

Applications of Numerical Taxonomy to Biological Systematics

In this Appendix we list the publications known to us of numerical taxonomy as applied to the systematics of organisms. We have included a number of borderline papers because they contain significant taxonomic implications, but we have restricted the list of multivariate studies to those directed mainly toward problems of classification. A few references have also been included mainly because they consider problems, such as the choice of material or the coding of characters, that are especially important in numerical work on a particular taxonomic group. Papers before 1956 have not been listed, as these are largely of historical interest; they have been summarized by Sokal and Sneath (1963), Davis and Heywood (1963), and Hubac (1967).

The lists are arranged as follows into major taxonomic groups: studies spanning several major groups of organisms, vertebrates, arthropods, other invertebrates, dicotyledons, monocotyledons, other eucaryote plants, bacteria, and viruses. Brief annotations have been added when the paper cited covers major problems beside the classification of the organisms mentioned. From the extensive literature on numerical analysis of protein sequences we have made a short selection of those that are most relevant to taxonomy. Some of these cover organisms from several of the major groups; we have therefore included them under a separate heading. The higher groupings within the bacteria are not yet stabilized, so these references are listed under somewhat arbitrary divisions commonly employed by bacteriologists—Actinomycetales, and Gram positive and Gram negative genera—with a separate list for those studies that cover more than one of these divisions. Paleontological applications may be identified by the inclusion of the word "fossil" in the annotations, and a † symbol has been added to the citation to assist in finding them.

STUDIES SPANNING SEVERAL MAJOR GROUPS OF ORGANISMS

Boulter et al. (1970)	Angiosperms: cytochrome <i>c</i> , cladistics
Dayhoff (1969a)	Vertebrates, insects, fungi, green plants, bacteria: numerous protein sequences, and cladistics
Dayhoff and Eck (1968)	Vertebrates, insects, fungi, green plants, bacteria: numerous protein sequences, and cladistics
Eck and Dayhoff (1966)	Vertebrates, insects, fungi, bacteria: various proteins, and cladistics
Fitch and Margoliash (1967)	Vertebrates, insects, fungi: cytochrome <i>c</i> , cladistics
Fitch and Margoliash (1968)	Vertebrates, insects, fungi: cytochrome <i>c</i> , cladistics
Jardine, van Rijsbergen, and Jardine (1969)	Vertebrates, insects, fungi: cytochrome <i>c</i> , cladistics
Sackin (1967)	Vertebrates, insects, fungi: several proteins

STUDIES OF VERTEBRATA

Ackermann (1967)	Birds (Passeres)
Berry (1963)	Mice (<i>Mus musculus</i>): populations
Berry (1969)	Field-mice (<i>Apodemus sylvaticus</i>): populations, geography
Berry and Searle (1963)	Mice (<i>Mus musculus</i>): populations
Boyce (1964)	Primates: skulls
Boyce (1965)	Primate skulls, genera of rodents
Boyce (1969)	Primates: skulls
Buettner-Janusch and Hill (1965)	Hemoglobins
Cain and Harrison (1960a)	Man: skulls
Camin and Sokal (1965)†	Fossil Equidae: cladistics
Cavalli-Sforza (1966)	Man: blood groups, races, and cladistics
Cavalli-Sforza, Barrai, and Edwards (1964)	Man: blood groups, races, and cladistics
Cavalli-Sforza and Edwards (1964)	Man: blood groups, anthropometry, races, and cladistics
Claude (1970)	Rodents (<i>Clethrionomys glareolus</i>): populations
Daget (1966)	Fish (Citharininae): cladistics
Daget and Hureau (1968)	Fish (Citharininae and Nototheniidae): ordination

STUDIES OF VERTEBRATA (*continued*)

Delany (1965)	Field-mice (<i>Apodemus sylvaticus</i>): populations, ordination
Doolittle and Blombäck (1964)	Mammals (Artiodactyla): proteins, cladistics
Edwards and Cavalli-Sforza (1964)	Man: blood groups, races, and cladistics
Fitch (1966b)	Hemoglobin evolution
Fitch and Neel (1969)	Man: tribes, cladistics
Forman, Baker, and Gerber (1968)	Bat genera: serology
Géry (1965)	Fish (Characidae): comparison of several genera
Goodman and Moore (1971)	Primates: serology, cladistics
Goodman et al. (1971)	Primates: serology, cladistics
Gould (1967)†	Fossil reptiles (Pelycosauria): ordination, Q and R analyses
Hedges (1969)	Field-mice (<i>Apodemus</i>): populations, geography
Hendrickson (1967)†	Fossil Equidae: cladistics
Hudson and Lanzillotti (1964)	Birds (Galliformes): musculature
Hudson, Lanzillotti, and Edwards (1959)	Birds (Galliformes): musculature
Hudson et al. (1966)	Birds (Galliformes): musculature, also congruence between character suites
Hudson et al. (1969)	Birds (Lari and Alcae): musculature
Horne (1967)	Primates: proteins, cladistics
Hureau (1967)	Fish (Nototheniidae)
Imaizumi (1967)	Mammals (Felidae)
Jardine (1969a)†	Fossil fish (Rhipidistia): homology
Jardine (1969c)†	Fossil fish (Rhipidistia): homology
Jardine (1971)	Man: populations
Jardine and Jardine (1967)	Skulls: homology
Johnston (1969)	Sparrows (<i>Passer domesticus</i>): populations, geography
Kirsch (1968)	Marsupialia: serology
Kluge and Eckardt (1969)	Lizards (<i>Hemidactylus garnotii</i>): populations
Kluge and Farris (1969)	Amphibia (Anura): cladistics
Lerman (1965b)†	Fossil Equidae and Oreodontidae: evolution rates

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STUDIES OF VERTEBRATA (*continued*)

Mainardi (1963)	Birds: serology
McAllister (1966)	Fish (<i>Osmeridae</i>)
Minkoff (1965)	Primates: skulls, teeth
Mohagheghpour and Leone (1969)	Primates: serology
Mross and Doolittle (1967)	Mammals (<i>Artiodactyla</i>): proteins, cladistics
Olson (1964)†	Fossil <i>Oreodontidae</i> : skulls, Q and R analyses
Petras (1967)	Mice (<i>Mus musculus</i>): phenetics, geography
Porter and Porter (1967)	Amphibia (<i>Bufo</i>): chemotaxonomy
Power (1970)	Birds (<i>Aegelaius phoeniceus</i>): populations, geography
Rees (1969a)	Deer (<i>Odocoileus virginianus</i>): phenetics, geography
Rees (1969b)	Deer (<i>Odocoileus virginianus</i>): phenetics, geography
Rising (1968)	Birds (<i>Parus</i>): hybridization, geography
Sarich (1969a)	Carnivora: serology, cladistics
Sarich (1969b)	Carnivora: serology, cladistics
Schnell (1969)	Birds (<i>Lari</i>)
Schnell (1970a)	Birds (<i>Lari</i>)
Schnell (1970b)	Birds (<i>Lari</i>)
Selander, Hunt, and Yang (1969)	Mice (<i>Mus musculus</i>): populations
Sneath (1961)†	Fossil fish (<i>Knightia</i>)
Sneath (1967a)	Hominoidia: skulls
Soulé (1966)	Lizards (<i>Uta stansburiana</i>): phenetics, geography
Soulé (1967a)	Lizards (<i>Uta stansburiana</i>): phenetics, geography
Wallace and Bader (1967)	Mice (<i>Mus musculus</i>): ordination

