

COMPOSITAE



NEWSLETTER

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BOTANICAL GARDEN

IMPORTANT NOTE TO ALL RECIPIENTS

The Compositae Newsletter will be sent to you free of charge. At present, our mailing list contains almost 500 names. However, it has become somewhat out of date. Please make sure you receive future issues by filling in the enclosed slip. Even if your address is unchanged we request you to confirm your interest in Compositae Newsletter by returning the slip to us.

We also want to inform you that there are still some copies of issue no. 13 of the Compositae Newsletter available.

EDITORIAL

Past

The *Compositae Newsletter* was started in 1975 by Tod F. Stuessy, inspired by the increased focus on synantherology in the 70's, highlighted in the international symposium on The Biology and Chemistry of the *Compositae* held in Reading, England, in July 1975. The proceedings formed a two-volume publication ("1977", but actually 1978), which gives an overview of the family and serves as a useful reference work and a basis for further research.

The Newsletter was successfully produced by Stuessy up to and including No. 5 (1977). The contents included articles, book reviews, news and notes, and a useful listing of recent literature provided by Charles Jeffrey, conveniently based at Kew.

Nos. 6 (1978) to 12 (1981) were edited by Charles Jeffrey. The initial policy of distributing the Newsletter free of charge was maintained in spite of increasing financial difficulties. However, Nos. 4 to 12 received generous financial support from Mr. Sven Koeltz of Otto Koeltz Antiquariat, now Koeltz Scientific Books, the well reputed botanical bookseller and publisher in Koenigstein, West Germany. Nos. 9 to 12 were also jointly sponsored by the Bentham-Moxon Trust at Kew.

When Jeffrey announced his final Newsletter the need for a continuation was felt strongly among synantherologists all over the world. After various consultations and discussions, i.a. at the International Botanical Congress in Sydney, Jette Baagøe of Copenhagen volunteered to take over as Editor, and I offered a distribution service through the Swedish Museum of Natural History. This arrangement only worked for one issue (No. 13, 1982), mainly because the Editor took up new responsibilities in another office.

Present

During the standstill of six years several pleas for a continuation of the *Compositae Newsletter* have been made. Motivated by the progressive synantherological research in Stockholm we now venture to give it another try. For a presentation of the *Compositae* research group, see page 2 in this issue. We are also inspired by Charles Jeffrey's generous promise to continue his literature lists and indeed also his series on generic names of the *Compositae*. Obviously, we are faced with a considerable backlog of information, but we hope to eventually cope with this and bring all information up to date.

Future

Our aim is to produce two issues of the Newsletter per year. We intend to keep the contents very much like the previous issues. The Newsletter should serve as an informal bulletin for information and discussion, including short articles, book reviews, and news on individuals or projects. Contributions are invited and are indeed essential to keep the Newsletter alive and interesting.

Our intention is to distribute the Newsletter free to anyone interested. New readers are most welcome!

Bertil Nordenstam

RESEARCH ON COMPOSITAE IN STOCKHOLM

Bertil Nordenstam

A brief presentation of the Compositae research group in Stockholm seems warranted in connection with the resurrection of the Compositae Newsletter. This research has a long tradition, and since 1980 the project receives financial support from the Swedish Natural Science Research Council. The project members are either employed at the Swedish Museum of Natural History, Department of Phanerogamic Botany, or enrolled as doctorate students at the University of Stockholm. Taxonomic research is undertaken at all taxonomic levels, from studies on infraspecific differentiation and revisions of single genera or generic groups, to generic monographs of whole tribes and studies on tribal interrelationships based on phylogenetic analyses.

Prof. **Bertil Nordenstam** (52) is Director of Botany at the Museum and in the capacity of Professor of Phanerogamic Botany also attached to the University of Stockholm. Since many years his main interests are in the tribe Senecioneae, and one of the present main objectives is a monograph of the polymorphic African genus *Othonna*. In attempts to arrive at a more natural classification within the tribe more than a dozen new genera have been described and several old ones re-defined. Many problems still remain, however, and it is hoped that forthcoming field work in Australia and South America will help solving some of these. Nordenstam is also interested in South African Anthemideae and Gnaphalieae, especially the "*Helipterum*" group, which is now under revision.

Dr. Kåre Bremer (40) is Head Curator at the Department of Phanerogamic Botany. Originally interested in South African Inuleae and Anthemideae, he later prepared a complete generic monograph of the tribe Anthemideae, jointly with Dr. C. J. Humphries, British Museum (Natural History). This comprehensive work, which after a long delay is now ready for the press, presents a revised generic and subtribal classification. Altogether 107 genera, referred to ten subtribes, are recognized, described and illustrated. Bremer is also pursuing a phylogenetic overview of the whole family and is planning a book with this perspective. In this process the tribe Mutisieae has come into focus as a basal grade of the family, in contrast with other currently accepted views on the phylogeny of the family. Data from molecular biology (chloroplast DNA sequences) have substantially contributed in the recognition of the Mutisieae-Barnadesiineae as a basal monophyletic group, obviously the sister group of the rest of the family. The monophyly of subfamily Asteroideae is further confirmed, whereas the subfamily Cichorioideae (including Lactuceae, Cardueae, Vernoniae, etc.) stands out as paraphyletic. These and other remarkable new insights in the family phylogeny are presented in a concise article in *Cladistics* (Vol. 3 (3), 1987).

Dr. Arne Anderberg (34) occupies a full-time research position since 1986 at the Department of Phanerogamic Botany, financed by the Swedish Natural Science Research Council. He is pursuing a phylogenetic analysis and generic monograph of the large tribe Inuleae s. lat. The large sets of data necessitate computerized analyses, and the PAUP programme (by D. L. Swofford) is now widely in use within the project. The Inuleae have turned out to be a heterogeneous assemblage in need of tribal reclassification. A preliminary paper to this effect (in press) recognizes the monophyletic tribes Plucheae and Gnaphalieae as well as the possibly paraphyletic remainder including Inuleae s. str., which deserves much further study. Anderberg is planning a couple of months of field work in Australia (with B. Nordenstam) in 1989, an area with a concentration of inuloid-gnaphalioid taxonomic problems.

Within the project a concentrated effort is now made on the problematic "Inuleae", and most of the doctorate students are engaged in this. **Mr. Per-Ola Karis** (32) has just finished a thorough revision of the South African genus *Metalasia*, now in the press. This intricate genus has been maltreated by all previous authors, and Karis can justly claim to be the first to really understand its taxonomy. Karis is now extending his studies to some related groups, including some as yet undescribed genera. **Mr. Torsten Eriksson** (33) is working on the two genera *Athroisma* and *Blepharispermum*. The taxonomy and systematic position of these interesting genera will be fully elucidated in his doctoral dissertation. **Ms. Gullevi Bergqvist** (37), another doctorate student, is revising the Asiatic genus *Carpesium* with c. 30 species. **Ms. Pia Eldenäs** (24) has initiated a generic revision of the *Filago* group.

