

CURRICULUM VITAE

Daniel Frederick Klessig

Boyce Thompson Institute for Plant Research – Professor, past President and CEO
Cornell University – Adjunct Professor in Department of Plant Pathology and Plant-Microbe Biology
Tower Road
Ithaca, NY 14853
(607) 254-4560

Education:	B.S.	1971	Biochemistry (Summa cum laude) University of Wisconsin Madison, Wisconsin
	Honours B.Sc.	1973	Molecular Biology (1st Class) University of Edinburgh Edinburgh, Scotland, UK
	Ph.D.	1978	Biochemistry and Molecular Biology Harvard University Cambridge, Massachusetts
Research Training:	1970-1971		Undergraduate work with Professor J. E. Dahlberg. Senior Thesis entitled, "Development of improved methods in RNA sequencing". University of Wisconsin, Department of Physiological Chemistry.
	1971-1973		Student research projects in the MRC Molecular Genetic Unit at Edinburgh University.
	1974-1977		Graduate work with Drs. J. D. Watson and R. Gesteland. Ph.D. Thesis entitled, "Control of gene expression in human adenovirus serotype 2." Cold Spring Harbor (CSH) Laboratory.
	1978		Postdoctoral work with Dr. J. Sambrook, CSH Lab.
Professional Positions Held:			Staff Scientist, 1979-1980, Cold Spring Harbor Laboratory Assistant Professor, 1980-1983, Department of Cellular, Viral and Molecular Biology, University of Utah Associate Professor, 1983-1985, Department of Cellular, Viral and Molecular Biology, University of Utah Professor, 1985-1991, Waksman Institute, Rutgers University Professor II, 1991-2000, Waksman Institute, Rutgers University Associate Director, 1985-2000, Waksman Institute, Rutgers University President & CEO, 2000-2004, Boyce Thompson Institute for Plant Research Adjunct Professor, 2000-present, Department of Plant Pathology and Plant- Microbe Biology, Cornell University Professor, 2004-present, Boyce Thompson Institute for Plant Research
Awards/Honors:			Phi Kappa Phi, Alpha Zeta, Phi Lambda Upsilon and Gamma Sigma Delta Honorary Fraternities Danforth Leadership Scholarship, 1968 Marshall Scholar to the United Kingdom, 1971-1973 Searle Scholar, 1982-1985 McKnight Scholar, 1983-1986

Faculty Research Award from American Cancer Society, 1984-1988
Japan Society for Promotion of Science Fellow, 1997
Fellow of the American Academy of Microbiology, 2001
Noel T. Keen Award for Research Excellence in Molecular Plant
Pathology, 2011
Fellow of the American Association for Advancement of Science, 2012

Member: American Association for the Advancement of Science
American Society of Plant Biologists (Physiologists)
International Society for Plant Molecular Biology
International Society for Molecular Plant-Microbe Interaction
American Phytopathological Society
American Society for Microbiology

Editorial Boards: Plant Signaling and Behavior, 2005- 2012
Molecular Plant Pathology, 2000- 2005
Virology, 1985-1998
Plant Physiology, 1996-1997
Journal of Virology, 1989-1995
Molecular and Cellular Biology, 1987-1994
Virus Research, 1983-1989
Journal of Molecular and Applied Genetics, 1981-1984

Teaching: 1973-1974, Head Teaching Fellow for a course in introductory biology, Harvard
University
1981, Course on mRNA metabolism in eukaryotes for graduate students – Univ. of
Utah
1982-1985, Course on gene regulation in prokaryotes and eukaryotes and an
introduction to animal viruses for medical students – Univ. of Utah
1983, Plant molecular biology mini-course, organized together with Raymond
Gesteland – Univ. of Utah
1991 and 1992, Organizer of Cold Spring Harbor Lab course on Molecular and
Developmental Biology of Plants
1986-1994, Director, advanced recombinant DNA techniques course for graduate
students – Rutgers University
1993-2000, Biochemistry and Molecular Biology course for undergraduate and
graduate students – Rutgers University
2008, Current Papers in Plant Biology
2004-present, Problems in Plant Cell & Mol. Biol.

