

## References USP Course

Main course texts:

Wilkins, J.S. 2009a. *Species: a history of the idea*. Berkeley: University of California Press. 320p.

Wilkins, J.S. 2009b. *Defining species: a sourcebook from antiquity to today*. New York: Peter Lang. 224p.

Wilkins, J.S. 2010. What is a species? Essences and generation. *Theory in Biosciences* 129(2-3): 141-148.

Agnarsson, I. and Kuntner, M. (2007) Taxonomy in a changing world: seeking solutions for a science in crisis. *Systematic Biology* 56, 531–539

Amundson, R. 1998. Typology reconsidered: two doctrines on the history of evolutionary biology. *Biology and Philosophy* 13(2): 153-177.

Assis, L.C.S. 2009a. Sistemática e filosofia: filogenia do complexo *Ocotea* e revisão do grupo *Ocotea indecora* (Lauraceae). Ph.D. thesis, Instituto de Biociências, Universidade de São Paulo.

Assis, L.C.S., 2009b. Coherence, correspondence, and the renaissance of morphology in phylogenetic systematics. *Cladistics* 25, 528–544.

Assis, L.C.S., Brigandt, I., 2009. Homology: homeostatic property cluster kinds in systematics and evolution. *Evol. Biol.* 36, 248–255.

Baron, W. 1931. Die idealistische Morphologie Al. Brauns und A.P. de Candolles und ihr Verhältnis zur Deszendenzlehre. Beihefte zum Botanischen Centralblatt 48: 314-334.

Baum, D.A. & Donoghue, M.J. 1995. Choosing among alternative “phylogenetic” species concepts. *Systematic Botany* 20(4): 560-573.

Beatty, J. 1982. Classes and cladists. *Systematic Zoology* 31(1): 25-34.

Beaudry, J.R. 1960. The species concept: its evolution and present history. *Rev. Canad. Biol.* 19: 219-240.

Beckner, M. 1959. *The biological way of thought*. New York: Columbia University Press. 200p.

Bentham, G. 1861. On the species and genera of plants, considered with reference to their practical application to systematic botany. *The Natural History Review* (1861): 133-151.

Bentham, G. 1875. On the recent progress and present state of systematic botany. Pp. 27-54 in Report of the forty-fourth meeting of the British Association for the Advancement of Science; held at Belfast in August 1874. London: John Murray.

Berendsohn, W. 1995. The concept of “potential taxa” in databases. *Taxon* 44: 207-212.

- Berendsohn, W. 1997. A taxonomic information model for botanical databases: the IOPI model. *Taxon* 46(2): 283-309.
- Berendsohn, W. sem data. MoReTax: handling factual information linked to taxonomic concepts in biology. Department of Biodiversity Informatics and Laboratories, Botanic Garden and Botanical Museum Berlin-Dahlem, Freie Universität Berlin. 115p.
- Bird, A. & Tobin, E. 2008. Natural Kinds. *Stanford Encyclopedia of Philosophy*.  
<http://plato.stanford.edu/entries/natural-kinds/>
- Blackwelder, R.E. 1967. *Taxonomy: a text and reference book*. New York: J. Wiley & Sons. 698p.
- Botting, D. 1973. *Humboldt and the cosmos*. London: Michael Joseph. 295p.
- Boyd, R. 1999. Homeostasis, species, and higher taxa. Pp.141-185 in Wilson, R.A., *Species: New interdisciplinary essays*. Cambridge, Massachusetts: The MIT Press.
- Brigandt, I., 2009. Natural kinds in evolution and systematics: metaphysical and epistemological considerations. *Acta Biotheor.* 57, 77–97.
- Briggs, D. & Walters, S.M. 1997. *Plant variation and evolution*. Ed. 3. Cambridge: Cambridge University Press. 512p.
- Cain, A.J. 1956. The genus in evolutionary taxonomy. *Systematic Zoology* 5(3): 97-109.
- Cain, A.J. 1958. Logic and memory in Linnaeus's system of taxonomy. *Proceedings of the Linnean Society of London* 169: 144-163.
- Cain, A.J. 1959a. Deductive and inductive methods in post-Linnaean taxonomy. *Proceedings of the Linnean Society of London* 170: 185-217.
- Cain, A.J. 1959b. The post-Linnaean development of taxonomy. *Proceedings of the Linnean Society of London* 170: 233-244.
- Cain, A.J. 1959c. Function and taxonomic importance. *Systematics Association Publ. No.3*: 5-19. London.
- Cain, A.J. 1959d. Taxonomic concepts. *Ibis* 101: 302-318.
- Cain, A.J. 1962. The evolution of taxonomic principles. Pp. 1-13 in Ainsworth, G.C. & Sneath, P.H.A., *Microbial Classification*. Cambridge: Cambridge University Press.
- Cain, A.J. 1992. The *Methodus* of Linnaeus. *Archives of Natural History* 19(2): 231-250.
- Cain, A.J. 1994. *Numerus, figura, proportio, situs*; Linnaeus's definitory attributes. *Archives of Natural History* 21(1): 17-36.
- Cain, A.J. 1995. Linnaeus's natural and artificial arrangements of plants. *Botanical Journal of the Linnean Society* 117: 73-133.
- Cain, A.J. 1997. John Locke on species. *Archives of Natural History* 24(3): 337-360.
- Cain, A.J. 1999. Thomas Sydenham, John Ray, and some contemporaries on species. *Archives of Natural History* 26(1): 55-83.
- Cain, A.J. 1999. John Ray on the species. *Archives of Natural History* 26(2): 223-238.
- Cain, A.J. & Harrison, G.A. 1958. An analysis of the taxonomist's judgement of affinity. *Proceedings of the Zoological Society of London* 131: 85-98.

