

# AOS Research Grant History

## 1951-52

Went, Dr. Fritz "Research on cymbidiums."	California Institute of Technology	\$500
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## 1951-53

Rotor, Dr. Gavino "Orchid research."	Cornell University	\$1,000
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## 1957-58

Botany Department "Stimulation of branching orchid rhizomes."	University of Miami	\$500
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Casamajor, Robert "Relationship between protocorm and adult potential in cymbidiums"	Earhart Pl. Research Lab	\$200
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Jensen, Dr. D. "Identification of orchid viruses and their effects"	University of California Berkeley	\$500
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Kamemoto, Dr. Haruyuki "Genetics and cytogenetics of orchids"	University of Hawaii	\$2,500
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Mehlquist, Dr. Gustave "Genetic research"	University of Connecticut	\$2,227
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Sheehan, Dr. Thomas "Effect of growth media on orchid culture"	University of Florida	\$1,000
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## 1958-59

Kamemoto, Dr. Haruyuki "Cytogenetics of orchids"	University of Hawaii	\$1,500
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Melquist, Dr. Gustave "Study of meiosis in diploid and polyploid orchids"	University of Connecticut	\$2,625
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**1959-60**

Alexander, Dr. Taylor	University of Miami	
"Methods to break dormancy in back bulbs"		\$256
Casamajor, Robert	Earhart Pl. Research Lab	
"Relationship between protocorm bulb size and adult potential in cymbidium"		\$200
Davidson, Dr. O. Wesley	Rutgers University	
"Effects of pot type choice on orchid growth and culture"		\$700
Kamemoto, Dr. Haruyuki	University of Hawaii	
"Cytogenetics of orchids"		\$2,000
Nelson, F.	Iowa State University	
"Orchid seed germination"		\$700
Sagawa, Dr. Yoneo	University of Florida	
"Fertilization studies"		\$2,400
Sheehan, Dr. Thomas	University of Florida	
"Effect of growth media on orchid culture"		\$1,000
Withner, Dr. Carl	Brooklyn College	
"Energy used by flower parts"		\$ n/a

**1962-63**

Davidson, Dr. O. Wesley	Rutgers University	
"Effect of leaf temperature on orchids"		\$1,200
Kamemoto, Dr. Haruyuki	University of Hawaii	
"Genetic studies"		\$500
Sagawa, Dr. Yoneo	University of Florida	
"Ovule development in phals."		\$1,000
"Green pod culture in phals."		\$2,000

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1963-64

Arditti, Dr. Joseph "Growth factors in orchids"	University of Southern California	\$500
Garay, Dr. Leslie "Orchid evolution"	Harvard University	\$1,000
Kamemoto, Dr. Haruyuki "Genetics of orchids"	University of Hawaii	\$500
Sagawa, Dr. Yoneo "Green pod culture, shoot apex culture"	University of Florida	\$200
Wimber, Dr. Donald "Culture of shoot meristem tissue"	University of Oregon	\$3,500

1965-66

Thornberry, H. "Necrotic petal spot"	University of Illinois	\$2,000
Wheeler, L. "Trace elements in orchids"	University of Southern California	\$1,516

1965-68

Sagawa, Dr. Yoneo "Shoot apex cultures"	University of Florida	\$6,750
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1966-67

Bivens, J. "Growth hormones in orchid production" "Pre-emergence weed control"	University of California	\$1,500 \$500
Sweet, Dr. Herman "Taxonomy of phals."	Harvard University	\$1,500

