestres brasileiros. (New combinations in *Acianthera (Pleurothallis s.l.)*; Orchidaceae: Pleurothallidinae) occurring in the Brazilian campos rupestres.) *Sitientibus, Cienc. Biol.* 3: 22-25.
- Breret, M. 2005. Les orchidees de l' Ile d'Oleron. *Orchidophile* 36: 207-216.
- Brown, P. M. 2005. Additions and emendations to 'The wild orchids of North America, north of Mexico'. *Sida, Contrib. Bot.* 21: 2297-2319.
- Burri, C. and Broggi, M. F. 2005. Zur Orchideenflora der kroatischen Insel Vis. (A contribution to the orchid flora of the Croatian Island Vis.) *J. Eur. Orchideen* 37: 749-774.
- Carlsward, B. S., Whitten, W. M., Williams, N. H., and Bytebier, B. 2006. Molecular phylogenetics of Vandeeae (Orchidaceae) and the evolution of leaflessness. *Amer. J. Bot.* 93: 770-786.
- Castro Neto, V. P., and de Lacerda, K. G. 2005. *Carria* Castro & Lacerda: a new genus related to *Baptistonia* Barb. Rodr. *Orchids* 74: 692-694.
- Cavestro, W. and Ormerod, P. 2005. Une nouvelle espece de *Chiloschista* de Thaïlande: *Chiloschista rodriguezii* Cavestro & Ormd. *Orchidophile* 36: 179-183.
- Chipka, S. A. and Izquierdo, J. A. 2005 [2006]. A new catalogue of Orchidaceae for Saba, N.A. *Selbyana* 26: 14-22.
- Chiron, G. R. and Castro Neto, V. P. 2005. Revision du genre *Baptistonia* - 2. *Richardiana* 5: 169-193.
- Choi, S. H., Kim, M. J., Lee, J. S., and Ryu, K. H. 2006. Genetic diversity and phylogenetic relationships among and within species of oriental cymbidiums based on RAPD analysis. *Sci. Hort.* 108: 79-85.
- Choltco, T. C. 2005. *Trichoglottis rosea*. Distinguishing *Trichoglottis rosea* and *Trichoglottis latisejala*, two often-confused species. *Orchids* 74: 686-687.
- Christenson, E. A. 2005. Orchids of Peru: *Epidendrum hemiscleria*. *Orchid Rev.* 113: 248-251.
- Christenson, E. A. 2005. *Phymatochilum*, un nouveau genre monotypique du Bresil (Orchidaceae: Oncidiinae). *Richardiana* 5: 194-196.
- Christenson, E. A. 2005. *Staurochilus leytensis*, a Philippine segregate of *Staurochilus fasciatus* (Orchidaceae: Aeridinae). *Sida, Contrib. Bot.* 21: 2051-2052.