Ms. **Mari Källersjö** (33) is a full-time Assistant of the project since 1980, financed by the Swedish Natural Science Research Council. She is concentrating on South African Anthemideae, and her doctoral dissertation on the genus *Athanasia* is approaching completion. In a recently published important paper (Bot. Journ. Linn. Soc. vol. 96, 1988) she revised the generic limits in the *Pentzia-Matricaria* group, recognizing four new genera and re-defining some others. Through her work and the previously mentioned generic survey by Bremer & Humphries, the Anthemideae are becoming one of the better known tribes in the family.

Mr. **Roger Lundin** (33) is Curator of the Regnellian Herbarium at the Museum. He has initiated a revision of *Gynoxys* in the Senecioneae, especially in Ecuador. The plans include a sejour of field work in South America in 1990 together with B. Nordenstam.

Dr. **Annette Wiklund** (34) made her thesis in 1986 on some genera of the *Inula* group, Inuleae. Since then she is on a postdoctorate grant in Madrid, Spain, studying the genus *Cynara* of the Cardueae.

To complete this picture of Compositae research in Stockholm it should be mentioned that Prof. emer. **Tycho Norlindh** (82) is still active. A renowned authority on the Calenduleae and Arctotideae, he is now working on a revision of the South African genus *Arctotis*.

Finally, it is expected that Ms. **Susana Freire** of Museo de La Plata, Argentina, will join the group in September 1988, to pursue her studies on *Chionolaena*, *Leucopholis* and other South American Gnaphalieae for a period of at least one year, and that Dr. **Gamal El-Ghazaly** (41) of Alexandria, Egypt, will take up the position as Curator at the Palynological Laboratory attached to the Department of Phanerogamic Botany. Dr. El-Ghazaly received his doctor's degree in Stockholm in 1979 on a palynotaxonomic study of the Hypochoeridinae and Scolyminae of the Lactuceae. Since then he has further developed his palynological competence especially in ultrastructure, ontogeny and histochemical differentiation of the pollen wall. With Dr. El-Ghazaly, further competence and methodological skill will be added to the synantherological team in Stockholm, which will then consist of 13 researchers, as seen from this presentation.

GENERIC NAMES OF COMPOSITAE*

C. Jeffrey

Royal Botanic Gardens, Kew

part V. Ba-Bu

The following conventions are used in the list:

-, sometimes included in

=, a taxonomic synonym of

≡, a nomenclatural synonym of

Sp., number of species

M., monograph or revision

T., type

Tr., tribe

() latin names enclosed in parantheses, name not validly published

[] enclosure in square brackets, reference not seen.

Babcockia Boulos, Bull. Jard. Bot. Etat Brux. 35: 64. 1965

T. *Sonchus platylepis* Webb ex Sch. Bip. (Canary Is., Gran Canaria)

= *Sonchus* L.

Bacasia Ruiz & Pavon, Fl. Peru. Chil. Prodr. 105, t. 22. 1794

T. *B. corymbosa* Ruiz & Pavon (Peru)

= *Barnadesia* Mutis ex Linn. f.

Baccharidastrum Cabr., Notas Mus. La Plata Bot. 2: 175. 1937

T. *Conyza triplinervia* Less. (Brazil)

= *Conyza* Less.

*Continued from Compos. Newsl. 13, 1982.

Baccharidiopsis Barroso, [Sellowia 26: 95. 1975]T. *Aster pohlii* Bak. (Brazil)

Sp. 1, Brazil

M.

Tr. Astereae

Baccharis L., Sp. Pl. 860. 1753 & Gen. Pl., ed. 5: 370. 1754T. *B. halimifolia* L. (Virginia)

Sp. 510, Amer., esp. South Amer.

M. Heras in Mem. Soc. Cienc. Nat. La Salle 37 (107): 129-224. 1976

Tr. Astereae

Baccharites G. Saporta, [Compt. Rend. Hebd. Seances Acad. Sc. 92: 1132. 1881]

Sp.

T. France, Oligocene

M.

Tr. ?

Baccharodes Moench orth. mut. O. Ktze, Rev. Gen. 1: 320. 1891 orth. var. ≡ *Baccharoides* Moench = *Vernonia* Schreb. sens. lat.**Baccharoides** Moench, Meth. 578. 1794T. *B. anthelmintica* (L.) Moench (Sri Lanka)= *Vernonia* Schreb. sens. lat.**Badilloa** R. M. King & H. Robins., Phytologia 30: 230. 1975T. *Eupatorium salicinum* Lag. (Peru)

Sp. 9, N Andes

M.

Tr. Eupatorieae

Baeria Fisch. & Mey., Ind. Sem. Hort. Bot. Petrop. 2: 29. 1836T. *B. chrysostoma* Fisch. & Mey. (Calif.)= *Lasthenia* Cass.**Baeriopsis** Howell, Leafl. West Bot. 3: 152. 1942T. *B. guadalupensis* Howell (Baja Calif.)

Sp. 1, Baja Calif.

M.

Tr. Heliantheae

Bafutia C. D. Adams, Kew Bull. 15: 439. 1962

T. B. tenuicaulis C. D. Adams (Cameroun)

Sp. 1, W Trop. Afr.

M.

Tr. Senecioneae

Bahia Lag., Gen. Sp. Pl. Nov. 30. 1816

T. B. ambrosioides Lag. (Chile)

Sp. 13, SW USA, Mexico, Chile

M.

Tr. Heliantheae

Bahianthus R. M. King & H. Robins., Phytologia 23: 312. 1972

T. Mikania viscosa Spreng. (Brazil)

Sp. 1, Brazil

M.

Tr. Eupatorieae

Bahiopsis Kellogg, Proc. Calif. Acad. Sc. 2: 35. 1863

T. B. lanata Kellogg (Calif.)

= *Viguiera* Kunth

Baileya Harv. & A. Gray ex Torr. in Emory, Notes Milit. Reconnaissance. 144. 1848

T. B. multiradiata Harv. & A. Gray ex Torr. (New Mexico)

Sp. 4, SW USA, Mexico

M.

Tr. Heliantheae

Baillieria Aubl., Hist. Pl. Guiane 2: 804, t. 317. 1775

T. B. aspera Aubl. (Guyana)

= *Clibadium* L.

Balbisia Willd., Sp. Pl. 3 (3): 2214. 1803 nom. rejic. illegit., non Cav. 1804
nom. cons.

T. B. elongata Willd. (Mexico)

= *Tridax* L.

Balbisia DC. in Guill., Arch. Bot. (Paris) 2: 333. 1833 nom. rejic. illegit., non
Cav. 1804 nom. cons.

T. B. berteroi (Meissn.) DC. (Juan Fernandez)

= *Rhetinodendron* Meissn.