1966-68

Abernathie, J. "Virus disease symptoms"	University of Kentucky	\$2,400
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<u>1967</u>		
Williams, Dr. Norris	University of Miami	
"Genus Brassia in Ecuador"		\$600
<u>1967-68</u>		
Arditti, Dr. Joseph	University of California	
"Role of mycorrhiza in nutrients"		\$1,630
Hayes, A.	Loyola University	
"Role of fungus-produced plant growth hormones in orchid seed germination"		\$250
<u>1967-69</u>		
Sheehan, Dr. Thomas	University of Florida	
"Mericlone monopodial orchids"		\$6,000
<u>1968-69</u>		
Harper, Dr. James	Ohio State University	
"Orchid Pigments"		\$1,500
Morel, Dr. George	I.C.N.R.	
"Viruses in Meristemming"		\$3,000
Sagawa, Dr. Yoneo	University of Hawaii	
"Pigments in orchids"		\$1,000
Sanford, W.	University of Ife, Nigeria	
"Orchids of West Africa"		\$1,500
Sweet, Dr. Herman	Harvard University	
"Revision of Phalaenopsis"		\$1,200
<u>1969-70</u>		
Lawson, Dr. Roger	United States Department of Agriculture	
"Factors affecting expression of flower necrosis in cattleya orchids"		\$2,500
<u>1969-71</u>		
Arditti, Dr. Joseph	University of California	
"Propagation of orchids"		\$2,500

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1970-71

Lawson, Dr. Roger	United States Department of Agriculture	
"Virus Research"		\$4,500
Sagawa, Dr. Yoneo	University of Hawaii	
"A study of the nature of inheritance in Doritis"		\$3,600
Williams, Dr. Norris	University of Miami	
"Scanning electron microscopic studies of orchid pollen"		\$969
	Nature Conservation	
"Conservation of native orchids"		\$500

1970-72

Beechey, C.	University of Malaya	
"A histological study of the seeds of Spathoglottis"		\$3,000
Frei, J.	Barry College	
"Significance of bark substrates"		\$1,000

1971-72

	University of Costa Rica	
"Lankester Gardens"		\$12,500
Arditti, Dr. Joseph	University of Southern California	
"Physiology and biochemistry of orchids"		\$6,000
Fiske, M.	Union College	
"Orchid exploration in Ecuador"		\$500

1971-73

Holman, Dr. Ralph	University of Minnesota	
"Characterization of the fragrances of orchids"		\$3,000

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1972-73

Frei, J. "Influence of bark type on orchid growth"	Barry College	\$1,750
Harper, Dr. James "Orchid pigments"	Ohio State University	\$250
Millar, Andrea "Orchids of Papua New Guinea"	University of Papua New Guinea	\$1,000
Thien, L. "Purchase of photographic equipment"	Tulane University	\$985

1973-75

Strauss, Michael "Floral senescence in orchids"	University of California	\$1,555
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1973-76

Holman, Dr. Ralph "Composition of orchid fragrances"	University of Minnesota	\$5,000
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1974

Peterson, Richard "Indoor orchid culture"	American Orchid Society	\$500
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1974-75

Lawson, Dr. Roger "Virus research"	United States Department of Agriculture	\$1,500
"Virus research"		\$1,500
Millar, Andrea "Extension of grant to collect orchids"	University of Papua New Guinea	\$1,250
Sagawa, Dr. Yonea "Short course development"	University of Hawaii	\$500

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1977-78

Atwood, Dr. John Florida State University  
"A Survey of plicate leaf anatomy" \$984

Stoutamire, Dr. Warren University of Akron  
"Pollination studies of Australian territory orchids" \$2,500

1977-86

Stewart, Dr. John University of Colorado  
"Chemical taxonomy of Orchidaceae" \$3,300

1978-79

Holman, Dr. Ralph University of Minnesota  
"Orchid fragrances" \$500

McDaniel, D. West Virginia University  
"Ultraviolet photography of orchids" \$485

Murashige, Dr. Toshio University of California  
"Rapid vegetative propagation of paphiopedilums" \$6,000

1979

Walter, K. Museo National, CR  
"Listing of orchids in Costa Rica" \$500

1979-80

Arditti, Dr. Joseph University of California  
"Germinating orchid seeds" \$4,000

Garay, Dr. Leslie Harvard University  
"Publication of work on genus *Stelis*" \$800

