

The Bean Bag

A newsletter to promote communication among research scientists concerned with the systematics of the Leguminosae/Fabaceae

Number 53

February 2006

FROM THE EDITOR

Barbara Mackinder

The Bean Bag is designed to promote communication among research scientists concerned with legume systematics. To achieve this goal *The Bean Bag* is issued each year and features six columns: From the Editor, News (meetings, major events, announcements, etc.), Latin American Legume Report (nothing to report this year), Nodulation and Nitrogen Fixation, Gleanings, and Recent Legume Literature. Data in the Gleanings column are derived from questionnaire sheets which Readers complete and return. If you have news about legume systematics, send it to us for this column. The Recent Legume Literature column contains published research papers of specific interest to *Bean Bag* Readers and is derived from Readers contributions in conjunction with references from *The Kew Record* (RBG Kew's current awareness list of taxonomic literature). Recent is defined as up to 18 months old. Specific interest to *Bean Bag* Readers is defined as research papers of interest to a worldwide group of legume systematic botanists.

Bean Bag Readers are encouraged to send notices, observations, etc.

The Bean Bag can be delivered to readers via e-mail. If you wish to have your copies e-mailed to you, please send an email message to the editor (email: B.Mackinder@rbgkew.org.uk). New readers please provide your title, first and last names, full postal address and area(s) of interest.

Electronic copies of the current and past issues of *The Bean Bag* can be viewed on the World Wide Web server of the Royal Botanic Gardens, Kew, UK at <http://www.rbgkew.org.uk/herbarium/legumes/beanbag.html>

Bean Bag address:

Mrs B. Mackinder, Bean Bag Editor, Herbarium, Royal Botanic Gardens, Kew, Richmond, Surrey TW9 3AB, United Kingdom.

email: b.mackinder@rbgkew.org.uk



NEWS

The Rupert Barneby Award

James L. Luteyn

The New York Botanical Garden is pleased to announce that Rodrigo Duno de Stefano, of the Centro de Investigación Científica de Yucatán A. C. (CICY) is the recipient of the Rupert Barneby Award for the year 2006. He will be studying the family Leguminosae in the Yucatan Peninsula Biotic Province (YPBP), Mexico. With about 60 genera and more than 260 species there, the Leguminosae are one of the most important plant elements of the Yucatan region. This study will also contribute to a revision of four legume genera for the "Illustrated Flora of the Yucatan Peninsula" (G. Carnevali, general editor).

The New York Botanical Garden now invites applications for the Rupert Barneby Award for the year 2007. The award of US\$ 1,000.00 is to assist researchers to visit The New York Botanical Garden to study the rich collection of Leguminosae. Anyone interested in applying for the award should submit their curriculum vitae, a detailed letter describing the project for which the award is sought, and the names of 2-3 referees. Travel to the NYBG should be planned for sometime in the year 2007. The application should be addressed to Dr. James L. Luteyn, Institute of Systematic Botany, The New York Botanical Garden, 200th Street and Kazimiroff Blvd., Bronx, NY 10458-5126 USA, and received no later than December 1, 2006. Announcement of the recipient will be made by December 15th.

Anyone interested in making a contribution to THE RUPERT BARNEBY FUND IN LEGUME SYSTEMATICS, which supports this award, may send his or her cheque, payable to The New York Botanical Garden, to Dr. Luteyn.

The name *Acacia*: an update

Barbara Mackinder

As discussed in *The Bean Bag* 2005 (see under "The future of *Acacia*"), a proposed change to the use of the name *Acacia* was to be adopted at the International Botanical Congress (IBC) in Vienna in July 2005. During the nomenclatural section of the IBC, the part of the Report of the General Committee which supported the change was the subject of a separate debate, in response to the many parties concerned by the far-reaching implications of the proposed change. A card vote was taken, giving a close result of 54.9% votes cast in favour of no change, i.e. continuing with the current usage of the name *Acacia*, but a 60% majority was required to overturn the findings of the General Committee, hence retypification of *Acacia* with an Australian type was approved.

Legumes of the World

Gwilym Lewis

A new book, *Legumes of the World* edited by Gwilym Lewis, Brian Schrire, Barbara Mackinder and Mike Lock was published in July 2005 and is the first authoritative, illustrated guide to the world's legume genera. All 727 genera are illustrated, some for the first time with over 1100 photographs, paintings and line drawings. The introductory chapters cover nomenclature, classification including a supertree of the family, advances in systematics since Polhill (1994), economic importance of the family, complete synopsis of the genera and an overview of legume biogeography. The 36 tribal accounts have been prepared by 20 legume experts and are arranged in the most up to date classification system. For each genus, number of species, geographical distribution, etymology, habit, ecology, economic uses and selected references are given. *Legumes of the World* was published by the Royal Botanic Gardens, Kew and is available from www.kewbooks.com ISBN 1 900347 80 6. 577pp. Retail price is £55.00 (plus postage and packaging).

XVII International Botanical Congress (IBC)

The seventeenth IBC was held on 17 – 23rd July, 2005 in Vienna, Austria at which a legume symposium entitled the application of legume phylogenies to testing evolutionary, ecological, and biogeographic hypotheses was organized by Anne Bruneau and Melissa Luckow. The six speakers delivered the following papers:

Using phylogenies to realign taxa in an emerging new classification of Leguminosae - G.P. Lewis.

Newly recognised succulent biome: key to the origin and global distribution of Leguminosae? - B.D. Schrire.

Early floral development in Papilionoideae and its phylogenetic interpretation - G. Prenner.

Phylogenetic analysis of floral ontogenetic and molecular characters in the Caesalpinioideae: insights into floral evolution in the basal Leguminosae - A. Bruneau.

The evolution of bird pollination in Australian pea-flowered legumes - M.D. Crisp.

Phylogeny, gene duplication, and polyploidy in legumes - J.J. Doyle.

No symposium publication is planned.

NODULATION AND NITROGEN FIXATION

The following species of *Mimosa* and *Cyclopia*, not recorded in Sprent (2001) have fully authenticated reports of nodulation

Janet Sprent

Taxon	Status ¹	Source ²
<i>Mimosa adenocarpa</i> Benth.	+	1
<i>Mimosa borealis</i> A. Gray	+	1
<i>Mimosa delicatula</i> Baill.	+	1
<i>Mimosa hexandra</i> M. Micheli	+	1
<i>Mimosa himalayana</i> Gamble	+	1
<i>Mimosa latispinosa</i> Lam.	+	1
<i>Mimosa menabeensis</i> R.Viq.	+	1
<i>Mimosa uruguensis</i> Hooker & Arn.	+	1
<i>Cyclopia buxifolia</i> (Burm. F.) Kies	+	2
<i>Cyclopia galioides</i> (Berg.) DC.	+	2
<i>Cyclopia genistoides</i> (L.) R.Br.	+	2
<i>Cyclopia intermedia</i> E.Mey.	+	2
<i>Cyclopia meyeriana</i> Walp.	+	2
<i>Cyclopia plicata</i> Kies	+	2
<i>Cyclopia sessiliflora</i> Eckl. & Zeyh.	+	2
<i>Cyclopia subternata</i> Vogel	+	2

¹ James, E.K., Chen, W-M., Elliott, G.N., Chou, J-S., Wand, H-C., Sheu, S-Y, Moulin, L, Bessi, R, de Faria, S.M., Prescott, A.R. and Sprent, J.I. (2005). Comparison of the host ranges of the beta-rhizobia *Burkholderia phymatum* and *Cupriavidus taiwanensis* LMG 19424. In unpublished proceedings of the 14th Australian Nitrogen Fixation Conference, ed. John Brockwell, Katoomba, NSW

² Spriggs, A.C. (2004) Symbiotic N₂ fixation in *Cyclopia* Vent. Spp. (honeybush): towards sustainable cultivation in the Western Cape of South Africa. Unpublished PhD thesis, University of Cape Town

NODULATED LEGUMES OF INDIA – A COMPILATION

K.V. MALLAIAH AND M. SRIDEVI

Mallaiah and Sridevi present this compilation of Indian legume nodulation records with the intention of stimulating further work on the subject, in particular to encourage authentication of earlier reports. *

Taxon	Status	Source
<i>Abrus precatorius</i> L.	+	29
<i>Acacia acuminata</i> Benth.	+	29
<i>Acacia aneura</i> F. Muell.	+	29
<i>Acacia aruriculiformis</i> A.Cunn. ex Benth.	+	4
<i>Acacia benthamii</i> Meisn.	+	56
<i>Acacia berlandieri</i> Benth.	+	29
<i>Acacia catechu</i> Willd.	+	10
<i>Acacia concinna</i> (Willd.) DC.	+	44
<i>Acacia constricta</i> Benth.	+	10
<i>Acacia cyclopes</i> A. Cunn. ex G.Don	+	29
<i>Acacia drepanolobium</i> Harms ex Sjöstedt	+	10
<i>Acacia farnesiana</i> (L.) Willd.	+	29
<i>Acacia ferruginea</i> DC.	+	26
<i>Acacia greggii</i> Gray	+	29
<i>Acacia hockii</i> De Wild.	+	10
<i>Acacia holosericea</i> A. Cunn. ex G.Don.	+	61
<i>Acacia intsia</i> Willd.	+	81
<i>Acacia jaquemontii</i> Benth.	+	29
<i>Acacia lenticularis</i> Buch. Ham. ex. Wall.	+	56
<i>Acacia leucophloea</i> (Roxb.) Willd.	+	81
<i>Acacia ligulata</i> Aiton ex Steudel	+	29
<i>Acacia linifolia</i> (Vent.) Willd.	+	29
<i>Acacia nilotica</i> (L.) Willd. ex Del.	+	10
<i>Acacia nilotica</i> (L.) Willd. ex Del. as <i>Acacia arabica</i> Willd.	+	29
<i>Acacia nubica</i> Benth.	+	10
<i>Acacia pendula</i> A.Cunn ex G.Don	+	29
<i>Acacia pennata</i> (L.) Willd.	+	81
<i>Acacia planifrons</i> Koenig ex Wight & Arn.	+	19
<i>Acacia salicina</i> Lindl.	+	10
<i>Acacia sclerosperma</i> F.Muell.	+	29
<i>Acacia senegal</i> (L.) Willd.	+	9
<i>Acacia seyal</i> Delile var. <i>seyal</i>	+	29
<i>Acacia suma</i> Buch. -Ham. ex Wall.	+	19
<i>Acacia sundra</i> DC.	+	44
<i>Acacia tortilis</i> (Forssk.) Hayne	+	9
<i>Acacia victoriae</i> Benth.	+	10
<i>Acrocarpus fraxinifolius</i> Wight & Arn.	-	56
<i>Adenanthera microsperma</i> Teijsm. & Binn.	-	57
<i>Aeschynomene aspera</i> L.	+	98
<i>Aeschynomene cristata</i> Vatke	+	42
<i>Aeschynomene indica</i> L.	+	6
<i>Albizia amara</i> Willd.	+	44
<i>Albizia chinensis</i> (Osbeck.) Merr.	+	44
<i>Albizia lebbeck</i> (L.) Benth.	+	9
<i>Albizia odoratissima</i> (Willd.) Benth.	+	4
<i>Albizia procera</i> (Roxb.) Benth.	+	56
<i>Albizia saponaria</i> (Lour.) Bl.	+	54