STUDIES OF ARTHROPODA

Bächli, G. (1971)	<i>Leucophenga</i> , <i>Paraleucophenga</i> (Diptera): congruence
Basford et al. (1968)	Coleoptera: serology
Blackith and Blackith (1968)	Orthoptera and allied orders

STUDIES OF ARTHROPODA (*continued*)

Blackith and Kevan (1967)	<i>Chrotogonus</i> (Orthoptera): canonical analysis
Blair, Blackith, and Boratyński (1964)	<i>Coccus hesperidum</i> : R analysis
Boratyński (1971)	Coccoidea (Homoptera): males
Boratyński and Davies (1971)	Diaspididae (Homoptera): male scale insects
Butler and Leone (1967)	Coleoptera: serology
Chillcot (1960)	Fanniinae (Diptera)
Chui (1969)	Psocoptera: Hawaiian complexes
da Cunha (1969)	Meliponinae (Hymenoptera)
DuPraw (1964)	<i>Apis</i> : bee wings
DuPraw (1965a)	<i>Apis mellifera</i> : bee populations, ordination, discrimination, wings
DuPraw (1965b)	<i>Apis mellifera</i> : bee populations; ordination, discrimination, wings
Eades (1970)	Orthoptera: comparison of methods
Ehrlich (1961b)	<i>Euphydryas</i> (Lepidoptera)
Ehrlich and Ehrlich (1967)	Papilionoidea and Hesperioidea (Lepidoptera): congruence between character suites
Eickwort (1969)	Augochlorini (Hymenoptera)
Fisher and Rohlf (1969)	Culicidae (Diptera): homology
Fry (1964)	<i>Ammonothea</i> (Pycnogonida): allometry
Fry and Hedgpeth (1969)	<i>Ammonothea</i> and <i>Achelia</i> (Pycnogonida)
Fujii (1969)	<i>Callosobruchus</i> (Coleoptera): populations and ecology
Funk (1964)	Euzerconidae (Acari)
Giles (1963)	Dermaptera and allied orders
Hendrickson (1967)	<i>Scellus</i> (Diptera): cladistics
Hendrickson and Sokal (1968)	<i>Psorophora</i> (Diptera)
Herrin (1970)	<i>Hirstionyssus</i> (Acari)
Hubby and Throckmorton (1965)	<i>Drosophila</i> (Diptera): chemotaxonomy
Huber (1968)	Blattaria (Dictyoptera): congruence between character suites
Huber (1969)	Blattaria (Dictyoptera)
Hurlbutt (1968)	<i>Veigaia</i> and <i>Asca</i> (Acari): phenetics and ecology
Ihm et al. (1967)	<i>Epilachna</i> (Coleoptera)

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STUDIES OF ARTHROPODA (*continued*)

Jago (1967)	Callimptaminae (Orthoptera)
Jago (1969)	Gomphocerinae (Orthoptera)
Jago (1971)	Gomphocerinae (Orthoptera)
Kaesler (1969a)	Ostracoda: Q and R analyses
Kaesler (1969b)	Ostracoda
Kathirithamby (1971)	Cicadellidae (Homoptera)
Kerr, Pisani, and Aily (1967)	<i>Melipona</i> (Hymenoptera)
Kim, Brown, and Cook (1966)	<i>Hoplopleura</i> (Anoplura): discriminant functions
Kistner (1967a)	<i>Termitodiscus</i> (Coleoptera)
Kistner (1967b)	<i>Aenictonia</i> and <i>Anommatochara</i> (Coleoptera)
Kistner (1968a)	Termitopaedini (Coleoptera)
Kistner (1968b)	Corotocini (Coleoptera)
Kistner and Pasteels (1970)	Coptotermoeicina (Coleoptera)
Klimaszewski (1967)	<i>Trioza</i> (Homoptera)
Kovalev (1968)	<i>Drapetis</i> and allied genera (Diptera)
Kovalev and Shatalkin (1969)	<i>Platypalpus</i> (Diptera)
Le Quesne (1969)	<i>Argodrepana</i> (Lepidoptera): cladistics
Louis and Lefebvre (1968)	<i>Apis mellifera</i> : honey bee colonies
Manischewitz (1971)	Ixodorhynchidae (Acari)
Mason, Ehrlich, and Emmel (1967)	<i>Euphydryas editha</i> (Lepidoptera)
Mason, Ehrlich, and Emmel (1968)	<i>Euphydryas editha</i> (Lepidoptera): R analysis and temporal change
Michener and Sokal (1957)	Megachilidae (Hymenoptera)
Michener and Sokal (1966)	Megachilidae (Hymenoptera): congruence
Moss (1967)	Dermanyssidae (Acari)
Moss (1968a)	<i>Dermanyssus</i> (Acari): extraction of characters for keys
Moss (1968b)	Dermanyssidae (Acari): comparison of methods
Petrova (1967)	Parholaspidae (Acari)
Pisani et al. (1969)	<i>Melipona</i> (Hymenoptera)
Procaccini (1966)	<i>Protesilaus</i> and allied genera (Lepidoptera)

STUDIES OF ARTHROPODA (continued)

