

# The Bean Bag

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

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## 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>**

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## 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, 200<sup>th</sup> 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 15<sup>th</sup>.

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](http://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 <sup>1</sup>	Source <sup>2</sup>
<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

<sup>1</sup> 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 14<sup>th</sup> Australian Nitrogen Fixation Conference, ed. John Brockwell, Katoomba, NSW

<sup>2</sup> Spriggs, A.C. (2004) Symbiotic N<sub>2</sub> 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> Watdron 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>Bolusanthus 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 sympatheticum</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 hochstetteri</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>Macrottilium atropurpureum</i> (DC.) Urban as <i>Phaseolus atropurpureum</i> Mc. & Sesse	+	79
<i>Macrottilium lathyroides</i> (L.) Urban as <i>Phaseolus lathyroides</i> L.	+	70
<i>Macrottilium 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 spicata</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 pycnantha</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 radiatae</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. (jcane@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. wenzelianum* 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  $\beta$ -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  $\alpha$ -branch of the Proteobacteria, but with bacteria from the  $\beta$ -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. (jispren@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).

VAN DER BORGHT, 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

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