<i>Alysicarpus belgaumensis</i> W.F. Wight	+	82
<i>Alysicarpus bupleurifolius</i> (L.) DC.	+	44
<i>Alysicarpus hamosus</i> Edgew.	+	29
<i>Alysicarpus heterophyllus</i> (Baker) Jafri & Ali	+	44
<i>Alysicarpus longifolius</i> (Spreng.) Wight & Arn.	+	28
<i>Alysicarpus tetragonolobus</i> Edgew.	+	13
<i>Alysicarpus vaginalis</i> (L.) DC.	+	21
<i>Alysicarpus. monilifera</i> DC.	+	13
<i>Arachis duranensis</i> Krapov & W.C. Greg.	+	22
<i>Arachis glabrata</i> Benth.	+	22
<i>Arachis hypogaea</i> L.	+	3
<i>Arachis hypogaea</i> L. subsp. <i>fastifata</i> Watdrön as <i>Arachis fastigata</i> *	+	49
<i>Arachis hypogaea</i> L. var. <i>vulgaris</i> Harz	+	49
<i>Arachis marginata</i> Gardn. *	+	22
<i>Arachis prostrata</i> Benth. *	+	22
<i>Arachis villosa</i> Benth. *	+	22
<i>Argyrolobium flaccidum</i> (Royle) Jaub. & Spach.	+	48
<i>Astragalus graveolons</i> Benth.	+	48
<i>Astragalus leucocephalus</i> Benth.	+	48
<i>Atylosia lineata</i> Wight & Arn.	+	81
<i>Atylosia scarabaeoides</i> (L.) Benth.	-	79
<i>Bauhinia alba</i> *	-	10
<i>Bauhinia diphylla</i> Buch. -Ham.	-	81
<i>Bauhinia galpinii</i> N.E. Br.	-	54
<i>Bauhinia purpurea</i> L.	-	10
<i>Bauhinia racemosa</i> Lam.	-	81
<i>Bauhinia tomentosa</i> L.	-	44
<i>Bauhinia vahlii</i> Wight & Arn.	-	44
<i>Bauhinia variegata</i> L. var. <i>candida</i> (Aiton) Voigt.	-	10
<i>Bohisanthus speciosus</i> (Bolus) Harms	+	8
<i>Butea monosperma</i> (Lam.) Taub.	+	81
<i>Caesalpinia bonduc</i> (L.) Roxb. as <i>Caesalpinia bonducella</i> (L.) Flem.	-	44
<i>Caesalpinia pulcherrima</i> (L.) Sw.	-	58
<i>Cajanus cajan</i> (L.) Huth.	+	64
<i>Calliandra houstoniana</i> (Mill.) Standl. var. <i>calothyrsus</i> as <i>Calliandra calothyrsus</i> Meissn.	-	58
<i>Calopogonium mucunoides</i> Desv.	+	32
<i>Calopogonium pubescens</i> *	-	32
<i>Campylotropis eriocarpa</i> (DC.) Schindl.	+	58
<i>Campylotropis stenocarpa</i> (Klotzsch) Schindl.	+	48
<i>Campylotropis stenocarpa</i> (Klotzsch) Schindl. as <i>Lespedeza stenocarpa</i> Maxim.	+	48
<i>Canavalia gladiata</i> (Jacq.) DC.	+	50
<i>Caragana brevispina</i> Royle	+	48
<i>Cassia fistula</i> L.	+	68
<i>Cassia javanica</i> L. subsp. <i>nodosa</i> (Roxb.) K.Larsen & S.S. Larsen as <i>Cassia nodosa</i> Buch. -Ham.	-	7
<i>Centrosema pubescens</i> Benth.	+	63
<i>Chamaecrista absus</i> (L.) H.S. Irwin & Barneby as <i>Cassia absus</i> L.	+	96
<i>Chamaecrista mimosoides</i> (L.) Greene as <i>Cassia mimosoides</i> L.	+	51
<i>Chamaecrista pumila</i> (Lam.) V. Singh	+	39
<i>Chamaecrista pumila</i> (Lam.) V. Singh as <i>Cassia pumila</i> Lam.	+	39
<i>Chesneya cuneata</i> (Benth.) Ali	-	48
<i>Cicer arietinum</i> L.	+	36
<i>Cicer echinospermum</i> *	+	88

<i>Cicer pinnatifidum</i> *	+	88
<i>Cicer reticulatum</i> *	+	88
<i>Clitoria biflora</i> Dalz.	+	13
<i>Clitoria retusa</i> *	+	83
<i>Clitoria ternatea</i> L.	+	36
<i>Codariocalyx motorius</i> (Houtt.) H. Ohashi as. <i>Desmodium gyrans</i> DC.	+	24
<i>Colophospermum mopane</i> Kirk ex J. Léonard	-	9
<i>Crotalaria angulata</i> Mill.	+	101
<i>Crotalaria burhia</i> Buch. - Ham	+	29
<i>Crotalaria calycina</i> Schrank	+	100
<i>Crotalaria capensis</i> Jacq.	+	29
<i>Crotalaria filipes</i> Benth.	+	13
<i>Crotalaria hebecarpa</i> (DC.) Rudd as <i>Goniogyna hirta</i> (Willd.) Ali.	+	82
<i>Crotalaria hebecarpa</i> (DC.) Rudd as <i>Heylandia latebrosa</i> (L.) DC.)	+	39
<i>Crotalaria hirsuta</i> Willd.	+	44
<i>Crotalaria juncea</i> L.	+	36
<i>Crotalaria laburnifolia</i> L.	+	44
<i>Crotalaria linifolia</i> L.f.	+	75
<i>Crotalaria nana</i> Burm . f.	+	13
<i>Crotalaria notonii</i> Wight & Arn.	+	75
<i>Crotalaria orixensis</i> Willd.	+	13
<i>Crotalaria pallida</i> Aiton	+	15
<i>Crotalaria retusa</i> L.	+	69
<i>Crotalaria verrucosa</i> L.	+	75
<i>Crotalaria vestita</i> Bak.	+	13
<i>Cyamopsis psoraloides</i> DC.	+	73
<i>Cyamopsis tetragonaloba</i> (L.) Taub.	+	64
<i>Dalbergia lanceolaria</i> L.f.	+	83
<i>Dalbergia lanceolaria</i> L.f. subsp. <i>paniculata</i> (Roxb.) Thoth. as <i>Dalbergia paniculata</i> Roxb.	+	81
<i>Dalbergia latifolia</i> Roxb.	+	81
<i>Dalbergia melanoxydon</i> Guill. & Perr.	+	47
<i>Dalbergia sericea</i> G. Don	+	58
<i>Dalbergia sissoo</i> DC.	+	21
<i>Dalbergia sympathetica</i> Nimmo	+	13
<i>Delonix elata</i> (L.) Gamble	+	81
<i>Delonix regia</i> (Hook.) Raf.	-	58
<i>Derris robusta</i> (Roxb. ex DC.) Benth.	+	29
<i>Derris scandens</i> (Roxb.) Benth.	+	81
<i>Desmanthes virgatus</i> (L.) Willd.	+	39
<i>Desmodium diffusum</i> (Willd.) DC.*	+	14
<i>Desmodium elegans</i> Benth.	+	18
<i>Desmodium gangeticum</i> (L.) DC.	+	29
<i>Desmodium laxiflorum</i> DC.	+	82
<i>Desmodium multiflorum</i> DC.	+	57
<i>Desmodium sandwicense</i> E. Mey.*	+	29
<i>Desmodium tiliifolium</i> (D. Don) G. Don	+	54
<i>Dicerma biarticulatum</i> (L.) DC.	+	83
<i>Dichrostachys cineraria</i> (L.) Wight & Arn.	+	29
<i>Dichrostachys glomerata</i> (Forssk). Chiov*	+	10
<i>Dichrostachys nutans</i> Benth.*	+	29
<i>Enterolobium contortisiliquum</i> (Vell.) Morong.	+	56
<i>Erythrina abyssinica</i> Lam.	+	54
<i>Erythrina arborescens</i> Roxb.	+	76
<i>Erythrina blakei</i> R. Parker	+	58

<i>Erythrina caffra</i> Thunb.	+	54
<i>Erythrina fusca</i> Lour. as <i>E. glauca</i> Willd.	+	13
<i>Erythrina indica</i> Lam.	+	27
<i>Erythrina indica</i> Lam. as <i>E. variegata</i> L.	+	60
<i>Erythrina parcelli</i> *	+	60
<i>Faidherbia albida</i> (Del.) A.Chev. as <i>Acacia albida</i> Del.	+	56
<i>Flemingia chappar</i> Ham –Buch. ex. Benth.	+	100
<i>Flemingia procumbens</i> Roxb.	+	57
<i>Geissaspis cristata</i> Wight & Arn.	+	13
<i>Geissaspis tenella</i> Benth.	+	81
<i>Genista cristata</i> *	+	13
<i>Gleditsia macrantha</i> Desf.	-	58
<i>Gliricidia maculata</i> Kunth*	+	77
<i>Gliricidia sepium</i> (Jacq.) Steud	+	60
<i>Glycine javanica</i> L.*	+	91
<i>Glycine max</i> (L.) Merr.	+	64
<i>Glycine soja</i> Siebold & Zucc.*	+	87
<i>Hardwickia binata</i> Roxb.	-	56
<i>Indigofera astragalina</i> DC.	+	74
<i>Indigofera cassioides</i> DC.	+	44
<i>Indigofera cordifolia</i> Roth	+	39
<i>Indigofera glandulosa</i> Wendl.	+	82
<i>Indigofera heterantha</i> Brandis	+	48
<i>Indigofera heterantha</i> Brandis as <i>Indigofera gerrardiana</i> Harv.	+	1
<i>Indigofera hirsuta</i> Linn.	+	44
<i>Indigofera höchstetteri</i> Baker as <i>Indigofera anabaptista</i> Steud.	+	39
<i>Indigofera linifolia</i> (L.f.) Retz.	+	81
<i>Indigofera linnaei</i> Ali	+	104
<i>Indigofera nummularifolia</i> (L.) Alston as <i>Indigofera echinata</i> Willd.	+	74
<i>Indigofera oblongifolia</i> Forssk.	+	29
<i>Indigofera prostata</i> Willd.	+	81
<i>Indigofera stipularis</i> Link*	+	82
<i>Indigofera tinctoria</i> L.	+	36
<i>Indigofera tinctoria</i> L. as <i>Indigofera summatrana</i> Gaertn.	+	29
<i>Indigofera trifoliata</i> L.	+	44
<i>Indigofera trifoliata</i> L. var. <i>duthei</i> (Naik) Sanjappa as <i>Indigofera duthei</i> J.R. Drum. ex Naik	+	74
<i>Indigofera trita</i> L.f.	+	74
<i>Indigofera zollingeriana</i> Miq. as <i>Indigofera teysmani</i> Miq.	+	39
<i>Lablab purpureus</i> (L.) Sweet as <i>Dolichos lablab</i> L.	+	64
<i>Lablab purpureus</i> (L.) Sweet as <i>Dolichos lablab</i> var. <i>lignosus</i>	+	40
<i>Lablab purpureus</i> (L.) Sweet as <i>Dolichos lablab</i> var. <i>typicus</i>	+	40
<i>Lathyrus aphaca</i> L.	+	35
<i>Lathyrus purpureus</i> *	+	32
<i>Lathyrus sativus</i> L.	+	85
<i>Lens culnaris</i> Medik	+	86
<i>Lespedeza juncea</i> (L.f.) Pers. var. <i>sericea</i> (Thunb.) Lace & Hemsl. as <i>Lespedeza sericea</i> (Thunb.) Benth.	+	29
<i>Leucaena leucocephala</i> (Lam) de Wit as <i>Leucaena glauca</i> (L.) Benth.	+	10
<i>Leucaena leucocephala</i> Lam.	+	10
<i>Leucaena pulverulenta</i> Benth.	+	27
<i>Lotus corniculatus</i> L.	+	67
<i>Lotus hispidus</i> Desf.	+	67
<i>Lupinus albus</i> L.	+	64
<i>Lupinus angustifolius</i> L.	+	29