Grants: (Current grants are highlighted)

Institute-wide grants obtained for BTI:

“Molecular and Chemical Ecology Program”		
1/1/02-12/31/06	\$3,994,000*	Atlantic Philanthropies, Inc.
*shared equally with Cornell University and co-authored with T. Eisner and J. Meinwald		
“Plants and Human Health”		
1/1/04-12/31/07	\$1,000,000	Triad Foundation
4/1/03-3/31/04	\$250,000	Triad Foundation
4/1/02-3/31/03	\$250,000	Park Foundation

Plant Research:

“The Arabidopsis salicylic acid signaling network: A paradigm for phytohormone signaling” – Creativity-based Supplement		
6/1/14 – 6/30/17	\$200,000	
“Reducing losses to potato and tomato late blight by monitoring pathogen populations, improved resistant plants, education and, extension”		
3/1/2011 – 2/28/2016	\$9,000,000	USDA (one of 22 co-IPs)
“The Arabidopsis salicylic acid signaling network: A paradigm for phytohormone signaling”		
6/1/09 - 5/31/14	\$2,279,000	NSF 2010 (w/several co-PIs)
“NO synthase and NO-mediated signaling in plant defense”		
7/1/03 - 6/30/08	\$1,083,000	NIH
"Characterization of salicylic acid binding proteins in plant defense responses"		
8/1/05 - 7/31/09	\$668,000	NSF
8/15/03 - 8/14/05	\$288,000	NSF
9/1/01 - 8/31/02	\$100,000	NSF
9/1/99 - 8/31/01	\$220,000	NSF
"Involvement of salicylic acid inhibition of catalase and ascorbate peroxidase in plant defense responses"		
9/1/96 - 8/31/99	\$300,000	NSF
"Salicylic acid binding proteins"		
9/1/93 - 8/31/95	\$133,000	CIBA-Geigy
9/1/90 - 8/31/93	\$158,000	CIBA-Geigy
"Characterization of the salicylic acid binding protein"		
9/15/92 - 9/14/94	\$105,000	USDA
"Characterization of the salicylic acid signal transduction pathway in plant defense responses"		
9/1/01 - 8/31/05	\$600,000	NSF
10/1/97 - 9/30/01	\$600,000	NSF
8/1/93 - 7/31/97	\$535,000	NSF
"Pathogenesis-related proteins of Nicotiana"		
8/1/90 - 7/31/93	\$412,000	NSF
7/1/87 - 6/30/90	\$300,000	NSF
10/1/85 - 9/30/87	\$110,000	USDA
"Characterization of the <i>Arabidopsis</i> HRT gene, which confers resistance to turnip crinkle virus"		
5/1/07 – 3/31/11	\$680,000	NSF (with Co-PI Pradeep Kachroo)
7/1/03 - 6/30/06	\$300,000	USDA
9/1/99 - 8/3/02	\$225,000	USDA
9/1/97 - 8/31/99	\$120,000	USDA
"Tobacco <i>SIPK</i> -encoded MAP kinase associated with defense responses to pathogens"		
9/1/98 - 8/31/01	\$190,000	USDA

"Control of ribulose 1,5-bisphosphate carboxylase gene expression in amaranth/posttranscriptional regulation of chloroplast gene expression"

8/1/89 - 7/31/91	\$150,000	NSF
3/1/86 - 8/31/89	\$208,000	NSF
11/1/82 - 2/28/86	\$189,000	NSF

"Photoinduction and coordinate expression of ribulose 1,5-bisphosphate carboxylase gene in grain amaranth"

3/1/83 - 2/28/86	\$105,000	McKnight Scholarship
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Animal DNA Tumor Virus Research:

"The multi-functional adenovirus DNA binding protein"

9/1/90 - 8/31/95	\$1,507,000	NIH
9/1/85 - 8/31/90	\$1,003,000	NIH
7/1/80 - 8/31/85	\$636,000	NIH

"Abortive infection of monkey cells by human adenoviruses"

