

CURRICULUM VITAE

Christopher A. Clark

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Education:

Doctor of Philosophy, Cornell University, May 1976
Major - Plant Pathology, Advisor - Dr. J. W. Lorbeer
Minors - Soil Microbiology, Advisor - Dr. Martin Alexander
Plant Physiology, Advisor - Dr. H. B. Tukey, Jr.
Thesis title - "Histopathology and Leaf Surface Relationships of Botrytis squamosa
and B. cinerea on Onion"

Master of Science, Cornell University, January, 1973
Major - Plant Pathology, Advisor - Dr. J. W. Lorbeer
Minor - Soil Microbiology
Thesis title - "The Botrytis Brown Stain Disease of Onion (Allium cepa L.) Caused
by Botrytis cinerea Pers."

Bachelor of Science, Cornell University, June, 1970.
Major - General Agriculture, Advisor - Dr. C.W. Boothroyd

Professional Experience:

Professor - 1987 to present. Presently 86% research, 14% teaching appointment.

Associate Professor - 1981-1987. Assumed 10% teaching appointment and responsibility in the
area of phytobacteriology in 1986.

Assistant Professor - 1977-1981, Department of Plant Pathology & Crop Physiology, Louisiana
State University, Baton Rouge, LA. Full time research appointment in the Louisiana
Agricultural Experiment Station to conduct research on diseases of sweetpotato.

Postdoctoral Research Associate, Department of Plant Pathology, North Carolina State
University, Raleigh, NC. Conducted research on the etiology and control of seedling and
nematode diseases of cotton and on the interaction of soil-borne fungi and nematodes on
cotton. (1976 to 1977)

Undergraduate Research Assistant, Department of Plant Pathology, New York State Agricultural Experiment Station, Geneva, NY. Assisted Dr. J. J. Natti in research on diseases of snap beans, dry beans, and crucifers. (Summers, 1966 to 1969)

Teaching:

Plant Health 7011 - Phytobacteriology. Graduate level course on plant pathogenic bacteria. (1987 - 5 students, 1989 - 6 students, 1991 - 9 students, 1993 - 7 students, 1995 - 5 students, 1997 - 6 students, 2001 - 7 students, 2005 - 3 students).

Plant Health 4000 - General Plant Pathology. I taught one lab on bacterial plant diseases annually from 1989 to 1999. Taught the undergraduate level course in general plant pathology at LSU during the Fall semester, 1979 in place of M. C. Rush who was on sabbatic leave. Enrollment was 25 students.

Plant Health 4012 and 4013 - Diseases of Horticultural Crops and Diseases of Agronomic Crops and PLHL 4014 - Diseases of Economic Crops. Taught sections on diseases of sweet potatoes.

Plant Health 7003 - Disease Diagnosis and Control Practices. Taught a lecture and lab on bacterial disease diagnosis.

Plant Pathology 7052 - Seminar. Coordinated the departmental seminar, Spring 1980 and 1981, Fall 1998, and Spring 2003.

Plant Pathology 7051 - Current Topics in Plant Pathology. Developed and taught a course on general plant pathology for graduate students who had completed Plant Pathology 4000 or the equivalent. The course was taught in the Spring of 1979 and had an enrollment of 6 plant pathology graduate students.

Veterinary Microbiology and Parasitology 7404 - Pathogenic Mechanisms of Bacteria. Presented a guest lecture on Pathogenic Mechanisms of Plant Pathogenic Bacteria, Spring, 1990.

Plant Pathology Journal Club - organized with other faculty and graduate students an informal group discussion of current research and review articles in plant pathology.

Teaching Assistant - Plant Pathology 301, Introductory Plant Pathology, Cornell University, Spring, 1971. Professor-in-charge - Dr. C. W. Boothroyd

Extramural Funding Obtained:

USDA, SEA Competitive Grant No. 5901-0410-8-1267-0, "Induction and Inheritance of Furanoterpenoid Accumulation in Sweet Potatoes". The sum of \$50,000 was granted to C. A. Clark and T. P. Hernandez for two years beginning November 1, 1978.