<i>Lupinus indica</i> *	+	64
<i>M. pruriens</i> (L.) DC.	+	75
<i>Macroptilium atropurpureum</i> (DC.) Urban as <i>Phaseolus atropurpureum</i> Mc. & Sesse	+	79
<i>Macroptilium lathyroides</i> (L.) Urban as <i>Phaseolus lathyroides</i> L.	+	70
<i>Macroptilium lathyroides</i> (L.) Urban as <i>Phaseolus psoralloides</i> . Wight & Arn.	+	96
<i>Macrotyloma uniflorum</i> (Lam.) Verdc.	+	64
<i>Medicago indica</i> *	+	29
<i>Medicago orbicularis</i> (L.) Bartal.	+	89
<i>Medicago polycerata</i> Sauv. ex Trautv.	+	34
<i>Medicago sativa</i> L.	+	35
<i>Medicago scutella</i> (L.) Mill.*	+	89
<i>Medicago truncatula</i> Gaertn.*	+	39
<i>Melilotus alba</i> Medik.	+	93
<i>Melilotus indicus</i> (L.) All. as <i>Melilotus parviflorum</i> Desf.	+	99
<i>Melilotus wolgica</i> Poir.	+	89
<i>Millettia indica</i> (L.) Panigrahi as <i>Derris indica</i> (Lam.) Benth.	+	81
<i>Millettia pinnata</i> (L.) Panigrahi as <i>Pongamia pinnata</i> (L.) Pierre	+	95
<i>Mimosa hamata</i> Willd.	+	81
<i>Mimosa pudica</i> L.	+	76
<i>Mimosa rubicaulis</i> Lam.	+	84
<i>Moullava spicata</i> (Dalz.) Nicolson as <i>Caesalpinia spictata</i> Dalz.	-	81
<i>Mucuna bracteata</i> Kurz.	+	38
<i>Mucuna cochinchinensis</i> A.Chev.	+	29
<i>Neptunia oleracea</i> Lour.	+	71
<i>Ohwia caudata</i> (Thumb.) H. Ohashi as <i>Desmodium laburnifolium</i> (Poir.) DC.	+	83
<i>Ougeinia oojeinensis</i> (Roxb.) Hochr.	+	56
<i>Parkia biglandulosa</i> Wight & Arn.	+	26
<i>Parkinsonia aculeata</i> L.	-	7
<i>Parochetus communis</i> D.Don	+	31
<i>Peltophorum africanum</i> Sond.	-	56
<i>Peltophorum dubium</i> (Spreng.) Taub.	-	58
<i>Peltophorum pterocarpum</i> Backer ex K.Heyne	-	103
<i>Peltophorum pterocarpum</i> Backer ex K.Heyne as <i>Peltophorum ferrugineum</i> (Decne) Benth.	-	10
<i>Phaseolus coccineus</i> L. as <i>Phaseolus multiflorus</i> Lam.	+	29
<i>Phaseolus vulgaris</i> L.	+	105
<i>Pisum sativum</i> L.	+	36
<i>Pithecellobium dulce</i> (Roxb.) Benth.	+	4
<i>Pongamia glabra</i> Vent.*	+	11
<i>Prosopis chilensis</i> (Mol.) Stuntz.	+	56
<i>Prosopis chilensis</i> (Molina) Stuntz as <i>Prosopis siliquastrum</i> DC.	+	29
<i>Prosopis cineraria</i> (L.) Druce	+	9
<i>Prosopis julifera</i> (Sw.) DC.	+	9
<i>Psophocarpus tetragonolobus</i> (L.) DC.	+	53
<i>Psoralea corylifolia</i> L. as <i>Cullen corylifolia</i> (L.) Medik	+	39
<i>Pterocarpus marsupium</i> Roxb.	+	23
<i>Pterocarpus santalinus</i> L.f.	+	62
<i>Pueraria phaseoloides</i> (Roxb.) Benth.	+	29
<i>Pueraria phaseoloides</i> (Roxb.) Benth. var. <i>javanicus</i> (Benth.) Baker	+	29
<i>Rhynchosia hirta</i> (Andr.) Meikle & Verdc.	+	44
<i>Rhynchosia minima</i> (L.) DC.	+	44
<i>Rhynchosia rufescens</i> (Willd.) DC.	+	44
<i>Rhynchosia suaveolens</i> (L.f.) DC.	+	44
<i>Rhynchosia velutina</i> Wight & Arn.	+	101

<i>Robinia pseudoacacia</i> L.	+	56
<i>Rothia indica</i> (L.) Druce	+	15
<i>Samanea saman</i> (Jacq.) Merr.	+	103
<i>Samanea saman</i> (Jacq.) Merr. as <i>Albizia saman</i>	+	27
<i>Samanea saman</i> (Jacq.) Merr. as <i>Pithecellobium saman</i> (Jacq.) Benth.	+	10
<i>Saraca indica</i> L.	-	44
<i>Senna alata</i> (L.) Roxb. as <i>Cassia alata</i> L.	-	103
<i>Senna auriculata</i> (L.) Roxb. as <i>Cassia auriculata</i> L.	+	101
<i>Senna montana</i> (Roth.) V. Singh as <i>C. montana</i> Heyne ex Roth	+	83
<i>Senna obtusifolia</i> (L.) H.S. Irwin & Barneby	+	59
<i>Senna obtusifolia</i> (L.) H.S. Irwin & Barneby as <i>Cassia obtusifolia</i> L.	-	44
<i>Senna occidentalis</i> (L.) Link as <i>Cassia occidentalis</i> L.	+	68
<i>Senna siamea</i> (Lam.) H.S. Irwin & Barneby as <i>C. siamea</i> Lam.	-	56
<i>Senna sulfurea</i> (Collad.) H.S. Irwin & Barneby as <i>Cassia glauca</i> L.f.	-	56
<i>Senna tora</i> (L.) Roxb. as <i>C. tora</i> L.	+	80
<i>Sesbania aculeata</i> (Willd.) Poir.	+	65
<i>Sesbania bispinosa</i> (Jacq.) W.F. Wight	+	30
<i>Sesbania cannabina</i> (Retz.) Pers.	+	45
<i>Sesbania formosa</i> F. Muell.*	+	102
<i>Sesbania grandiflora</i> (L.) Poir.	+	94
<i>Sesbania macrocarpa</i> Muhl.*	+	90, 92
<i>Sesbania procumbens</i> (Roxb.) Wight & Arn.	+	15
<i>Sesbania rostrata</i> Brem. & Oberm.	+	41
<i>Sesbania sericea</i> (Willd.) Link	+	25
<i>Sesbania sesban</i> (L.) Merr.	+	29
<i>Sesbania sesban</i> (L.) Merr. as <i>Sesbania aegyptiaca</i> Poir	+	14
<i>Sesbania speciosa</i> Taub.	+	65
<i>Sesbania spinosa</i> *	+	75
<i>Sesbania tetraptera</i> Hochst. ex Baker*	+	72
<i>Shutteria densifolia</i> Benth.	+	57
<i>Shutteria involucrata</i> (Walt.) Wight & Arn.	+	44
<i>Smithia bigemina</i> Dalz.	+	81
<i>Smithia blanda</i> Wall. as <i>S. racemosa</i> Heyne	+	82
<i>Smithia capitata</i> Dalz.	+	13
<i>Smithia conferata</i> Sm.	+	82
<i>Smithia hirsuta</i> Dalz.	+	82
<i>Smithia purpurea</i> Hok.	+	13
<i>Smithia pycantha</i> Baker	+	13
<i>Smithia sensitiva</i> Aiton	+	82
<i>Smithia setulosa</i> Dalz.	+	82
<i>Sophora mollis</i> (Royle) Baker.	+	100
<i>Stylosanthes gracilis</i> Taub.*	+	66
<i>Stylosanthes guyanensis</i> (Aubl.) Sw. is an orthographic variant of <i>Stylosanthes guianensis</i> (Aubl.) Sw.	+	67
<i>Stylosanthes hamata</i> (L.) Taub.*	+	37
<i>Stylosanthes humilis</i> Kunth	+	67
<i>Stylosanthes sympodialis</i> Taub.*	+	2
<i>Tadehagi triquetrum</i> (L.) Ohashi subsp. <i>pseudotriquetrum</i> (DC.) H. Ohashi as <i>Desmodium triquetrum</i> subsp. <i>pseudotriquetrum</i> (L.) DC.	+	100
<i>Tamarindus indica</i> L.	-	7
<i>Taverniera cuneifolia</i> (Roth) Arn.	+	39
<i>Tephrosia apollinea</i> (Delile) Link.	+	35
<i>Tephrosia falciformis</i> Ramasw.	+	29
<i>Tephrosia pumila</i> (Lam.) Pers. as <i>T. purpurea</i> var. <i>pumila</i> (Lam.) Baker	+	75
<i>Tephrosia purpurea</i> (Lam.) Pers.	+	79

<i>Tephrosia spinosa</i> (L.f.) Pers.	+	44
<i>Tephrosia strigosa</i> (Dalz.) Santapau & Maheshw. as <i>Tephrosia tenuis</i> Wall.*	+	79
<i>Tephrosia tinctoria</i> (L.) Pers. as <i>Tephrosia pulcherrima</i> (Baker) Gamble	+	44
<i>Tephrosia villosa</i> (L.) Pers.	+	29
<i>Teramnus labialis</i> (L.f.) Spreng.	+	39
<i>Thermopsis barbata</i> Royle	+	48
<i>Trifolium alexandrinum</i> L.	+	78
<i>Trifolium glomeratum</i> L.	+	97
<i>Trifolium hybridum</i> L.	+	29
<i>Trifolium repens</i> L.	+	29
<i>Trifolium resupinatum</i> L.	+	43
<i>Trifolium subterraneum</i> L.	+	29
<i>Trigonella corniculata</i> (L.) L.	+	89
<i>Trigonella foenum-graecum</i> L.	+	33
<i>Trigonella occulata</i> Ser.	+	50
<i>Trigonella polycerata</i> L.*	+	35
<i>Uraria picta</i> (Jacq.) DC.	+	96
<i>Vicia faba</i> L.	+	16
<i>Vicia hirsuta</i> (L.) S.F. Gray.	+	29
<i>Vicia sativa</i> L. var. <i>angustifolia</i> Ser.	+	29
<i>Vigna aconitifolia</i> (Jacq.) Maréchal	+	65
<i>Vigna aconitifolia</i> (Jacq.) Maréchal as <i>Phaseolus aconitifolius</i> Jacq.	+	79
<i>Vigna khandalensis</i> (Santapau) Raghavan & Wadha	+	82
<i>Vigna marina</i> (Burm.f.) Merr.	+	55
<i>Vigna mungo</i> (L.) Hepper	+	64
<i>Vigna radiata</i> (L.) R. Wilczek var. <i>setulosa</i> (Dalz.) Ohwi & H. Ohashi as <i>P. sublobtus</i> Roxb.	+	12
<i>Vigna radiata</i> (L.) R. Wilczek	+	64
<i>Vigna radiata</i> (L.) R. Wilczek var. <i>mungo</i> *	+	10
<i>Vigna radiata</i> (L.) R. Wilczek var. <i>setulosa</i> (Dalz.) Ohwi & H. Ohashi as <i>V. radiata</i> (L.) R. Wilczek var. <i>sublobata</i>	!	82
<i>Vigna radiata</i> (L.) R. Wilczek var. <i>aureus</i> *	+	20
<i>Vigna umbellata</i> (Thunb.) Ohwi & H. Ohashi	+	17
<i>Vigna umbellata</i> (Thunb.) Ohwi & Ohashi as <i>Phaseolus calcaratus</i> Roxb.	+	12
<i>Vigna unguiculata</i> (L.) Walp.	+	36
<i>Vigna unguiculata</i> (L.) Walp. as <i>V. sinensis</i> subsp. <i>sesqueipedalis</i> (L.) Verdc.	+	29
<i>Xylia xylocarpa</i> (Roxb.) Taub.	+	44
<i>Zornia diphylla</i> (L.) Pers.	+	106
<i>Zornia gibbosa</i> Span.	+	81

Ed. note: Names were checked against and amended according to Kumar, S & Sane, P.V. 2003. Legumes of South Asia: A Check-List. Royal Botanic Gardens Kew. 536 pp. and the International Plant Names Index. * denotes names not found in the Check-List.