Reyment (1965)†	Cytherellidae (Ostracoda): ordination of fossils
Rohlf (1962)	<i>Aedes</i> (Diptera): congruence in mosquitos
Rohlf (1963a)	<i>Aedes</i> (Diptera): congruence in mosquitos
Rohlf (1963b)	<i>Aedes</i> : (Diptera)
Rohlf (1965)	<i>Aedes</i> (Diptera), Megachilidae (Hymenoptera), and Papilionoidea and Hesperioidea (Lepidoptera): congruence
Rohlf (1967)	Culicidae (Diptera): effect of character correlations
Rohlf (1968)	Megachilidae (Hymenoptera): stereograms
Rohlf (1970)	Culicidae (Diptera)
Rohlf and Sokal (1962)	Megachilidae (Hymenoptera)
Rohlf and Sokal (1965)	Megachilidae (Hymenoptera) and <i>Aedes</i> (Diptera): comparison of methods
Rohlf and Sokal (1967)	Culicidae (Diptera): image scanning
Rowell (1970)†	Pterocephaliidae: cladistics of fossil trilobites
Rubin (1966)	Megachilidae (Hymenoptera)
Sakai (1970)	Dermaptera: revision of order, zoogeography
Sakai (1971)	Dermaptera: revision of order, zoogeography
Scudder (1963)	Lygaeoidea and Coreidae (Heteroptera)
Selander and Mathieu (1969)	<i>Epicauta</i> (Coleoptera)
Sheals (1964)	Laelaptoidea (Acari)
Sheals (1969)	Phthiracaroida (Acari)
Shepard (1971)	Luciliini (Diptera)
Smirnov (1969)	<i>Meromyza</i> , <i>Chlorops</i> , Simuliidae (Diptera); <i>Dermestes</i> (Coleoptera); Parholaspidae (Acari); families of Araneida: illustrative examples
Smirnov and Fedoseeva (1967)	<i>Meromyza</i> (Diptera)
Sokal (1958a)	Megachilidae (Hymenoptera)
Sokal (1962b)	Syrphidea (Diptera)

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STUDIES OF ARTHROPODA (*continued*)

Sokal and Michener (1958)	Megachilidae (Hymenoptera)
Sokal and Michener (1967)	Megachilidae (Hymenoptera): comparison of methods
Sokal and Rinkel (1963)	<i>Pemphigus populi-transversus</i> (Homoptera): geographic variation
Sokal and Rohlf (1966)	<i>Aedes</i> (Diptera): image scanning
Sokal and Rohlf (1970)	Megachilidae (Hymenoptera): congruence
Sokal and Thomas (1965)	<i>Pemphigus populi-transversus</i> (Homoptera): geographic variation
Stallings and Turner (1957)	Megathymidae (Lepidoptera)
Stephenson, Williams, and Lance (1968)	Portunidea (Malacostraca)
Steward (1968)	<i>Aedes</i> (Diptera): species in Canada
Styron (1969)	<i>Lirceus fontinalis</i> (Isopoda): popula- tions
Thomas (1968a)	<i>Haemaphysalis leporispalustris</i> (Acari): geographic variation
Thomas (1968b)	<i>Haemaphysalis leporispalustris</i> (Acari): R studies, geographic variation
Thornton and Wong (1967)	Peripsocidae (Psocoptera): congruence between character suites
Throckmorton (1968)	<i>Drosophila</i> : phenetics and cladistics
Wainstein (1968)	Phytoseiidae (Acari)
Wilkinson (1967)	<i>Teldenia</i> and <i>Argodrepana</i> (Lepidoptera)
Wilkinson (1968)	<i>Ditrigona</i> (Lepidoptera)
Wilkinson (1970a)	Drepanidae (Lepidoptera)
Wilkinson (1970b)	Drepanidae (Lepidoptera): ordination methodology
Willis (1971)	<i>Cicindela</i> (Coleoptera): cladistics
Wrenn (1972)	<i>Euschoengastia</i> (Acari)
Zhantiev (1967)	<i>Dermestes</i> (Coleoptera)

STUDIES OF OTHER INVERTEBRATA

Bird (1967)	Nematoda (<i>Trichodorus</i>): ordination
Bird and Mai (1967)	Nematoda (<i>Trichodorus christiei</i>)
Borgelt (1968)	Tunicata (<i>Thalia democratica</i>): subspecies
Camin and Sokal (1965)†	Fossil Fusulinidae: cladistics

STUDIES OF OTHER INVERTEBRATA (*continued*)

Cheetham (1968)†	Fossil Bryozoa (<i>Metrarabdotos</i>): phenetics and evolution
Eldredge (1968)†	Fossil Mollusca (<i>Worthenia</i> and <i>Glabrocingulum</i>): evolution
Evans and Fisher (1966)	Mollusca (<i>Penitella</i>)
Fry (1970)	Sponges (<i>Ophlitaspongia seriata</i>): populations
Ghiselin et al. (1967)	Molluscan genera: shell amino acids
Gould (1969a)†	Mollusca (<i>Poecilozonites</i>), Recent and fossil
Gould (1969b)	Mollusca (<i>Cerion uva</i> and <i>Tudora megacheilos</i>): geography, subspecies
Hendrickson (1967)†	Fossil Fusulinidae: cladistics
Jamieson (1968)	Annelida (Alluroididae)
Jewsbury (1968)	Trematoda (<i>Schistosoma haematobium</i>): egg morphology
Kaesler (1970b)†	Fossil Fusulinidae (<i>Pseudoschwagerina</i>): cladistics
Kesling and Sigler (1969)†	Fossil Crinoidea: cladistics
Kohut (1969)†	Fossil conodont groups
Lerman (1965a)†	Fossil Mollusca (<i>Exogyra</i>)
Lerman (1965b)†	Fossil Mollusca (<i>Exogyra</i> and <i>Kosmoceras</i>): evolution rates
Lima (1965)	Nematoda (<i>Xiphinema</i>)
Lima (1968)	Nematoda (<i>Xiphinema</i>)
Little (1963)	Sponges (<i>Cliona</i>)
Moss and Webster (1969)	Nematoda (Strongylidae)
Moss and Webster (1970)	Nematoda (Strongylidae): ordination
Pitcher (1966)†	Fossil Fusulinidae: ordination
Powers (1970)	Corals of the Hawaiian reef
Reyment and Naidin (1962)†	Fossil Belemnitidae (<i>Actinocamax</i>): ordination
Rowell (1967)†	Fossil Brachiopoda (Chonetacea)
Sims (1966)	Earthworms (Megascolecidae)
Sims (1969a)	Earthworms (Megascolecidae)
Sims (1969b)	Earthworms (Megascolecidae)
Ukoli (1967)	Trematoda (<i>Apharyngostrigea</i>)