USDA Contract No. 12-14-7001-1155, "Integrated Pest Management Approach to the Sweet Potato Breeding Program". The sum of \$65,000 was allocated to L. Rolston, C. A. Clark, and T. P. Hernandez for two years beginning April 1, 1979.

USDA Specific Cooperative Agreement 58-43YK-7-0018, "Evaluation of Sweet Potato Germplasm for Storage Rot and Soil Rot Resistance". The sum of \$71,810 was granted for the period 1987-1989.

Louisiana State University College of Agriculture, Research Initiation Grant, "Etiology of Sweet Potato Chlorotic Leaf Distortion and Sweet Potato Chlorotic Little Leaf", The amount of \$10,000 was granted to C. A. Clark for 1984-1985.

Louisiana Sweet Potato Advertising and Development Commission has supported the sweet potato disease research program annually since 1978. Support for that period varied from \$3,800 to 14,000 per year (total for 1977 to 2005 = \$224,410).

The Louisiana Soybean and Grain Research and Promotion Board contributed \$20,000 during 1987-88 for research on delayed maturity of soybeans.

The Louisiana Soybean and Grain Research and Promotion Board has contributed \$40,500 to S. A. Harrison (Agronomy), C. A. Clark, J. S. Russin, and P. D. Colyer (Red River Station) during 1989-94 for research on bacterial leaf streak of wheat.

A grant of \$5,000 was made by the International Potato Center in 1988 and a three-year grant of \$25,000 was initiated in 1989 for research on sweet potato chlorotic leaf distortion by C. A. Clark, D. R. La Bonte, and R. A. Valverde. A second three-year contract was awarded in 1992 for \$30,000.

The USDA, ARS Germplasm program funded the proposal: "Evaluation of the United States Plant Introduction Collection for Reaction to the Reniform Nematode, *Rotylenchulus reniformis*", by D. R. La Bonte, G. W. Lawrence, and C. A. Clark. The amount of \$9,000 for FY 1993 was awarded.

The USDA Foreign Agricultural Service, International Cooperation and Development, Research and Scientific Exchanges Division funded a proposal for an exchange team visit to the

People's Republic of China by D. R. La Bonte, C. A. Clark, J. M. Cannon, M. M. Norton, and P. W. Wilson entitled "Sweetpotato Pest Detection and Screening, Biotechnology, Breeding Methodology, Germplasm, Cultural Practices and Developing Collaborative Research with the People's Republic of China". The Chinese Ministry of Agriculture paid travel expenses within China of approximately \$4,000 per person.

USDA, ARS Research Agreement No. 58-6607-8-008, for Germplasm Evaluation was funded for \$7,800 for two years. It was entitled: "Evaluation of Resistance in Sweetpotato (*Ipomoea batatas*) to races of the Fusarium wilt pathogens *Fusarium oxysporum* ff. sp. *batatas* and *nicotianae*".

USDA, APHIS Grant Award No. 99-8100-0514-GR, by C. A. Clark, R. A. Valverde, J. W. Moyer, and R. L. Jarret entitled: "Proposal to Survey Sweetpotatoes in the United States for the Presence of Viruses" was funded in the amount of \$9,758 for calendar year 1999. It was refunded for \$14,319 in 2000 and again in 2001.

The International Potato Center provided \$16,500 to C. A. Clark and R. A. Valverde under a Memorandum of Understanding; "Identification of Major Potyviruses in Sweetpotato in Peru and Louisiana" for 2001.

Cooperative Agreement No. 58-6402-4-031 with USDA, ARS, Southern Insect Management Research Unit, Stoneville, MS: "Survey for Viruses in Sweetpotatoes and Wild Related Species and for Field Resistance to Viruses in Sweetpotato Breeding Lines" provided \$24,000 for the period March, 2004 to March, 2005 and \$7,805 for the period March, 2005 to March, 2006.

USDA, CSREES, RAMP Grant Award No. 370831201-02106 provided \$2,000,000 for the period 2003-2007 to a multi-state, multi-disciplinary team led by George C. Kennedy, North Carolina State University for a project entitled: "Development of Grower Decision-making Tools to Reduce Risk and Enhance Sustainability of Southern Sweetpotato Pest Management Systems". C. A. Clark was PI for the LSU AgCenter contract totalling \$394,575, with A. Hammond and R. Story as co-PIs.