GLEANINGS

CANE and students Swoboda and Watrous are studying the pollination ecologies of several herbaceous, perennial native legumes, specifically *Astragalus filipes*, *Hedysarum boreale*, *Lupinus argenteus*, *Dalea ornata* & *D. searlsiae* (and a more accessible surrogate for these last species, *D. purpurea*). Seed of these species is desired for plant community restoration at diverse spatial scales. The last species is currently farmed for prairie restoration on the North American Great Plains. Methods and protocols for farming the first five species are being developed, to produce literally tons of affordable seed to rehabilitate degraded plant communities in the Rocky Mountains (*H. boreale*) or the Great Basin of North America. None of these legumes is significantly autogamous, and outcrossing enhances seed production relative to self-pollination. They are primarily pollinated by bees, especially species of *Osmia* and lesser numbers of *Bombus*, *Eucera*, *Megachile* and other native species. Nest management methods are being developed for the more amenable and effective bee species to use on-farm for pollination of several of these legumes. (jcañe@biology.usu.edu)

Ellison and LISTON are conducting molecular phylogenetic studies of the genus *Trifolium* and request samples (seeds or herbarium specimens) of the following species. If material is limited, we can use as little as a single leaflet, and have had success with specimens that are up to 50 years old. Please mail to: Dr. Nick Ellison, Grasslands Research Centre, AgResearch, Private Bag 11008, Palmerston North, New Zealand.

T. acutiflorum Morocco; *T. angulatum* SE Europe; *T. ankaratrense* Madagascar; *T. antucoensis* Chile; *T. attenuatum* S Rocky Mts, USA; *T. bivonae* Sicily; *T. blancheanum* Lebanon, Israel; *T. caudatum* Turkey; *T. chlorotrichum* Turkey; *T. cinctum* Balkan peninsula; *T. congestum* Balkan peninsula, Italy; *T. daveauanum* France; *T. davisii* Turkey; *T. dichroanthoides* Syria; *T. dolopium* Greece; *T. elgonense* Uganda, Kenya, Ethiopia; *T. euxinum* Turkey; *T. gillettianum* Cameroon; *T. juliani* Tunisia, Algeria; *T. mauginianum* Ethiopia; *T. meironense* Turkey, Israel; *T. mucronatum* SW USA, Mexico; *T. pachycalyx* Turkey; *T. pilczii* Balkan peninsula; *T. radicosum* Iran; *T. roussaeum* Turkey; *T. saxatile* European Alps; *T. sebastianii* SE Europe - SW Asia; *T. siskiyouense* Oregon, USA; *T. stipulaceum* S. Africa; *T. ukingense* Tanzania; *T. velenovskyi* Balkan Peninsula; *T. vestitum* Chile; *T. wentzelianum* Tanzania; *T. wettsteinii* Balkan Peninsula. (listona@bcc.orst.edu)

GONCHAROV is interested in collaborating with others researching tribes Swartzieae and Sophoreae *sens. lat.* (mgonch@mail.ru).

HOLDEN is a PhD student whose thesis topic is the origin of the domesticated pea species *Pisum abyssinicum*, and its relationship to wild Pea species (david.holden@bbsrc.ac.uk)

MACKINDER and WIERINGA are collaborating on a project comprising a phylogenetic investigation and taxonomic revision of the heterogenous *Hymenostegia*, testing hypotheses of generic limits and correct placement of taxa, following a preliminary study to investigate the generic boundary between *Talbotiella* and *Hymenostegia* which suggested that several species currently accommodated in *Hymenostegia* were doubtfully correctly placed there. (B.Mackinder@rbgkew.org.uk)

MAXWELL, R.H. is revising a reviewed article for NOVON which contains nine new species of *Dioclea sens. lat.* and divides the genus into subgenera. (maxwell@ius.edu).

MAXWELL, R.H, L.P. de Queiroz and D.W.TAYLOR are collaborating on a project to recognize *Dioclea sens. lat.* as several genera based principally on morphological data but also on the results of phylogenetic analyses of molecular data when available. (maxwell@ius.edu).

SPRENT announces a new project. A NERC-funded project awarded to Euan K James, Janet Sprent and others, in parallel with another project in York, is looking at the nodulation of *Mimosa* species in Brazil by β -rhizobia (especially species of *Burkholderia*). They have good collaboration with various scientists in Brazil, including Marcelo Simon, a *Mimosa* taxonomy specialist, currently studying for a PhD in Oxford with Colin Hughes. It appears that *Mimosa* species in many parts of the world nodulate, not with 'normal' rhizobia, which are in the α -branch of the Proteobacteria, but with bacteria from the β -branch. They should like to hear from anyone in other countries (especially parts of Asia and Madagascar) that have endemic *Mimosa* species who would like to collaborate by providing seed and/or desiccated nodules: see also publications by Chen et al., 2005 under Recent Legume Literature. (jisprent@aol.com)

VAN DER MAESEN is close to completing his accounts of the 3 subfamilies of Leguminosae, for the Analytical Flora of Benin, planned for publication later in 2006. He continues to work up *Flemingia* for Flora Malesiana, and the revision of the entire genus. His treatment of *Flemingia* and other Cajaninae for the pending volume of the Flora of Australia awaits publication. (Jos.vanderMaesen@wur.nl)

VAN DER MAESEN notifies Bean Bag readers that the Checklist of Gabonese Vascular Plants, Scripta Botanica Belgica 35, 2006, pp.438 co-authored by Sosef, WIERINGA and JONGKIND, has just been published in which the Caesalpinioideae account of 185 species was reviewed by WIERINGA (pp 206-229), the Mimosoideae account of 46 species was reviewed by JONGKIND (pp 229-233) and Papilionoideae account of 220 species was reviewed by VAN DER MAESEN (pp 233-249) (Jos.vanderMaesen@wur.nl).

VANDERBORGHT, is maintaining a Phaseoleae-Phaseolinae collection, chiefly centred on wild *Phaseolus* and *Vigna* species. Detailed data can be consulted at the following address:
<http://www.br.fgov.be/RESEARCH/COLLECTIONS/LIVING/PHASEOLUS> (T.Vanderborght@br.fgov.be)

RECENT LEGUME LITERATURE

Ed. Note: Every effort has been made to ensure authors' names are correctly cited but please notify the editor if your name is misspelled. Authors names in all capital letters are *Bean Bag* Readers.

- Abou El Enain, M.M. 2004. SDS-PAGE of seed protein criteria in relation to taxonomy of *Onobrychis* sect. *Lophobrychis* s. str. and the Egyptian species. *Cytologia (Japan)*, 69(3): 351-358
- Alba-López A. 2005. Revision de las especies colombianas de *Inga* sección *Bourgonia*. In FORERO, E. and C.Romero (eds.). 2005. Estudios en Leguminosas Colombianas. Col. Jorge Álvarez Lleras 25: 131-174
- Alejandra, C.M. and G. Bernardello. 2005. Karyotype analysis in Argentinean species of *Caesalpinia* (*Leguminosae*). *Caryologia*, 58(3): 262-268 - illus.
- Angiolini, C., F. Frignani and M. Landi. 2004. Alcune note su *Ononis viscosa* L. e *O. breviflora* DC. in Italia. (Notes about *Ononis viscosa* L. and *O. breviflora* DC. in Italy). *Inform. Bot. Ital.*, 36(1): 168-174 In Italian.
- Arebschatian, I.G. 2004. Genus *Vicia* L. (*Fabaceae*) in southern Transcaucasia). *Flora Rastitelnost Rast. Res. Arm.*, 15: 37-43 In Russian with summary in English, Armenian.
- Arevschatian, I.G. 2004. Three new species for the Armenian flora of *Fabaceae* family. *Flora Rastitelnost Rast. Res. Arm.*, 15: 111 In Russian.
- Arevschatian, I.G. and T.N. Smekalova. 2004. (Underground blossoming and fruiting of *Lens ervoides* (Brign.) Grande.) *Flora Rastitelnost Rast. Res. Arm.*, 15: 70-71 - illus. In Russian with summary in English, Armenian.
- Bao-Ning Su, Bang Yeon Hwang, Heebyung Chai, Esperanza J. Carcache-Blanco, Leonardus B. S. Kardono, Johar J. Afriastini, Soedarsono Riswan, Robert Wild, Naomi Laing, I. Norman R. Farnsworth, Geoffrey A. Cordell, Steven M. Swanson, and A. Douglas Kinghorn. 2004. Activity-guided fractionation of the leaves of *Ormosia sumatrana* using a Proteasome Inhibition Assay. *Journ. Nat. Prod.* 67: 1911-1914
- Bello, M.A. and E. FORERO. 2005. Revision del genero *Calliandra* (*Leguminosae*: *Mimosoideae*: *Ingeae*) en Colombia. . In FORERO E. and C.Romero (eds.). 2005. Estudios en Leguminosas Colombianas. Col. Jorge Álvarez Lleras 25: 39-110
- BRIZUELA, M.M., A.D. Burghardt, D. Tanoni and R.A. PALACIOS 2000. Estudio de la variacion morfologica en tres procedencias de *Prosopis flexuosa* y su manifestacion en cultivo baja condiciones uniformes. (Study of the morphological variation in three procedences of *Prosopis flexuosa*, and its manifestation in culture under uniform conditions.) *Mendoza*, 9: 7-15 - illus. In Spanish.
- Bianco, C.A., F. Weberling and T.A. Kraus. 2005. La presencia de *Trifolium campestre* (*Fabaceae*) en la Argentina continental. (The presence of *Trifolium campestre* (*Fabaceae*) in continental Argentina.) *Kurtziana*, 31(1-2): 99-102 - illus. In Spanish.
- Bisby F.A., ZARUCCHI J L, SCHRIRE B D, ROSKOV Y R & White R J, eds. 2005. ILDIS World Database of Legumes (edition 9). Electronic publication available on the Internet (LegumeWeb service at www.ildis.org). International Legume Database & Information Service, Reading.