- Chung, S. Y., Choi, S. H., Kim, M. J., Yoon, K. E., Lee, G. P., Lee, J. S., and Ryu, K. H. 2006. Genetic relationship and differentiation of *Paphiopedilum* and *Phragmipedium* based on RAPD analysis. *Sci. Hort.* 109: 153-159.
- Chung, S. W. and Hsu, T. C. 2006. *Gastrodia shimizuana*, a newly recorded of *Gastrodia* (Orchidaceae) in Taiwan. *Taiwania* 51: 50-52.
- Chung, S. W., Hsu, T. C., Hung, L. Y., and Yang, C. K. 2005. The genus of *Acanthephippium* Blume (Orchidaceae) in Taiwan. *Taiwania* 50: 200-208.
- Claessens, J. and Kleynen, J. 2006. Anmerkungen zur Hybridbildung bei *Platanthera bifolia* und *P. chlorantha*. (Notes on the hybridization of *Platanthera bifolia* and *P. chlorantha*). *J. Eur. Orchideen* 38: 3-28.
- Coleman, R. A. and Baker, M. 2006. *Microthelys rubrocallosa*: a new addition to the orchid flora of the United States. *Orchids* 75: 56-57.
- Coleman, R. A. and Baker, M. 2006. *Microthelys rubrocallosa* (Robins. and Greenm.) Garay (Orchidaceae): a new orchid for the United States. *Native Orchid Conf. J.* 3: 18-20.
- Cortizo, C., Perille, M., Pimentel, M., Romero, D., and Sahuquillo, E. 2005. Nuevos datos corológicos para la familia Orchidaceae en Galicia (N.O. Peninsula Iberica). *Nova Acta Cient. Compostel., Biol.* 14: 95-99.
- Cribb, P. 2005. Little known Chinese cypripediums. *J. Brit. Paphiopedilum Soc.* 4: 10-14.
- Cribb, P. and Ormerod, P. 2005 [2006]. A new *Robiquetia* (Orchidaceae) from Tonga. *Kew Bull.* 60: 609-611.
- Cribb, P., Roberts, D., and Hermans, J. 2005 [2006]. Distribution, ecology, and threat to selected Madagascan orchids. *Selbyana* 26: 125-133.
- Cruz, D. T. da, Borba, E. L., and van den Berg, C. 2003. O genero *Cattleya* Lindl. (Orchidaceae) no estado da Bahia, Brasil. (The genus *Cattleya* Lindl. (Orchidaceae) in Bahia State, Brazil.) *Sitientibus, Cienc. Biol.* 3: 26-34.
- Dalstrom, S. 2007 [2008]. A new and vegetatively unique, small-flowered *Cyrtorchilum* (Orchidaceae, Oncidiinae), from Peru. *Selbyana* 28: 106-108.
- Dathe, S. and Dietrich, H. 2006. Comparative molecular and morphological studies in selected Maxillariinae orchids. *Willdenowia* 36 - Special Issue: 89-102.
- De, A. and Hajra, P. K. 2004. Taxonomic study of the genus *Vanda* (*sensu lato*) in India. *J. Orchid Soc. India* 18: 25-40.
- De Pisi, E., Fusacchia, P., Morelli, L., and Bernardini, A. 2005. Primi dati sulla presenza delle Orchidaceae nel Parco Regionale dei Monti Simbruini (Lazio). *GIROS Notizie* no. 28: 17-23.
- Deb, C. R., Jamir, N. S., and Temjensangba, S. 2003. Orchid diversity of Nagaland - a revised status. *J. Orchid Soc. India* 17: 5-15.
- Delforge, P. 2005. Contribution a la connaissance du groupe d' *Ophrys tenthredinifera* dans le bassin méditerranéen oriental. (Contribution to the knowledge of the *Ophrys tenthredinifera* species group in the eastern Mediterranean basin.) *Nat. Belg.* 86 orchid. 18: 95-140.
- Delforge, P. 2005. Contribution a la connaissance du groupe d' *Ophrys blitopertha* en Crete. (Contribution to the knowledge of the *Ophrys blitopertha* species group in Crete.) *Nat. Belg.* 86 orchid. 18: 141-146.
- Delforge, P. 2005. Note sur *Orchis papilionacea* var. *alibertis*. (Note on *Orchis papilionacea* var. *alibertis*.) *Nat. Belg.* 86 orchid. 18: 81-90.
- Delforge, P. and Kreutz, C. A. J. 2005. Remarks on Estonian orchids. *Nat. Belg.* 86 orchid. 18: 21-56.
- Deori, C. and Phukan, S. 2004. Rediscovery of *Dendrobium pychnostachyum* Lindl. from Mizoram, India. *J. Orchid Soc. India* 18: 53-57.
- Devos, N., Raspe, O., Oh, S. H., Tyteca, D., and Jacquemart, A. L. 2006. The evolution of *Dactylorhiza* (Orchidaceae) allotetraploid complex: insights from nrDNA sequences and cpDNA PCR-RFLP data. *Molec. Phylogenet. Evol.* 38: 767-778.
- Dragulescu, C. and Rosler, R. 2005. Zur Chorologie der Orchideen des Regierungsbezirkes Sibiu (Hermannstadt) in Siebenburgen (Rumanien). *J. Eur. Orchideen* 37: 651-703.
- Dressler, R. L. 2005 [2006]. How many orchid species? *Selbyana* 26: 155-158.
- Dressler, R. L. and Pupulin, F. 2005. Some problems in *Trichopilia* (Orchidaceae: Oncidiinae) with two new species of modest flower size. *Harvard Pap. Bot.* 10: 89-93.
- Dressler, R. L. and Pupulin, F. 2006. The carmine trichopilias of Central America: few but badly confused. *Orchids* 75: 212-219.