Royalties received for virus-tested sweetpotatoes from Kleentek/Thermo Trilogly (now Certis, USA): 2001 = \$4,000; 2002 = \$5,080, 2003 = \$4,000, 2004 = \$1,925.

Chemical company grants for the period 1979 to 1999 totaled \$25,400.

Honorary Society Memberships:

Member - Phi Kappa Phi, Gamma Sigma Delta

Associate member - Sigma Xi

Professional Affiliations:

The American Phytopathological Society
International Society for Horticultural Science

Awards:

"Mr. Yam" of the Grand Louisiana Sweet Potato Festival, 1990
Distinguished Service Award presented by the Louisiana Sweet Potato Association,
January, 1997
"King" of the Grand Louisiana Sweet Potato Festival, 2001
Tiptin Team Research Award to the Sweetpotato Team by the LSU AgCenter, 2002

International Symposium Participation:

September, 1975, presented a paper on; "Development of *Botrytis squamosa* and *B. cinerea* on the surface of onion leaves as affected by exogenous nutrients and epiphytic bacteria" in an international symposium at Leeds University, Leeds, UK, entitled "Advances in the Microbiology of the Aerial Surfaces of Plants".

February, 1987, presented a paper entitled; "Principal Fungal and Bacterial Diseases of Sweet Potatoes and Their Control" at the Planning Conference on Exploration, Maintenance and Utilization of Sweet Potato Genetic Resources sponsored by the Centro Internacional de la Papa in Lima, Peru.

June, 1991, presented a paper entitled; "Disease Factors in Breeding and Biotechnology of Sweetpotato" in an International symposium at Tuskegee University entitled: "Sweetpotato Technology for the 21st Century".

September-October, 1995, part of a five-person group from LAES that was funded by USDA, OICD for "Scientific Exchange on Sweetpotato Pest Detection and Screening, Biotechnology, Breeding Methodology, Germplasm, Cultural Practices, and Developing Collaborative Research with the People's Republic of China". Presentations were made at: Beijing Agricultural University, Xuzhou Sweetpotato Research Center, Jiangsu Academy of Agricultural Sciences, Zhejiang Agricultural University, and the Guangdong Academy of Agricultural Sciences.

December, 1997, presented a paper entitled; "Prospects and Problems in Managing Sweetpotato

Diseases” in the International Workshop on Sweetpotato Production System toward the 21st Century held at Miyakonojo, Japan.

September, 2000, helped organize and made two presentations at an International Workshop on Sweetpotato Cultivar Decline Study in Miyakonojo, Japan.

November, 2001, gave a keynote presentation: “Research for Improved Management of Sweetpotato Pests and Diseases: Cultivar Decline and Postharvest Losses” at an international symposium on “Sweetpotato: Food and Health for the Future”, co-sponsored by the International Potato Center, the International Society for Horticultural Science and Universidad Nacional Agraria La Molina, held in Lima, Peru.

Professional Services:

Scientific peer review, competitive grant proposals for:

National Science Foundation

Binational Agricultural Research and Development Fund

USDA, SEA and NRI, Competitive Grants Office

USDA, Small Business Initiative

USDA Blue Ribbon Panel to evaluate research on the Florida nursery strain of *Xanthomonas campestris* pv. *citri* - Gainesville, FL, March 1988.

USDA, ARS Review team member, review of S-9 Southern Regional Plant Introduction Station Program, April, 1992.

American Phytopathological Society -

Soil Microbiology and Root Diseases Committee (1980-1982)

Associate Editor, Phytopathology (1982-1984)

Plant Nematology Committee (1982-1986)

Vice-chairman, 1984 and Chairman, 1985

Associate Editor, Plant Disease (1986-1988)

Senior Editor, Plant Disease (1989-1991)

Southern Division, chairman, Archives Committee (2002-present)

Southern Division, vice president, 2006

Society of Nematologists -

Placement Committee (1983)

National Sweet Potato Collaborators

Chairman-elect - 1991, Chairman - 1992

Disease, Insect, and Genetics Committee -

Vice Chairman (1981-1983), Chairman (1983-1985)

Nominations Committee - Chairman, 1982

Planning Committee for "50 Years of Progress" publication.