- Cain, A.J. & Harrison, G.A. 1960. Phyletic weighting. *Proceedings of the Zoological Society of London* 135: 1-31.
- Camp, W.H. 1951. Biosystematy. *Brittonia* 7: 113-127.
- Camp, W.H. & Gilly, C.L. 1943. The structure and origin of species. *Brittonia* 4: 323-385.
- Candolle, A.-P. 1819. *Théorie élémentaire de la botanique*. Ed. 2. Paris: Deterville. 566p.
- Candolle, A.-P. 1841. *Vegetable Organography*. 2 vols. London: Houlston & Stoneman.
- Carvalho, M.R. et al. (2007) Taxonomic impediment or impediment to taxonomy?. A commentary on systematics and the cybertaxonomic automation paradigm. *Evol. Biol.* 34, 140–143.
- Classen-Bockhoff, R. 2001. Plant morphology: the historic concepts of Wilhelm Troll, Walter Zimmermann and Agnes Arber. *Annals of Botany* 88: 1153-1172.
- Claßen-Bockhoff, R. 2001: Vom Umgang mit der Vielfalt - eine kurze Geschichte der Pflanzenmorphologie. *Wulfenia* 8: 125-144.
- Clausen, J. 1951. *Stages in the evolution of plant species*. Cornell University Press.
- Clausen, J., Keck, D.D. & Hiesey, W.M. 1939. The concept of the species based on experiment. *American Journal of Botany* 26: 103.
- Cohen, S.M. 2012. Aristotle's *Metaphysics*. *The Stanford Encyclopedia of Philosophy*. <http://plato.stanford.edu/archives/sum2012/entries/aristotle-metaphysics/>
- Coleman, C.O. et al. (2010) DELTA for Beginners: an introduction into the taxonomy software package DELTA. *ZooKeys* 45, 1–75
- Corner, E.J.H. 1962. The classification of Moraceae. *Gardens' Bulletin Singapore* 19: 187-252.
- Cowan, S.T. 1962. The microbial species – a macromyth? In: Ainsworth, G.C. & Sneath, P.H.A., *Microbial classification*. Cambridge: Cambridge University Press. Pp. 433-455.
- Cunningham, A. & Jardine, J. 1990. *Romanticism and the sciences*. Cambridge: Cambridge University Press. 345p.
- Darwin, C. 1859. *On the origin of species by means of natural selection*. Penguin Edition edited by J.W. Burrow (1968). Harmondsworth: Penguin Books. 477p.
- Davis, J.I. 1995. Species concepts and phylogenetic analysis. *Systematic Botany* 20(4): 555-559.
- Davis, J.I. & Nixon, K.C. 1992. Populations, genetic variation, and the delimitation of phylogenetic species. *Systematic Biology* 41: 421-435.
- Davis, M.T. 1957. A guide and analysis of Engler's "Das Pflanzenreich". *Taxon* 6: 161-182.
- Davis, P.H. & Heywood, V.H. 1963. *Principles of Angiosperm Taxonomy*. Edinburgh: Oliver & Boyd. 556p.
- Deans, A.R., Yoder, M.J. & Balhoff, J.P. 2012. Time to change how we describe biodiversity. *Trends in Ecology and Evolution* 27(2): 78-84.
- Diels, L. 1921. *Die Methoden der Phytographie und der Systematik der Pflanzen*. Berlin und Wien:Urban & Schwarzenberg. 190p.
- Diels, L. 1932. *Sitz.Ber.Preuss.Akad.Wiss. Berlin B* 11: 77-85.