- Erbar, C. 2007. Current opinions in flower development and the evo-devo approach in plant phylogeny. *Plant Syst. Evol.* 269: 107-132.
- Erfkamp, J. 2005. *Dendrobium*, Sektion *Dendrobium*, Teil 7. *Orchidee (Hamburg)* 56: 450-457.
- Foelsche, G. and Foelsche, W. 2005. *Ophrys* × *bergeri* und *Ophrys* × *pertaminae* nothospecies novae und die Taxa der *Ophrys tenthredinifera*-Gruppe in Korsika und in Sardinien. (*Ophrys* × *bergeri* and *Ophrys* × *pertaminae* nothospecies novae and the taxa of the group of *Ophrys tenthredinifera* on the islands of Corsica and Sardinia.) *J. Eur. Orchideen* 37: 839-877.
- Frangini, G., Romolini, R., Sodi, F., Bisti, M., Filippi, L., Mannocci, M., and Quochi, B. 2005. Orchidee dell'Isola d'Elba (Arcipelago Toscano.) *GIROS Notizie* no. 28: 1-16.
- Frey, M. 2005. *Pseudolaelia pavopolitana* M.Frey (Orchidaceae), une nouvelle espece de l'Esprit Santo, Bresil. *Richardiana* 5: 203-209.
- Gamarra, R., Galan, P., Herrera, I., and Ortunez, E. 2008. Seed micromorphology supports the splitting of *Limnorchis* from *Platanthera* (Orchidaceae). *Nord. J. Bot.* 26: 61-65.
- Garcia Cruz, J. and Sosa, V. 2005. Phylogenetic relationships and character evolution in *Govenia* (Orchidaceae). *Canad. J. Bot.* 83: 1329-1339.
- Garcia-Cruz, J. and Sosa, V. 2006. A new species of *Govenia* (Orchidaceae) from Chiapas, Mexico. *Brittonia* 58: 259-263.
- Gardiner, L. M., Hawkins, J. A., and Roberts, D. L. 2005 [2006]. Species delimitation in *Vanda* sect. *Cristatae* Lindl. (Orchidaceae): a morphometric approach. *Selbyana* 26: 347-353.
- Gee, G. Y. 2006. An orchid by any other name would smell as sweet. Part 6. *Orchids Austral.* 18: 6-17.
- Geerinck, D. 2005. La problematique taxonomique du complexe *Eulophia abyssinica* Reichb. f., *E. aurantiaca* Rolfe, *E. carsonii* Rolfe, *E. euantha* Schltr., *E. subulata* Rendle, *E. thomsonii* Rolfe, *E. welwitschii* (Reichb. f.) Rendle, *E. zeyheri* Hook. f. (Orchidaceae) en Afrique centrale (Burundi, Congo-Kinshasa, Rwanda). (The taxonomic problem of the complex *Eulophia abyssinica* Reichb. f., *E. aurantiaca* Rolfe, *E. carsonii* Rolfe, *E. euantha* Schltr., *E. subulata* Rendle, *E. thomsonii* Rolfe, *E. welwitschii* (Reichb. f.) Rendle, *E. zeyheri* Hook. f. (Orchidaceae) in central Africa (Burundi, Congo-Kinshasa, Rwanda).) *Taxonomania* no. 16: 1-11.
- Geerinck, D., Delepierre, G., and Lebel, J. P. 2005. *Satyrium schimperii* Hochstetter ex A.Richard versus *S. sphaeranthum* Schlechter (Orchidaceae). *Taxonomania* no. 16: 12-14.
- Gerbaud, O. and Foelsche, W. 2005. Die Kohlroschen Frankreichs - Verbreitung, Morphologie, Genetik und Wechselwirkungen. (The vanilla orchids of France -- distribution, morphology, genetics and interactions.) *J. Eur. Orchideen* 37: 553-584.
- Gerbaud, M. and Gerbaud, O. 2005. Les nigritelles de l'Est de l'Autriche et des Dolomites. *Orchidophile* 36: 277-290.
- Gerbaud, M. and Gerbaud, O. 2006. Les nigritelles de l'est de l'Autriche et des Dolomites. (2e partie) *Orchidophile* 37: 3-15.
- Giotto, C. and Piccitto, M. 2005. Contributo alla conoscenza di *Ophrys panattensis* Scrugli, Cogoni & Pessei (pro hybr.) in Sardegna. *J. Eur. Orchideen* 37: 825-833.
- Giraud, M. 2005. *Chiloschista usneoides* (D.Don) Lindl. et les orchidees sans feuilles. *Orchidophile* 36: 265-270.
- Go, R., Yong, W., and Osman, K. 2005 [2006]. Perlis limestone orchids: diversity and conservation. *Selbyana* 26: 240-245.
- Golz, P., Gamperle, R., Gugel, E., Wagner, R., Wagner, M., and Zaiss, H. W. 2006. Über die Orchideenflora des Iran. *J. Eur. Orchideen* 38: 79-104.
- Gruss, O. 2005. *Phalaenopsis malipoensis* N.J.Liu et S.C.Chen, eine neue Art, in China entdeckt und beschrieben. *Orchidee (Hamburg)* 56: 520-521.
- Gruss, O. and Paterny, U. 2005. *Cypripedium calcicum*, der älteste und gultige Name für *Cypripedium smithii*. *Orchidee (Hamburg)* 56: 478-479.
- Guillosson, T. and Geniez, P. 2005. Deux nouvelles stations d' *Ophrys vasconica* (O.Danesch & E.Danesch) P.Delforge aux confins de l'Aude et de l'Ariege. *Orchidophile* 36: 185-187.
- Hagger, J. 2003. The early marsh orchid (*Dactylorhiza incarnata*) in northern Europe. A personal view, review of the literature and discussion of taxonomic aspects - part one. *Newsl. Hardy Orchid Soc.* no. 27: 4-9.
- Haggard, J. 2003. The early marsh orchid (*Dactylorhiza incarnata*) in northern Europe. II. The purple flowered early marsh orchids subspecies

*pulchella* variant *serotina* and Scandinavian variant *incarnata*. *Newsl. Hardy Orchid Soc.* no. 29: 17-22.

Hagsater, E. and Santiago, E. 2005. The *Diothonea* group in *Epidendrum*. *Orchid Dig.* 69: 147-151.