STUDIES OF ANGIOSPERMAE: DICOTYLEDONES

Balbach (1965)	<i>Apocynum</i> (Apocynaceae)
Banks and Hillis (1969)	<i>Eucalyptus camaldulensis</i> (Myrtaceae): chemotaxonomy and geography
Beals (1968)	<i>Antennaria</i> (Compositae): ordination
Bemis et al. (1970)	<i>Cucurbita</i> (Cucurbitaceae) and hybrids
Bisby (1970a)	<i>Crotalaria</i> (Leguminosae)
Bisby (1970b)	<i>Crotalaria</i> (Leguminosae): Q and R analyses
Crovello (1966)	<i>Salix</i> (Salicaceae)
Crovello (1968a)	<i>Salix</i> (Salicaceae)
Crovello (1968b)	Limnanthaceae
Crovello (1968d)	<i>Arabidopsis thaliana</i> (Cruciferae): cultivated races
Crovello (1968e)	<i>Salix</i> (Salicaceae)
Crovello (1968f)	<i>Salix</i> (Salicaceae)
Crovello (1968g)	<i>Salix</i> (Salicaceae): different sources of data
Crovello (1968h)	<i>Salix</i> (Salicaceae)
Crovello (1968i)	Limnanthaceae
Crovello (1969)	<i>Salix</i> (Salicaceae)
Dass and Nybom (1967)	<i>Brassica</i> (Cruciferae) and hybrids: chemotaxonomy
Davidson (1963)	<i>Cirsium</i> (Compositae): R analysis
Davidson and Dunn (1967)	<i>Froelichia</i> (Amaranthaceae): R analysis
Davidson and Dunn (1968)	<i>Froelichia</i> (Amaranthaceae)
Drury and Randal (1969)	<i>Erechtites</i> (Compositae)
Edye, Williams, and Pritchard (1970)	<i>Glycine wightii</i> (Leguminosae): populations
El-Gazzar and Watson (1970a)	Labiatae, Verbenaceae, and allied families
El-Gazzar et al. (1968)	<i>Salvia</i> (Labiatae)
Ernst (1967)	Platystemonoideae (Papaveraceae)
Eshbaugh (1964)	<i>Capsicum</i> (Solanaceae)
Eshbaugh (1970)	<i>Capsicum baccatum</i> (Solanaceae): wild and cultivated forms
Grant (1969)	<i>Betula</i> (Betulaceae): chemotaxonomy

STUDIES OF ANGIOSPERMAE: DICOTYLEDONES (*continued*)

Grant and Zandstra (1968)	<i>Lotus</i> (Leguminosae): chemotaxonomy
Hawksworth, Estabrook, and Rogers (1968)	<i>Arceuthobium</i> (Viscaceae)
Heiser, Soria, and Burton (1965)	<i>Solanum</i> (Solanaceae)
Hickman and Johnson (1969)	<i>Menziesia</i> (Ericaceae): geography
Hubac (1964)	<i>Campanula rotundifolia</i> (Campanulaceae): populations and keys
Hubac (1967)	<i>Campanula rotundifolia</i> (Campanulaceae): populations
Hubac (1969)	<i>Campanula rotundifolia</i> (Campanulaceae): hybrids
Irwin and Rogers (1967)	<i>Cassia</i> (Leguminosae)
Ivimey-Cook (1969a)	<i>Ononis</i> (Leguminosae)
Ivimey-Cook (1969b)	<i>Ononis</i> (Leguminosae)
Jancey (1966b)	<i>Phyllota phyllicoides</i> (Leguminosae): populations
Jardine and Sibson (1968b)	<i>Sagina apetala</i> (Caryophyllaceae): populations
Jardine and Sibson (1971)	<i>Silene</i> (Caryophyllaceae)
Jaworska and Nybom (1967)	<i>Saxifraga</i> (Saxifragaceae): hybridization, chemotaxonomy
Johnson and Holm (1968)	<i>Sarcostemma</i> (Asclepiadaceae)
Johnson and Thien (1970)	<i>Gossypium</i> (Malvaceae): chemotaxonomy
Katz and Torres (1965)	<i>Zinnia</i> (Compositae)
Klotz (1967)	<i>Cotoneaster</i> (Rosaceae)
Kowal and Kuźniewski (1959)	<i>Chenopodium</i> and <i>Atriplex</i> (Chenopodiaceae)
Levin and Schaal (1970)	<i>Phlox</i> (Polemoniaceae): chemotaxonomy and hybrids
't Mannetje (1967b)	<i>Trifolium</i> (Leguminosae): susceptibility to strains of <i>Rhizobium</i>
't Mannetje (1969)	<i>Stylosanthes</i> (Leguminosae): morphology and susceptibility to <i>Rhizobium</i> strains
McNeill, Parker, and Heywood (1969a)	Caucalideae (Umbelliferae)
McNeill, Parker, and Heywood (1969b)	Caucalideae (Umbelliferae)

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STUDIES OF ANGIOSPERMAE: DICOTYLEDONES (*continued*)

Menitskii (1966)	<i>Quercus</i> (Fagaceae)
Mooney and Emboden (1968)	<i>Bursera</i> (Burseraceae): populations, geography, and chemotaxonomy
Moore, Harborne, and Williams (1970)	<i>Empetrum rubrum</i> (Empetraceae): chemotaxonomy, geography
Olsson (1967)	<i>Mentha</i> (Labiatae): hybrids, chemotaxonomy
Orloci (1968b)	<i>Phyllodoce</i> (Ericaceae)
Orloci (1970)	<i>Phyllodoce</i> (Ericaceae)
Ornduff and Crovello (1968)	Limnanthaceae and hybrids
Parups et al. (1966)	<i>Trifolium</i> (Leguminosae)
Prance, Rogers, and White (1969)	Chrysobalanaceae
Ramon (1968)	<i>Haplopappus</i> (Compositae) and hybrids
Rhodes, Carmer, and Courter (1969)	<i>Armoracia rusticana</i> (Cruciferae): cultivars
Rhodes et al. (1968)	<i>Cucurbita</i> (Cucurbitaceae)
Rhodes et al. (1970)	<i>Mangifera</i> (Anacardiaceae): cultivars and hybrids
Rogers (in IBM, 1959)	<i>Manihota</i> (Euphorbiaceae)
Rogers and Tanimoto (1960)	<i>Manihota</i> (Euphorbiaceae)
Rostánski (1968)	<i>Oenothera</i> (Onagraceae)
Rostánski (1969)	<i>Oenothera</i> (Onagraceae)
Shmidt (1962)	<i>Odontites</i> (Scrophulariaceae)
Simon and Goodall (1968)	<i>Medicago</i> (Leguminosae): chemotaxonomy
Smith (1969)	<i>Vaccinium</i> (Ericaceae) and hybrids
Sneath (1968a)	<i>Laburnocytisus</i> (Leguminosae): graft chimera
Soria and Heiser (1961)	<i>Solanum</i> (Solanaceae)
Stearn (1968)	<i>Columnnea</i> and <i>Alloplectus</i> (Gesneriaceae)
Stearn (1969)	<i>Columnnea</i> and <i>Alloplectus</i> (Gesneriaceae): species in Jamaica
Stone, Adrouny, and Flake (1969)	<i>Carya</i> (Juglandaceae): chemotaxonomy
Taylor (1966)	<i>Lithophragma</i> (Saxifragaceae)
Taylor (1971)	<i>Tiarella</i> (Saxifragaceae): chemotaxonomy, seasonal variation

STUDIES OF ANGIOSPERMAE: DICOTYLEDONES (*continued*)