7/1/88 - 6/30/90	\$160,000	ACS
1/1/84 - 6/30/87	\$282,000	NIH
1/1/83 - 12/31/83	\$82,000	ACS
1/1/81 - 12/31/82	\$150,000	ACS (American Cancer Society)

"Regulation of gene expression in eukaryotes"

1/1/84 - 12/31/88	\$155,000	ACS
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Faculty Research Award

"Control of gene expression in eukaryotes"

10/1/82 - 2/28/86	\$155,000	Searle Scholarship
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Invited Lectures
at Scientific
Meetings:

XVI Int'l Symposium on Molecular Plant- Microbe Interaction Rhodes, Greece
2014

Keynote Lecture Korean Society of Plant Pathology Annual Meeting, Suncheon,
Korea 2013

R. R. Nelson Memorial Lecture in Plant Pathology, Penn. State University, State
College, PA 2012

3rd Sophia Antipolis Workshop on Compatibility Mechanisms in Plant-Microbe
Interactions 2011 – Sophia, France

PR-Proteins and Induced Resistance Against Pathogens and Insects 2011 –
Neuchatel, Switzerland

Conference on "The Contributions of Plant Biotechnology in Confronting Climate
Change" – Tunis, Tunisia 2010

Int'l Conference on Plant Vascular Biology 2010 – Columbus, OH

Mol. & Envir. Plant Sciences Symposium – Texas A&M 2010

Keynote: IV Annual Chilean Plant Biology Meeting, LaSerna, Chile – 2009

XII Buenos Aires Plant Biology Lectures – Argentina 2009

Pathogenesis-related Proteins and Induced Resistance Workshop – Doorn,
Netherlands 2007

XIII Int'l Congress on Molecular Plant-Microbe Interactions, Sorrento, Italy 2007

4th Tri-national Arabidopsis Meeting, Vienna, Austria 2007

Roy C. Anderson Memorial Lecture in Parasitology, University of Guelph, Guelph,
Canada 2007

ASPB-Southern section symposium – Daytona, FL 2006 (Keynote Speaker)

Iowa State University Plant Receptor Signaling Symposium – Ames, IA 2006

- American Phytopathology Society / Canadian Phytopathology Society Meeting – Quebec City, Canada 2006
- Symposium on “Non-specific and specific innate and acquired plant resistance” – Budapest, Hungary 2006
- Canadian Society of Plant Physiologists – Eastern region meeting – Hamilton, Canada 2006 (Keynote Speaker)
- XII Int’l Congress on Molecular Plant-Microbe Interactions – Cancun, Mexico 2005
- American Society for Virology 24th Annual Meeting; Plant Virology Club Satellite Symposium – State College, PA 2005
- Plant Molecular Biology Gordon Research Conference – Plymouth, NH 2004
- Juan March Foundation Workshop on Disease Resistance and Related Signaling Mechanisms in Plants – Madrid, Spain, 2004
- International Joint Workshop on PR Proteins and Induced Resistance – Denmark, 2004
- Colloquium on Entrepreneurship and Biotechnology: The Coming Revolution”, Elkhorn, Montana, 2004
- Annual Meeting of American Society of Plant Biologists – Orlando, FL, 2004, *Dhirendra Kumar substituted for Dan due to health*
- Annual Meeting of American Phytopathology Society – Anaheim, CA, 2004, *Dhirendra Kumar substituted for Dan due to health*
- NATO Advanced Research Workshop on Cell Biology and Instrumentation: UV Radiation, Nitric Oxide and Cell Death – Yalta, Ukraine, 2004 *David Wendehenne substituted for Dan due to health*
- Iowa State University Symposium – Ames, IA, 2004, *Meena Chandok substituted for Dan due to health*
- 15th International Conference on Arabidopsis Research – Berlin, Germany, 2004, *Declined due to health*
- International Conference on Plant Growth Substances – Canberra, Australia, 2004, *Declined due to health*
- 3rd International Conference on Biology, Chemistry, and Therapeutic Applications of Nitric Oxide – Nara, Japan, 2004, *Declined due to health*
- 8th International Congress on Plant Pathology – Keynote Address – Christchurch, New Zealand, 2003
- 7th International Congress of Plant Molecular Biology – Barcelona, Spain, 2003
- 11th International Congress on Molecular Plant-Microbe Interactions – Plenary Lecture – St. Petersburg, Russia, 2003
- Symposium honoring J. D. Watson and the 50th Anniversary of the discovery of the double-helical structure of DNA – Cold Spring Harbor, NY, 2003
- MidAtlantic Plant Molecular Biology Conference – Keynote Address, Beltsville, MD, 2002
- Annual Meeting of Canadian Society of Plant Physiologists, Calgary, Canada, 2002
- European Flying Fellowship in Plant Molecular Biology, Cologne, Germany; Ghent, Belgium; Wageningen, Netherlands; and Gif-sur-Yvette, France, 2002
- Annual Meeting of American Phytopathological Society, 2001
- 10th Congress of the International Society of Molecular Plant-Microbe Interactions, 2001
- Annual Meeting of American Society of Plant Biologists, 2001
- 27th Meeting of FEBS and Pan-American Association of Biochemistry and Molecular Biology, Lisbon, Portugal, 2001
- 17th International Conference on Plant Growth Substances, Brno, Czech Republic, 2001