Hansson, S. 2006. Pink *Traunsteinera sphaerica* found in Georgia (Caucasus). *J. Eur. Orchideen* 38: 29-31.

Hatch, E. 2006. Elementary: 7. *Nematoceras*. *New Zealand Native Orchid J.* no. 98: 24-25.)

Hatch, E. D. 2005. Greenhoods 3: tidying up the odds and ends. *New Zealand Native Orchid J.* no. 96: 10-14.

Heidtke, D. and Heidtke, U. H. J. 2006. *Nigritella widderi* Teppner & Klein in den Dolomiten und  $\times$ *Dacilitella* "toureensis" (Godfery) Janchen in Osttirol. *J. Eur. Orchideen* 38: 195-202.

Herrmann, C., Cribb, P., and Demissew, S. 2007 [2008]. The orchid flora of Benishangul-Gumuz (western Ethiopia): an ecological and phenological study. *Selbyana* 28: 123-136.

Hertel, S. and Zirnsack, A. 2006. Anmerkungen zu einigen kroatischen Orchideen-Taxa. (Remarks on some Croatian orchid-taxa.) *J. Eur. Orchideen* 38: 215-244.

Hervouet, J. M. 2006. Un aperçu des orchidees de Sao Tome. *Orchidophile* 37: 29-39.

Hervouet, M. 2005. A la recherche de l' *Epipactis cretica*. *Orchidophile* 36: 137-143.

Hidayat, T., Yukawa, T., and Ito, M. 2005. Molecular phylogenetics of subtribe Aeridinae (Orchidaceae): insights from plastid *matK* and nuclear ribosomal ITS sequences. *J. Pl. Res.* 118: 271-284.

Higgins, W. E. and Dalstrom, S. 2007 [2008]. A *Catasetum* (Orchidaceae) from Peru. *Selbyana* 28: 103-105.

Hochguertel, M. 2005. *Dendrobium linguiforme* Sw. *Orchadian* 15: 14-17.

Hsu, S. C., Gravendeel, B., and de Vogel, E. F. 2005. Taxonomic revision of *Geesinkorchis* (Coelogyninae; Epidendroideae; Orchidaceae). *Blumea* 50: 505-517.

Husson, J. 2005. *Gymnadenia*  $\times$ *schweinfurthii* Hegelmaier ex Kerner (= *G. albida*  $\times$  *G. conopsea*) present en Haute-Savoie. *Orchidophile* 36: 271-276.

Jacquet, P. 2005. Encore quelques naturalistes et collecteurs meconnus. *Orchidophile* 36: 145-150.

Jenny, R. 2005. The genus *Lueddemannia* - a review. *Austral. Orchid Rev.* 70: 15-23, 25.

Jenny, R., Higgins, W. E., and Dalstrom, S. 2007 [2008]. An old species finally named and described: *Gongora boracayanensis*. *Selbyana* 28: 99-102.

Jin, X. H. 2005. *Bulbophyllum wuzhishanensis* (Orchidaceae), a new species from Hainan, China. *Brittonia* 57: 255-257.

Jin, X. H. 2005. Generic delimitation and a new infrageneric system in the genus *Holcoglossum* (Orchidaceae: Aeridinae). *Bot. J. Linn. Soc.* 149: 465-468.

Jin, X. H. 2005. (1667) Proposal to conserve the name *Liparis nigra* against *Liparis gigantea* (Orchidaceae). *Taxon* 54: 191.

Jones, D. L. and Clements, M. A. 2005. Miscellaneous nomenclatural notes and changes in Australian, New Guinea and New Zealand Orchidaceae. *Orchadian* 15: 33-42.

Jordan, D. 2005. Situation historique et actuelle du *Liparis* de Loesel (*Liparis loeselii* (L.) L.C.M.Richard) en Haute-Savoie. *Orchidophile* 36: 91-98.

Jutta, M. and Qamaruz Zaman, F. 2005. An annotated preliminary checklist of the Orchidaceae in Bukit Rongkit, Perlis State Park, Peninsular Malaysia. *Malayan Nat. J.* 57: 267-277.

Jutta, M. and Qamaruz Zaman, F. 2005. *Malaxis inexpectata* and *Habenaria paradiseoides* (Orchidaceae), new records for Peninsular Malaysia. *Gard. Bull. Singapore* 57: 263-267.

Klahr, B. 2005. Die Orchideen der Insel Formentera. (The orchids of Formentera.) *J. Eur. Orchideen* 37: 775-802.

Kreutz, C. A. J. 2006. Bemerkungen zu den Orchideen von Libanon, Syrien, Israel, Zypern und der Türkei. (Remarks on the orchids of Lebanon, Syria, Israel, Cyprus and Turkey.) *J. Eur. Orchideen* 38: 105-160.

Kreutz, C. A. J. 2006. *Ophrys oestriifera* M.Bieb. subsp. *akcakarae* Kreutz - eine neue *Ophrys*-Unterart aus der Sudostturkei. *J. Eur. Orchideen* 38: 161-171.