- Bock, B., P. Coulot, H. Michaud and J. Van Es. 2005. *Lens lamottei* Czefranova, espece meconnue de la flore de France. *Monde Pl.*, 100(486): 17-20 In French.
- Bomble, F.W. and G.H. Loos. 2004. Zwei neue Arten der *Vicia sativa* -Gruppe. *Flor. Rundbr.*, 38(1-2): 65-77 - col. illus. In German. 2 spp. nov.
- Boonkerd, T., S. Pechsri and B.R. Baum. 2005. A phenetic study of *Cassia* sensu lato (*Leguminosae-Caesalpinioideae: Cassieae: Cassiinae*) in Thailand. *Pl. Syst. Evol.*, 252(3-4): 153-165
- Bortoluzzi, R.L. da C., F.C.P. Garcia, R.M. de Carvalho Okano and A.M.G. de Azevedo Tozzi 2003. *Leguminosae-Papilionoideae* no Parque Estadual do Rio Doce, Minas Gerais, Brasil. I: trepadeiras e subarbustos. (*Leguminosae-Papilionoideae* at Parque Estadual do Rio Doce, Minas Gerais, Brazil. I: vines and subshrubs.) *Iheringia, Bot.*, 58(1): 25-60 - illus. In Portugese.
- Brullo, S. and G.G. del Galdo. 2004. Indagine tassonomica su *Anthyllis hermanniae* L., specie critica della flora mediterranea. (Taxonomical investigation on *Anthyllis hermanniae* L., a critical taxon of the Mediterranean flora.) *Inform. Bot. Ital.*, 36(1): 158-159 In Italian.
- Burghardt, A.D., M.M. BRIZUELA and R.A. PALACIOS 2000. Variabilidad en plantulas de algunas especies de *Prosopis* L. (*Fabaceae*) en busca de descriptores morfologicos. (Variability in seedlings of some species of *Prosopis* (*Fabaceae*) searching for morphological descriptors.) *Mendoza*, 9: 23-33 - illus. In Spanish.
- Burgoyne, P.M., van WYK, A.E., Anderson, J.M. & SCHRIRE, B.D. 2005. Phanerozoic evolution of plants on the African plate. *Journal of African Earth Sciences* 43: 13-52.
- Camargo, R.A. and S.T.S. MIOTTO. 2004. O genero *Chamaecrista* Moench (*Leguminosae-Caesalpinioideae*) no Rio Grande do Sul. (The genus *Chamaecrista* Moench (*Leguminosae-Caesalpinioideae*) in Rio Grande do Sul.) *Iheringia, Bot.*, 59(2): 131-148 - illus. In Portugese.
- Chang, Z.Y., Z.H. Wu and L.R. Xu. 2005. (*Oxytropis aciphylla* f. *albiflora*, a new form of *Leguminosae* from Ningxia of China.) *Acta Bot. Bor. Occid. Sin.*, 25(5): 1022-1023 - col. illus. In Chinese. 1 form. nov.
- Chaudhary, L.B. and Z.H. Khan 2003. First report of *Astragalus* L. (*Fabaceae*) from Arunachal Pradesh, India. *Rheedea*, 13(1-2): 73-76 (publ. 2004) - illus.
- Chaudhary, L.B. and Z.H. Khan. 2005. *Astragalus khasianus* Benth. ex Bunge (*Leguminosae*), a new record for Myanmar. *J. Jap. Bot.*, 80(1): 52-56 - illus.
- Chen, W.M., James, E.K., Chou, J.H., Sheu, S.Y., Yang, S.Z. and SPRENT J.I. (2005). β - rhizobia from *Mimosa pigra*, a newly discovered invasive plant in Taiwan *New Phytologist*, 168: 661-675
- Chen, W-M., de Faria, S.M. , Straliootto, R., Pitard, R.M., Simões-Arújo, J.L., Chou, J-H., Chou, Y-J., Barrios, E., Prescott, A.R., Elliott, G.N., SPRENT, J.I., Young, P.W. and James, E.K. (2005). Proof that *Burkholderia* strains form effective symbiosis with legumes: a study of novel *Mimosa*-nodulating strains from South America. *Applied and Environmental Microbiology*, 71: 7461-7471
- Cheriyen Panicker, K.T. and P. Sreedevi. 2004. Comparative morphology of pollen forms in *Mimosaceae*. *J. Palynol.*, 40: 43-49 (publ. 2005)
- Cheriyen Panicker, K.T. and P. Sreedevi. 2004. Studies in the pollen morphology of *Mimosaceae* - polyad taxa. *J. Palynol.*, 40: 23-41 (publ. 2005) - illus.

- Cheriyen Panicker, K.T. and P. Sreedevi. 2004. Studies in the pollen morphology of *Mimosaceae* monad, tetrad & octad taxa. *J. Palynol.*, 40: 9-21 (publ. 2005) - illus.
- Cornejo, X. and C. Bonifaz. 2005. *Inga colonchensis* (*Fabaceae*, *Mimosoideae*), una nueva endemica del bosque seco tropical en Ecuador. *Novon*, 15(2): 270-273 - illus. In Spanish. 1 sp. nov.
- Cruz Duran, R. and M.S. Sousa. 2005. *Eysenhardtia officinalis* (*Leguminosae*, *Papilionoideae*), una especie nueva de Mexico. *Novon*, 15(3): 405-409 - illus. In Spanish. 1 sp. nov.
- DREWES, S.I. 2005. Morfologia de estilos y estigmas en *Macroptilium* (*Fabaceae*). (Style and stigma morphology in *Macroptilium* (*Fabaceae*)). *Kurtziana*, 31(1-2): 29-38 - illus. In Spanish.
- Dave, M. 2004. *Aeschynomene villosa* Poir (*Fabaceae*): a new record for India. *Rheedea*, 14(1-2): 61-62 - illus.
- Deng, Y.F. and H.N. Qin. 2005. New combination in the genus *Afgekia* (*Fabaceae*, *Papilionoideae*). *Ann. Bot. Fenn.*, 42(2): 133-134 1 comb. nov.
- Díaz-Martin, R.M. 2005. Sinopsi de las especies colombianas de *Pithecellobium* (*Leguminosae*: *Mimosoideae*: *Ingeae*). In FORERO E. and C.Romero (eds.). 2005. Estudios en Leguminosas Colombianas. Col. Jorge Álvarez Lleras 25: 281-300
- Doweld, A.B. 2003. (*Ursifolium* - a new genus name in *Fabaceae*.) *Byull. Mosk. Obshch. Ispyt. Prir., Biol.*, 108(4): 77-78 In Russian.
- Elaine, B., S.T.S. MIOTTO, M.T. Schifino Wittmann and B. De Castro. 2005. Cytogenetics and cytotaxonomy of Brazilian species of *Senna* Mill. (*Cassieae* - *Caesalpinioideae* - *Leguminosae*). *Caryologia*, 116(3-4): 152-163 - illus.
- Ellison, Nick W., LISTON, Aaron, Steiner, Jeffrey J., Williams, Warren M. and Norman L. Taylor. 2006. Molecular phylogenetics of the clover genus (*Trifolium*-*Leguminosae*). *Molecular Phylogenetics and Evolution*. In press expected May 2006.
- Enneking, D. 2000. An annotated bibliography for the genus *Lathyrus*. Nedlands, W.A.: Cooperative Research Centre for Legumes in Mediterranean Agriculture; Aleppo, Syria: International Center for Agricultural Research in the Dry Areas, ix, 354p. (Cooperative Research Centre for Legumes in Mediterranean Agriculture occasional publication; no.17) ISBN 9291270679 Covers agricultural, botanical, chemical, biochemical and medicinal literature.
- Ertugrul, K., H. Dural and Y. Bagci 2003. The rediscovery of *Sartoria* Boiss. & Heldr. (*Pisiktasagi*, *Leguminosae/Fabaceae*): a monotypic endemic genus of Turkey: *Karaca Arbor. Mag.*, 7(1): 13-18 - col. illus. In English, Turkish.
- Estrada Castillon, E., C. Yen Mendez, A. DELGADO SALINAS and J.A. Villareal Quintanilla. 2004. Leguminosas del centro del estado de Nuevo Leon, Mexico. (*Leguminosae* of central Nuevo Leon, Mexico.) *An. Inst. Biol. Univ. Nac. Auton. Mex., Bot.*, 75(1): 73-85 In Spanish.
- Estrella, M., F. Cabezas, C. Aedo and M. Velayos. 2005. Checklist of the *Mimosoideae* (*Leguminosae*) of Equatorial Guinea (Annobon, Bioko, Rio Muni). *Belg. J. Bot.*, 138(1): 11-23
- Etcheverry, A.V. and C.E. Trucco Aleman. 2005. Reproductive biology of *Erythrina falcata* (*Fabaceae*: *Papilionoideae*). *Biotropica*, 37(1): 54-63 - illus. Summary in Spanish.

- Evstatieva, L., V. Christov and N. Neikov. 2004. Chemotaxonomic study of some species of the genus *Genista* (*Fabaceae*). Cluster analysis. *Phytologia Balcanica*, 10(1): 39-43
- FLORES, A.S. and A.M.G. DE AZEVEDO TOZZI. 2005. A new species of *Crotalaria* (*Leguminosae*, *Papilionoideae*) from southeastern Brazil. *Novon*, 15(3): 418-420 - illus. Summary in Portuguese. 1 sp. nov.
- FLORES, A.S. and S.T.S. MIOTTO. 2005. Aspectos fitogeograficos das especies de *Crotalaria* L. (*Leguminosae*, *Faboideae*) na Regiao Sul do Brasil. (Phytogeographic aspects of the *Crotalaria* L. (*Leguminosae*, *Faboideae*) in Southern Brazil.) *Acta Bot. Brasil.*, 19(2): 245-249 In Portuguese.
- FORERO, E. and C.Romero (eds.). 2005. Estudios en Leguminosas Colombianas. Col Jorge Álvarez Lleras 25: 1-407. Acad. Colomb. Cienc. Fis. Ex nat., Inst. Humboldt, Inst. de Ciencias Naturales 7 Red. Latinoamericana de Botanica. Bogotá, D.C.
- FORERO, E. 2005. Introducción. In FORERO E. and C.Romero (eds.). 2005. Estudios en Leguminosas Colombianas. Col Jorge Álvarez Lleras 25: 11-18
- FORERO E., C.Romero & L.K. Ruiz. 2005. Historia Nomenclatural de La Leguminosae. En FORERO E. and C.Romero (eds.). 2005. Estudios en Leguminosas Colombianas. Col Jorge Álvarez Lleras 25: 19-28
- FORERO E., C.Romero & L.K. Ruiz. 2005. Bibliografia de Leguminosae. En FORERO E. and C.Romero (eds.). 2005. Estudios en Leguminosas Colombianas. Col. Jorge Álvarez Lleras 25: 399-406
- Frediani, M., F. Maggini, M.T. Gelati and R. Cremonini. 2004. Repetitive DNA sequences as probes for phylogenetic analysis in *Vicia* genus. *Caryologia*, 57(4): 379-386 - illus.
- Gao, X.F. 2004. A new synonym of *Hylodesmum podocarpum* ssp. *podocarpum* (*Leguminosae*.) *Acta Phytotax. Sin.*, 42(6): 573-574 - illus. Summary in Chinese
- Gardner, S.K., D.J. MURPHY, E. Newbigin, A.N. Drinnan and P.Y. Ladiges. 2005. An investigation of phyllode variation in *Acacia verniciflua* and *A. leprosa* (*Mimosaceae*), and implications for taxonomy. *Austral. Syst. Bot.*, 18(4): 383-398 - illus.
- Ge, X.J., Y. Yu, Y.M. Yuan, H.W. Huang and C. Yan. 2005. Genetic diversity and geographic differentiation in endangered *Ammopiptanthus* (*Leguminosae*) populations in desert regions of northwest China as revealed by ISSR analysis. *Ann. Bot. (UK)*, 95(5): 843-851 - illus.
- Gereau, R.E. and S. Bodine. 2005. *Crotalaria mwangulangoi* (*Fabaceae*, *Faboideae*), a new species from the Udzungwa Mountains, Tanzania. *Novon*, 15(2): 286-289 - illus. 1 sp. nov.
- Germishuizen, G., N.R. Crouch and G. Condly. 2005. *Afzelia quanzensis*. *Flow. Pl. Afr.*, 59: 74-83 - col. illus.
- Ghahremaninejad, F. 2005. *Astragalus hekmat-safaviae* (*Fabaceae*), a new species from Iran. *Ann. Bot. Fenn.*, 42(4): 313-315 - illus.
- Ghahremaninejad, F. 2005. *Astragalus khajehensis* (*Fabaceae*), a new species from NW Iran. *Ann. Bot. Fenn.*, 42(1): 77-79 - illus. 1 sp. nov.
- Ghahremaninejad, F. 2005. Two new records of *Astragalus* species of the sections *Anthylloidei* DC. and *Dissitiflori* DC. from Iran. *Turk. J. Bot.*, 29(5): 399-402 - illus.