- 6th International Workshop on Pathogenesis-Related Proteins in Plants, Spa, Belgium, 2001
- Commemorative Symposium of the Center for Plant Molecular Genetics and Breeding Research, Seoul National University, Korea, 2000
- First International Symposium on Induced Resistance to Plant Diseases, Corfu, Greece, 2000
- International Symposium on Plant Signaling 2000, Penn State, 2000
- Gatsby Fellow Lecture Series, Sainsbury Laboratory, John Innes Centre, Norwich, UK, 2000
- Keystone Symposium on Signals and Signal Perception in Biotic Interactions in Plants, 2000
- 9th International Congress of Molecular Plant-Microbe Interactions, Amsterdam, Netherlands, 1999
- Annual Meeting of the American Society of Virology, 1999
- International Symposium on Plant Signal Transduction, New Delhi, India, 1999
- U.S. National Academy of Sciences Colloquium on Virulence and Defense in Host-Pathogen Interactions: Common Features between Plants and Animals, 1999
- Cell Death in Plants: Functions and Mechanisms, Banbury Center Meeting, Cold Spring Harbor Laboratories, 1999
- American Society of Pharmacognosy, Association Française pour l'Enseignement et la Recherche en Pharmacognosie, Gesellschaft für Arzneipflanzenforschung and the Phytochemical Society of Europe sponsored Symposium on 2000 Years of Natural Products Research - Past, Present and Future. Amsterdam, The Netherlands, 1999
- University of Missouri Spring Symposium on Plant Hormones: Signaling and Gene Expression, 1999
- Gordon Research Conference on Antimicrobial Peptides, Barga, Italy, 1999
- Juan March Foundation sponsored Meeting on Novel Approaches to Study Plant Growth Factors, Madrid, Spain, 1998
- International Symposium of the Polyphenols Group, Lille, France, 1998
- 7th International Congress of Plant Pathology, Edinburgh, UK, 1998
- International Symposium on Recent Advances and Future Perspectives in Life Science, Gyeongsang, South Korea, 1998
- 5th International Workshop on Pathogenesis-Related Proteins in Plants, Aussois, France, 1998
- 5th International Congress of Plant Molecular Biology, Singapore, Malaysia, 1997
- Congress on In Vitro Biology, Washington, DC, 1997
- Joint Meeting of Phytochemical Society of Europe and Phytochemical Society of North America, Noordwijkerhout, Netherlands, 1997
- Keystone Symposium on Metabolic Engineering in Transgenic Plants, 1997
- Spring Symposium on Information Processing Systems in Plants, University of California, Davis, 1997
- 8th International Symposium on Molecular Plant-Microbe Interactions, 1996
- 15th International Conference on Plant Growth Substances, 1995
- 4th International Workshop on Pathogenesis-Related Proteins in Plants, Kloster Irsee, Germany, 1995
- Workshop on Molecular Biology of Disease Resistance Genes in Plants, Banbury Center, Cold Spring Harbor Laboratories, 1995
- COE Symposium on Defense Responses in Plants, Tsukuba, Japan, 1995
- Keystone Symposium on Signal Transduction in Plants, 1995
- U. S. National Acad. of Science Colloquium on Self-Defense by Plants, 1994
- German Botanical Society Biannual Meeting, Bayreuth, Germany, 1994