Krishna Swamy, K., Krishna Kumar, H. N., Ramakrishna, T. M., and Ramaswamy, S. N. 2004. Studies on distribution and phenology of orchids in Karnataka. *J. Orchid Soc. India* 18: 81-96.

- Kurzweil, H. and Manning, J. C. 2005. A synopsis of the genus *Disperis* Sw. (Orchidaceae). *Adansonia* 27: 155-207.
- Lacerda, K. G. de and Castro Neto, V. P. 2005. Un nouvel hybride naturel originaire de Espirito Santo (Bresil) dans le genre *Hadrolaelia* (Orchidaceae). *Richardiana* 5: 197-202.
- Lee, Y. N. and Kim, Y. S. 2005. A new recorded plant taxon *Platanthera chorisiana* (Chamisso) Reichenbach fil. from Mt. Baekdu. *Bull. Korea Pl. Res.* no. 5: 38-39.
- Leou, C. S. 1994. [A new *Zeuxine* species (Orchidaceae) from Taiwan.] *Quart. J. Exp. Forest. Nation. Taiwan Univ.* 8: 1-5.
- Leroux, A. 2005. *Angraecopsis gracillima* (Rolfe) Summerhayes. *Orchidophile* 36: 205-206.
- Lewis, L. 2006. A new form of *Ophrys insectifera* L. *J. Eur. Orchideen* 38: 187-194.
- Lin, T. P. and Huang, L. L. K. 2005. *Bulbophyllum albociliatum* (Liu & Su) Nakejima var. *weiminianum* and *Flickingeria shihfuana*, two new native orchids from Taiwan. *Taiwania* 50: 290-296.
- Liu, Z. J., Chen, S. C., and Ru, Z. Z. 2005. *Cymbidium changningense*, a new species of Orchidaceae from Yunnan, China. *Acta Bot. Yunnanica* 27: 378-380.
- Liu, Z. J., Chen, S. C., and Ru, Z. Z. 2006. *Cymbidium quinquelobum*, a new species of Orchidaceae from Yunnan. *Acta Bot. Yunnanica* 28: 13-14.
- Long, V. N. 2002 [2003]. Morphology of genus *Eria* Lindl. species (Orchidaceae) Juss. in the flora of Vietnam. *Ukr. Bot. Zhurn.* 59: 716-723.
- Lucke, E. 2005. *Neottia nidus-avis*. *Orchidee (Hamburg)* 56: 349-356.
- Mao, A. A. 2004. Notes on habitat and distribution of *Bulbophyllum rothschildianum* (O'Brien) J.J.Sm. - a rare and beautiful orchid of north east India. *J. Orchid Soc. India* 18: 69-74.
- Margonska, H. B. 2005. A new combination and a new subsection in *Crepidium* (Orchidaceae). *Edinburgh J. Bot.* 62: 193-194.
- Margonska, H. B. 2005. Contributions to the taxonomic revision of the genus *Crepidium* (Orchidaceae-Malaxidinae): the new subsection *Maximowiczianae* (section *Hololobus*). *Edinburgh J. Bot.* 62: 165-179.
- Margonska, H. B. 2005. *Crepidium klimkoanum* - a new orchid species (Orchidaceae, Malaxidinae), from Thailand. *Candollea* 60: 373-377.
- Margonska, H. B. 2005. Materials towards a revision of the genus *Pseudoliparis* (Orchidaceae, Malaxidinae). 3. Section *Pseudoliparis*. *Ann. Bot. Fenn.* 42: 267-291.
- Margonska, H. B. and Szlachetko, D. L. 2005. Taxonomic revision of the African genus *Orestias* Ridl. (Malaxidinae, Orchidaceae). *Ann. Naturhist. Mus. Wien*, 107B: 209-220.
- Mast de Maeght, J., Garnier, M. A., Devillers Terschuren, J., and Devillers, P. 2005. *Ophrys polyxo*, a scolopaxoid *Ophrys* from Rhodes. *Nat. Belg.* 86 orchid. 18: 147-156.
- Mathew, S. P., Mohandas, A., and Nair, G. M. 2004. *Zeuxine nervosa* (Wall. ex Lindl.) Benth. ex Cl. (Orchidaceae) from Bay Islands of the Bay of Bengal. *J. Orchid Soc. India* 18: 1-3.
- Meng, Q-W. and Luo, Y-B. 2008. A new species of *Galearis* (Orchidinae: Orchidaceae) from Sichuan, China. *Bot. J. Linn. Soc.* 158: 689-695.
- Moingeon, S. and Moingeon, J. M. 2005. *Ophrys lepida*, sp. nova, espece de Sardaigne appartenant au groupe d' *Ophrys* subfusca. *Orchidophile* 36: 173-178.
- Molnar, V. A. and Gulyas, G. 2005. Zur Kenntnis der *Ophrys holubyana* Andrasovszky 1917. (Data on the knowledge of *Ophrys holubyana* Andrasovszky 1917.) *J. Eur. Orchideen* 37: 625-638.
- Morrison, C. L., Hovatter, K., Eackles, M., Spidle, A. P., and King, T. L. 2005 [2006]. Molecular identification of cypripedioid orchids in international trade. *Selbyana* 26: 196-216.
- Ng, Y. P. and Cribb, P. 2005. New combinations in subtribe Eriinae (Orchidaceae: Epidendroideae: Podochileae). *Orchid Rev.* 113: 272-273.
- Olszewski, T. S. 2004. A provisional checklist of the continental African Orchidaceae. 4. Orchidoideae. 3. Satoryieae. *Pol. Bot. J.* 49: 21-33.
- Olszewski, T. S. 2004. A provisional checklist of the continental African Orchidaceae. 5. Vanilloideae. *Pol. Bot. J.* 49: 123-134.
- Ormerod, P. 2005. A new *Dendrobium* Sw. of section *Grastidium* Blume from New Guinea. *Orchadian* 15: 11-13.
- Ormerod, P. 2005. Papuanian orchid studies, 2. *Austrobaileya* 7: 183-203.