Baldingeria [F. W. Schmidt, Samml. Phys. Ökon Aufsätze 1: 277. 1795]
T. B. pygmaea F. W. Schmidt (?)
 = *Leontodon* L.

(**Baldingeria** Neck., Elem. 1: 88. 1790 nom. non rite public.)

Balduina Nutt., Gen. 2: 175. 1818 nom. cons.
T. B. uniflora Nutt. (Florida)
 Sp. 3, S USA
 M.
 Tr. Heliantheae

Balduinia Nutt. orth. mut. Rafin. [Journ. Phys. Chim. Hist. Nat. 89: 260. 1819]
 orth. var. = *Balduina* Nutt.

Baldwinia Nutt. orth. mut. Torr. & A. Gray, Fl. N. Amer. 2: 388. 1842 orth. var.
 = *Balduina* Nutt.

Ballieria Aubl. orth. mut. Juss., Gen. 188. 1789 orth. var. = *Ballieria* Aubl. =
Clibadium L.

Balsamita Mill., Gardn. Dict. Abridge., Ed. 4. 1754.
T. Tanacetum balsamita L. (SW Asia)
 Sp. 1, Eur., SW Asia
 M.
 Tr. Anthemideae

Balsamorhiza Hook., Fl. Bor. Amer. 1: 310. 1833
T. B. hookeri Nutt. (Oregon)
 Sp. 14, W North Amer., Mexico
 M.
 Tr. Heliantheae

Baltimora L., Mant. 2: 158, 288. 1771
T. B. recta L. (Mexico)
 Sp. 2, neotrop.
 M. Steussey in Feldiana Bot. 36: 31-50. 1973
 Tr. Heliantheae

Baltimorea L. orth. mut. Rafin., [Princ. Somiol. 26. 1814] = *Baltimora* L.

Barattia A. Gray & Engelm. orth. mut. B. D. Jacks., Ind. Kew. 1: 272. 1893 orth.
var. = *Barrattia* A. Gray & Engelm. = *Simsia* Pers.

Barbellina Cass., Dict. Sc. Nat. 47: 511. 1827

T. B. sericea Cass. nom. illegit. (= *Staehelina arborescens* L.) (Crete)
= *Staehelina* L.

Barbeya Alboff, [Mem. Sect. Caucas. Soc. Imp. Russ. Geog. 14: 143. 1894]
nom. illegit. = *Albowiodoxa* Woron. ex Grossh. = *Amphoricarpus* Vis.

Barkhausenia Moench orth. mut. Menke, Flora 37: 723. 1854 orth. var. =
Barkhausia Moench = *Crepis* L.

Barkhausia Moench orth. mut. DC., Cat. Horti Monsp. 10: 82. 1813 orth. var.
= *Barkhausia* Moench = *Crepis* L.

(**Bardana** Fabr., [Enum. Meth. Pl. 95. 1759 nom. nud.]

Bardana Hill, Veg. Syst. 4: 28. 1762 nom. superfl. illegit. = *Arctium* L.

Barkhausia Moench, Meth. 537. 1794

T. B. scariosa Moench nom. illegit. (*Crepis alpina* L.)
= *Crepis* L.

Barkhusenia Moench orth. mut. Hoppe, Flora 12: 512. 1829 orth. var. =
Barkhausia Moench = *Crepis* L.

Barkleyanthus H. Robins. & Brettell, Phytologia 27: 407. 1974

T. B. salicifolia (Kunth) H. Robins. & Brettell (Mexico)

Sp. 1, S USA, Mexico, C. Amer.

M.

Tr. Senecioneae

Barnadesia Mutis ex Linn. f., Suppl. 55, 348. 1781

T. B. spinosa Linn. f. (Colombia)

Sp. 22, trop. Andes, E Brazil

M. Chung, Rev. *Barnadesia* (1965)

Tr. Mutisieae

Barrattia A. Gray & Engelm., Proc. Amer. Arts 1: 48. 1846-1847

T. B. calva A. Gray (Texas)

= *Simsia* Pers.

Barroetia A. Gray, Proc. Amer. Acad. Arts 15: 29. 1880

T. B. setosa A. Gray (Mexico)

Sp. 6, Mexico

M.

Tr. Eupatorieae

Barroetia A. Gray orth. mut. B. D. Jacks., Ind. Kew. 1: 276. 1893 orth. var. \equiv

Barroetia A. Gray

Barrosoa R. M. King & H. Robins., Phytologia 21: 26. 1971

T. Eupatorium candolleanum Hook. & Arn. (Brazil)

Sp. 11, S Amer.

M.

Tr. Eupatorieae

Bartlettia A. Gray, Mem. Amer. Acad. Arts ser. 2, 5: 323. 1855

T. B. scaposa A. Gray (Mexico)

Sp. 1, Mexico

M.

Tr. Heliantheae

Bartlettina R. M. King & H. Robins., Phytologia 22: 160. 1971

T. B. tuerckheimii (Klatt) R. M. King & H. Robins. (Mexico)

Sp. 20, Trop. N & S Amer.

M.

Tr. Eupatorieae

Bartolina Adans., Fam. 2: 124, 524. 1763 nom. illegit. superfl. et rejic. \equiv *Tridax*

L.

Basedowia E. Pritzel, Ber. Deutsche Bot. Ges. 36: 332. 1918

T. B. helichrysoides E. Pritzel (S Austral.)

Sp. 1, Austral.

M.

Tr. Inuleae

Bastera Houtt. orth. mut. Cothenius, Disp. 14. 1790 orth. var. \equiv *Basteria* Houtt.

\equiv *Cullumia* R. Br.

Basteria Houtt., [Natuurl. Hist. 2 (6): 158. 1776] nom. illegit.

T. B. aculeata Houtt. (S Afr., Cape Prov.)

\equiv *Cullumia* R. Br.

Batschia Moench, Meth. 567. 1794 nom. illegit.
T. B. nivea Moench nom. illegit. (Virginia)
 = *Ageratina* Spach

Baucis Phil., Anal. Univ. Chile 85: 838. 1894
T. B. lavandulifolia Phil. (Chile)
 = *Brachyclados* D. Don

Baziasa Steud., Nom. ed. 2, 1: 192. 1840 nom. illegit. superfl. = *Sabazia* Cass.

Bebbia Greene, Bull. Calif. Acad. Sc. 1 (4): 179. 1885
T. B. juncea (Benth.) Greene (Calif.)
 Sp. 2, SW USA, Mexico
 M. Whalen in Madroño 24: 112-123. 1977
 Tr. Heliantheae

Bechium DC., Prodr. 5: 70. 1836
T. B. rubricaula DC., *B. scapiforme* DC. (syntypes, Madag.)
 = *Vernonia* Schreb. sens. lat.