USDA Sweet Potato Crop Advisory Committee (1984-)

Chairman - 1994-1997.

Review team member to review USDA, NPGL-QU sweetpotato quarantine program.

Secretary, Louisiana Association of Plant Pathologists and Nematologists. (1978-1979)
Louisiana State University

Faculty Senate Library Committee - member 1995-1998, chairman 1997-1998

Distinguished Dissertation Review Committee, Sciences and Engineering - 1996

Louisiana State University, Agricultural Center

Sweetpotato Research Advisory Committee, Chairman 1990-1996.

LAES Strategic Planning, Focus 2000 - Goal 1 Commodity Committee - "Vegetables, Sweetpotatoes, Potatoes, Ornamentals, and Turf".

College of Agriculture Faculty Policy Committee (1983-1985), Secretary (1984-1985)

Agricultural Engineering Department Head Search Committee (1984)

Editorial Board, Louisiana Agriculture (1988-1990)

College of Agriculture Promotion and Tenure Committee (1989-1991)

LAES Research Priority Committee (2004)

LSU AgCenter Promotion and Tenure Committee (2004, 2005)

Plant Pathology and Crop Physiology Department

Faculty Advisor, LSU Plant Sciences Graduate Student Organization. (1977-1979)

Student Admissions and Standards Committee, 1983-84

Promotion and Tenure Committee, 1984-86, 1988-1991, 1994-1996, Chairman, 1990.

Department Publications Coordinator, 1984-1986

Co-chairman, 1985 CSRS Review Document Committee

Chairman, Department Standing Committee on Research, 1985-1986

Member, Department Advisory Committee, 1985-1986

Member, Student Standards Committee, 1990-2001, Chairman 1994-2001

Member of the following search committees:

Department Head, 1983

Soil Microbiologist, 1984

Weed Scientist, 1984

Biotechnologist III, 1985

Virologist, 1987

Department Head, 1990

Chairman, Department committee on space reallocation (1988,1989)

Member, seminar committee, 1993-94, 1998-99.

Department Strategic Planning Committee, Chairman 2001-2002

Courses and Curriculum Committee member (2004-2006)

Graduate Students:

Major advisor for 7 PhD recipients and 5 Masters recipients.
Committee member for 24 PhD and 19 Masters recipients.

Seminars and Invited Presentations :

Annually - research presentation to the Louisiana Sweet Potato Association, research/extension presentation to the St. Landry Parish Sweet Potato Production meeting.
August, 2005 - "Sweetpotato Diseases" - National Crop Insurance Society, sweetpotato adjusters
January, 2004 - "Sweetpotato Virus Research Plans" - National Sweetpotato Council
April, 2002 - "Sweetpotato Viruses in the Southeast" - Southern Plant Board
February, 2000 - "Sweetpotato Diseases" - Alabama Sweet Potato Association.
January, 1999 - "Sweetpotato Disease Research" - 37th Annual Meeting of the Sweet Potato Council of the United States, Inc.
February, 1999 - "Virus-tested Sweetpotato Production" - Louisiana Dept. Agric. For., Inspectors Training Session.
April, 1998 - "Sweetpotato Disease Identification and Management" - Extension Agents Training Meeting.
January, 1991 - "Biology and Control of *Streptomyces ipomoea* in Louisiana" - National Sweetpotato Collaborators annual meeting.
January, 1991 - "Bacterial Soft Rot in Sweetpotatoes - A Potential Problem" - 54th Annual Meeting, Louisiana Sweetpotato Association.
January, 1990 - "Sweetpotato Chlorotic Leaf Distortion/*Fusarium lateritium*, A Novel Plant/Fungus Interaction?" - Dept. Plant Pathology & Crop Physiology, LSU
February, 1989 - "Research on Soybean Delayed Maturity" - CENLA Soybean Agent Training Meeting, Opelousas, LA.
July, 1988 - Quarantine Programs - Sweetpotato - USDA Crop Advisory Committee Chairs Meeting, Beltsville, MD.
February, 1988 - "Update on Research Involving the Green Bean Problem (Delayed Maturity of Soybeans)" - Soybean Agent Training Meeting, West Monroe, LA.
April, 1985 - "Sweet Potato Diseases" - Dept. Plant Pathology, Cornell University
April, 1985 - "Sweet Potato Viruses" - Dept. Plant Pathology, New York State Agricultural Experiment Station, Geneva
March, 1984 - "Sweet Potato Viruses" - Dept. Horticulture, LSU
January, 1984 - "Sweet Potato Disease Control" - Alabama Sweet Potato Association
September, 1983 - "Sweet Potato Viruses" - Dept. Plant Pathology & Crop Physiology, LSU