- Dobzhansky, T. 1950. Mendelian populations and their evolution. *American Naturalist* 84: 401-418.
- Dobzhansky, T. 1951. *Genetics and the origin of species*. 3<sup>rd</sup>. Ed. New York: Columbia University Press.
- Doyle, J.J. 1995. The irrelevance of allele tree topologies for species delimitation, and a non-topological alternative. *Systematic Botany* 20(4): 574-588.
- Du Reitz, G.E. 1930. The fundamental units of biological taxonomy. *Svensk bot. Tidskr.* 24: 333.
- Endersby, J. 2008. *Imperial nature: Joseph Hooker and the practices of Victorian science*. Chicago: University of Chicago Press.
- Endersby, J. 2009. Lumpers and splitters: Darwin, Hooker, and the search for order. *Science* 326: 1496-1499.
- Endlicher, S. & Unger, F. 1843. *Grundzüge der Botanik*. Wien: Carl Gerold. 494p.
- Engler, A. & Gilg, E. 1919. *Syllabus der Pflanzenfamilien*. Berlin: Gebrüder Borntraeger. 395p.
- Ezard, T.H.G. 2010. Algorithmic approaches to aid species' delimitation in multidimensional morphospace. *BMC Evolutionary Biology*. 10(175), 11p.
- Ghiselin, M.T. 1974. A radical solution to the species problem. *Systematic Zoology* 23(4): 536-544.
- Gilmour, J.S.L. 1940. Taxonomy and Philosophy. Pp. 461-474 in Huxley, J., *The New Systematics*. London: Systematics Association.
- Gilmour, J.S.L. & Heslop-Harrison, J. 1954. The deme terminology and the units of micro-evolutionary change. *Genetica* 27: 147-161.
- Gilmour, J.S.L. & Walters, S.M. 1964. Philosophy and Classification. Pp. 1-22 in Turrill, W.B., *Vistas in Botany Vol. IV. Recent researches in plant taxonomy*. Oxford: Pergamon Press.
- Gould, S.J. 1977. *Ontogeny and Phylogeny*. Cambridge, Massachusetts: The Belknap Press. 501p.
- Grant, V. 1981. *Plant speciation*. New York: Columbia University Press. 563p.
- Green, J.R. 1909. *A history of botany 1860-1900*. Oxford: The Clarendon Press.
- Haber, M.H., 2005. On probability and systematics: possibility, probability, and the phylogenetic inference. *Syst. Biol.* 54, 831–841.
- Haeckel, E. 1876. *The history of creation*. Transl. E.R. Lankester. 2 vols. London: H.S. King.
- Harper, R.A. 1923. The species concept from the point of view of a morphologist. *American Journal of Botany* 10: 229-233.
- Henderson, A.J. 2002. Phenetic and phylogenetic analysis of *Reinhardtia* (Palmae). *American Journal of Botany* 89(9): 1491-1502.
- Henderson, A. J. 2004. A multivariate analysis of *Hyospathe* (Palmae). *American Journal of Botany* 91: 953–965.
- Henderson, A. J. 2005a. A multivariate study of *Calyptrogyne* (Palmae). *Systematic Botany* 30: 60–83.
- Henderson, A. J. 2005b. The methods of herbarium taxonomy. *Systematic Botany* 30: 456–459.