Bedfordia DC. in Guill., Arch. Bot. (Paris) 2: 332. 1833
T. B. salicina DC., *B. linearis* DC. (syntypes, Tasmania)
 Sp. 3, SE Austral., Tasmania
 M.
 Tr. Senecioneae

Behen Hill, Veg. Syst. 4: 41. 1762 nom. illegit. superfl. = *Jacea* Mill. =
Centaurea L.

(**Behrinia** Sieb. ex Steud., Nom. 105. 1821 pro syn.)

Bejaranoa R. M. King & H. Robins., Phytologia 40: 52. 1978
T. Eupatorium balansae Hieron. (Parag.)
 Sp. 2, Boliv., Brazil, Parag.
 M.
 Tr. Eupatorieae

(**Belenidium** Arn. ex DC., Prodr. 7: 297. 1836 pro syn.)

Bellardia Colla, Mem. Reale Accad. Torino 38: 40, t. 34. 1835 nom. illegit.
T. B. pusilla Colla (*Microseris pygmaea* D. Don) (Chile)
 = *Microseris* D. Don

Bellida Ewart, Proc. Roy. Soc. Victoria ser. 2, 19: 34, t. 10, 11. 1907

T. *B. graminea* Ewart (W Austral.)

Sp. 2, Austral.

M.

Tr. Inuleae

Bellidastrum Scop., Fl. Carn. 376. 1760

T. *Doronicum bellidastrum* L. (Eur., Alps)

= *Aster* L.

Bellidiaster Scop. orth. mut. Dum., Fl. Belg. 66. 1827 orth. var. = *Bellidastrum*

Scop. = *Aster* L.

Bellidiastrum Scop. orth. mut. Cass., Bull. Soc. Philom. 1816: 199. 1816 orth.

var. = *Bellidastrum* Scop. = *Aster* L.

Bellidiastrum Less., Syn. Comp. 383. 1832 nom. illegit. = *Bellidiopsis* (DC.)

Spach = *Osmitopsis* Cass.

Bellidiopsis (DC.) Spach, Hist. Nat. Veg. Phan. 10: 25. 1841 nom. illegit.

superfl. = *Osmitopsis* Cass.

Bellidistrum Scop. orth. mut. Reichb., Consp. 109. 1828 orth. var. =

Bellidastrum Scop. = *Aster* L.

(**Bellidium** Bertol., Fl. Ital. 9: 316. 1853 nom. nud.)

Belliopsis Pomel, [Matér. Fl. Atlant. 7. 1860]

T. *B. rotundifolia* (Desf.) Pomel (Algeria)

= *Bellis* L.

Bellis L., Sp. Pl. 886. 1753 & Gen. Pl. ed. 5, 378. 1754

T. *B. perennis* L. (Eur.)

Sp. 7, Eur., Medit.

M.

Tr. Astereae

Bellium L., Mant. 2: 157, 285. 1771

T. *B. bellioides* L. (Italy)

Sp. 3, Medit.

M.

Tr. Astereae

Belloa Remy in C. Gay, Hist. Chile Bot. 3: 336, t. 38. 1848

T. B. chilensis (Hook. & Arn.) Remy (Chile)

Sp. 11, Andes

M. Cabrera in Bol. Soc. Arg. Bot. 7: 79-85. 1958

Tr. Inuleae

Bembecodium G. Kunze orth. mut. Lindl., Veg. Kingd. 712. 1846 orth. var. =
Bembycodium G. Kunze = *Athanasia* L.

(**Bembicium** Mart. ex Bak. in Mart., Fl. Bras. 6 (2): 341. 1876 pro syn.)

(**Bembicodium** G. Kunze orth. mut. Post & O. Kuntze, Lex. 65. 1903 orth. var.
pro syn.)

Bembycodium G. Kunze, Linnaea 16: 316. 1842

T. B. athanasiae G. Kunze (S Afr., Cape Prov.)

= *Athanasia* L.

Benedicta Bernh., Syst. Verzeichniss Pfl. Erf. 108, 159. 1800 nom. illegit.
superfl. = *Cnicus* L.

Benitoa Keck, Leafl. West Bot. 8: 26. 1956

T. B. occidentalis (Hall) Keck (Calif.)

Sp. 1, Calif.

M.

Tr. Astereae

(**Bennetia** S. F. Gray orth. mut. DC., Prodr. 6: 531. 1837 orth. var. pro syn.)

Bennetia S. F. Gray, Nat. Arr. Brit. Pl. 2: 440. 1821 nom. illegit. rejic. =
Saussurea DC. nom. cons.

Berardia Vill., Prosp. Hist. Pl. Dauph. 27. 1779

T. B. subacaulis Vill. (France)

Sp. 1, W Alps

M.

Tr. Cardueae

Berckheya Ehrh. orth. mut. Pers., Syn. 2: 480. 1807 orth. var. = *Berkheya* Ehrh.

Berhardia Vill. orth. mut. C. Muell. in Walp., Ann. Bot. Syst. 5: 309. 1859 orth.
var. (sphalm.) = *Berardia* Vill.

Berinia Brign., Fasc. Rar. Pl. Forojul. 29. 1810

T. B. andryaloides Brign. nom. illegit. (*Andryala chondrilloides* Scop.)

(Yugoslav.)

= *Crepis* L.

Berkheya Ehrh., [Neues Mag. Aerzte 6: 303. 1784] nom. cons.

T. B. fruticosa (L.) Ehrh. (S Afr., Cape Prov.)

Sp. 75, trop. & S Afr.

M. Roessler in Mitt. Bot. Staatss. München 3: 104-270. 1959

Tr. Arctoteae

Berkheyopsis O. Hoffm. in Engl. & Prantl, Nat. Pflanzenfam. 4 (5): 311. 1892

& Bol. Soc. Brot. 10: 179. 1892

T. syntypes several spp., trop. Afr.

= *Hirpicium* Cass.

Berlandiera DC., Prodr. 5: 517. 1836

T. B. texana DC. (Texas)

Sp. 4, S USA, Mexico

M. Pinkava in Brittonia 19: 285-298. 1967

Tr. Heliantheae

(**Bernardia** Vill. orth. mut. Endl., Gen. 469. 1838. orth. var. (sphalm.) in syn.)

Berniera DC., Prodr. 7: 18. 1836 nom. illegit. rejic., non *Bernieria* Baill. nom. cons. 1884

T. B. nepalensis DC. nom. illegit. (*Chaptalia maxima* D. Don) (Nepal)

= *Gerbera* Cass.

Berroa Beauverd, Bull. Soc. Bot. Genève ser. 2, 5: 210. 1913

T. Lucilia gnaphalioides Less. (Brazil)

Sp. 1, subtrop. S Amer.

M.

Tr. Inuleae

Berthelotia DC., Prodr. 5: 375. 1836

T. B. lanceolata DC. (India)

= *Pluchea* Cass.

Bertholetia DC. orth. mut. Reichb., Deutsche Bot. I, Nom. 91. 1841 orth. var.