- Ghahremaninejad, F. and D. PODLECH. 2005. *Astragalus assadabadensis* (Fabaceae), a new species from Iran. *Ann. Bot. Fenn.*, 42(3): 207-209 - illus.
- Gharnit, N., N. El Mtili, A. Ennabili and F. Sayah. 2005. Caracterisation foliaire du caroubier (*Ceratonia siliqua* L.). originaire de la province de Chefchaouen (nord-ouest du Maroc). *J. Bot. Soc. Bot. France*, no.31: 75-84 In French.
- Goncharov, M.Y. and G.P. YAKOVLEV. 2005. O novoj tribe Lecointeeae (Fabaceae) I o rode *Zollernia* (On the new tribe *Lecointeeae* (Fabaceae) and the genus *Zollernia*). *Bot. Zhurn.*, 90(6): 910-924 - illus. In Russian. 1 sp. nov.
- Goyder, D. 2005. Plant portraits: 527. *Lathyrus davidii* (Leguminosae). *Curtis's Bot. Mag.*, 22(2): 109-113 - illus., col. illus.
- Granados-Tochoy, J.C., L.K. Ruiz and R. FORERO. 2005. Sinopsis de las especies colombianas del género *Erythrina* (Leguminosae: Papilionoideae: Phaseoleae). In FORERO E. and C. Romero (eds.). 2005. Estudios en Leguminosas Colombianas. Col. Jorge Álvarez Lleras 25: 359-398
- Gray, A.M. 2005. *Acacia derwentiana* (Mimosaceae), a new species from southern Tasmania. *Muelleria*, 21: 107-110 - illus. 1 sp. nov.
- Graz, F.P. 2004. Description and ecology of *Pterocarpus angolensis* in Namibia. *Dinteria*, no.29: 27-39 - illus.
- Gurgel, E.S.C., L.M.M. Carreira and M.A. de A. Kalume. 2004. Leguminosas da Amazonia Brasileira - XV. O polen do genero *Bocoa* Aubl. (Leguminosae-Papilionoideae). (Brazilian Amazonian legumes - XV. Pollen of the genus *Bocoa* Aubl. (Leguminosae-Papilionoideae)). *Acta Bot. Brasil.*, 18(3): 431-435 - illus. In Portugese.
- HASTON, E.M., G.P. LEWIS and J.A. Hawkins. 2005. A phylogenetic reappraisal of the *Peltophorum* group (*Caesalpinieae*: Leguminosae) based on the chloroplast trnL-F, rbcL and rps16 sequence data. *Amer. J. Bot.*, 92(8): 1359-1371 - illus.
- He, X.L. and H.L. Tang. 2005. Advances in *Hedysarum* (Leguminosae) phylogenetic classification. *Acta Bot. Bor. Occid. Sin.*, 25(5): 1051-1057 In Chinese.
- Heenan, P. 2004. The New Zealand species of kowhai (*Sophora*). *Plantsman*, 3(2): 71-78 - col. illus.
- Hewson, H. 2005. Justice for Justice Barron Field. *Telopea*, 11(1): 95-98 1 comb. nov.
- Hurter, P.J.H. and A.E. van Wyk. 2004. A new species of *Acacia* (Mimosoideae) from the province of Limpopo, South Africa. *Bothalia*, 34(2): 109-112 - illus. 1 sp. nov.
- JAASKA, V. 2005. Isozyme variation and phylogenetic relationships in *Vicia* subgenus *Cracca* (Fabaceae). *Ann. Bot. (UK)*, 96(6): 1085-1096
- Janighorban, M. 2004. A new record of the genus *Trigonella* (Fabaceae) for the flora of Iran. *Iranian J. Bot.*, 10(2): 177-179 - illus. Summary in Arabic.
- Jiang, Y.C., X.Y. Zhu, Y.F. Du and H. OHASHI. 2004. A new species of *Crotalaria* L. (Leguminosae) from Zhejiang Province, China. *J. Jap. Bot.*, 79(6): 373-375 - illus. Summary in Japanese. 1 sp. nov.

- KIRKBRIDE, J.H. 2005. *Dupuya*, a new genus of Malagasy legumes (*Fabaceae*). *Novon*, 15(2): 305-314 - illus. 3 comb. nov.
- KITE, G.C. 2005. Support for the removal of *Cyclolobium* from tribe *Millettieae* (*Leguminosae*) from its quinolizidine alkaloid status. *Biochem Syst. Ecol.*, 33(1): 39-43
- KLITGAARD, B.B. 2005. *Platymiscium* (*Leguminosae: Dalbergieae*): biogeography, systematics, morphology, taxonomy and uses. *Kew Bull.*, 60(3): 321-400 - illus., col. illus. 1 sp. nov.
- KRAMINA, T.E. and D.D. SOKOLOFF 2003. (On *Lotus* sect. *Erythrolotus* (*Leguminosae*) and related taxa). *Byull. Mosk. Obshch. Ispyt. Prir., Biol.*, 108(5): 59-62 In Russian.
- Karamian, R. and M. Ranjbar. 2005. *Astragalus pendulipodus* (*Fabaceae*), a new species from Iran. *Ann. Bot. Fenn.*, 42(2): 139-142 - illus. 1 sp. nov.
- Karamian, R. and M. Ranjbar. 2005. *Astragalus* sect. *Astragalus* (*Fabaceae*) in Iran. *Bot. J. Linn. Soc.*, 147(3): 363-368 - illus. 1 sp. nov.
- Kazandjian, A.A. and P.G. Wilson. 2005. Reassessment of *Indigofera pratensis* var. *coriacea* Domin and var. *angustifoliola* Domin (*Fabaceae: Faboideae*) with the recognition of a new species. *Telopea*, 11(1): 43-51 - illus.
- Kenicer, G.J., T. Kajita, R.T. Pennington and J. Murata. 2005. Systematics and biogeography of *Lathyrus* (*Leguminosae*) based on internal transcribed spacer and cpDNA sequence data. *Amer. J. Bot.*, 92(7): 1199-1209 - illus.
- Kim, W.H., S.Y. Kim and B.H. Choi. 2005. (Polyploidy and speciation in Korean endemic species of *Indigofera grandiflora* (*Leguminosae*)). *Korean J. Pl. Taxon.*, 35(2): 99-114 - illus. In Korean.
- Knjasev, M. and P. Kulikov. 2004. (Generis *Astragalus* L. (*Fabaceae*) species e sectione *Xiphidium* Bunge in flora Uralensi). *Novosti Sist. Vyssh. Rast.*, 36: 123-148 - illus. In Russian.
- Knjasev, M.S. 2005. (Systematic and chorologic notes on the species of *Oxytropis* (*Fabaceae*) in the Urals. V. Section *Orobia*). *Bot. Zhurn.*, 90(3): 415-423 - illus. In Russian. 1 sp. nov.; 2 comb. nov.; 1 var. nov.
- Kuriakose, M.E. and E.C. Raju. 2004. Pollen morphology of the tribe *Genisteae* (*Papilionaceae*) from south India. *J. Palynol.*, 40: 121-149 (publ. 2005) - illus.
- LAVIN, M., P.S. HERENDEEN and M.F. WOJCIECHOWSKI. 2005. Evolutionary rates analysis of *Leguminosae* implicates a rapid diversification of lineages during the tertiary. *Syst. Biol.*, 54(4): 575-594
- LEWIS, G., B. SCHRIRE, B. MACKINDER and M. LOCK (eds). 2005. Legumes of the world. Kew: Royal Botanic Gardens, Kew, 577p. ISBN 1900347806 - illus., col. illus.
- LUCKOW, M., HUGHES, C., SCHRIRE, B., Winter, P., Fagg, C., FORTUNATO, R., Hurter, J., RICO, L., Breteler, F.J., BRUNEAU, A. CACCAVARI, M., Craven, L., CRISP, M., Delgado Salinas, A., Demissew, S., Doyle, J.J., Grether, R., Harris, S., HERENDEEN, P.S., Hernández, H.M., Hirsch, A.M., Jobson, R., KLITGAARD, B.B., LABAT, J.-N., Lock, M., MACKINDER, B, Pfeill, B., SIMPSON, B.B., Smith, G.F., SOUSA, M., S., Timberlake, J., VAN DER MAESEN, J.G., VAN WYK, A.E., Vorster, P., Willis, C.K., WIERINGA J.J., WOJCIECHOWSKI, M.F. 2005. *Acacia*: the case against moving the type to Australia. *Taxon* 54 (2) 513 - 519.

- LUCKOW, M., R.H. FORTUNATO, S. Sede and T. Livshultz. 2005. The phylogenetic affinities of two mysterious monotypic mimosoids from southern South America. *Syst. Bot.*, 30(3): 585-602 - illus.
- Lavia, G.I. and A. Fernandez. 2004. Karyotypic studies in *Arachis hypogaea* L. varieties. *Caryologia*, 57(4): 353-359 - illus.
- Liu, S.Y. 2004. (*Dalbergia jingxiensis* S.Y.Liu (*Papilionaceae*), a new species from Guangxi, China). *J. Trop. Subtrop. Bot.*, 12(6): 575-576 - illus. In Chinese.
- Luke, Q. and B. Verdcourt. 2004. An early record of *Gigasiphon macrosiphon* (Harms) Brenan (*Leguminosae-Caesalpinioideae*) from Kenya and an update on its conservation status. *J. E. Afr. Nat. Hist.*, 93(1-2): 75-77 - illus.
- M'Hammedi Bouzina, M., M. Abdelguerfi Laouar, A. Abdelguerfi and G.G. Guittonneau. 2005. Autoecologie et distribution du complexe d'especes *Scorpiurus muricatus* (*S. sulcatus* - *S. subvillosus*) en Algerie. *Acta Bot. Gallica*, 152(1): 11-23 In French.
- MCMAHON, M. and L. Hufford. 2005. Evolution and development in the amorphoid clade (*Amorpheae: Papilionoideae: Leguminosae*): petal loss and dedifferentiation. *Int. J. Pl. Sci.*, 166(3): 383-396
- MIOTTO, S.T.S. and H. DE F. LEITAO FILHO 1993. Flora ilustrada do Rio Grande do Sul: 27. *Leguminosae - Faboideae* genero *Lupinus* L. *Bol. Inst. Biocienc. Univ. Rio Grande Sul*, no.52: 157p. - illus. In Portugese.
- Malaviya, D.R., A.K. Roy, P. Kaushal and B. Kumar. 2004. Affinity between *Trifolium alexandrinum* and *T. apertum* - cytological investigation in embryo rescued hybrid. *Cytologia (Japan)*, 69(4): 425-429 - illus.
- Mansano, Vidal de Freitas & LEWIS, Gwilym P. 2004, publ. 2005. A revision of the genus *Exostyles* Schott (*Leguminosae: Papilionoideae*. *Kew Bull.* 59(4): 521-529
- Mansano, V. de F. and A.L. de Souza. 2005. A new *Swartzia* (*Leguminosae: Papilionoideae: Swartzieae*) species with trimorphic stamens from Amazonian Brazil. *Bot. J. Linn. Soc.*, 147(2): 235-238 - illus. 1 sp. nov.
- Mansano, V. de F. and A.M.G. de Azevedo Tozzi. 2004. *Swartzia* (*Leguminosae, Papilionoideae, Swartzieae* s.l.) na Reserva Natural da Companhia Vale do Rio Doce, Linhares, ES, Brasil. (*Swartzia* (*Leguminosae, Papilionoideae, Swartzieae* s.l.) in the "Reserva Natural da Companhia Vale do Rio Doce", Linhares, ES, Brazil). *Rodriguesia*, 55(85): 95-113 - illus. In Portugese.
- Maxwell, J.F. 2004. *Crotalaria phyllostachya* Gagnep. (*Leguminosae, Papilionoideae*) - a new record for the Thai flora. *Nat. Hist. Bull. Siam Soc.*, 52(1): 111-112 (publ. 2005)
- Meena, S.L. 2004. Some new plants to the flora of Gujarat, India - I. *J. Econ. Taxon. Bot.*, 28(2): 387-388
- Mehrnia, M., S. Zarre and A. Sokhan Sanj. 2005. Intra- and inter-specific relationships within the *Astragalus microcephalus* complex (*Fabaceae*) using RAPD. *Biochem. Syst. Ecol.*, 33(2): 149-158
- Milla, S.R., T.G. Isleib and H.T. Stalker. 2005. Taxonomic relationships among *Arachis* sect. *Arachis* species as revealed by AFLP markers. *Genome*, 48(1): 1-11 Summary in French.