Taylor and Campbell (1969)	<i>Aquilegia</i> (Ranunculaceae): chemotaxonomy
Vaughan and Denford (1968)	<i>Brassica</i> and <i>Sinapis</i> (Cruciferae): chemotaxonomy
Vaughan, Denford, and Gordon (1970)	<i>Brassica</i> (Cruciferae) hybrids: chemotaxonomy
Walraven (1970)	<i>Rhynchosia</i> (Leguminosae)
Watson, Williams, and Lance (1966)	Epacridaceae
Watson, Williams, and Lance (1967)	Ericaceae and Epacridaceae
Whitehead and Sinha (1967)	<i>Stellaria</i> (Caryophyllaceae): ordination
Whitehouse (1971)	<i>Phaseolus</i> (Leguminosae): cultivars and hybrids
Wilkins and Lewis (1969)	<i>Geranium sanguineum</i> (Geraniaceae): genecology
Young and Watson (1970)	Dicotyledon families and genera

STUDIES OF ANGIOSPERMAE: MONOCOTYLEDONES

Bhatt (1970)	Wheat cultivars
Bidault (1968)	<i>Festuca ovina</i> (Gramineae): populations and subspecies
Bidault and Hubac (1967)	<i>Festuca ovina</i> (Gramineae): populations
Casas, Hanson, and Wellhausen (1968)	Maize cultivars
Clayton (1970)	<i>Coelorhachis</i> and <i>Rhytachne</i> (Gramineae)
Clifford (1964)	Gramineae
Clifford (1965)	Gramineae
Clifford (1969)	Gramineae: R analysis
Clifford and Goodall (1967)	Gramineae
Clifford, Williams, and Lance (1969)	Gramineae
Dedio, Kaltsikes, and Larter (1969a)	<i>Secale</i> (Gramineae): chemotaxonomy
Dedio, Kaltsikes, and Larter (1969b)	<i>Triticum</i> , <i>Secale</i> , and hybrids (Gramineae): chemotaxonomy
Gilmartin (1967a)	Bromeliaceae
Gilmartin (1969a)	Bromeliaceae: variability of taxa of the same rank
Gilmartin (1969b)	Bromeliaceae: genus homogeneity
Goodman (1967a)	Maize cultivars

(*continued*)

STUDIES OF ANGIOSPERMAE: MONOCOTYLEDONES (*continued*)

Goodman (1968b)	Maize cultivars
Hall (1965b)	<i>Eulophia</i> (Orchidaceae)
Hall (1967b)	<i>Eulophia</i> and <i>Satyrrium</i> (Orchidaceae)
Hall (1969a)	<i>Iris</i> (Iridaceae): discriminant analysis
Hamann (1961)	Monocotyledon families
Ising and Fröst (1969)	<i>Cyrtanthus</i> (Amaryllidaceae): chemotaxonomy
Kaltsikes and Dedio (1970a)	<i>Triticum</i> and <i>Aegilops</i> (Gramineae): chemotaxonomy
Kaltsikes and Dedio (1970b)	<i>Triticum</i> and <i>Aegilops</i> (Gramineae): chemotaxonomy
Kaltsikes, Dedio, and Larter (1969)	<i>Secale</i> (Gramineae): chemotaxonomy
Liang and Casady (1966)	<i>Sorghum</i> (Gramineae)
Morishima and Oka (1960)	<i>Oryza</i> (Gramineae)
Morishima (1969b)	<i>Oryza perennis</i> (Gramineae): cultivars
Oka (1964)	<i>Oryza</i> (Gramineae)
Pernes, Combes, and René-Chaume (1970)	<i>Panicum maximum</i> (Gramineae): cultivars
Rhodes and Carmer (1966)	Maize cultivars
Rowley (1967)	Aloineae (Liliaceae)
Rowley (1969)	Aloineae (Liliaceae)
Shahi, Morishima, and Oka (1969)	<i>Oryza</i> (Gramineae): chemotaxonomy, ordination
Stant (1964)	Alismataceae
Stant (1967)	Butomaceae
Takakura (1962)	<i>Oryza</i> (Gramineae): ordination
de Wet and Huckabay (1967)	<i>Sorghum</i> (Gramineae)
Whitehouse (1971)	Barley cultivars and hybrids
Wirth, Estabrook, and Rogers (1966)	Oncidiinae (Orchidaceae)

STUDIES OF GYMNOSPERMAE

Adams and Turner (1970)	<i>Juniperus ashei</i> (Cupressaceae): populations
Flake (1969)	<i>Juniperus virginiana</i> (Cupressaceae): populations
Flake, von Rudloff, and Turner (1969)	<i>Juniperus virginiana</i> (Cupressaceae): clines, chemotaxonomy
Gambaryan (1965)	<i>Pinus</i> (Pinaceae)

STUDIES OF GYMNOSPERMAE (*continued*)

Jeffers and Black (1963)	<i>Pinus contorta</i> (Pinaceae): subspecies, ordination
Lange, Stenhouse, and Offler (1965)†	Fossil Coniferales
La Roi and Dugle (1968)	<i>Picea</i> (Pinaceae): chemotaxonomy, geography
Thielges (1969)	<i>Pinus</i> (Pinaceae): chemotaxonomy, geography
Young and Watson (1969)	Coniferales: wood structure

STUDIES OF OTHER EUCARYOTE PLANTS

Bischler and Joly (1969)	Lichens (<i>Calypogeia</i>)
Campbell (1969)	Yeasts (<i>Saccharomyces</i>): serology
Cullimore (1969)	Algae (<i>Chlorella vulgaris</i>)
Ducker, Williams, and Lance (1965)	Algae (<i>Chlorodesmis</i>)
Ibrahim (1963)	Fungi (<i>Helminthosporium</i>)
Ibrahim and Threlfall (1966a)	Fungi (<i>Helminthosporium</i>)
Ibrahim and Threlfall (1966b)	Fungi (<i>Helminthosporium</i>)
Joly (1969)	Fungi (<i>Alternaria</i>)
Kendrick (1964)	Fungi (<i>Verticicladiella</i>)
Kendrick and Proctor (1964)	Fungi (<i>Verticicladiella</i> and <i>Phialocephala</i>)
Kendrick and Weresub (1966)	Orders of Basidiomycetes: character weighting
Kocková-Kratochvilová (1969a)	Yeasts (<i>Saccharomyces</i>)
Kocková-Kratochvilová (1969b)	Yeasts (<i>Saccharomyces</i>)
Kocková-Kratochvilová et al. (1968)	Yeasts (<i>Saccharomyces</i>)
Kocková-Kratochvilová, Šandula, and Vojtková-Lepšíková (1969)	Yeasts (<i>Candida</i>)
Landau, Shechter, and Newcomer (1968)	Fungi (Dermatophyta): chemotaxonomy
Lellinger (1964)	Ferns (cheilanthoids): cladistics
Lellinger (1965)	Ferns (adiantoids): cladistics
Levin and Rogers (1964)	Algae (Nemalionales)
Lichtwardt et al. (1969)	Fungi (<i>Smittium</i>): chemotaxonomy, serology
McGuire (1969)	Algae (<i>Chlorococcum</i>)
Mickel (1962)	Ferns (<i>Anemia</i>): cladistics
Morishima (1969a)	Fungi (<i>Piricularia oryzae</i>)