- Ormerod, P. 2005. Some notes on *Phreatia* Lindl. (Orchidaceae). *Taiwania* 50: 183-190.
- Ormerod, P. and Cavestro, W. 2005. *Dendrobium brilliantum* Ormd. & Cavestro : une nouvelle espece de *Dendrobium* de la section *Spatulata* originaire de l'ouest de la Nouvelle-Guinee. *Orchidophile* 36: 99-101.
- Padolina, J., Linder, C. R., and Simpson, B. B. 2005 [2006]. A phylogeny of *Phalaenopsis* using multiple chloroplast markers. *Selbyana* 26: 23-27.
- Pedersen, H. A. 2005. A new miniature *Dendrochilum*. *Orchid Rev.* 113: 286-287.
- Pellegrino, G., Noce, M. E., Palermo, A. M., and Musacchio, A. 2004. Indagini biosistematiche su entita critiche italiane del genere *Serapias* (Orchidaceae). (Biosystematic investigations on Italian critical taxa of the genus *Serapias* (Orchidaceae).) *Inform. Bot. Ital.* 36: 460-463.
- Peter, R. 2006. Hybridogene Entstehung von *Ophrys*-Arten. (Hybridogenous speciation in the genus *Ophrys*.) *J. Eur. Orchideen* 38: 245-252.
- Petini Benelli, A. and Grade, A. 2008. A new species of *Catasetum* (Orchidaceae) for the state of Mato Grosso, Brazil. *Edinburgh J. Bot.* 65: 27-34.
- Pikner, T. and Delforge, P. 2005. The dactylorchid of the island of Saaremaa (Estonia), *Dactylorhiza osiliensis* Pikner *sp. nova*. *Nat. Belg.* 86 orchid. 18: 65-80.
- Pillon, Y., Fay, M. F., Shipunov, A. B., and Chase, M. W. 2006. Species diversity versus phylogenetic diversity: a practical study in the taxonomically difficult genus *Dactylorhiza* (Orchidaceae). *Biol. Conserv.* 129: 4-13.
- Presser, H. 2006. Bemerkungen zur Orchideenflora von Kreta. (Notes on the orchid flora of Crete.) *J. Eur. Orchideen* 38: 39-56.
- Pupulin, F. 2005. *Dichaea viridula* (Orchidaceae: Zygopetalinae), a new species in the *D. tenuifolia* complex. *Harvard Pap. Bot.* 10: 83-87.
- Pupulin, F. 2007 [2008]. *Bensteinia ramonensis*, a new natural hybrid in the Zygopetalinae (Orchidaceae). *Selbyana* 28: 112-116.
- Pupulin, F. and Mujico Benitez, E. 2005. Another new species of *Encyclia* (Orchidaceae: Laeliinae) from Cuba. *Harvard Pap. Bot.* 10: 227-230.
- Reineke, D. and Reitdorf, K. 2005. Der Orchideenbestand in der Naturraumlichen Einheit 92 Baaralb. (The orchids inventory of the region 92 Baaralb.) *J. Eur. Orchideen* 37: 489-552.
- Ribeiro, P. L., Borba, E. L., and Toscano de Brito, A. L. V. 2005. O genero *Bulbophyllum* Thouars (Orchidaceae) na Chapada Diamantina, Bahia, Brasil. (The genus *Bulbophyllum* Thouars (Orchidaceae) in the Chapada Diamantina, Bahia, Brazil.) *Rev. Brasil. Bot.* 28: 423-439.
- Riechelmann, A. 2005. Anmerkungen zu einem Vorkommen der Bocks-Riemenzunge (*Himantoglossum hircinum* (L.) Sprengel) auf der Friesener Warte (Frankische Alb). *Ber. Arbeitskr. Heim. Orch.* 22: 118-121.
- Romero Gonzalez, G. A. 2005. Orchidaceae Schomburgkiana: the orchids collected by R. H. Schomburgk in South America and the Caribbean. *Harvard Pap. Bot.* 10: 231-268.
- Romero Gonzalez, G. A., Aymard, G., and Carnevali Fernandez Concha, G. 2005. *Cyrtopodium schargellii* (Cyrtopodiinae, Orchidaceae), a new species from northern South America. *Harvard Pap. Bot.* 10: 123-127.
- Roth, J. 2005. *Maxillaria chrysantha* Barb. Rodr. var. *curtifolia* Barb. Rodr. *Orchidee (Hamburg)* 56: 338-339.
- Roth, J. 2005. *Miltonia regnellii* und ihre Farbvarianten. *Orchidee (Hamburg)* 56: 333-337.
- Roth, J. 2005. *Milioniopsis phalaenopsis* (Linden et Rchb.f.) Garay et Dunsterv. 1976. *Orchidee (Hamburg)* 56: 582-583.
- Rysy, W. 2005. *Corybas* Salisb. - Überblick über die Gattung. *Orchidee (Hamburg)* 56: 480-488.
- Rysy, W. 2005. *Corybas* Salisb. - Überblick über die Gattung (Teil 2). *Orchidee (Hamburg)* 56: 564-571.
- Sadle, J. L., Woodmansee, S. W., Gann, G. D., and Armentano, T. V. 2005. Rediscovery of *Ponthieva brittoniae* (Orchidaceae) in Everglades National Park. *Sida, Contrib. Bot.* 21: 1917-1920.
- Salazar, G. A. 2005. A new species of *Ponthieva* (Orchidaceae, Cranichidinae) from Veracruz, Mexico. *Brittonia* 57: 252-254.
- Scanlen, E. 2005. *Caladenia* identification from marginal calli. *New Zealand Native Orchid J.* no. 96: 18-24.