(sphalm.) ≡ *Berthelotia* DC. = *Pluchea* Cass.

Bertolonia DC., Ann. Mus. Par. 19, t. 5. 1812 nom. illegit. rejic.
T. B. purpurea (Vahl) DC. (Chile)
 = *Leucheria* Lag.

(**Bethencourtia** Choisy in [Buch, Besch. Canar. Ins. 148. 1825] pro syn.)

Bezanilla Remy in C. Gay, Hist. Chile Bot. 4: 109, t. 1849 nom. superfl. illegit.
 ≡ *Psilocarphus* Nutt.

(**Biasolettia** Pohl. ex Bak. in Mart., Fl. Bras. 6 (2): 311. 1876 pro syn.)

Bichenia D. Don, Trans. Linn. Soc. 16: 236. 1830
T. B. aurea D. Don (Chile)
 = *Trichocline* Cass.

Bidens L., Sp. Pl. 831. 1753 & Gen. Pl. ed. 5, 362. 1754
T. B. tripartita L. (Eur.)
 Sp. c. 230, cosmopol.
 M.
 Tr. Heliantheae

Bielzia Schur, Enum. Pl. Transsilv. 409. 1866 nom. superfl. illegit. ≡ *Centaurea* L.

Bigelowia DC., Prodr. 5: 329. 1836. nom. cons.
T. B. nudata (Michx) DC. (E USA)
 Sp. 2, N Amer.
 M. Anderson in Sida 3 (7): 451-465. 1970
 Tr. Astereae

Bikera Adans., Fam. 2: 130, 525. 1763 nom. superfl. illegit. ≡ *Tetrogonothea* L.

Bileveillea ('Bi-Leveillea') Vaniot, Bull. Acad. Inst. Geogr. Bot. 13: 326. 1904
T. B. granulatifolia Lev. (China)
 = *Blumea* DC.

Billotia Sch. Bip in [Herb. & Winck., Jahrb. Pract. Pharm. Verwandte Fächer 4: 155. 1841] nom. illegit. ≡ *Barkhausia* Moench = *Crepis* L.

Billya Cass., Dict. Sc. Nat. 34: 38. 1825 non *Billia* Peyr. 1858 nom. cons. propos.

T. B. bergii Cass. (*Gnaphalium asperum* L.) (S Afr., Cape Prov.)
= *Petalacte* D. Don

Bindera Rafin., New Fl. 4: 71. 1838

T. B. ciliata Rafin. (SE USA)
= *Aster* L.

Biolettia Greene, Pittonia 2: 215. 1891

T. B. riparia Greene (Calif.)
= *Trichocoronis* A. Gray

Biotia Cass., Dict. Sc. Nat. 34: 308. 1825

T. Madia viscosa Cav. (Chile)
= *Madia* Molina

Biotia DC., Prodr. 5: 264. 1836 nom. illegit.

T. syntypes several spp. (N Amer.)
= *Aster* L.

Bipontia S. F. Blake, J. Wash. Acad. Sc. 27: 379. 1937 nom. rejic. = *Soaresia*
Sch. Bip. nom. cons.

Bishopalea H. Robins., Phytologia 48: 211. 1981

T. B. erecta H. Robins. (Brazil)
Sp. 1, Brazil
M.
Tr. Vernonieae

Bishopiella R. M. King & H. Robins., Phytologia 48: 218. 1981

T. B. elegans R. M. King & H. Robins. (Brazil)
Sp. 1, Brazil
M.
Tr. Eupatorieae

Bishovia R. M. King & H. Robins., Phytologia 39: 339. 1978

T. B. boliviensis R. M. King & H. Robins. (Boliv.)
Sp. 2, Boliv., Argent.
M.
Tr. Eupatorieae

Blainvillea Cass., Dict. Sc. Nat. 29: 493. 1823

T. *B. rhomboidea* Cass. (cult.)

Sp. 10, tropics

M.

Tr. Heliantheae

Blakeanthus R. M. King & H. Robins., Phytologia 24: 118. 1972

T. *Alomia cordata* S. F. Blake (Guatem.)

Sp. 1, Guatem.

M.

Tr. Eupatorieae

Blakiella Cuatrec., Webbia 24 (1): 37. 1969

T. *B. bartsifolia* (S. F. Blake) Cuatrec. (Venez.)

Sp. 1, Venez.

M.

Tr. Astereae

Blanchetia DC., Prodr. 5: 75. 1836

T. *B. heterotricha* DC. (Brazil)

Sp. 1, Brazil

M.

Tr. Vernoniaeae

(**Blanckea** Boiss., Fl. Or. 3: 212. 1875 pro syn.)

Blaxium Cass., Dict. Sc. Nat. 30: 328. 1824

T. *B. decumbens* Cass. nom. illegit. (*Calendula fruticosa* L.) (S Afr., Cape Prov.)
= *Osteospermum* L.

Blennosperma Less., Syn. Comp. 267. 1832

T. *B. chilense* Less. (Chile)

Sp. 3, Calif., Chile

M.

Tr. uncertain, Heliantheae/Senecioneae (?)

Blennospora A. Gray in Hook., Journ. Bot. Kew Gard. Misc. 3: 98, 172. 1851

T. *B. drummondii* A. Gray (W Austral.)

Sp. 2, Austral.

M. Short in Muelleria 6: 349-358. 1987

Tr. Inuleae

Blepharipappus Hook., Fl. Boreal.-Amer. 1: 316. 1833

T. B. scaber Hook. (W North Amer.)

Sp. 1, W USA

M.

Tr. Heliantheae

Blepharispermum DC. in Wight, Contrib. Bot. Ind. 11. 1834

T. B. petiolare DC. (Sri Lanka)

Sp. c. 10, trop. Afr., Arab., India, Madag.

M.

Tr. Heliantheae

Blepharizonia (A. Gray) Greene, Bull. Calif. Acad. Sc. 1 (4): 279. 1885

T. B. plumosa (Kell.) Greene (Calif.)

Sp. 1, Calif.

M.

Tr. Heliantheae

Blepharopappus Hook. orth. mut. Post & Kuntze, Lex. 71. 1903 orth. var. =
Blepharipappus Hook.

Blepharospermum DC. orth. mut. Post & Kuntze, Lex. 71. 1903 orth. var. =
Blepharispermum DC.

Blepharozonia Greene orth. mut. Post & Kuntze, Lex. 71. 1903 orth. var. =
Blepharizonia Greene

Blumea DC. in Guill., Arch. Bot. (Paris) 2: 514. 1833 nom. cons.

T. B. balsamifera (L.) DC. (India)

Sp. c. 75, tropics

M. Randeria in *Blumea* 10: 176-317. 1960

Tr. Inuleae

Blumeopsis Gagnep., Bull. Mus. Hist. Nat. (Paris) 26: 75. 1920

T. B. flava (DC.) Gagnep. (= *B. falcata* (D. Don) Merr.) (Nepal)

Sp. 1, SE Asia

M.