- Henderson, A.J. 2006a. Traditional morphometrics in plant systematics and its role in palm systematics. *Botanical Journal of the Linnean Society* 151: 103-111.
- Henderson, A.J. 2006b. Reply to Jensen. *Systematic Botany* 31(2): 435-436.
- Hennig, W. 1966. *Phylogenetic systematics*. Urbana: University of Illinois Press. 263p.
- Heslop-Harrison, J. 1952. Statistical methods in plant taxonomy. *Taxon* 1: 53-59, 73-78.
- Heslop-Harrison, J. 1953 (1969 reprint). *New concepts in flowering-plant taxonomy*. London: Heinemann. 134p.
- Heslop-Harrison, J. 1955. The conflict of categories. In *Species studies in the British Flora*, p. 161. Arbroath: Buncle.
- Heslop-Harrison, J. 1962. Purposes and procedures in the taxonomic treatment of higher organisms. In: Ainsworth, G.C. & Sneath, P.H.A., *Microbial classification*. Cambridge: Cambridge University Press. Pp. 14-36.
- Heywood, V.H. 1958. *The presentation of taxonomic information: a short guide for contributors to Flora Europaea*. Leicester University Press.
- Heywood, V.H. 1959. The taxonomic treatment of ecotypic variation. In Cain, A.J. (ed.), *Function and taxonomic importance*. Systematics Association Publ. No.3: 87-112. London.
- Heywood, V.H. & McNeill, J. 1964. *Phenetic and phylogenetic classification*. London: The Systematics Association. 164p.
- Hooker, J.D. 1853. *Introductory essay to the Flora of New Zealand* i-xxxix.
- Hooker, J.D. 1855. *Introductory essay in Hooker, J.D. & Thomson, T., Flora Indica* 1-44.
- Hopwood, A.T. 1959. The development of pre-Linnaean taxonomy. *Proceedings of the Linnean Society of London* 170: 230-234.
- Hull, D.L. 1965a. The effect of essentialism on taxonomy – two thousand years of stasis (I). *The British Journal for the Philosophy of Science* 15: 314-326.
- Hull, D.L. 1965b. The effect of essentialism on taxonomy – two thousand years of stasis (II). *The British Journal for the Philosophy of Science* 16: 1-18.
- Hull, D.L. 1976. Are species really individuals? *Systematic Zoology* 25(2): 174-191.
- Hull, D.L. 1988. *Science as a process: an evolutionary account of the social and conceptual development of science*. Chicago: The University of Chicago Press. 586p.
- Huxley, J. 1940. *The new systematics*. Oxford University Press. 583p.
- Jeffrey, C. 1982. *An introduction to plant taxonomy*. 2<sup>nd</sup> Edition. Cambridge: Cambridge University Press.
- Jensen, R. J. 2006. On delimiting species for taxonomic analysis. *Systematic Botany* 31: 432–435.
- Johnson, L.A.S. 1968. Rainbow's end: the quest for an optimal taxonomy. *Proceedings of the Linnean Society of New South Wales* 93(1): 8-45.
- Joly, S. & Bruneau, A. 2007. Delimiting species boundaries in *Rosa* Sect. *Cinnamomeae* (Rosaceae) in Eastern North America. *Systematic Botany* 32(4): 819-836.
- Joseph, H.W.B. 1916. *An introduction to logic*. Ed. 2. Oxford University Press.