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STUDIES OF OTHER EUKARYOTE PLANTS (*continued*)

Pokorná (1969)	Yeasts (<i>Candida</i>)
Poncet (1967a)	Yeasts (<i>Pichia</i>): ordination
Poncet (1967b)	Yeasts (<i>Pichia</i>): ordination
Poncet (1970)	Yeasts (<i>Hansenula</i>)
Proctor (1966)	Fungi (<i>Verticicladiella</i>)
Proctor and Kendrick (1963)	Fungi (<i>Haplobasidium</i> and allied genera)
Rogers and Fleming (1964)	Algae (<i>Halimeda</i>)
Seki (1968)	Mosses (Sematophyllaceae): ordination
Shipton and Fleischmann (1969)	Fungi (<i>Puccinia</i>): chemotaxonomy
Whitney, Vaughan, and Heale (1968)	Fungi (<i>Fusarium</i> and <i>Verticillium</i>): chemotaxonomy

WIDE RANGE STUDIES OF BACTERIA

Allen and Pelczar (1967)	Bacteria from fish, including a new pathogen
Bean and Everton (1969)	Bacteria from cannery environments
Beers et al. (1962)	Pseudomonadaceae, Enterobacteriaceae, and <i>Streptococcus</i>
Brisbane and Rovira (1961)	Soil bacteria
Davis and Newton (1969)	Coryneform bacteria, and Actinomycetales
Focht and Lockhart (1965)	Genera of several orders
Goodfellow (1967)	Genera of several orders
Goodfellow (1969)	Soil bacteria
Graham (1964)	<i>Rhizobium</i> and allied genera, and <i>Bacillus</i>
Gyllenberg (1967)	Soil bacteria: R ordination
Gyllenberg and Rauramaa (1966)	Soil bacteria: cluster parameters
Hayashi (1968)	Various Gram positive genera and Gram negative cocci
Johnson, Katarski, and Weisrock (1968)	Marine bacteria
Litchfield, Colwell, and Prescott (1969)	<i>Pseudomonas</i> and allied genera, and <i>Bacillus</i>
Lockhart and Hartman (1963)	Pseudomonadaceae, Enterobacteriaceae, and <i>Streptococcus</i>

 WIDE RANGE STUDIES OF BACTERIA (*continued*)

't Mannetje (1967a)	<i>Rhizobium</i> and allied genera, and <i>Bacillus</i>
Melchiorri-Santolini (1968)	Marine bacteria
Pfister and Burkholder (1965)	Marine bacteria
Quadling and Hopkins (1966)	Pseudomonadaceae, Enterobacteriaceae, and <i>Bacillus</i>
Quadling and Hopkins (1967)	Pseudomonadaceae, Enterobacteriaceae, and <i>Bacillus</i> : two-stage ordination
Rouatt et al. (1970)	Coryneform bacteria, and Actinomycetales: chemotaxonomy
Rovira and Brisbane (1967)	Soil bacteria: Q and R analyses
Skyring and Quadling (1969b)	Soil bacteria
Sneath and Cowan (1958)	Genera of several orders
Sundman and Gyllenberg (1967)	Soil bacteria: R analysis

 STUDIES OF BACTERIA: ACTINOMYCETALES

Bogdanescu and Racotta (1967)	<i>Mycobacterium</i>
Bojalil and Cerbón (1961)	<i>Mycobacterium</i>
Bojalil, Cerbón, and Trujillo (1962)	<i>Mycobacterium</i>
Cerbón and Bojalil (1961)	<i>Mycobacterium</i>
Gilardi et al. (1960)	<i>Streptomyces</i> and allied genera
Goodall (1966a)	<i>Mycobacterium</i>
Goodfellow (1971)	<i>Nocardia</i> and allied genera
Gyllenberg (1970)	<i>Streptomyces</i> : R analysis
Gyllenberg, Woźnicka, and Kuryłowicz (1967)	<i>Streptomyces</i> : ordination
Hill and Silvestri (1962)	<i>Streptomyces</i> and allied genera: probabilistic keys
Hill et al. (1961)	<i>Streptomyces</i> and allied genera
Jones and Bradley (1964)	<i>Mycobacterium</i> , <i>Nocardia</i> , and allied genera
Kazda (1966)	<i>Mycobacterium</i>
Kazda (1967)	<i>Mycobacterium</i>
Kazda, Vrabel, and Dornetzhuber (1967)	<i>Mycobacterium</i>
Kestle, Abbott, and Kubica (1967)	<i>Mycobacterium</i>
Kubica et al. (1970)	<i>Mycobacterium</i>
Kuryłowicz et al. (1970)	<i>Streptomyces</i>

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STUDIES OF BACTERIA: ACTINOMYCETALES (*continued*)

Melville (1965)	<i>Actinomyces</i> : congruence under different conditions of test
Möller (1962c)	<i>Streptomyces</i> and allied genera: probabilistic keys
Nakayama, Nakayama, and Takeya (1970)	<i>Mycobacterium fortuitum</i> and <i>M. runyonii</i>
Saito, Tasaka, and Takei (1968)	<i>Mycobacterium</i>
Silvestri et al. (1962)	<i>Streptomyces</i> and allied genera
Takeya, Nakayama, and Nakayama (1967)	<i>Mycobacterium</i> : immunology
Tsukamura (1966)	<i>Mycobacterium</i>
Tsukamura (1967a)	<i>Mycobacterium</i>
Tsukamura (1967b)	<i>Mycobacterium chitae</i>
Tsukamura (1967c)	<i>Mycobacterium terrae</i> and <i>M. novum</i>
Tsukamura (1967d)	<i>Mycobacterium</i> : the distinctness of taxa
Tsukamura (1968)	<i>Mycobacterium</i>
Tsukamura (1969)	<i>Nocardia</i>
Tsukamura and Mizuno (1968)	<i>Mycobacterium</i> : cluster parameters
Tsukamura and Mizuno (1969)	<i>Mycobacterium</i>
Tsukamura and Tsukamura (1966)	<i>Mycobacterium</i>
Tsukamura, Mizuno, and Tsukamura (1967)	<i>Mycobacterium</i>
Tsukamura, Tsukamura, and Mizuno (1967)	<i>Mycobacterium fortuitum</i>
Wayne (1966)	<i>Mycobacterium</i>
Wayne (1967)	<i>Mycobacterium</i>
Wayne, Doubek, and Diaz (1967)	<i>Mycobacterium</i>
Williams, Davies, and Hall (1969)	<i>Streptomyces</i>
Wóźnicka (1967)	<i>Streptomyces</i>