Tr. Inuleae

Boebera Willd. Sp. Pl. 3 (3): 1484, 2125. 1803

T. B. chrysanthemoides Willd. nom. illegit. (*Tagetes papposa* Vent.) (Illinois)
= *Dyssodia* Cav.

Boeberastrum (A. Gray) Rydb., N. Amer. Fl. 34: 161. 1915

T. B. anthemidifolium (Benth.) Rydb. (Baja Calif.)

Sp. 2, Mexico

M.

Tr. Heliantheae

Boeberoides (DC.) Strother in Sida 11: 373. 1986

T. B. grandiflora (DC.) Strother (Mexico)

Sp. 1, Mexico

M.

Tr. Heliantheae

Bohadschia F. W. Schmidt, [Samml. Phys. Ökon. Aufsätze 1: 279. 1795] nom. illegit.

T. B. lucida (L.) F. W. Schmidt (Medit.)

= *Hyoseris* L.

Bojera DC. orth. mut. Steud., Nom. ed. 2, 1: 213. 1840 orth. var. ≡ *Bojeria* DC. = *Inula* L.

Bojeria DC., Prodr. 5: 94. 1836

T. B. speciosa DC. (Madag.)

= *Inula* L.

Bolanosa A. Gray, Smithson. Contrib. Knowl. (Pl. Wright. 1) 3 (5): 82. 1852

T. B. coulteri A. Gray (Mexico)

Sp. 1, Mexico

M.

Tr. Vernoniaeae

Bolbostylis DC. orth. mut. Gardn. in Hook., London Journ. Bot. 5: 467. 1846 orth. var. ≡ *Bulbostylis* DC. = *Brickellia* Ell.

Bolocephalus Hand.-Mazz., Journ. Bot. 76: 291. 1938

T. B. saussureoides Hand.-Mazz. (Tibet)

= *Dolomiaea* DC.

Bolophyta Nutt., Trans. Amer. Philos. Soc. ser. 2, 7: 347. 1840 (- *Parthenium* L.)

T. B. alpina Nutt. (Arkansas)

Sp. 3, W USA

M. Weber in Phytologia 41: 486-487. 1979

Tr. Heliantheae

(**Bolosia** Pourr. ex Willk. & Lange, Prodr. Fl. Hisp. 2: 211. 1870 pro syn.)

Boltonia L'Hérit., Sert. Angl. 27. 1789

T. B. glastifolia (J. Hill) L'Hérit. (N Amer.)

Sp. 8, N Amer., E Asia

M.

Tr. Astereae

Bombycilaena (DC.) Smoljaninova, Bot. Mater. Gerb. Bot. Inst. Kom. Akad.

Nauk SSSR 17: 448. 1955

T. B. erecta (L.) Smoljaninova (Spain)

Sp. 3, Medit. to C. Asia, Pacific N Amer.

M.

Tr. Inuleae

Borkhausia Moench orth. mut. Nutt., Gen. 2: 125. 1818 orth. var. = *Barkhausia*

Moench = *Crepis* L.

Borkonstia Ignatov, Byull. Mosk. Obshch. Isp. Prirod. Biol. 88 (5): 105. 1983

nom. superfl. illegit. = *Rhinactidia* Novopokr. (- *Aster* L.)

Borrichia Adans., Fam. 2: 130, 327. 1763

T. B. fruticosa (L.) DC. (Jamaica, Virginia)

Sp. 2, SE USA, W Indies

M. Semple in Ann. Miss. Bot. Gard. 65: 681-693. 1979

Tr. Heliantheae

Bothriocline Oliv. ex Benth. in Hook., Ic. Pl. 12: 30, t. 1133. 1873

T. B. schimperi Oliv. & Hiern ex Benth. (Ethiop.)

Sp. c. 40, trop. Afr., Madag.

M.

Tr. Vernoniaeae

Botryadenia Fisch. & Mey., Ind. Sem. Hort. Petrop. 2: 30. 1834

T. B. gmelinii Fisch. & Mey. (Iran)

= *Myriactis* Less.

Bourdonia Greene, Erythea 1: 207. 1893

T. B. bellidifolia (A. Gray & Engelm.) Greene (Texas)

= *Chaetopappa* DC.

Bourgaea Coss., Notes Crit. 39. 1849

T. Cynara humilis L. (Morocco)

= *Cynara* L.

Bowmania Gardn. in Hook., London Journ. Bot. 2: 9. 1843

T. B. verbascifolia Gardn. (Brazil)

= *Trixis* P. Br.

Brachanthemum DC., Prodr. 6: 44. 1838

T. B. fruticosum (Ledeb.) DC. (Kazakhstan)

Sp. 8, C. & Middle Asia

M.

Tr. Anthemideae

(**Bracheilema** R. Br. in Salt, Abyss., App. 65. 1814 nom. nud.)

Brachioglottis J. R. & G. Forst. orth. mut. Desp., [Dict. Sc. Nat. 5: 295. 1806]

orth. var. ≡ *Brachyglottis* J. R. & G. Forst.

Brachionostylum Mattf., Nova Guinea 14: 527. 1932

T. B. pullei Mattf. (New Guinea)

Sp. 1, New Guinea

M.

Tr. Senecioneae

Brachyachaenium Bak. orth. mut. Airy Shaw in Willis, Dict. ed. 7: 152. 1966

orth. var. ≡ *Brachyachenium* Bak. = *Dicoma* Cass.

Brachyachenium Bak., Journ. Linn. Soc. Bot. 25: 330. 1890

T. B. incanum Bak. (Madag.)

= *Dicoma* Cass.

Brachyachyris Nutt. orth. mut. Spreng., Syst. 3: 574. 1826 orth. var. ≡

Brachyris Nutt. = *Gutierrezia* Lag. = *Xanthocephalum* Willd.

Brachyactis Ledeb., Fl. Ross. 2: 495. 1845

T. B. ciliata (Ledeb.) Ledeb. (Altai)

Sp. 5, N Asia, N Amer.

M.

Tr. Astereae

Brachyandra Phil., [Fl. Atacam. 34. 1860] nom. cons.

T. B. monogyna Phil. (Chile)

= *Helogyne* Nutt.

Brachyaster Ambrosi, Fl. Tirol. Austr. 2: 379. 1857 nom. illegit. superfl. ≡

Bellidastrum Scop. = *Aster* L.

Brachychaeta Torr. & A. Gray, Fl. N. Amer. 2: 194. 1842 (- *Solidago* L.)

T. B. cordata Torr. & A. Gray nom. illegit. (*Solidago sphacelata* Rafin.) (SE USA)

Sp. 1, SE USA

M.

Tr. Astereae

Brachychlaena R. Br. orth. mut. Post & Kuntze, Lex. 77. 1903 orth. var. ≡

Brachylaena R. Br.