- Junker, T. 1989. Darwinismus und Botanik: Rezeption, Kritik und theoretische Alternativen im Deutschland des 19. Jahrhunderts. Quellen und Studien zur Geschichte der Pharmazie, Band 54. Stuttgart: Deutscher Apotheker Verlag.
- Junker, T. 2007. Ernst Mayr (1904-2005) and the new philosophy of biology. *Journal for General Philosophy of Science* 38: 1-17.
- Junker, T. 2009. Charles Darwin, Carl Nägeli und das Rätsel der „neutralen Merkmale“. In Jürg Stöcklin und Ekkehard Höxtermann (Eds.). *Darwin und die Botanik. Beiträge eines Symposiums der Schweizerischen Botanischen Gesellschaft und der Basler Botanischen Gesellschaft zum Darwin-Jahr 2009*. Rangsdorf: Basilisken-Press, 2009, Pp. 192-211.
- Junker, T. & Hossfeld, U. 2002. The architects of the Evolutionary Synthesis in national socialist Germany: science and politics. *Biology and Philosophy* 17: 223-249.
- Kaplan, D.R. 2001. The science of plant morphology: definition, history, and role in modern biology. *American Journal of Botany* 88(10): 1711-1741.
- Kennedy, J., Kukla, R. & Paterson T. (2005). Scientific names are ambiguous as identifiers for biological taxa: their context and definition are required for accurate data integration. In *Data Integration in the Life Sciences* (Ludäscher, B. and Raschid, L., eds.), pp. 80–95, Springer-Verlag.
- Kerner von Marilaun, A. 1902. *The Natural History of Plants*. Vols. I and II, *The History of Plants*. Transl. Oliver, F.W. London: Blackie & Son.
- Knowles, L.L. & Carstens, B.C. 2007. Delimiting species without monophyletic gene trees. *Systematic Biology* 56(6): 887-895.
- Lacroix, C, Jeune, B. & Barabé, D. 2005. Encasement in plant morphology: an integrative approach from genes to organisms. *Canadian Journal of Botany* 83(10): 1207-1221.
- Laporte, J. 2004. *Natural kinds and conceptual change*. Cambridge University Press. 221p.
- Lemmon, E.J. 1965. *Beginning Logic*. London: Nelson. 225p.
- Linnaeus, C. (Freer, S.) 2005. *Linnaeus' Philosophia Botanica*. Oxford: Oxford University Press. 432p.
- Locke, J. 1706. *An essay concerning human understanding*. Ed. 5. Penguin Classics edited by Roger Woolhouse (2004). London: Penguin Books. 785p.
- Lotsy, J.P. 1916. Evolution by means of hybridization. The Hague: Martinus Nijhoff.
- Lotsy, J.P. 1931. On the species of the taxonomist in its relation to evolution. *Genetica* 13: 1-16.
- Luckow, M. 1995. Species concepts: assumptions, methods, and applications. *Systematic Botany* 20(4): 589-605.
- Mabberley, D. 1985. *Jupiter botanicus: Robert Brown of the British Museum*. London: British Museum (Natural History)
- Mabee, P.M. et al. (2007) Phenotype ontologies: the bridge between genomics and evolution. *Trends in Ecology and Evolution* 22, 345–350

- MacLeod, N. et al. (2010) Time to automate identification. *Nature* 467, 154–155
- Mägdefrau, K. 1973. *Geschichte der Botanik*. Stuttgart: Gustav Fischer Verlag.
- Mallet, J. 1995. A species definition for the modern synthesis. *Trends in Ecology and Evolution* 10: 294-299.
- Maritain, J. 1946a. *An introduction to philosophy*. Tr. E.I. Watkin. London.
- Maritain, J. 1946b. *An introduction to logic*. Tr. I.C. London.
- Mason, H.L. 1950. Taxonomy, systematic botany and biosystematics. *Madroño* 10: 193-208.
- Mayden, R. L. 1997. A hierarchy of species concepts: the denouement in the saga of the species problem. Pp. 381–424 in *Species: the units of biodiversity*, eds. M. F. Claridge, H. A. Dawah, and M. R. Wilson. London: Chapman and Hall.
- Mayr, E. 1982. *The growth of biological thought: diversity, evolution, and inheritance*. Cambridge, Massachusetts: The Belknap Press, Harvard University Press. 974p.
- McDade, L.A. 1995. Species concepts and problems in practice: insight from botanical monographs. *Systematic Botany* 20(4): 606-622.
- McDade, L.A., Maddison, D.R., Guralnick, R., Piwowar, H.A., Jameson, M.L., Helgen, K.M., Herendeen, P.S., Hill, A. & Vis, M.L. 2011. Biology needs as modern assessment system for professional productivity. *Bioscience* 61(8): 619-625.
- McDonald, S.M., Raguenaud, C., Pullan, M.R., Kennedy, J.B., Russell, G. & Watson, M.F. 2002. The Prometheus II Description Model: an objective approach to representing taxonomic descriptions. 8p.
- McOuat, G.R. 1996. Species, rules and meaning: the politics of language and the ends of definitions in 19th century natural history. *Studies in History and Philosophy of Science Part A* 27: 473-519.
- McOuat, G.R. 2001. Cataloguing power: delineating “competent naturalists” and the meaning of species in the British Museum. *British Journal for the History of Science* 34: 1-28.
- McOuat, G.R. 2003. The logical systematist: George Bentham and his *Outline of a New System of Logic*. *Archives of Natural History* 30(2): 203-223.
- Mendel, G. 1866. Versuche über Pflanzen-Hybriden. *Verhandlungen des Naturforschenden Vereins zu Brünn* 4: 3-47.
- Michener, C.D. & Sokal, R.R. 1957. A quantitative approach to a problem in classification. *Evolution* 11: 130-162.
- Mindell, D.P. et al. (2011) Aggregating, tagging and integrating biodiversity research. *PLoS ONE* 6, e19491
- Nägeli, C. 1865. *Entstehung und Begriff der naturhistorischen Art*. München: Verlage der königlichen Akademie. 53p.
- Nägeli, C. 1884. *Mechanisch-physiologische Theorie der Abstammungslehre*. München und Leipzig: R. Oldenbourg.

