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Autor: Schmidt-Lebuhn, Alexander N.

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Bibliography of Carl Clawson Epling's taxonomical and floristic works on the genera of New World Labiatae

ALEXANDER N. SCHMIDT-LEBUHN

ABSTRACT

SCHMIDT-LEBUHN, A. N. (2006). Bibliography of Carl Clawson Epling's taxonomical and floristic works on the genera of New World Labiatae. *Candollea* 61: 71-82. In English, English and French abstracts.

A list of references to taxonomical and floristic publications of C. C. Epling on New World *Labiatae* is provided. Epling dominated systematic research in the *Labiatae* of the Americas from the 1920ies to the 1960ies, but treatments of the same genus are frequently dispersed over numerous revisions, synopses, floristic contributions and supplementary notes. The present list is intended to facilitate the search for works on particular genera.

RÉSUMÉ

SCHMIDT-LEBUHN, A. N. (2006). Bibliographie des travaux taxonomiques et floristiques de Carl Clawson Epling sur les genres des Labiatae du Nouveau Monde. *Candollea* 61: 71-82. En anglais, résumés anglais et français.

La liste des publications taxonomiques et floristiques de C. C. Epling sur les genres des *Labiatae* du Nouveau Monde est organisée par genre afin d'en faciliter l'accès. Epling a dominé la recherche systématique des *Labiatae* des Amériques des années 1920 à la fin des années 1960. Ses traitements de chaque genre sont dispersés dans de nombreuses révisions, synopsis, contributions floristiques et notes complémentaires. La liste présentée a pour but d'aider à retrouver l'ensemble des travaux sur un genre donné.

KEY-WORDS: LABIATAE – LAMIACEAE – New World – Taxonomy – Floristics – Bibliography – Carl Clawson Epling

Introduction

Carl Clawson Epling was born in Waverley, Illinois, on April 15, 1894, and died in Los Angeles, California, on November 19, 1968. After his doctorate thesis on *Monardella* at the Henry Shaw School of Botany in St. Louis he joined the staff of the University of California in 1924, where he became faculty research lecturer in 1941. He was best known as the major authority on the *Labiatae* of the western hemisphere, but in his later years also developed an increasing interest in population genetics and micro-evolution.

Epling dominated taxonomic and systematic research in New World *Labiatae* from the 1920ies to the 1960ies, and it is hardly possible to study a part of the group without, at some point, referring to his publications. He described numerous new species and some new genera, and provided treatments of and keys for genera that in some cases have not been properly revised since his time. His various works, including revisions, synopses, floristic contributions, and taxonomical and distributional notes, were published over the course of 44 years. Unfortunately this

means that the same genus or parts of it may be discussed in quite a number of articles, and in some cases it can prove rather tiresome to collect all information on a certain group, or to make sure that no species description has been overlooked. Especially his series of "Supplementary notes on American Labiatae" is problematic in this regard.

While working on my Ph.D. thesis on the genus *Minthostachys*, I was frequently faced with these difficulties, and decided that it would be useful to invest some time into compiling a list of references. It is my hope that botanists interested in taxonomy or determination of New World *Labiatae* will find this list, as provided here, to facilitate access to Epling's taxonomical and floristic publications.

Epling's bibliography as published two years after his death (MATHIAS, 1970) was consulted to find all relevant articles, most of which were examined. I did not examine all monographs, however, because it can be assumed that they do not deal with other genera than the one indicated by the respective title. His works on genetics, theory, and other groups of organisms are excluded from the compilation, as are his discussions of distribution patterns and descent of the South American *Labiatae* (EPLING, 1940g, 1941a). They are mentioned here in passing because the subject might also be relevant to some readers.

To indicate informational value of the respective publications on each genus, they are here divided into six categories.

nG

nN: "New genus/new name" obviously implies that the genus is described or renamed by Epling. The amount of information he simultaneously provides on new combinations varies.

nT

nC: The category "new taxa/new combination(s)" signifies that new taxa (at any rank below genus) or combinations are published outside of a treatment of the group they belong to. However, in his supplementary notes series Epling usually describes how the keys from his earlier works have to be adapted to accommodate the added taxon.