Brachyclados Gillies ex D. Don, [Philos. Mag. Ann. Chem. 11: 391. 1832]

T. B. lycioides Gillies ex D. Don (Chile)

Sp. 3, Argent., Chile

M.

Tr. Mutisieae

Brachycladus Gillies ex D. Don orth. mut. Wittstein, [Entymol. Handwörterb.

118 1852] orth. var. ≡ *Brachyclados* Gillies ex D. Don

Brachycome Cass., Bull. Soc. Philom. Paris 1816: 199. 1816. corr. Cass., Dict.

Sc. Nat. 37: 491. 1825

T. B. billardieri Cass. nom. illegit. (*Bellis aculeata* Labill.) (W Austral.)

Sp. 66, Austral., New Zeal., New Guinea

M. Davis in Proc. Linn. Soc. New S. Wales 73: 142-241 (1948) & 74: 97-106 (1949)

Tr. Astereae

Brachyderea Cass., Dict. Sc. Nat. 48: 429. 1827
T. B. rigida (Walst. & Kit.) Cass. (Hungary)
 = *Crepis* L.

Brachyglottis J. R. & G. Forst., Charact. Gen. 46. 1775
T. B. repanda J. R. & G. Forst. (New Zeal.)
 Sp. c. 30, New Zeal., Tasman.
 M. Nordenstam in Op. Bot. 44: 25-31. 1978 (list)
 Tr. Senecioneae

(**Brachygyne** Cass., Dict. Sc. Nat. 50: 493. 1827 nom. provis.)

Brachylaena R. Br., [Observ. Comp. 115. 1817] & Trans. Linn. Soc. 12: 115.
 1817
T. B. nereifolia (L.) Less. (S Afr.)
 Sp. 17, trop. & S Afr., Masc. Is., Madag.
 M.
 Tr. Mutisieae

Brachymeris DC., Prodr. 6: 76. 1838
T. B. scoparia DC. (S Afr.)
 = *Phymaspermum* Less.

Brachyoglottis J. R. & G. Forst. orth. mut. Lam., Encycl. 1: 459. 1785 orth. var.
 ≡ *Brachyglottis* J. R. & G. Forst.

Brachypappus Sch. Bip., Flora 38: 119. 1855
T. B. candicans (Vahl) Sch. Bip. (Falkland Is.)
 = *Senecio* L. sens. lat.

(**Brachypoda** Rafin., New Fl. N. Amer. 2: 43. 1837 nom. provis.)

Brachyramphus DC., Prodr. 7: 176. 1838
T. B. intybacea (Jacq.) DC. (W Indies)
 = *Launaea* Cass.

Brachyrhynchos Less., Syn. Comp. 446. 1832
T. B. juncea Less. (S Afr., Cape Prov.)
 = *Senecio* L. sens. lat.

Brachyrhynchos Less., Syn. Comp. 392. 1832 orth. var. (sphalm.) ≡
Brachyrhynchos Less. = *Senecio* L. sens. lat.

Brachyridium Meissn., Pl. Vasc. Gen. 1: 187, 2: 127. 1839 nom. superfl. illegit.
 ≡ *Lepidophyllum* Cass.

Brachyris Nutt., Gen. 2: 163. 1818

T. B. euthamiae Nutt. nom. illegit. (*Solidago sarothrae* Pursh) (C. USA)
 = *Gutierrezia* Lag. = *Xanthocephalum* Willd.

Brachyrrhamphus DC. orth. mut. Wittst., [Etymol. Handwörterb. 120. 1852]
 orth. var. ≡ *Brachyramphus* DC. = *Launaea* Cass.

Brachyscome Cass., Bull. Soc. Philom. Paris 1816: 199. 1816 orth. var. ≡
Brachycome Cass. corr. Cass.

Brachystephium Less., Syn. Comp. 388. 1832

T. B. leucanthemoides Less. nom. illegit. (*Pyrethrum diversifolium* Grah. ex
 Hook.) (Tasman.)
 = *Brachycome* Cass. corr. Cass.

(**Brachystylis** E. Mey. ex DC., Prodr. 6: 76. 1838 in syn.)

Brachytrix H. Wild. & Pope, Kirkia 11:25. 1978

T. B. stolzii (S. Moose) H. Wild & Pope
 Sp. 5, SE trop. Africa
 M.
 Tr. Vernoniaeae

Bradburia Torr. & A. Gray, Fl. N. Amer. 2: 250. 1842 nom. cons.

T. B. hirtella Torr. & A. Gray (Texas)
 Sp. 1, S USA, Mexico
 M.
 Tr. Astereae

(**Branicia** Andrz. ex Trautv., Act. Hort. Petrop. 8: 476. 1883 nom. non rite
 public.)

Brasea A. Voss (ubi?)

T. (?)
 = (?) *Senecio* L.

Brasilia G. M. Barroso, Arq. Jard. Bot. Rio Janeiro 17: 19. 1963

T. B. sickii G. M. Barroso (Brazil)

Sp. 1, Brazil

M.

Tr. Heliantheae

Brassavola Adans., Fam. 2: 127, 527. 1763 nom. illegit. rejic. et superfl. =
Helenium L.

Brauneria Neck. ex Porter & Britton, Mem. Torr. Bot. Cl. 5: 334. 1894 nom.
illegit. superfl. = *Echinacea* Moench

Breea Less., Syn. Comp. 9: 1832

T. B. arvensis (L.) Less. (Europe)

= *Cirsium* Mill.

Brephocton Rafin., Fl. Tell. 2: 49. 1833

T. B. cuneatum Rafin. nom. illegit. (*Erigeron tricuneatum* Linn. f.) (Mexico)

= *Baccharis* L.

Breteuillia Buc'hoz, [Grand. Jard. Univ. t. 62 1785] nom. rejic.

T. B. trianaensis Buc'hoz (?)

= *Didelta* L'Hérit. nom. cons.

Brickellia Ell., Sketch Bot. S. Carolina Georgia 2: 290. 1823 nom. cons.

T. B. cordifolia Ell. (USA, Georgia)

Sp. c. 100, USA, Mexico, C. & S Amer.

M.

Tr. Eupatorieae

Brickelliastrum R. M. King & H. Robins., Phytologia 24: 63. 1972

T. B. fendleri (A. Gray) R. M. King & H. Robins. (SW USA)

Sp. 1, SW USA

M.

Tr. Eupatorieae

Bridgesia Hook., Bot. Misc. 2: 222, t. 92. 1831 nom. illegit. rejic.

T. B. echinopsoides Hook. (Peru)

= *Polyachyrus* Lag.

Brintonia Greene, *Erythea* 3: 89. 1895 (- *Solidago* L.)
T. *Solidago discoidea* (Ell.) Torr. & A. Gray (SE USA)
Sp. 1, SE USA
M.
Tr. Astereae

Brocchia Vis., *Pl. Aeg. Nub.* 35. 1836
T. *Cotula cinerea* Del. (Egypt)
= *Cotula* L.