- Mollard, F., P. HOC and R. PALACIOS 2000. *Prosopis abbreviata* Bentham, evidencias palinológicas sobre su presunto origen híbrido. (*Prosopis abbreviata* Bentham, palynological evidences on its probable hybrid origin). *Mendoza*, 9: 1-6 - illus. In Spanish.
- Monteagudo Ana, B., R. Lindner and R. Fortes. 2005. Karyotype of *Lupinus hispanicus* subsp. *bicolor* from Galicia (northwest of the Iberian Peninsula). *Caryologia*, 58(3): 238-240
- Murugan, C., V.S. Manickam, G.J. Jothi and V. Sundareson 2003. *Acacia pruinescens* Kurz (*Mimosaceae*): an addition to the Western Ghats, India. *Rheedea*, 13(1-2): 71-72 (publ. 2004) - illus.
- NIELSEN, I.C. and J.M. Veillon. 2005. A new species of *Callerya* (*Leguminosae*, *Papilionoideae*, *Millettieae*) from New Caledonia. *Adansonia*, 27(1): 81-84 - illus. Summary in French.
- Nakamura, A.T. and D.M.T. Oliveira. 2005. Morfoanatomia e ontogenese da samara de *Pterocarpus violaceus* Vogel (*Fabaceae*: *Faboideae*). (Morphology, anatomy and ontogeny of *Pterocarpus violaceus* Vogel (*Fabaceae*: *Faboideae*). samara). *Rev. Brasil. Bot.*, 28(2): 375-387 - illus. In Portuguese.
- Nazarova, E.A. 2004. The karyological investigation of the vetch (*Vicia* L., *Fabaceae* Lindl. from Armenia). *Flora Rastitelnost Rast. Res. Arm.*, 15: 95-97 In Russian with summary in English, Armenian.
- Norihisa, W., Y.N. Yuko, K. Kazuna, D. Tetsuo and T. Yoichi. 2005. (*Entada* from the Ryukyu Islands). *Bunrui*, 5(1): 9-19 - illus. In Japanese.
- Novosselova, M. and A. SYTIN. 2004. (Specimina typica taxorum e generibus *Astragalus* L. et *Oxytropis* DC. (*Fabaceae*) Chinae et Mongoliae in Herbario Instituti Botanici nomine V. L. Komarovii (LE) conservata). *Novosti Sist. Vyssh. Rast.*, 36: 263-269 In Russian.
- Novosselova, M. and Y. Roskov. 2004. (Specimina typica taxorum e familia *Fabaceae* Chinae in Herbario Instituti Botanici nomine V. L. Komarovii (LE) conservata. II). *Novosti Sisi. Vyssh. Rasi.*, 36: 256-262 In Russian.
- OHASHI, H. 2004. New combinations in *Codariocalyx* (*Leguminosae*). *J. Jap. Bot.*, 79(6): 370-372 Summary in Japanese. 2 comb. nov.
- OHASHI, H. 2005. A new species of *Pueraria* (*Leguminosae*) from Guizhou, China. *J. Jap. Bot.*, 80(1): 9-13 - illus. Summary in Japanese. 1 sp. nov.
- OHASHI, H., T. NEMOTO and R. Onodera. 2005. Pollen morphology of the Japanese *Phaseoleae* (*Leguminosae*: *Papilionoideae*). *J. Pl. Res.*, 80(3): 125-160 - illus. Summary in Japanese.
- Oliva Tejera, F., J. Caujape Castells, J. Naranjo Suarez, J. Navarro Deniz, J.R. Acebes Ginoves and D. Bramwell. 2005. Population genetic differentiation in taxa of *Lotus* (*Fabaceae*: *Loteae*) endemic to the Gran Canarian pine forest. *Heredity*, 94(2): 199-206 - illus.
- Orchard, A.E. and B.R. Maslin. 2005. The case for conserving *Acacia* with a new type. *Taxon*, 54(2): 509-215
- Orthia, L.A., R.P.J. de Kok and M.D. Crisp. 2005. A revision of *Pultenaea* (*Fabaceae*: *Mirbelieae*). 4. Species occurring in Western Australia. *Austral. Syst. Bot.*, 18(2): 149-206 - illus. Many new taxa.
- PALACIOS, R.A. and P.S. HOC. 2005. Revision del genero *Prosopidastrum* (*Leguminosae*) para la Argentina. (Revision of the genus *Prosopidastrum* (*Leguminosae*) for Argentina). *Bol. Soc. Argent. Bot.*, 40(1-2): 113-128 - illus. In Spanish. 2 comb. nov.

- Padilla, E., R.G. Cuevas and A.M. Solis. 2005. *Inga colimana* (Leguminosae) una especie nueva del occidente de Mexico. (*Inga colimana* (Leguminosae) a new species from western Mexico). *Acta Bot. Mex.*, no.72: 33-38 - illus. In Spanish. 1 sp. nov.
- Pavlova, D. 2003. On the evolutionary mechanisms and the florogenetic relationships of the species of subgenus *Cercidothrix* (*Astragalus*, Fabaceae) in the Bulgarian flora. *Phytologia Balcanica*, 9(3): 461-470
- Peccenini, S. 2004. Indagini biosistematiche su *Coronilla valentina* L. s.l. (Leguminosae). (Biosystematic research on *Coronilla valentina* L. s.l. (Leguminosae)). *Inform. Bot. Ital.*, 36(2): 486-488 - illus. In Italian.
- Perez de Bianchi, S.M., F.C. Juarez de Varela and O.G. Martinez 1997. Los nectarios extraflorales en el genero *Macroptilium* (Benth.) Urban. *Aportes Bot. Salta Ser. Misc.*, 1(6): 1-8 - illus. In Spanish.
- Peruzzi, L. and G. Cesca 2003. Osservazioni biosistematiche su *Retama gussonei* Webb (Fabaceae). (Biosystematic observations on *Retama gussonei* Webb (Fabaceae)). *Atti Soc. Tosc. Sci. Nat. Mem., B*, 110: 19-22 - illus. In Italian.
- Pfeil, B.E., J.A. Schlueter, R.C. Shoemaker and J.J. DOYLE. 2005. Placing Paleopolyploidy in relation to taxon divergence: a phylogenetic analysis in legumes using 39 gene families. *Syst. Biol.*, 54(3): 441-454 - illus.
- PIERGIOVANNI A.R. and G. Taranto. 2005. Specific differentiation in *Vicia* genus by means of capillary electrophoresis. *Journal of Chromatography*, 1069: 253-260
- PIERGIOVANNI A.R. and G. Taranto. 2005. Assessment of genetic variation in Italian lentil populations by electrophoresis (SDS-P AGE) of seed storage proteins. *Plant Gen. Res. Newslet.* 141: 33-38
- PIERGIOVANNI A.R. and G. Taranto. 2005. A simple and rapid method for the differentiation of *Lens culinaris* Medik. by false lentil species. *Journal of Agric. Food Chem.* 53: 6593-6597
- Pinheiro, M. and S.T.S. MIOTTO 2001. Flora ilustrada do Rio Grande do Sul: 27. Leguminosae - Faboideae genero *Lupinus* L. *Bol. Inst. Biocienc. Univ. Rio Grande Sul*, no.60: 100p. - illus. In Portuguese.
- Pinheiro, M. and S.T.S. MIOTTO. 2005. *Lupinus reitzii* (Fabaceae-Faboideae), a new species of the *Lupinus lanatus* complex from southern Brazil. *Novon*, 15(2): 346-349 - illus. Summary in Spanish. 1 sp. nov.
- Puidet, E., J. Liira, J. Paal, M. Partel and S. Pihu. 2005. Morphological variation in eight taxa of *Anthyllis vulneraria* s. lato (Fabaceae). *Ann. Bot. Fenn.*, 42(4): 293-304 - illus.
- Quiñones, L.M. 2005. Leguminosae subfamilia Caesalpinioideae. In FORERO E. and C.Romero (eds.). 2005. Estudios en Leguminosas Colombianas. Col. Jorge Álvarez Lleras 25: 301-328
- Ranjbar, M., M.R. Rahiminejad and M. Assadi. 2005. A contribution to *Astragalus* sect *Incani* (Fabaceae) in Iran. *Willdenowia*, 35(1): 117-124 - illus.
- Ribeiro, R.D., R.H.P. Andreato and H.C. de Lima. 2004. A familia Leguminosae no Herbario da Universidade Santa Ursula (RUSU), Rio de Janeiro. *Eugeniana*, no.27: 19-28 In Portuguese.