Sy: A "synopsis" deals with an entire group of organisms, including keys and descriptions of new species, but for older species only the protologue and distributional notes are usually given.

Re: The category "revision" includes detailed revisions and monographs. It should be noted that the scope of synopses and revisions is always restricted to the New World or one of its two continents.

Fl: "Floristic" works, then, are basically like those of the last two categories but restricted to a specific geographical region, like a country. At times they also include descriptions of new species.

No: "Notes" summarize known distribution, cite recently collected specimens which extend the known distribution of a taxon, or give additional morphological information, but no taxonomical changes are proposed. They include references to invasive species native to the Old World, often in the framework of a floristic contribution.

References to a very limited number of publications of other contemporary authors (LEONARD, 1927; LEWIS, 1945; MCVAUGH & SCHMIDT, 1967) were added to this paper because Epling referred to them in his supplementary notes series or collaborated with the author.

The following list of genera is alphabetically ordered, the application of names following Epling, and therefore in some cases outdated, as is, of course, the delimitation of the *Labiatae*. For the benefit of the reader, I have provided some cross-references, especially for large and taxonomically difficult groups such as *Satureja/Clinopodium* s.l., *Hyptis* s.l. and *Hedeoma* s.l., but they are far from summarizing generic synonyms or names as accepted today, a task beyond the scope of this article. For those interested in determination or Epling's delimitation of genera, generic keys

can be found in his floristic contributions: north-western South America (EPLING, 1937b: 5-6), Chile (EPLING, 1937c: 167-168), Bolivia (EPLING, 1937d: 21-22), Peru (EPLING, 1938a: 1-2), Argentina, Paraguay and Uruguay (EPLING, 1938b: 90-91), north-western Argentina (EPLING, 1939b: 393-394), Yucatan (EPLING, 1940d: 228), Brazil (EPLING & TOLEDO, 1943: 4-13; *Hyptis* excluded), Arizona (EPLING, 1942b: 767-769, 1944b: 272-273), Charleston Mountains of Nevada (EPLING, 1951b: 199), California (EPLING, 1951c: 731-733), Panama (NOWICKE & EPLING, 1969: 72).

List of Genera

Agastache Gronov.

nC: 33: 489.
Re: 75: 207-230.
Fl: 45: 773-774, 54: 736-737.
No: 52: 130, 66: 302, 65: 295.

Asterohyptis Epling

nG, nC: 8: 17-21.
Fl: 38: 237.
No: 43: 554, 66: 301.

Bystropogon L'Hér.

→ *Minthostachys*

Calamintha Miller

→ *Satureja*

Catopheria Benth.

Sy: 17: 320-321.
Fl: 18: 137-138.
No: 36: 509, 52: 142, 66: 312, 63: 255-256, 65: 295.

Ceratominthe Briq.

→ *Satureja*

Chaunostoma Donn. Sm.

No: 36: 512, 50: 353.

Clinopodium L.

→ *Satureja*
Fl: 45: 783, 54: 746.

Coleus Lour.

Fl: 38: 236, 80: 83-84.
No: 14: 184, 18: 101, 24: 188, 36: 511, 46: 496-497, 65: 295.

Collinsonia L.

No: 5: 6.

Cuminia Colla

- *Johowia*
 → *Skottsbergiella*
-

Cunila L.

- nT, No:** 52: 139-140.
Sy: 14: 138-142, 67: 6-7.
Fl: 22: 122-125, 80: 81-83.
No: 5: 7 (on the type of *Satureja origanoides*), 58: 144, 60: 370, 66: 303.
-

Dracocephalum L.

- *Moldavica*
Fl: 45: 775, 54: 738, 68: 35-36.
-

Eriope Benth.

- nT, No:** 46: 494-495, 66: 313.
Sy: 14: 188-192, 15: 193-195.
Fl: 18: 103-104, 20: 94-95, 22: 147-149.
No: 36: 511, 60: 372, 63: 256, 65: 295.
-

Eriothymus J. A. Schmidt

- Sy:** 14: 132, 67: 9.
-

Gardoquia Ruiz & Pav.

- *Satureja*
-

Glechoma L.

- Fl:** 68: 32-34.
-

Glechon Spreng.