- Schmotzer, A. 2005. Confirmation of *Ophrys straussii* H.Fleischmann & Bornmuller on Cyprus. *J. Eur. Orchideen* 37: 835-838.
- Scrugli, A., Musacchio, A., D'Emerico, S., Pellegrino, G., and Cozzolino, S. 2004. *Orchis xpenzigiana*, dal fiore al DNA al fiore. Approccio morfologico, cariologico e molecolare ad un inusuale caso di ibridazione naturale. (*Orchis xpenzigiana*, from flower to DNA to flower. Morphological, karyological and molecular approach of an unusual case of natural hybridization.) *Inform. Bot. Ital.* 36: 453-457.
- Seehawer, H. 2005. *Pleurothallis fasciata*, *Pleurothallis gracilicaulis* und *Octomeria longipedicellata*, drei neue Arten aus Brasilien. *Orchidee (Hamburg)* 56: 458-465.
- Seehawer, H. 2005. *Pleurothallis quartzicola* (Barb. Rodr.) Cogn. *Orchidee (Hamburg)* 56: 625-626.
- Sheviak, C. J. and Jennings, W. F. 2006. A new *Platanthera* (Orchidaceae) from the Intermountain West. *Rhodora* 108: 19-31.
- Singer, R. B., Gravendeel, B., Cross, H., and Ramirez, S. R. 2008. The use of orchid pollinia or pollinaria for taxonomic identification. *Selbyana* 29: 6-19.
- Singh, D. R., Medhi, R. P., and Nair, S. A. 2004. Endemic orchids of Bay Islands. *J. Orchid Soc. India* 18: 41-45.
- Smith, Z. F., Murphy, D. J., James, E. A., and McLean, C. B. 2005 [2006]. Molecular investigation of the *Diuris* "punctata" group in south-eastern Australia. *Selbyana* 26: 217-228.
- Solano Gomez, R. 2005. *Masdevallia floribunda*. Variation in a Mexican and Central American orchid. *Orchids* 74: 760-763.
- Sosa, V. 2007. A molecular and morphological phylogenetic study of subtribe Blettiinae (Epidendreae, Orchidaceae). *Syst. Bot.* 32: 34-42.
- Speckmaier, M. 2005. *Encyclia cordigera* - nicht selten aber schon. *Orchidee (Hamburg)* 56: 315-320.
- Steinfeld, P. 2005. Das Brand-Knabenkraut *Orchis ustulata* L. im Saarland. (The burnt orchid, *Orchis ustulata* L., in the Saarland.) *J. Eur. Orchideen* 37: 803-813.
- Stenzel, H. and Llamacho Olmo, J. 2002 [2003]. Contribuciones al conocimiento de la subtribu Pleurothallidinae Lindl. (Orchidaceae) en Cuba. *Rev. Jard. Bot. Nacion. Univ. Habana* 23: 201-206.
- Szlachetko, D. L. 2005. Habenariinae (Orchidaceae, Orchidoideae) - Beitrage zu einer Revision der Subtribus (14). *Ate* und *Synmeria*, zwei vergessene Gattungen. (Habenariinae (Orchidaceae, Orchidoideae) - contributions to the revision of subtribe (14). Two overlooked genera.) *Orchidee (Hamburg)* 56: 329-332.
- Szlachetko, D. L., Margonska, H. B., and Mytnik, J. 2005. *Veyretella flabellata* (Orchidaceae, Habenariinae), a new species from Gabon. *Ann. Bot. Fenn.* 42: 227-229.
- Tali, K., Fay, M. F., and Bateman, R. M. 2006. Little genetic differentiation across Europe between early-flowering and late-flowering populations of the rapidly declining orchid *Neotinea ustulata*. *Biol. J. Linn. Soc.* 87: 13-25.
- Teppner, H. 2002. A review of new results in *Nigritella* (Orchidaceae). *Sprawozdania z Posiedzen Komisji Naukowych* 46: 111-116.
- Toscano de Brito, A. L. V. 2007 [2008]. A new species and a new combination in the *Ornithocephalus* group of subtribe Oncidiinae (Orchidaceae). *Selbyana* 28: 109-111.
- Tsai, C. C., Huang, S. C., and Chou, C. H. 2006. Molecular phylogeny of *Phalaenopsis* Blume (Orchidaceae) based on the internal transcribed spacer of the nuclear ribosomal DNA. *Pl. Syst. Evol.* 256: 1-16.
- Tsiftsis, S., Tsiripidis, I., and Karagiannakidou, V. 2006. Study of the orchid flora of Mount Falakro (NE Greece). *J. Eur. Orchideen* 38: 57-78.
- Tsukaya, H., Nakajima, M., and Okada, H. 2005. *Didymoplexiella cinnabarina* (Orchidaceae): a new species from Muller Range, central Kalimantan, Indonesia. *Acta Phytotax. Geobot.* 56: 207-212.
- Vazquez, F. M. and Ramos, S. 2005. A new *Ophrys* L. (Orchidaceae) species from southern Extremadura (Spain). *J. Eur. Orchideen* 37: 815-823.
- Vermeulen, J. J. and O'Byrne, P. 2005. Two new species resembling *Bulbophyllum plumatum* Ames and *B. mirum* J.J.Sm. (Orchidaceae). *Gard. Bull. Singapore* 57: 133-137.
- Watthana, S. 2006. The *Pomatocalpa maculosum* complex (Orchidaceae) resolved by multivariate morphometric analysis. *Taiwania* 51: 1-10.
- Watthana, S. 2007. The genus *Pomatocalpa* (Orchidaceae). A taxonomic monograph. *Harvard Pap. Bot.* 11: 207-256.