STUDIES OF BACTERIA: GRAM POSITIVE GROUPS

Antila and Gyllenberg (1963)	<i>Propionibacterium</i>
Barre (1969)	<i>Lactobacillus</i> : strains from wine
Blondeau (1961)	<i>Streptococcus faecalis</i>
Bonde (1965)	<i>Bacillus</i> : marine strains
Carlsson (1968)	<i>Streptococcus</i> : oral forms
Chatelain and Second (1966)	<i>Brevibacterium</i> and allied genera

STUDIES OF BACTERIA: GRAM POSITIVE GROUPS (*continued*)

Cheeseman and Berridge (1959)	<i>Lactobacillus</i>
Colman (1968)	<i>Streptococcus</i>
Colobert and Blondeau (1962)	<i>Streptococcus faecalis</i>
Davis (1964)	<i>Lactobacillus</i>
Davis et al. (1969)	<i>Listeria</i> , <i>Streptococcus</i> , and other lactic acid and coryneform bacteria
Defayolle and Colobert (1962)	<i>Streptococcus faecalis</i> : ordination
Defayolle et al. (1968)	<i>Bacillus</i> : ordination
Drucker and Melville (1969a)	<i>Streptococcus</i> : oral forms
Drucker and Melville (1969b)	<i>Streptococcus</i>
Gray (1969)	<i>Arthrobacter</i>
Harrington (1966)	Coryneform bacteria
Hauser and Smith (1964)	<i>Lactobacillus</i> : strains from cheese
Hayashi, Mimura, and Nakabe (1968a)	Halophilic micrococci
Hayashi, Mimura, and Nakabe (1968b)	Lactobacillaceae
Hayashi et al. (1965)	<i>Micrococcus</i> and <i>Sarcina</i>
Hayashi et al. (1966a)	<i>Streptococcus</i> and allied genera
Hesser, Hartman, and Saul (1967)	<i>Lactobacillus</i> : strains from silage
Hester and Weeks (1969)	<i>Brevibacterium</i>
Hester and Weeks (1970)	Coryneform bacteria
Hill (1959)	<i>Micrococcus</i> and <i>Staphylococcus</i>
Hill et al. (1965)	<i>Micrococcus</i> and <i>Staphylococcus</i>
Hubálec (1969)	Micrococcaceae
Jarvis and Annison (1967)	<i>Ruminococcus</i>
Lowe (1969)	Soil bacteria
Lysenko (1962)	<i>Bacillus cereus</i> : insect pathogenic forms
Lysenko (1963b)	<i>Bacillus cereus</i> : insect pathogenic forms
Malik, Reinbold, and Vedamuthu (1968)	<i>Propionibacterium</i>
Masuo and Nakagawa (1968)	Coryneform bacteria
Masuo and Nakagawa (1969a)	Coryneform bacteria
Masuo and Nakagawa (1969b)	Various genera
Masuo and Nakagawa (1969c)	Various genera and DNA data

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STUDIES OF BACTERIA: GRAM POSITIVE GROUPS (*continued*)

Masuo and Nakagawa (1970)	<i>Corynebacterium</i> : serology
Mullakhanbhai and Bhat (1967)	<i>Arthrobacter</i>
Nakamura and Nishida (1970)	<i>Clostridium tetani</i> and allied species
Pike (1965a)	Micrococcaceae: R analysis
Pike (1965b)	Micrococcaceae: R analysis
Pohja (1960)	<i>Micrococcus</i>
Pohja and Gyllenberg (1962)	<i>Micrococcus</i>
Raj and Colwell (1966)	<i>Streptococcus</i>
Raj, Colwell, and Liston (1964)	<i>Streptococcus</i>
Roberts (1968)	<i>Corynebacterium pyogenes</i> : host origin, geography
Rosypal, Rosypalová, and Hořejš (1966)	<i>Micrococcus</i> and <i>Staphylococcus</i> : congruence with DNA base ratios
Seyfried (1968)	<i>Streptococcus</i> , <i>Lactobacillus</i> , and <i>Propionibacterium</i>
Silva and Holt (1965)	Coryneform bacteria
Silvestri and Hill (1965)	<i>Micrococcus</i> and <i>Staphylococcus</i> : congruence with DNA base ratios
Skyring and Quadling (1969a)	Coryneform bacteria: two-stage ordination
Skyring and Quadling (1970)	Coryneform bacteria
Sneath (1962)	<i>Bacillus</i>
Splittstoesser, Mautz, and Colwell (1968)	<i>Streptococcus</i> and allied genera from vegetables
Splittstoesser et al. (1967)	Coryneform bacteria from vegetables
Wang (1968)	Coryneform bacteria, glutamate-accumulating

STUDIES OF BACTERIA: GRAM NEGATIVE GROUPS

Baptist, Shaw, and Mandel (1969)	Enterobacteriaceae: chemotaxonomy
Barnes and Goldberg (1968)	Bacteroidaceae
Baumann, Doudoroff, and Stanier (1968)	<i>Acinetobacter</i>
Carmichael and Sneath (1969)	<i>Pasteurella</i> , <i>Yersinia</i> , and allied genera
Colwell (1964)	<i>Pseudomonas aeruginosa</i>
Colwell (1969)	Myxobacterales and allied genera
Colwell (1970a)	<i>Vibrio</i> and allied genera

STUDIES OF BACTERIA: GRAM NEGATIVE GROUPS (*continued*)