- Sy:** 14: 142-145, 67: 7-8.
Fl: 22: 125-128.
No: 58: 145, 60: 370, 63: 256, 66: 302.
-

Harlanlewisia Epling

- nG:** 55: 436.
nC: 65: 296.
-

Hedeoma Pers.

- *Cunila*, → *Eriothymus*, → *Glechon*, → *Hesperozygis*, → *Hoehnea*,
 → *Keithia*, → *Poliomintha*, → *Rhabdocalon*, → *Rhododon*, → *Stachydeoma*
nT, No: 48: 513-514.
nC: 60: 369.
Sy: 14: 137-138, 67: 18-46.
Fl: 20: 48-49, 21: 46-47, 22: 121-122, 34: 424-426, 45: 781-783, 53: 201, 54:
 744-745.
No: 5: 9 (on the type of *Melissa pulegioides*), 36: 513, 40: 432, 43: 553, 46: 488,
 58: 144, 66: 303-304.

Hesperozygis Epling

- nG:** 14: 132-134.
nT, No: 36: 512, 52: 138-139, 60: 369, 66: 302-303.
Sy: 67: 12-14.
No: 58: 144-145, 63: 256.
-

Hoehnea Epling

- Sy:** 67: 8-9.
No: 58: 144, 60: 369-370, 63: 256.
-

Hypenia (Benth.) Harley

→ *Hyptis*

Hyptidendron Harley

→ *Hyptis*

Hyptis Jacq.

(incl. *Hypenia*, *Hyptidendron*)

→ *Asterohyptis*, → *Marsypianthes*, → *Raphiodon*

- nT, No:** 16: 278-280, 29: 15-16, 36: 509-510, 43: 554-556, 46: 495-496, 48: 517-518, 57: 1-4, 64: 228-230, 65: 296-301, 66: 297-301.
nC, No: 7: 465.
Sy: 9: 73-130, 15: 197-288, 17: 289-320.
Re: 51: 153-497.
Fl: 18: 104-137, 20: 96-120, 21: 75-89, 22: 149-172, 24: 189-196, 34: 443-446, 38: 238-244, 45: 785, 47: 283-284, 54: 748, 80: 84-96.
No: 5: 8-9 (on the types of *Ballota suaveolens*, *Clinopodium rugosum*), 40: 432-433, 52: 140-142, 56: 1083-1084, 58: 140-141, 60: 371, 63: 256-257.
-

Hyssopus L.

→ *Lophanthus*

Isanthus Michx.

- Fl:** 45: 770.
-

Johowia Epling & Looser

- nN, nC:** 19: 168-170.
-

Keithia Benth.

→ *Hoehnea*

- Sy:** 14: 130-132.
Fl: 22: 118-119.
-

Kurzamra Kuntze

- Sy:** 14: 145-146.
Fl: 19: 189-190, 22: 128, 34: 426-427.

Lamium L.

Sy: 2: 125-126.
 Fl: 54: 738-739.
 No: 13: 15, 18: 18, 19: 181, 21: 2, 34: 446.

Lavandula L.

Fl: 68: 26-29.

Leonotis R. Br.

Sy: 2: 128-129.
 Fl: 38: 231, 68: 42-44.
 No: 13: 14, 18: 18, 22: 96, 24: 187, 34: 446.

Leonurus L.

Sy: 2: 126-127.
 Fl: 38: 231, 45: 775, 54: 739, 68: 47-50.
 No: 13: 14, 18: 18, 22: 96, 24: 187, 34: 446.

Lepechinia Willd.

→ *Sphacele*

nT, No: 36: 511, 46: 486-487, 58: 146, 66: 305.
 Sy: 13: 15-27, 50: 352-364.
 Re: 65: 302-307 (sect. *Parviflorae*).
 Fl: 6: 275-276 (key only), 18: 18-24, 19: 181-185, 20: 25-32, 21: 6-14, 22: 97-100, 34: 403-408, 80: 106-108.
 No: 40: 433, 52: 138, 56: 1084-1085, 60: 372, 63: 257-258, 65: 301-302.

Leucas R. Br.

Fl: 68: 45-46.
 No: 13: 14.

Lophanthus Benth.

No: 5: 8 (on the type of *Hyssopus nepetoides*).