- Rico Arce, L. 2005. Nombres nuevos para dos especies mexicanas de *Acacia* (*Leguminosae* - *Mimosoideae*). *Acta Bot. Mex.*, no.71: 89-92 In Spanish.
- Rico Arce, M. de L. & R. M. Fonseca. 2005. ACACIEAE (MIMOSACEAE). Flora de Guerrero No. 25. 1-56. Coordinación de Servicios Editoriales. Facultad de Ciencias, UNAM. México.
- Rodrigues, R.S., A.S. FLORES, S.T.S. MIOTTO and L.R. DE M. BAPTISTA. 2005. O genero *Senna* (*Leguminosae*, *Caesalpinioideae*) no Rio Grande do Sul, Brasil. (The genus *Senna* (*Leguminosae*, *Caesalpinioideae*) in Rio Grande do Sul State, Brazil). *Acta Bot. Brasil.*, 19(1): 1-16 - illus. In Portugese.
- Romero, C. 2005. Leguminosae subfamilia Mimosoideae con partular referencia a le tribu Ingeae. In FORERO E. and C.Romero (eds.) .2005. Estudios en Leguminosas Colombianas. Col. Jorge Álvarez Lleras 25: 29-38
- Romero, C and A. Alba-López. 2005. Taxonomia del genero *Inga* Mill. In FORERO E. and C.Romero (eds.). 2005. Estudios en Leguminosas Colombianas. Col. Jorge Álvarez Lleras 25: 111-129
- Romero, C. 2005. Revisión de la especies colombianas de *Inga* sección *Pseudinga*. In FORERO E. and C.Romero (eds.). 2005. Estudios en Leguminosas Colombianas. Col. Jorge Álvarez Lleras 25: 175-280
- Ruiz, L.K. and E. FORERO. 2005. Leguminosae subfamilia Papilionoideae. In FORERO E. and C.Romero (eds.). 2005. Estudios en Leguminosas Colombianas. Col. Jorge Álvarez Lleras 25: 329-358
- SCHRIRE, B.D., LAVIN, M. and LEWIS, G.P. 2005. Global distribution patterns of the Leguminosae: insights from recent phylogenies. In I. Friis & H. Balslev (editors), Plant diversity and complexity patterns – local, regional and global dimensions. *Biologiske Skrifter* 55: 375 – 422.
- SOKOLOFF, D.D. 2003. (On taxonomy and phylogeny of the tribe *Loteae* (DC.) *Leguminosae*)). *Byull. Mosk. Obshch. Ispyt. Prir., Biol.*, 108(3): 35-48 In Russian. Many comb. nov.
- Stenglein, S.A., A.M. ARAMBARRI., O.N. Vizgarra and P.A. Balatti. 2004. Micromorphological variability of leaf epidermis in Mesoamerican common bean (*Phaseolus vulgaris*: Leguminosae) Austral. J. Bot. 52: 73-80 – icons, anatomy, morphology
- SYTIN, A. 2004. (Conspectus generis *Astragalus* L. (*Fabaceae*) specierum Caucasicarum e sectione *Anthylloidei* DC.), *Novosti Sist. Vyssh. Rast.*, 36: 149-158 - illus. In Russian.
- Sa, R. 2005. Taxonomic notes on the Chinese *Eriosema* (*Leguminosae*). *Acta Bot. Yunnanica*, 27(4): 375-377. - illus.
- Sartori, A.L.B. and A.M.G. de Azevedo Tozzi. 2004. Revisao taxonomica de *Myrocarpus* Allemao (*Leguminosae*, *Papilionoideae*, *Sophoreae*). (Taxonomic revision of *Myrocarpus* Allemao (*Leguminosae*, *Papilionoideae*, *Sophoreae*)). *Acta Bot. Brasil.*, 18(3): 521-535 - illus. In Portugese.
- Semmar, N., M. Jay, M. Farman and R. Chemli. 2005. Chemotaxonomic analysis of *Astragalus caprinus* (*Fabaceae*) based on the flavonic patterns. *Biochem. Syst. Ecol.*, 33(2): 187-200
- Simpson, B.B., J.A. Tate and A. Weeks. 2005. The biogeography of *Hoffmannseggia* (*Leguminosae*, *Caesalpinioideae*, *Caesalpinieae*): a tale of many travels. *J. Biogeogr.*, 32(1): 15-27 - illus., col. illus.
- Soto Estrada, C. 2004. Flora del valle de Tehuacan-Cuicatlan. Fasciculo 40. *Crotalarieae*. Mexico D.F.: Universidad Nacional Autonoma de Mexico, Instituto de Biologia, 20p. ISBN 9703221947 - illus. In Spanish.

- Sousa, S.M. 2005. *Heteroflorum*: un nuevo genero del grupo *Peltophorum* (*Leguminosae*: *Caesalpinioideae*: *Caesalpinieae*), endemico para Mexico. *Novon*, 15(1): 213-218 - illus. In Spanish. 1 sp. nov.
- Souza, E.R. and L.P. Queiroz. 2004. Duas novas especies de *Calliandra* Benth. (*Leguminosae* - *Mimosoideae*) da Chapada Diamantina, Bahia, Brasil. (Two new species of *Calliandra* Benth. (*Leguminosae* - *Mimosoideae*) from the Chapada Diamantina, Bahia, Brazil). *Rev. Brasil. Bot.*, 27(4): 615-619 - illus. In Portuguese. 2 spp. nov.
- SPRENT, J.I. West African legumes: the role of nodulation and nitrogen fixation. *New Phytologist*, 167: 326-330
- Sun, J.Z. and R.F. Wang 1994. (Study on the subgen. *Cercidothrix* Bunge of the genus *Astragalus* Linn. from Gansu). *Acta Bot. Bor. Occid. Sin.*, 14(6): 78-83 In Chinese.
- SUSO, M.J., Gilsanz, S., Duc, G., Marget, P. and M.T. Moreno. 2006. Germplasm management of faba bean (*Vicia faba* L.): monitoring intercrossing between accessions with Inter-plot barriers. *Genetic Resources and Crop Evolution*.
- SUSO, M.J., Harder, L. Moreno, M.T. and F. Maalouf. 2005 New strategies for increasing heterozygosity in crops: *Vicia faba* mating system as a study case. *Euphytica*: 143 (1-2): 51-65.
- Tabanaca, N., E. Bedir, O. Alankus Caliskan and I.A. Khan. 2005. Cycloartane triterpene glycosides from the roots of *Astragalus gilvus* Boiss. *Biochem. Syst. Ecol.*, 33(10): 1067-1070
- Tapia Pastrana, F., E. Gallegos Pacheco, C. De Teodoro Pardo and P. Mercado Ruaro. 2005. New cytogenetic information of two Mexican populations of *Crotalaria incana* L. (*Leguminosae*-*Papilionoideae*). *Cytologia (Japan)*, 70(2): 207-212 - illus.
- Tosheva, A., S. Tonkov and N. Dimitrov 2003. Pollen morphology of the Bulgarian species from section *Lathyrus* (*Lathyrus*, *Fabaceae*). *Phytologia Balcanica*, 9(3): 529-536 - illus.
- Tozzi, A.M.G.A., K. Agostini and M. Sazima. 2005. A new species of *Mucuna* Adans. (*Leguminosae*, *Papilionoideae*, *Phaseoleae*) from southeastern Brazil, with a key to Brazilian species. *Taxon*, 54(2): 451-455 - illus. 1 sp. nov.
- ULIBARRI, E.A. 2004. *Leucaena leucocephala* (*Leguminosae*-*Mimosoideae*) adventicia en Argentina. (*Leucaena leucocephala* (*Leguminosae*-*Mimosoideae*) adventive in Argentina). *Hickenia*, 3(48-53): 221-224 - illus. In Spanish.
- Ulzichutag, N. 2004. Plants of Central Asia: plant collections from China and Mongolia. Vol. 8c. *Astragalus* L. Enfield, N.H.: Science Publishers, 260p. ISBN 1578083419 Translation from the Russian.
- VEITCH, N.C., Bristow, J.M., KITE, G.C. & LEWIS, G.P. 2005. Mildbraedin, a novel kaempferol tetraglycoside from the tropical forest legume *Mildbraediendendron excelsum*. *Tetrahedron Letters* 46: 8595- 8598.
- Verga, A. 2000. Clave para la identificacion de hibridos entre *Prosopis chilensis* y *P. flexuosa* sobre la base de caracteres cuantitativos. (Key to identify hybrids between *Prosopis chilenses* and *P. flexuosa* based on quantitative characters). *Mendoza*, 9: 17-22 In Spanish.
- WOODS, M. 2005. A revision of the North American species of *Apios* (*Fabaceae*). *Castanea*, 70(2): 85-100 - illus.

- Welsh, S.L. 2005. Correction to an effectively but non-validly published species of *Astragalus* (*Leguminosae*) from New Mexico. *Rhodora*, 107(929): 103-104 1 sp. nov.
- Wheeler, E.J., R.L. Edward and G.A. Allen. 2005. Morphological and molecular evidence concerning the relationship of *Lupinus polyphyllus* and *L. wyethii* (*Fabaceae*). *Madrono*, 52(2): 107-113 - illus.
- Wilson, P.G. and R. Rowe. 2004. A revision of the *Indigoferaeae* (*Fabaceae*) in Australia. 1. *Indigastrum* and the simple or unifoliate species of *Indigofera*. *Telopea*, 10(3): 651-682 - illus. 5 spp. nov.
- Ye, B. and H. OHASHI. 2005. Pollen morphology of *Phylacium* (*Leguminosae: Papilionoideae*). *J. Jap. Bot.*, 80(4): 221-230 - illus. Summary in Japanese.
- Zarre, S., D. PODLECH and F. Taeb. 2005. New species of the genus *Astragalus* L. (*Fabaceae*), mainly from the "Flora Iranica" area. *Feddes Repert.*, 116(1-2): 54-79 Summary in German. Many spp. nov.
- Zhang, M.L. 2005. A dispersal and vicariance analysis of the genus *Caragana* Fabr. *J. Integr. Pl. Biol.*, 47(8): 897-904
- Zhao, Y.Z., Y.H. Wu and L.Q. Zhao. 2005. *Caragana leduensis*, a new species of *Leguminosae* from Qinghai, China. *Willdenowia*, 35(1): 155-157 - illus. 1 sp. nov.
- Zhao, Y.Z., Z.Y. Zhu and L.Q. Zhao. 2005. (*Caragana ordosica*, a new species of *Caragana* (*Leguminosae*)). *Bull. Bot. Res. (China)*, 25(4): 386-388 - illus. In Chinese.
- Zhou, D.W., Z.L. Liu and Y.Q. Ma. 2005. (The study on phytogeographical distribution and differentiation of *Caragana* Fabr., *Leguminosae*). *Bull. Bot. Res. (China)*, 25(4): 471-487 In Chinese.
- Zhu, X.Y. 2004. *Oxytropis lhasaensis* (*Fabaceae*), a new species from Xizang (Tibet) in China, with supplementary notes on the section *Sericopetala*. *Ann. Bot. Fenn.*, 41(6): 495-497 - illus. 1 sp. nov.
- Zhu, X.Y. 2005. A new species of *Oxytropis* (*Baicalia*) (*Leguminosae*) from Shanxi Province in China. *Nordic J. Bot.*, 23(3): 279-281 - illus. 1 sp. nov.
- Zhu, X.Y. 2005. A taxonomic revision of *Tibetia* (*Leguminosae; Papilionoideae; Galegeae*). *Bot. J. Linn. Soc.*, 148(4): 475-488 - illus. 1 comb. nov.
- Zhu, X.Y. 2005. An ornamental plant, *Wisteria floribunda* (Willd.) DC. f. *violaceo-plena* (Schneider) Rehder & Wilson, is newly recorded to China. *Bull. Bot. Res. (China)*, 25(1): 18 Summary in Chinese.
- Zhu, X.Y. 2005. Pollen and seed morphology of *Gueldenstaedtia* and *Tibetia* (*Leguminosae*) - with a special reference to the taxonomic significance. *Nordic J. Bot.*, 23(3): 373-384 - illus.
- Zhu, X.Y. 2005. Revision of the *Astragalus penduliflorus* complex (*Leguminosae - Papilionoideae*). *Nordic J. Bot.*, 23(3): 283-294 - illus. 5 comb. nov.
- Zhu, X.Y. and Y.F. Du. 2004. Catalogue of the type specimens preserved in the Herbarium of Institute of Botany, the Chinese Academy of Sciences (PE). *Leguminosae* (1). S.l.: China Meteorological Press, xvii, 172p. of plates ISBN 7502937331 - illus.
- Zielinski, J., K. Tan and D. Tomaszewski. 2004. Notes on the taxonomy of *Genista januensis* and *G. lydia* (*Fabaceae*). *Ann. Bot. Fenn.*, 41(6): 453-457 - illus. 1 comb. nov.