PUBLICATIONS

I. Books

Clark, C. A., and Moyer, J. W. 1988. Compendium of Sweet Potato Diseases. APS Press, St. Paul, MN. 74 pp.

II. Book and Proceedings Chapters

Clark, C. A., and J. W. Lorbeer. 1976. Development of *Botrytis squamosa* and *B. cinerea* on the surface of onion leaves as affected by exogenous nutrients and epiphytic bacteria. In: (C. H. Dickinson & T. F. Preece, eds.), "Microbiology of Aerial Plant Surfaces." Academic Press, London. pp. 607-625.

Hammett, H. L., Hernandez, T. P., Martin, W. J., and Clark, C. A. 1982. Breeding sweet potato for disease resistance. In: (R. L. Villareal, ed.) Sweet Potato, Proceedings of the First International Symposium. Asian Vegetable Research and Development Center. pp. 321-329.

Clark, C. A. 1988. Principal bacterial and fungal diseases of sweet potato and their control. pp. 275-289, in; Exploration, Maintenance, and Utilization of Sweet Potato Genetic Resources. Centro Internacional de la Papa, Lima, Peru. 369 pp.

Clark, C. A., Moyer, J. W., and Dukes, P. D. 1992. Diseases. Pages 88-105 in: Jones, A., and Bouwkamp, J. C., eds., Fifty Years of Collaborative Sweet Potato Research, 1939-1989. Southern Cooperative Series, Bull. No. 369.

Clark, C. A. 1992. Postharvest diseases of sweet potatoes and their control. Postharvest News and Information 3:75N-79N.

Clark, C. A., and La Bonte, D. R. 1992. Disease factors in breeding and biotechnology for sweetpotato. Pages 484-494, in: Hill, W. A., Bonsi, C. K., and Loretan, P. A., Eds., Proceedings of an International Symposium on Sweetpotato Technology for the 21st Century. Tuskegee, AL, June 2-6, 1991.

Clark, C. A. 1998. Prospects and problems in managing sweetpotato diseases. Pages 323-333 in: Proc., Internat. Workshop on Sweetpotato Production System toward the 21st Century, Dec. 9-10, 1997, Miyakonojo, Miyazaki, Japan.

Clark, Christopher. 2000. Sweetpotato black rot. Pages 992-992 in: Maloy, O. C., and Murray, T. D., eds. Encyclopedia of Plant Pathology. John Wiley & Sons, Inc.