Lycopus L.

Fl: 45: 784, 54: 747.
 No: 5: 3.

Majorana Rupp.

No: 14: 168, 18: 71.

Marrubium L.

Sy: 2: 122-123.
 Fl: 45: 772-773, 54: 735-736, 68: 30-31.
 No: 13: 14, 18: 8, 19: 172, 21: 2, 22: 93, 34: 446, 53: 199.

Marsypianthes Benth.

Sy: 14: 184-186, 58: 142-143.
 Fl: 18: 101-103, 20: 93-94, 21: 73-74, 22: 145-147, 24: 187-188, 38: 237-238, 80: 97.
 No: 7: 465, 63: 258, 65: 307, 66: 301.

Mentha L.

- Sy:** 14: 168.
Fl: 19: 192 (key only), 21: 64, 22: 134-135 (key and notes only), 45: 785, 53: 200, 54: 747-748.
No: 5: 8, 20: 86, 34: 446, 40: 433.
-

Mesosphaerum P. Br.

→ *Hyptis*

Micromeria Benth.

→ *Satureja*

Minthostachys (Benth.) Spach

- Sy:** 14: 162-168, 60: 370-371.
Fl: 6: 275 (key only), 18: 82-86, 20: 49-53, 21: 58-64, 22: 133-134, 34: 433-435.
No: 43: 553, 46: 486, 56: 1084, 58: 144.
-

Moldavica L.

- Fl:** 45: 774-775, 54: 737-738.
-

Molucella L.

- Fl:** 45: 775-776, 54: 733.
No: 34: 446, 65: 307.
-

Monarda L.

- Re:** 12: 20-31 (subgen. *Cheilyctis*), 77: 147-194.
Fl: 45: 780-781, 54: 743-744.
No: 5: 3-5, 46: 488, 48: 512, 52: 138.
-

Monardella Benth.

- nT:** 33: 489-490.
Re: 1: 1-106.
Fl: 45: 784, 53: 200-201, 54: 746-747.
No: 52: 139, 66: 303.
-

Nepeta L.

- Fl:** 45: 774, 54: 737.
-

Ocimum L.

- Sy:** 14: 180-184.
Fl: 18: 99-101, 20: 92-93, 21: 71-73, 22: 139-145, 24: 188-189, 34: 440-442, 38: 236, 80: 102-105.
No: 5: 10, 40: 433, 58: 141-142.
-

Oreosphacus Leyboldt

→ *Satureja*

Origanum L.

- No:** 14: 168, 19: 192, 21: 64.

Peltodon Pohl

Sy: 15: 195-196.
Fl: 22: 172a-173.
No: 46: 488, 58: 141, 60: 372, 65: 307.

Periloma Kunth

→ ***Scutellaria***

Physostegia Benth.

Fl: 68: 40-41.
No: 5: 10 (on the type of *Dracocephalum virginianum*).

Poliomintha A. Gray

nT: 69: 85-86.
Sy: 67: 15-18.
Fl: 45: 783, 47: 283, 54: 746.
No: 48: 513.

Prunella L.

Sy: 2: 123-125.
Fl: 45: 775, 54: 738, 68: 37-39.
No: 13: 15, 18: 18, 19: 181, 34: 446, 40: 433, 52: 130, 56: 1085.

Pycnanthemum Michx.

Re: 71: 195-240.
No: 5: 7-9 (on the types of *Satureja virginiana*, *Nepeta virginica*, *Clinopodium incanum*), 66: 303.

Raphiodon Benth.

Sy: 14: 186-188.

Rhabdocaulon Epling

nG: 14: 134-137.
Sy: 67: 9-11.
Fl: 22: 119-121.
No: 52: 139, 58: 144, 63: 258, 65: 307, 66: 304.

Rhododon Epling

nG: 67: 14-15.
No: 52: 138.

Rizoa Cav.

→ ***Satureja***

Rosmarinus L.

Sy: 2: 120-122.
Fl: 68: 16-18.
No: 13: 4, 18: 8, 19: 172, 21: 2.

Salazaria Torr.

Fl: 45: 771, 47: 273, 53: 199, 54: 734.