Brotera Spreng. in Schrad., *Journ. Bot.* 4, t. 5. 1800 nom. illegit. superfl. ≡
Nauenburgia Willd. = *Flaveria* Juss.

Brotera Willd., *Sp. Pl.* 3 (3): 2299. 1803 nom. illegit. superfl. ≡ *Cardopatium*
Juss.

Broteroa Spreng. orth. mut. DC., *Prodr.* 5: 635. 1836 orth. var. ≡ *Brotera*
Spreng. = *Flaveria* Juss.

Broteroa Willd. orth. mut. O. Ktze, *Rev. Gen.* 1: 322. 1891 orth. var. ≡ *Brotera*
Willd. ≡ *Cardopatium* Juss.

Bryomorphe Harv., *Thes. Cap.* 2: 33, t. 151. 1863
T. *B. zeyheri* Harv. nom. illegit. (*Klenzea lycopodioides* Sch. Bip. ex Walp.) (S
Afr.)
Sp. 1, S Afr.
M.
Tr. Inuleae

Bubonium Hill, *Veg. Syst.* 2: 74. 1761 nom. illegit. superfl. ≡ *Asteriscus* Mill.

Bulbostylis DC., *Prodr.* 5: 138. 1836 nom. illegit. rejic. et superfl. ≡
Coelosanthes Cass. = *Brickellia* Ell.

(**Bunioseris** Jard. in *Jard. & Fourr.*, *l.c.* *Fl. Eur.* 3: 44. 1903 nom. non rite public.)

Buphtalmum L., *Sp. Pl.* 903. 1753 orth. var. (sphalm.) ≡ *Buphtalmum* L.

Bupthalmum L., Sp. Pl., in indice. 1753 & Gen. Pl., ed. 5, 385. 1754

T. *B. salicifolium* L. (S Eur.)

Sp. 2, Europe

M.

Tr. Inuleae

Bupthalmum Mill., Gardn. Dict. Abridge., ed. 4. 1754 nom. illegit.

T. *Anthemis tinctoria* L. (Europe)

= *Anthemis* L.

(**Bupthalmum** Neck., Elem. 1: 19. 1790 nom. non rite public. orth. var. =

Bupthalmum L.)

Burkartia Crisci, Bol. Soc. Arg. Bot. 17: 242. 1976

T. *B. lanigera* (Hook. & Arn.) Crisci (Argent.)

Sp. 1, Argent.

M.

Tr. Mutisieae

Burrielia DC., Prodr. 5: 663. 1836

T. *B. microglossa* DC. (Calif.)

= T. *B. microglossa* DC. (Calif.)

= *Lasthenia* Cass.

(**Bustamenta** Alaman ex DC., Prodr. 5: 166. 1836 pro syn.)

Bustia Adans., Fam. 2: 127, 529. 1763 nom. superfl. illegit. = *Bupthalmum* L.

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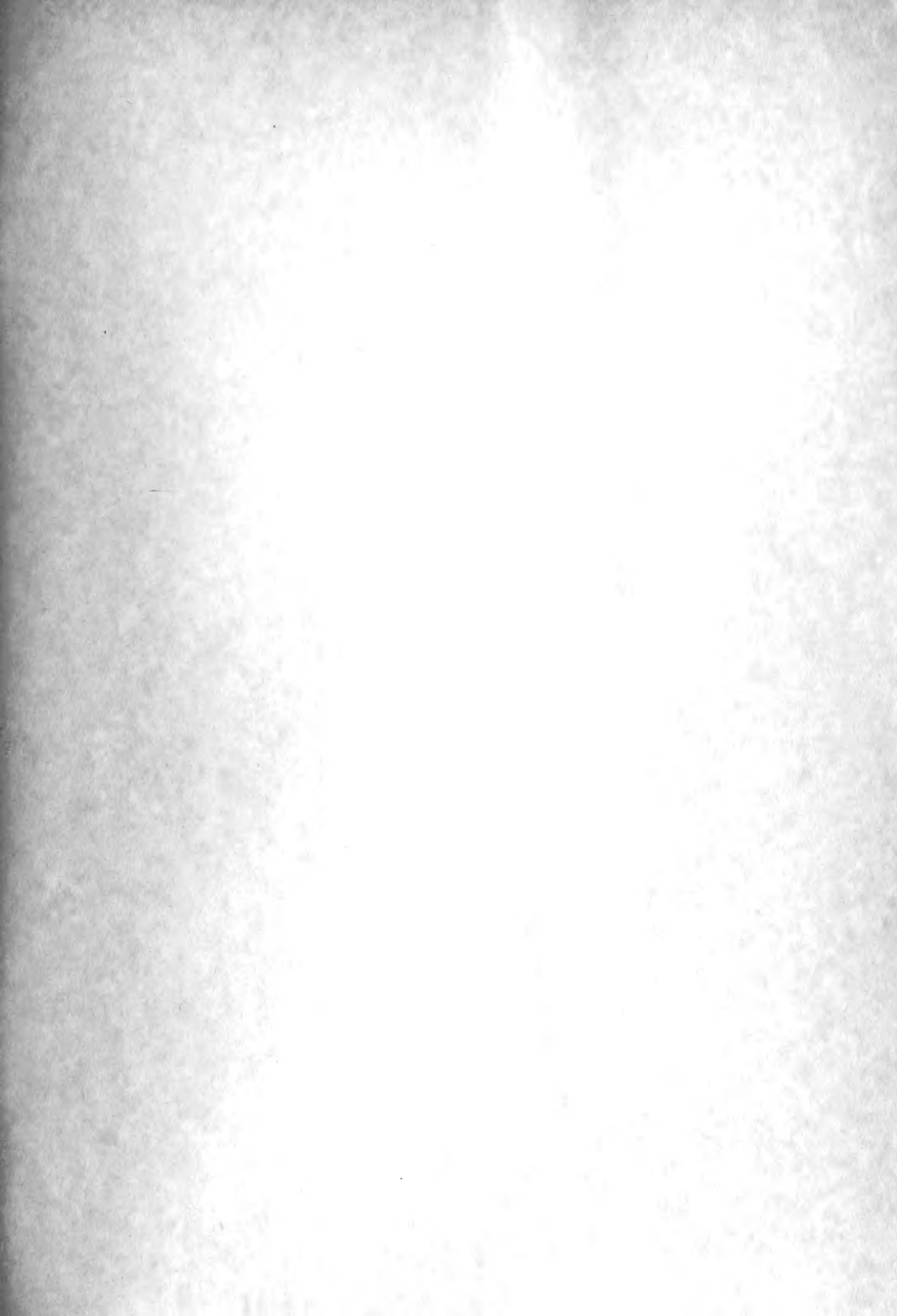
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