Stermitz, F. Colorado State University  
"*Phragmipedium* alkaloids" \$2,600

Wright, L. University of California, Davis  
"Orchid propagation from mesophyll cells" \$5,954

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1979-81

Bubeck, S. Princeton University \$3,050  
"Paph. Meristem culture"

1980

Garay, Dr. Leslie Harvard University \$1,500  
"Publication of monograph on Spiranthinae"

1980-81

Brackley, F. New Hampshire National Heritage Program \$936  
"Orchids of New Hampshire"

Krell, R. Florida State University \$2,573  
"Distribution range of forms of *Calypso bulbosa*"

Todsen, Dr. Thomas New Mexico State University \$7,120  
"Distribution and habitat of orchids within the Chirripo National Park"

Zeiger, E. Stanford University \$15,000  
"Physiology and in vitro culture of guard cells and mesophyll cells"

1980-82

Sheviak, Dr. Charles Harvard University \$14,421  
"Culture of North American orchids"

Vernon, Russell Ball State University \$1,000  
"Expansion of the Wheeler orchid collection and species bank"

Wilson, Dr. Kenneth Purdue University \$5,000  
"Morphological structure and development of pollinaria"

1980-83

Kuhn, Lee Selby Botanical Garden \$6,975  
"Alternate tissue sourcing for the micropropagation of orchids"  
"Alternate tissue sourcing" \$12,520

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1981-82

Dodson, Dr. Callaway "Computerization of O.I.C."	Selby Botanical Garden	\$7,189
Hogan, K. "Study of ecology of <i>Apectrum hymenale</i> "	University of Illinois	\$325
Kabru, M. "Training as an orchidist"	University of Papua New Guinea	\$2,000
Stimart, Dr. Dennis "Preservation of cypripediums through in vitro germination"	University of Maryland	\$4,950
Zettler, Dr. F. William "Grower use of virus indexing"	University of Florida	\$6,000

1981-83

Moore, R. "Attempt to cross dendrobiums with <i>Brassavola</i> "	Baylor University	\$1,200
Stewart, Dr. Dennis "Preservation of <i>Cypripedium</i> through in vitro germination"	University of Maryland	\$4,950
Wimber, Dr. Donald "Cytological Study of Phragmipedium Species and Hybrids"	University of Oregon	\$2,695

1982-84

Lim, K. "Chromosomal studies of <i>Dendrobium</i> "	Royal Botanical Garden	\$2,000
Sagawa, Dr. Yoneo "Storage of germ plasm through culture"	University of Hawaii	\$6,000

1982-86

Yeung, Dr. E. "Reproductive biology of <i>Epidendrum ibaguense</i> in vivo and in vitro"	University of Calgary	\$16,200
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1982-88

Ballard, Dr. William "Propagating native cypripediums"	Dartmouth University	\$2,500
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1989-90

Ballard, Dr. William	Dartmouth College	
"Rearing <i>Cypripedium</i> orchids"		\$4,600
Cowden, N. and Ferdinandsen, ___.	Miami University	
"Isoenzyme and habitat characterizations of <i>Platanthera ciliaris</i> , <i>P._Blephariglottis</i> and their hybrid <i>P. x Bicolor</i> ."		\$2,282

1989-91

Beattie, Dr. Andrew	Macquarie University	
"The population genetics of contrasting orchid population systems"		\$4,500
Griesbach, Dr. Robert	United States Department of Agriculture	
"Vaughn-Jordan orchid virus project"		\$34,000

1990

Adelberg, Jeffrey	Poole Agriculture Center	
"Membrane-based orchid culture"		\$7,000
Calvo, R.	University of Miami	
"Role of pollinator in determining fruit production of <i>Oncidium variegatum</i> "		\$2,220
Dauncey, Elizabeth	University of Reading	
"Collection of <i>Dendrobium</i> Sw. in Papua New Guinea"		\$1,000
Steinhart, Dr. William	Bowdoin College	
"Molecular genetics of cymbidium mosaic virus reproduction"		\$5,575
Currah, Dr. Randolph	University of Alberta, Canada	
"Taxonomic and Ecological aspects of Orchid Mycotrophy in a Tropical Cloud Forest"		\$22,000