Salvia L.

nT, No: 11: 52-53, 36: 513-534, 37: 259-262, 39: 337-338, 43: 556-568, 46: 488-494, 48: 514-517, 52: 131-138, 58: 147-150, 59: 75-76, 60: 372-376, 63: 258-262, 65: 307-309, 66: 305-312.

Sy: 13: 27-96 (subgen. *Calosphace*), 14: 97-130 (subgen. *Calosphace*).

Re: 23: 95-188 (sect. *Audibertia*), 26: 1-380 (subgen. *Calosphace*), 66: 308-309 (sect. *Rudes*).

Fl: 6: 276-277 (only key and localities), 18: 24-71, 19: 185-188, 20: 32-48, 21: 14-46, 22: 100-117, 34: 409-424, 38: 232-236, 45: 777-780, 47: 273-283, 53: 201-202, 54: 740-743, 68: 61-107, 80: 72-81.

No: 5: 5-6, 10, 30: 34-37 (subgen. *Calosphace*), 35: 272-273, 40: 433-434, 49: 69-78, 56: 1085, 70: 217-221.

Satureja L.

(incl. *Calamintha* p.p., *Ceratominthe*, *Clinopodium* p.p., *Gardoquia*, *Micromeria* p.p., *Oreosphaucus*, *Rizoa*, and *Xenopoma*)

nT, No: 43: 553-554, 52: 139, 58: 145-146, 63: 262-263, 65: 309-311, 66: 304-305, 74: 748-749, 79: 261-267.

Sy: 4: 47-86, 14: 146-162, 61: 393-416, 62: 244-248.

Fl: 6: 275 (key only), 18: 71-82, 19: 190-192, 20: 86-90, 21: 47-58, 22: 129-133, 34: 427-433, 38: 231-232.

No: 5: 7, 36: 512, 40: 434, 46: 488 (including a synonymization), 48: 513.

Scutellaria L.

(incl. *Periloma* and *Theresa*)

nT, No: 31: 49-72, 33: 488-489, 52: 129-130, 63: 263-264, 65: 311-312.

Sy: 14: 169-180, 27: 229-275 (keys for some sections only), 28: 17-24.

Re: 72: 703-748, 44: 1-146.

Fl: 18: 86-99, 19: 193-194, 20: 90-92, 21: 64-71, 22: 135-139, 34: 435-440, 38: 229-231, 45: 771-772, 54: 734-735, 68: 19-25, 80: 97-102.

No: 5: 11-12, 43: 553, 46: 487-488, 48: 513, 56: 1085, 60: 367-369, 66: 301-302.

Skottsbergiella Epling

→ *Johowia*

nG: 13: 1.

Solenostemon Thonn.

→ *Coleus*

Sphacele Benth.

→ *Lepechinia*

Sy: 3: 35-66.

Stachydeoma Small

Sy: 67: 11-12.

Stachys L.

- nT, No:** 46: 484-485.
Sy: 13: 4-14.
Re: 10: 1-75.
Fl: 18: 8-17, 19: 172-181, 20: 22-24, 21: 2-6, 22: 94-96, 34: 399-402, 45: 776-777, 54: 739-740, 68: 51-60, 80: 108-111.
No: 25: 270-272, 36: 511, 40: 434, 43: 552-553, 48: 513, 52: 131, 56: 1084, 58: 140, 60: 367, 63: 264-265, 65: 312, 66: 297.
-

Tetraclea A. Gray

- Fl:** 45: 770.
-

Teucrium L.

- Sy:** 2: 111-120, 13: 1-3.
Re: 78: 491-510.
Fl: 18: 6-8, 19: 170-171, 22: 91-93, 34: 394-399, 38: 228-229, 45: 769-770, 54: 733, 68: 14-15, 80: 105-106.
No: 5: 6, 32: 135, 40: 434, 43: 552, 48: 512, 52: 129, 58: 140, 60: 367, 65: 313.
-

Theresa Clos

- *Scutellaria*
-

Trichostema L.

- *Isanthus*
nT: 36: 509.
Re: 73: 276-303.
Fl: 45: 771, 54: 734.
No: 5: 10-11, 48: 512, 52: 129, 65: 313.
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Xenopoma Willd.

- *Satureja*
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