- Loria, R., Clark, C. A., Bukhalid, R. A., and Fry, B. A. 2001. III. Gram-positive bacteria. B. *Streptomyces*. Pages 236-249 in: Schaad, N. W., Jones, J. B., and Chun, W., eds. Laboratory Guide for Identification of Plant Pathogenic Bacteria, 3rd Edition. APS Press, The American Phytopathological Society, St. Paul, MN.
- Clark, C. A., and Valverde, R. A. 2001. Viruses and sweetpotato cultivar decline in Louisiana, USA. Pages 62-69 in; Nakazawa, Y., and Ishiguro, K., eds. International Workshop on Sweetpotato Cultivar Decline Study, Proceedings, Kyushu National Agricultural Experiment Station, Miyakonjo, Japan.
- Valverde, R. A., Lotrakul, P., and Clark, C. A. 2001. Properties and variability of Sweetpotato leaf curl virus. Pages 82-84, in; Nakazawa, Y., and Ishiguro, K., eds. International Workshop on Sweetpotato Cultivar Decline Study, Proceedings, Kyushu National Agricultural Experiment Station, Miyakonjo, Japan.
- Clark, C. A., Hoy, M. W., Valverde, R. A., La Bonte, D. R., and Cannon, J. M. 2002. Effects of viruses on sweetpotatoes in Louisiana, USA. Pages 238-241 in; Nakatani, M., and Komaki, K., eds. Potential of Root Crops for Food and Industrial Resources, Proc. Twelfth Symp. Internat. Soc. Trop. Root Crops, Sept. 10-16, 2000, Tuskuba, Japan.
- Clark, C. A., Valverde, R. A., Fuentes, S., Salazar, L. F., and Moyer, J. W. 2002. Research for improved management of sweetpotato pests and diseases: Cultivar decline. Pages 103-112 in; Ames, T., ed. Proc. 1st Internat. Symp. on Sweetpotato, Acta Hort. 583.
- Lotrakul, P., Valverde, R. A., Clark, C. A., Hurtt, S., and Hoy, M. W. 2002. Sweetpotato leaf curl virus and related geminiviruses in sweetpotato. Pages 135-141 in; Ames, T., ed. Proc. 1st Internat. Symp. on Sweetpotato, Acta Hort. 583.
- Valverde, R. A., Clark, C. A., Kokkinos, C. D., and Gutierrez, D. L. 2006. Molecular methods for diagnosis of sweet potato viral diseases. Pages xx-xx in; Molecular Diagnosis of Plant Viruses, Govin P. Rao, editor, Studium Press, LLC, Houston, TX. In press.

III. In Refereed Journals

- Clark, C. A., and J. W. Lorbeer. 1973. Symptomatology, etiology, and histopathology of Botrytis brown stain of onion. Phytopathology 63: 1231-1235.
- Clark, C. A., and J. W. Lorbeer. 1975. The role of phenols in Botrytis brown stain of onion. Phytopathology 65: 338-341.
- Clark, C. A., and J. W. Lorbeer. 1976. Comparative histopathology of *Botrytis squamosa* and

- B. cinerea* on onion leaves. *Phytopathology* 66: 1279-1289.
- Clark, C. A., and J. W. Lorbeer. 1977. The role of phyllosphere bacteria in pathogenesis by *Botrytis squamosa* and *B. cinerea* on onion leaves. *Phytopathology* 67: 96-100.
- Clark, C. A., and J. W. Lorbeer. 1977. Comparative nutrient dependency of *Botrytis squamosa* and *B. cinerea* for germination of conidia and pathogenicity on onion leaves. *Phytopathology* 67: 212-218.
- Clark, C. A., J. N. Sasser, and K. R. Barker. 1978. Elutriation procedures for quantitative assay of soils for *Rhizoctonia solani*. *Phytopathology* 68: 1234-1236.
- Clark, C. A. 1980. End rot, surface rot, and stem lesions caused on sweet potato by *Fusarium solani*. *Phytopathology* 70:109-112.
- Clark, C. A., and A. Lawrence. 1981. Morphology of spore-bearing structures in *Streptomyces ipomoea*. *Can. J. Microbiol.* 27:575-579.
- Clark, C. A., A. Lawrence, and F. A. Martin. 1981. Accumulation of furanoterpenoids in sweet potato tissue following inoculation with different pathogens. *Phytopathology* 71:708-711.
- Clark, C. A. and V. L. Wright. 1983. Effect and reproduction of *Rotylenchulus reniformis* on sweetpotato selections. *J. Nematol.* 15: 197-203.
- Thomas, R. J. and C. A. Clark. 1983. Population dynamics of *Meloidogyne incognita* and *Rotylenchulus reniformis* alone and in combination, and their effects on sweetpotato. *J. Nematol.* 15: 204-211.
- Thomas, R. J. and C. A. Clark. 1983. Effects of concomitant development on reproduction of *Meloidogyne incognita* and *Rotylenchulus reniformis* on sweetpotato. *J. Nematol.* 15:215-221.
- Clark, C. A. and B. Watson. 1983. Susceptibility of weed species of Convolvulaceae to root-infecting pathogens of sweet potato. *Plant Disease* 67: 907-909.
- Derrick, K. S., R. C. French, C. A. Clark, and C. J. Gabriel. 1984. Detection of double-stranded RNA by serologically specific electron microscopy. *J. Virological Methods* 9:293-299.
- Lawrence, G. W., C. A. Clark, and V. L. Wright. 1986. Influence of *Meloidogyne incognita*

on resistant and susceptible sweet potato cultivars. *J. Nematol.* 18:59-65.