1990-92

O'Neill, Sharman	University of California at Davis	
"Molecular genetic regulation of orchid flower senescence"		\$36,000

1990-93

Albert, Victor A.	University of North Carolina	
"Phylogeny of the Cypripedioideae"		\$27,000

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<b><u>1991</u></b>		
Lewis, Beverley	Kew Gardens	
"Field study of Solomon Island orchids"		\$3,800
Pritchard, Dr. Hugh	Kew Gardens	
"A comparative study of seed longevity in orchids: a physiological and biographical approach"		\$22,040
<b><u>1992</u></b>		
Whitten, Dr. Mark	University of Florida	
"Chloroplast DNA Systematics of Stanhopeinae"		\$3,900
Mudge, Dr. Ken		
"Symbiotic germination and development of <i>Cypripedium</i> orchids"		\$10,450
Antlfinger, Dr. Ann	University of Nebraska	
"Contribution of the inflorescence photosynthesis to the carbon economy of the terrestrial orchid, <i>Spiranthes cernua</i> "		\$9,263
<b><u>1993</u></b>		
Christenson, Dr. Eric	New York Botanical Garden	
"An inventory of the Kraenzlin orchid herbarium"		\$1,390
Luer, Dr. Carlyle	Selby Botanical Garden	
"Inking of botanical drawings"		\$2,500
Taylor, Donald	University of California, Berkeley	
"A study of the ecology and fungal phylogenetics of orchid mycorrhizae using molecular techniques"		\$11,950
Christenson, Dr. Eric	New York Botanical Garden	
"Curation of Guianan Orchidaceae at the Royal Botanic Gardens, Kew"		\$2,000
Camper, Dwight	Clemson University	
"Growth and Reproduction of Mycorrhizal Rhizoctonias and their interaction with Orchid Embryos"		\$7,000

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<b><u>1994</u></b>		
Ackerman, Dr. James D. "Flora of the Greater Antillies"	University of Puerto Rico	\$10,000
Averyanov, Dr. Leonid V. "Exploration of Endangered Vietnamese Paphiopedilums"	Komarov Botanical Institute, Russia	\$6,400
Stich, Thomas "Symbiotic germination of <i>Platanthera grandiflora</i> , a terrestrial orchid of threatened status in the state of Maryland"	Frostburg State University	\$700
<b><u>1995-97</u></b>		
Givnish, Thomas J. "Molecular Evolution and Adaptive Radiation in <i>Platanthera</i> (Orchidaceae)"	University of Wisconsin, Madison	\$10,800
Bowen, Kira "The development of biological control strategies for control of root rot diseases on Orchids"	Auburn University	\$18,000
<b><u>1995-96</u></b>		
Wang, Dr. Yin-Tung "Regulation of flowering in <i>Phalaenopsis</i> "	Texas Agricultural Experimental Station	\$7,320
<b><u>1996-97</u></b>		
Simpson, Dr. Beryl "Evolution of <i>Dendrochilum</i> subsection <i>Eurybrachium</i> (Orchidaceae) on Mt. Kinabalu Examined in a Phylogenetic Context"	University of Texas, Austin	\$4,600
<b><u>1996-98</u></b>		
Higgins, Wesley E. "Phylogenetic Inter-generic Relationships in <i>Encyclia</i> (Orchidaceae) based upon its sequences of R DNA"	University of Florida	\$4,000
Williams, Dr. Norris H. "Molecular approaches to the Phylogeny of the Oncidiinae (Orchidaceae)"	University of Florida	\$6,150
Pridgeon, Dr. Alec M. "Molecular Phylogenetics of Pleurothallidinae (Orchidaceae)"	Royal Botanic Gardens, Kew	\$3,000
Jansen, Dr. Robert K. "Systematics of the genus <i>Calopogon</i> and the tribe Arethusae"	University of Texas, Austin	\$4,550