- Nicolson, M. 1990. Alexander von Humboldt and the geography of vegetation. In: Cunningham, A. & Jardine, J. 1990. Romanticism and the sciences. Cambridge: Cambridge University Press. Pp.169-185.
- Niklas, K.J. 1997. The evolutionary biology of plants. Chicago: Chicago University Press. 449p.
- Nixon, K.C. & Wheeler, Q.D. 1990. An amplification of the phylogenetic species concept. *Cladistics* 6: 211-223.
- O’Leary, M.A. and Kaufman, S. (2011) MorphoBank: phylophenomics in the ‘cloud’. *Cladistics* 27, 1–9
- Olmstead, R.G. 1995. Species concepts and plesiomorphic species. *Systematic Botany* 20(4): 623-630.
- Olson, E.C. & Miller, R.L. 1958. Morphological integration. Chicago: University of Chicago Press.
- Paterson, T. 2004. Some general comments on SDD Schema v.0.9. 10p.
- Paterson, T. & Kennedy, J.B. 2004. Approaches to storing and querying structural information in botanical specimen descriptions. 12p.
- Paterson, T., Kennedy, J.B., Pullan, M.R., Cannon, A., Armstrong, K., Watson, M.F., Raguenaud, C., McDonald, S.M. & Russell, G. 2004. A universal character model and ontology of defined terms for taxonomic description. 16p.
- Paterson, T., Cannon, A., Raguenaud, C., Russell, G., Armstrong, K., McDonald, S.M., Pullan, M.R., Watson, M.F. & Kennedy, J.B. 2004. A methodology for composing well-defined character descriptions. 18p.
- Patterson, D.J. et al. (2010) Names are key to the big new biology. *Trends Ecol. Evol.* 25, 686–691
- Platnick, N.I. 1982. Defining characters and evolutionary groups. *Systematic Zoology* 34: 282-284.
- Pullan, M.R., Watson, M.F., Kennedy, J.B., Raguenaud, C. & Hyam, R. 2000. The Prometheus Taxonomic Model: a practical approach to representing multiple classifications. *Taxon* 49(1): 55-75.
- Pullan, M.R., Armstrong, K., Paterson, T., Cannon, A., Kennedy, J.B., Watson, M.F., McDonald, S. & Raguenaud, C. 2005. The Prometheus Description Model: an examinations of the taxonomic description-building process and its representation. *Taxon* 54(3): 751-765.
- Queiroz, K. de 2005. Ernst Mayr and the modern concept of species. *Proceedings of the National Academy of Sciences* 102(suppl. 1): 6600-6607.
- Queiroz, K. de 2007a. Species concepts and species delimitation. *Systematic Biology*. 56: 879-886.
- Queiroz, K. de 2007b. Towards an integrated system of clade names. *Systematic Biology* 56(6): 956-974.