Colwell (1970b)	<i>Vibrio</i> : allied genera and DNA data
Colwell and Chapman (1966)	<i>Vibrio</i> and allied genera: marine strains
Colwell, Citarella, and Ryman (1965)	<i>Pseudomonas</i> : congruence with DNA base ratios
Colwell and Gochnauer (1963)	<i>Pseudomonas</i> and <i>Vibrio</i> : marine strains
Colwell and Liston (1961a)	<i>Pseudomonas</i> and <i>Xanthomonas</i>
Colwell and Liston (1961b)	Pseudomonadales and <i>Vibrio</i>
Colwell and Liston (1961c)	<i>Pseudomonas</i> and <i>Xanthomonas</i>
Colwell and Liston (1961d)	<i>Pseudomonas</i> and <i>Xanthomonas</i>
Colwell and Mandel (1964)	<i>Pseudomonas</i> and allied genera: enterobacteria and congruence with DNA base ratios
Colwell and Mandel (1965)	<i>Serratia</i> : congruence with DNA base ratios
Colwell, Mandel, and Gochnauer (1964)	<i>Serratia marcescens</i>
Colwell, Moffett, and Sutton (1968)	<i>Xanthomonas</i> and plant-pathogenic strains of <i>Pseudomonas</i>
Colwell, Morita, and Gochnauer (1964)	<i>Vibrio</i> : marine strains
Colwell and Yuter (1965)	<i>Vibrio</i>
Eddy and Carpenter (1964)	<i>Aeromonas</i>
Evans and Falkow (1969)	<i>Escherichia coli</i> : congruence with DNA pairing
Fager (1969)	Myxobacterales and allied genera
Floodgate and Hayes (1963)	<i>Flavobacterium</i> and <i>Cytophaga</i>
Goodall (1966a)	<i>Chromobacterium</i> and Enterobacteriaceae
Grimont (1969)	<i>Serratia</i>
Gyllenberg and Eklund (1967)	Pseudomonadaceae: Q and R analyses
Gyllenberg et al. (1963a)	<i>Pseudomonas</i> in milk
Hansen and Weeks (1964)	<i>Flavobacterium piscicida</i> (<i>Pseudomonas piscicida</i>)
Hansen, Weeks, and Colwell (1965)	<i>Pseudomonas</i> , including <i>P. piscicida</i>
Hayashi et al. (1966b)	<i>Neisseria</i> and allied forms
Heberlein, De Ley, and Tijtgat (1967)	<i>Rhizobium</i> and allied organisms: DNA pairing
Hodgkiss and Shewan (1968)	<i>Aeromonas</i> and <i>Vibrio</i> (<i>continued</i>)

STUDIES OF BACTERIA: GRAM NEGATIVE GROUPS (*continued*)

Hutchinson and White (1964)	<i>Thiobacillus</i>
Hutchinson, Johnstone, and White (1965)	<i>Thiobacillus</i> : distinctness of phenons
Hutchinson, Johnstone, and White (1966)	<i>Thiobacillus</i> : cluster parameters
Hutchinson, Johnstone, and White (1967)	<i>Thiobacillus</i>
Hutchinson, Johnstone, and White (1969)	<i>Thiobacillus</i> and allied organisms
Komagata, Tamagawa, and Iizuka (1968)	<i>Erwinia</i>
Krantz, Colwell, and Lovelace (1969)	<i>Vibrio parahaemolyticus</i>
Kreig and Lockhart (1966a)	Enterobacteriaceae
Kreig and Lockhart (1966b)	Enterobacteriaceae
Lewin (1969)	Myxobacterales and genera in allied orders
De Ley (1968)	<i>Acinetobacter</i> and allied genera
De Ley et al. (1966a)	<i>Pseudomonas</i> , <i>Xanthomonas</i> , and allied genera: congruence with DNA pairing
De Ley et al. (1966b)	<i>Agrobacterium</i>
Liston (1960)	<i>Pseudomonas</i> , <i>Achromobacter</i> , and allied genera
Liston and Colwell (1960)	Pseudomonadales
Liston, Weibe, and Colwell (1963)	<i>Pseudomonas</i> : cluster parameters
Lockhart (1967)	Enterobacteriaceae: effect of experimental errors
Lockhart and Holt (1964)	<i>Salmonella</i> serotypes
Lockhart and Koenig (1965)	<i>Erwinia</i> : different coding methods
Lysenko (1961)	<i>Pseudomonas</i>
Lysenko and Sneath (1959)	<i>Chromobacterium</i> and Enterobacteriaceae: ordination
McCurdy and Wolf (1967)	Myxobacterales
McDonald, Quadling, and Chambers (1963)	<i>Cytophaga</i> and allied genera: bacteria found in Arctic sediments
Moffett and Colwell (1967)	<i>Rhizobium</i> and allied genera
Moffett and Colwell (1968)	<i>Rhizobium</i> and allied genera
Papacostea, Missirliu, and Preda (1965)	<i>Pseudomonas</i>
Pintér and Bende (1967)	<i>Acinetobacter</i> , <i>Moraxella</i> , and allied organisms

STUDIES OF BACTERIA: GRAM NEGATIVE GROUPS (*continued*)

Pintér and Bende (1968)	<i>Acinetobacter</i> , <i>Moraxella</i> , and allied organisms
Pintér and De Ley (1969)	<i>Acinetobacter</i> : similarity of strains, DNA base ratios
Poindexter (1964)	Caulobacteraceae
Quadling and Colwell (1963)	<i>Pseudomonas</i> , <i>Vibrio</i> , and <i>Cytophaga</i> : Arctic bacteria
Quadling, Cook, and Colwell (1964)	<i>Cytophaga</i>
Quigley and Colwell (1968a)	<i>Pseudomonas</i> and allied genera: marine strains
Quigley and Colwell (1968b)	<i>Pseudomonas bathycetes</i>
Reich et al. (1966)	<i>Mycoplasma</i> : DNA pairing
Rhodes (1961)	<i>Pseudomonas</i>
Sakazaki, Gomez, and Sebald (1967)	<i>Vibrio</i> and <i>Aeromonas</i>
Sands, Schroth, and Hildebrand (1970)	<i>Pseudomonas</i> : plant pathogens
Shewan, Hobbs, and Hodgkiss (1960)	Pseudomonadaceae
Smith (1963)	<i>Aeromonas</i>
Smith and Thal (1965)	<i>Pasteurella</i> and <i>Yersinia</i>
Sneath (1957b)	<i>Chromobacterium</i>
Sneath (1964b)	Pseudomonadaceae
Sneath (1968d)	<i>Chromobacterium</i> : vigor and pattern differences
Stevens (1969)	<i>Pasteurella</i> , <i>Yersinia</i> , and allied genera
Talbot and Sneath (1960)	<i>Pasteurella multocida</i>
Thornley (1960)	<i>Pseudomonas</i> and <i>Achromobacter</i>
Thornley (1967)	<i>Acinetobacter</i> and allied genera
Thornley (1968)	<i>Acinetobacter</i> and allied genera
Véron (1966a)	<i>Vibrio</i> and allied genera
Véron (1966b)	<i>Vibrio</i> and allied genera

STUDIES OF VIRUSES

Andrewes and Sneath (1958)	Animal
Bellett (1967a)	Animal: nucleic acid data
Bellett (1967b)	Animal: nucleic acid data
Bellett (1967c)	Animal: nucleic acid data
Bellett (1969)	Animal

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STUDIES OF VIRUSES (continued)

Dowdle et al. (1969)	Influenza: serology
Gibbs (1969)	Plant
Lee (1967)	Influenza: serology
Lee (1968)	Influenza: serology
Lee and Tauraso (1968)	Influenza: serology
Meier-Ewert, Gibbs, and Dimmock (1970)	Influenza: serology
Sneath (1962)	Animal
Tremaine (1970)	Plant: amino acid data
Tremaine and Argyle (1970)	Plant: amino acid data
Varma, Gibbs, and Woods (1969)	Plant: nucleic acid data