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1997-99

Van den Berg, Cassio	Royal Botanical Gardens, Kew	
"Molecular Phylogenetic Relationship of Laeliinae (Orchidaceae) with special emphasis on the <i>Cattleya</i> Alliance"		\$7,300
Maldonado, Mayra	University del Valle de Guatemala	
"Natural hybridization and genetic diversity among <i>Lycaste cochleata</i> , <i>L. cruenta</i> and <i>L. suaveolens</i> (Orchidaceae) in Guatemala"		\$8,600

1998-99

Averyanov, Dr. Leonid V.	Komarov Botanical Institute, Russia	
"Exploration of endangered calcium-dependent orchid flora in inaccessible rock limestone areas of Northern Vietnam"		\$7,100

1999-2000

Dillion, Dr. Michael	The Field Museum	
"Microscope for Museo de Historia Natural in Trujillo, Peru, to be used by the illustrator working on the 'Orchids of Peru'		\$6,400
Krauss, Dr. Siegfried	Kings Park and Botanic Garden	
"DNA fingerprinting in Orchids"		\$11,150

1999-2001

Peakall, Dr. Rod	Australian National University	
"Development of new genetic markers for the study of gene flow and paternity analysis in the sexually deceptive orchid genus <i>Chiloglottis</i> "		\$36,000

2000-01

Schiestl, Dr. Florian	Australian National University	
"Diversity of chemical communication systems in Australian sexually deceptive orchids"		\$15,000
Ballard Jr., Dr. Harvey E.	Ohio University	
"Genetic diversity and microsite characterization of the rare monkey face orchid <i>Plantanthera integrilabia</i> in Southeastern United States"		\$2,000
Woodward, Catherine L.	CEIBA Foundation	
"Orchid conservation program of El Pahuma Orchid Reserve, Ecuador"		\$10,985

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2001-02

Dixon, Dr. Kingsley and Krauss, Dr. Siegy Kings Park and Botanic Garden  
"Genetic specificity of native terrestrial orchids and their endophytic fungi using DNA fingerprinting: essential information for the restoration of orchids in urban bushland remnants" \$11,900

Averyanov, Dr. Leonid V. Komarov Botanical Institute, Russia  
"Population studies of endemic *Paphiopedilum* species in Northern Vietnam" \$6,600

Packer, Dr. Laurence York University  
"Conservation genetics of orchid bees" \$2,500

2002-03

Alvarez, Aida New York Botanical Garden  
"Phylogeny of Prescottiinae and Systematics of *Gomphichis* Lindl. (Orchidaceae)" \$3,500

2002-04

Williams, Dr. Norris H. University of Florida  
"What is *Oncidium*? Phylogenetics as a prelude to a revised classification of *Oncidium* and related genera" \$10,802

Gowland, Kellie Maria Australian National University  
"Can Orchids communicate? Host and fungal specificity amongst Australian epiphytic orchids" \$13,832

2003-04

Vitt, Patti Chicago Botanic Garden  
"The effects of hand pollination on growth, survival and reproduction in *Plantanthera leucophaea* and *P. praeclara*" \$7,500

Averyanov, Dr. Leonid V. Komarov Botanical Institute, Russia  
"Discovery of endemic orchid flora in remote limestone areas of Northern Vietnam" \$7,600

Dueck, Lucy University of Georgia  
"Molecular Phylogeny of North American *Spiranthes* Orchids" \$6,450

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2003-05

Schulman, Joanna

University of Texas, Austin

"Phylogenetic reconstruction of the genus *Phalaenopsis* (Orchidaceae) using chloroplast and nuclear markers"

\$11,158

2004-05

Kennedy, Aaron H.

Miami University, Ohio

"Phylogeny, evolution and mycorrhizal specificity in the myco-heterotrophic orchid genus *Hexalectris* Raf. (Orchidaceae)

\$7,422