- Queiroz, K. de & Donoghue, M.J. 1988. Phylogenetic systematics and the species problem. *Cladistics* 4: 317-338.
- Queiroz, K. de & Donoghue, M.J. 1990. Phylogenetic systematics and species revisited. *Cladistics* 6: 83-90.
- Queiroz, K. de & Donoghue, M.J. 1990. Phylogenetic systematics or Nelson's version of cladistics? *Cladistics* 6: 61-76.
- Queiroz, K. de & Good, D.A. 1997. Phenetic clustering in biology: a critique. *The Quarterly Review of Biology* 72: 3-30.
- Quine, W.O. 1969. Set theory and its logic. Revised Edition. Cambridge, Massachusetts: The Belknap Press. 361p.
- Raguenaud, C. 2001. Report: Plant descriptions. 15p.
- Ramsbottom, J. 1938. Linnaeus and the species concept. *Proc. Linn. Soc. London* 150(1937-38): 192 – 219.
- Rehbock, P.F. 1990. Transcendental anatomy. In Cunningham, A. & Jardine, J. Romanticism and the sciences. Cambridge: Cambridge University Press. Pp. 144-160.
- Rensch, B. 1939. Typen der Artbildung. *Biological Reviews* 14: 180-222.**
- Richards, R.A. 2010. The species problem: a philosophical analysis. Cambridge University Press. 248p.
- Rieppel, O. 1994. Species and history. In: Scotland, R.W., Siebert, D.J. & Williams, D.M., Models in phylogeny reconstruction. Oxford: Clarendon Press. Pp. 31-50.
- Rieppel, O. 2010. Reydon on species, individuals and kinds: a reply. *Cladistics* 26: 341-343.
- Rieppel, O. 2011a. The Gegenbauer Transformation: a paradigm change in comparative biology. *Systematics and Biodiversity* 9(3): 177-190.
- Rieppel, O. 2011b. Species are individuals – the German tradition. *Cladistics* 27: 1-17.
- Rieppel, O. 2011c. Wilhelm Troll (1897-1978): idealistic morphology, physics, and phylogenetics. *Hist.Philos. Life Sci.* 33(3): 321-42.
- Rieppel, O. 2012. Adolf Naef (1883-1949), systematic morphology and phylogenetics. *Journal of Zoological Systematics and Evolutionary Research* 50(1): 2-13.
- Rieseberg, L.H., Wood, T.E. & Baack, E.J. 2006. The nature of plant species. *Nature* 440: 524-527.
- Rothmaler, W. 1944. Systematische Einheiten in der Botanik. *Feddes Repertorium* 54: 1-22.
- Rothmaler, W. 1955. Allgemeine Taxonomie und Chorologie der Pflanzen. Ed. 2, Jena.
- Sachs, J. 1890. History of botany (1530-1860). Oxford: The Clarendon Press.
- Simpson, G.G. 1951. The species concept. *Evolution* 5: 285-298.
- Simpson, G.G. 1961. Principles of Animal Taxonomy. New York: Columbia University Press. 247p.