- Lawrence, G. W., and Clark, C. A. 1986. Infection and morphological development of *Meloidogyne incognita* in roots of susceptible and resistant sweet potato cultivars. *Plant Disease* 70:545-547.
- Clark, C. A., Randle, W. M., and Pace, C. S. 1986. Reactions of sweet potato selections to Fusarium root and stem canker caused by *Fusarium solani*. *Plant Disease* 70:869-871.
- Clark, C. A., Derrick, K. S., Pace, C. S., and Watson, B. 1986. A survey of wild *Ipomoea* spp. as potential reservoirs of sweet potato feathery mottle virus in Louisiana. *Plant Disease* 70:931-932.
- Clark, C. A., and Matthews, S. W. 1987. Histopathology of sweet potato root infection by *Streptomyces ipomoea*. *Phytopathology* 77:1418-1423.
- Rolston, L. H., Clark, C. A., Cannon, J. M., Randle, W. M., Riley, E. G., Wilson, P. W., and Robbins, M. L. 1987. 'Beauregard' sweet potato. *HortScience* 22:1338-1339.
- Lo, J-Y., and Clark, C. A. 1988. Sources of inoculum and infection courts of *Diplodia gossypina* on sweet potato. *Phytopathology* 78:1442-1446.
- Clark, C. A. 1989. Influence of volatiles from healthy and decaying sweet potato storage roots on sclerotial germination and hyphal growth of *Sclerotium rolfsii*. *Can. J. Bot.* 67:53-57.
- Clark, C. A., Wilder-Ayers, J. A., and Duarte, V. 1989. Resistance of sweet potato to bacterial root and stem rot caused by *Erwinia chrysanthemi*. *Plant Dis.* 73:984-987.
- Valverde, R. A., Provvidenti, R., and Clark, C. A. 1990. Cucumber mosaic virus and desmodium yellow mottle virus infections in wild groundnut (*Apios americana*). *Plant Dis.* 74:151-153.
- Clark, C. A., Valverde, R. A., Wilder-Ayers, J. A., and Nelson, P. E. 1990. *Fusarium lateritium*, causal agent of sweetpotato chlorotic leaf distortion. *Phytopathology* 80:741-744.
- Duarte, V., and Clark, C. A. 1992. Presence on sweetpotato through the growing season of *Erwinia chrysanthemi*, cause of stem and root rot. *Plant Dis.* 76:67-71.

- Clark, C. A. 1992. Histological evidence that *Fusarium lateritium* is an exopathogen on sweetpotato with chlorotic leaf distortion. *Phytopathology* 82:656-663.
- La Bonte, D. R., Mulkey, W. A., Clark, C. A., Rolston, L. H., Cannon, J. M., Wilson, P. W., and St. Amand, P. C. 1992. 'Hernandez' sweetpotato. *HortScience* 27:377.
- Duarte V., and Clark, C. A. 1993. Interaction of *Erwinia chrysanthemi* and *Fusarium solani* on sweetpotato. *Plant Dis.* 77:733-735.
- Clark, C. A. 1994. The chlorotic leaf distortion pathogen, *Fusarium lateritium*, cross protects sweetpotato against Fusarium wilt caused by *Fusarium oxysporum* f. sp. *batatas*. *Biological Control* 4:59-66.
- Clark, C. A., and Hoy, M. W. 1994. Isolation of *Fusarium lateritium* from sweetpotato seed. *Plant Disease* 78:585-587.
- Rolston, L. H., La Bonte, D. R., Mulkey, W. A., Clark, C. A., Cannon, J. M., and Wilson, P. W. 1994. L86-33 sweetpotato germplasm. *HortScience* 29:712.
- Clark, C. A., and Hoy, M. W. 1994. Identification of resistance in sweetpotato to Rhizopus soft rot using two inoculation methods. *Plant Dis.* 78:1078-1082.
- Dangler, J. M., Scheuerman, R. W., Campbell, R. N., and Clark, C. A. 1994. Meristem-tip culture and California's clean foundation sweetpotato program. *HortTechnology* 4:227-228.
- Rolston, L. H., La Bonte, D. R., Mulkey, W. A., Clark, C. A., Cannon, J. M., and Wilson, P. W. 1995. 'Darby' sweetpotato. *HortScience* 30:398-399.
- Clark, C. A., Hoy, M. W., and Nelson, P. E. 1995. Variation among isolates of *Fusarium lateritium* from sweetpotato for pathogenicity and vegetative compatibility. *Phytopathology* 85:624-629.
- Nelson, P. E., Juba, J. H., and Clark, C. A. 1995. An unusual strain of *Fusarium lateritium* affecting sweetpotato. *Mycologia* 87:507-509.
- Tillman, B. L., Harrison, S. A., Russin, J. S., and Clark, C. A. 1996. Relationship between the black chaff and bacterial streak symptoms caused by *Xanthomonas campestris* pv. *translucens* in winter wheat. *Crop Sci.* 36:74-78.
- Kim, B. K., La Bonte, D. R., and Clark, C. A. 1996. Studies on sweetpotato with