- Wijngaarden, E. Van. 2005. Orchideen van de Algarve. *Eurorchis* no. 17: 23-41.
- Williams, N. H., Whitten, W. M., and Dressler, R. L. 2005. Molecular systematics of *Telipogon* (Orchidaceae: Oncidiinae) and its allies: nuclear and plastid DNA sequence data. *Lankesteriana* 5: 163-184.
- Wood, H. P. 2007 [2008]. *Dendrobium* Swartz section *Herbacea* Kranzlin (Orchidaceae). *Selbyana* 28: 117-122.
- Yang, P. H. and Lang, K. Y. 2006. (*Neottia taibaishanensis*, a new species of Orchidaceae from Shaanxi, China.) *Acta Phytotax. Sin.* 44: 86-88.
- Yeh, C. L., Yeh, C. R., and Leou, C. S. 2005. *Hetaeria oblongifolia* (Bl.) Bl. (Orchidaceae), a newly recorded orchid in Taiwan. *Taiwan J. Forest Sci.* 20: 355-359.
- Yeh, C. L., Yeh, C. R., and Leou, C. S. 2005. *Zeuxine philippinensis* (Ames) Ames (Orchidaceae), a newly recorded plant in Taiwan. *Taiwania* 50: 284-289.
- Yeh, C. L., Yeh, C. R., and Leou, C. S. 2006. An observation on the *Corymborkis veratrifolia* (Reinw.) Bl. (Orchidaceae) from Lanyu, Taiwan. *Taiwania* 51: 53-57.
- Yu, H. and Zhang, S. G. 2005. *Epigeneium gaoligongense* (Orchidaceae), a new species from Yunnan, China. *Novon* 15: 495-497.
- Yukawa, T. 2003. *Dendrobium bifurcatum* (Orchidaceae) - a new species from Vietnam. *Ann. Tsukuba Bot. Gard.* no. 22: 147-150.
- Yukawa, T. 2004. Two species of *Dendrobium* section *Formosae* (Orchidaceae) from Vietnam. *Ann. Tsukuba Bot. Gard.* no. 23: 21-27.
- Yukawa, T., Kita, K., Handa, T., Hidayat, T., and Ito, M. 2005. Molecular phylogenetics of *Phalaenopsis* (Orchidaceae) and allied genera: re-evaluation of generic concepts. *Acta Phytotax. Geobot.* 56: 141-161.
-