- Smith, R. 2011. Aristotle's Logic. The Stanford Encyclopedia of Philosophy. <http://plato.stanford.edu/entries/aristotle-logic/>
- Sneath, P.H.A. 1957. The application of computers to taxonomy. *Journal of General Microbiology* 17: 201-226.
- Sneath, P.H.A. 1962. The construction of taxonomic groups. Pp. 289-332 in Ainsworth, G.C. & Sneath, P.H.A., *Microbial classification*. Cambridge: Cambridge University Press.
- Sneath, P. H. A. & Sokal, R.R. 1973. *Numerical taxonomy: the principles and practice of numerical classification*. San Francisco: W.H. Freeman & Co. 573p.
- Sneath, P. H. A. 1976. Phenetic taxonomy at the species level and above. *Taxon* 25: 437-450.
- Snow, N. 1997. Application of the phylogenetic species concept: a botanical monographic perspective. *Austrobaileya* 5: 1-8.
- Snow, N., G. P. Guyner, and G. Sawvel. 2003. Systematics of *Austromyrtus*, *Lenwebbia*, and the Australian species of *Gossia* (Myrtaceae). *Systematic Botany Monographs* 65: 1-95.
- Sokal, R.R. 1961. Distance as a measure of taxonomic similarity. *Systematic Zoology* 10(2): 70-79.
- Sokal, R.R. 1962. Typology and empiricism in taxonomy. *Journal of Theoretical Biology* 3: 230-267.
- Sokal, R. R. 1973. The species problem reconsidered. *Systematic Zoology* 22: 360-374.
- Sokal, R.R. & T. J. Crovello. 1970. The biological species concept: a critical evaluation. *American Naturalist* 104: 127-153.
- Sokal, R.R. & Sneath, P.H.A. 1963. *Principles of numerical taxonomy*. San Francisco: W.H. Freeman. 359p.
- Stamos, D.N. 2003. *The species problem: Biological species, ontology and the metaphysics of biology*. Lexington Books. 390p.
- Stearn, W.T. 1959. The background of Linnaeus' contribution to the nomenclature and methods of systematic biology. *Systematic Zoology* 8: 4-22.
- Stebbing, L.S. 1948. *A modern introduction to logic*. London: Methuen. 525p.
- Stebbins, G.L. 1950. *Variation and evolution in plants*. New York: Columbia University Press. 643p.
- Stevens, P.F. 1994. *The Development of Biological Systematics: Antoine-Laurent de Jussieu, Nature, and the Natural System*. Columbia University Press, New York. 616p.
- Stuessy, T.F. 2009. *Plant taxonomy: the systematic evaluation of comparative data*. 2 ed. New York: Columbia University Press.
- Svenson, H.K. 1945. On the descriptive method of Linnaeus. *Rhodora* 47(562): 273-302, (563): 363-388.
- Valentine, D. & Löve, A. 1958. Taxonomy and biosystematic categories. *Brittonia* 10: 153.
- Van Steenis, C.G.G.J. 1957. Specific and infra-specific delimitation. *Flora Malesiana Ser. 1*. 5, pp. clxvii – ccxxxiv.
- Van Valen, L. 1976. Ecological species, multispecies, and oaks. *Taxon* 25: 233-239.
- Vavilov, N.I. 1922 (1950). The law of homologous series in the inheritance of variability. *Chronica Botanica* 13: 55-94.

- Vitte, A.C. & Silveira, R.W.D. 2010. Natureza em Alexander von Humboldt: entre a ontologia e o empirismo. *Mercator* 9(20): DOI: 10.4215/RM2010.0920.0012.
- Vogt, L. et al. (2010) The linguistic problem of morphology: structure versus homology and the standardization of morphological data. *Cladistics* 26, 301–325
- Vries, H. de 1909. The mutation theory: experiments and observations on the origin of species in the vegetable kingdom. Vol. 1. The origin of species by mutation. Chicago: The Open Court Publishing Company.
- Wettstein, R. 1898. Grundzüge der geographisch-morphologischen Methode der Pflanzensystematik. Jena: Gustav Fischer. 64p.
- Whewell, W. 1847. The Philosophy of the inductive sciences, founded on their history. Vol. 1, Pp. 466-542. The Philosophy of the classificatory sciences. London: John W. Parker.
- Wiens, J.J. 2007. Species delimitation: new approaches for discovering diversity. *Systematic Biology* 56(6): 875-878.
- Williams D.M., Ebach, M.C. (2008). *Foundations of Systematics and Biogeography*. Springer Verlag, Heidelberg.
- Wilson, R.A. 1999. *Species: New interdisciplinary essays*. Cambridge, Massachusetts: The MIT Press.
- Winsor, M.P. 1995. The English debate on taxonomy and phylogeny, 1937-1940. *History and Philosophy of the Life Sciences* 17: 227-252.
- Winsor, M.P. 2000. Species, demes, and the Omega Taxonomy: Gilmour and The New Systematics. *Biology and Philosophy* 15(3): 349-388.
- Winsor, M.P. 2003. Non-essentialist methods in pre-Darwinian taxonomy. *Biology and Philosophy* 18: 387-400.
- Zimmermann, W. 1934. Research on phylogeny of species and of single characters. *Am. Nat.* 68: 381-384.
- Zimmermann, W. 1966. Phänetische und phylogenetische Verwandtschaft. *Phyton* 11: 145-163.