chlorotic leaf distortion, caused by *Fusarium lateritium*. Internat. J. Pest Management 42:67-70.

- Kim, B. K., La Bonte, D. R., Clark, C. A., and Buteler, M. I. 1996. Heritability estimates for resistance reaction to sweetpotato chlorotic leaf distortion caused by *Fusarium lateritium*. HortScience 31:433-435.
- Tillman, B. L., Harrison, S. A., Clark, C. A., Milus, E. A., and Russin, J. S. 1996. Evaluation of bread wheat germplasm for resistance to bacterial streak. Crop Sci. 36:1063-1068.
- Buffone, F. A., La Bonte, D. R., and Clark, C. A. 1996. Random amplified polymorphic DNA markers in sweetpotato infected with *Fusarium lateritium*. HortScience 31:1215-1216.
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Other Research/Service Accomplishments

Sweetpotato Cultivars - participated on the team that developed and evaluated the following sweetpotato cultivars and breeding lines that have been released by LAES. These all were screened for resistance to multiple diseases including *Streptomyces* soil rot, *Fusarium* wilt, internal cork, root-knot nematode, bacterial root and stem rot, *Fusarium* root rot, and others. The LAES program has been the primary source of resistance to *Streptomyces* soil rot.

1980 - Travis (L74-62) - grown on limited acreage in LA for several years

1981 - Eureka (L74-131) - grown on limited acreage in CA for several years

1987 - Beauregard (L82-508) - grown on approx. 80% of US acreage since 1990, also grown in Australia, New Zealand, and Peru

1992 - Hernandez (L82-66) - grown on approx. 5-10% of US acreage since 1995, mostly in NC

1994 - L86-33 - used as a source of multiple disease and pest resistance in U.S. and international breeding programs

1995 - Darby (L87-59) - not grown commercially to any significant extent

2001 - L96-117 - patent application submitted, may be licensed for use in baby food

2002 - Bienville (L94-96)

Foundation Seed Program - based primarily on research results of the team of researchers in LAES (Plant Pathology & Crop Physiology, Sweet Potato Research Station, Horticulture, and Entomology), the decision was made to convert the Louisiana Sweetpotato Foundation Seed Program at Chase, LA in 1999 to exclusive production of 'virus-tested' seed. We have processed approximately 50 different sweetpotato cultivars, breeding lines, and clones through the process of meristem-tip culture and virus indexing and maintain by nodal propagation in tissue culture the resulting 'virus-tested' plantlets of each. Currently, we provide starting material of the primary mericlones of Beauregard and Hernandez to KleenTek for micropropagation. KleenTek in turn sells micropropagated, virus-tested tissue cultures to the foundation seed programs in Louisiana, Mississippi, and Alabama. We micropropagate all other genotypes grown at Chase, which in 2002 includes 21 additional mericlones of Beauregard, approximately a half dozen mericlones each of L96-117, Bienville, O'Henry, and Texas Porto Rico, and individual mericlones of about a dozen other genotypes.