Annual Meeting of Society of Industrial Microbiologist, 1994
Annual National Meeting of ASPP, 1994
7th International Symposium of Molecular Plant-Microbe Interaction, Edinburgh, UK, 1994
4th International Congress on Plant Molecular Biology, Amsterdam, Netherlands, 1994
Clusius Symposium, Leiden, Netherlands, 1994
Annual Meeting of the Washington Area Section of the ASPP, 1994
Merck Symposium on Antifungal Discovery for Crop Protection, 1994
American Phytopathology Society Symposium, 1993
Gordon Research Conference on Plant Molecular Biology, 1993
British Biochemical Society Annual Symposium, Leeds, UK, 1993
Annual European Federation of Plant Pathologists, Strasbourg, France, 1992
3rd International Workshop on Pathogenesis-Related Proteins in Plants, Arolla, Switzerland, 1992
Annual Meeting of Northeast Section of the ASPP, 1992
Gordon Research Conference on Plant Molecular Biology, 1991
Annual Meeting of American Phytopathological Society, 1990
Gordon Research Conference on Plant Molecular Biology, 1990
Conference on Approaches to Genetic Manipulations in Biology and Medicine, Vienna, Austria, 1990
2nd International Workshop on Pathogenesis-Related Proteins in Plants, Valencia, Spain, 1989
52nd Annual Meeting of the Northeastern Section of the American Society of Plant Physiologists (ASPP), 1988
Second Annual ASM Conference on Biotechnology, 1987
FASEB Summer Research Conference on Plant Gene Expression, 1987
International Workshop on RUBISCO 87 - Genes, Proteins and the Regulation of Activity, 1987
Gordon Research Conference on Plant Molecular Biology, 1987
Gordon Research Conference on Plant Molecular Biology, 1986
Viruses as Models for Eukaryotic Gene Expression: ICN-UCI Symposium, 1986
Translational Regulation Meeting at CSH Lab, 1985
DNA Tumor Viruses: Control of Gene Expression and Replication Meeting at CSH Lab, 1985
Chairperson of Adenovirus Transcription Session - Annual SV40, Polysoma, Adenovirus Meeting at CSH Lab, 1982
Symposium on RNA Splicing - ASM Annual Meeting, 1978

Peer Review
Committees:

Member of Advisory Panel for Eukaryotic Genetics of NSF, 1988-1996
Member of Advisory Panel for Science and Technology Center for NSF, 1989
Basic Research Advisory Group for the New Jersey Commission on Cancer Research, 1987 - 1995
Ad hoc member of Virology Study Section of NIH, 1983
Peer Review Member, Boyce Thompson Institute, 1998
Review Committee for Life Sciences at Brookhaven National Laboratory, 2000
Several site visit teams

Daniel F. Klessig

University of Utah
Committees:

Biochemistry Chairperson Search Committee, 1982-1983
Steering Committee for the B.S. - M.S. Program in Molecular Biology and
Genetic Engineering, 1982-1983
Departmental Seminar Chairperson, 1980-1983
Genetics Postdoctoral Fellowship Committee, 1981-1985

Rutgers University
Committees:

Faculty Senate, 1990-1993
Executive Committee for the Graduate School, 1992-1994
University Appointments and Promotion Committee, 1996-1998
Ad hoc Committee for Consolidation of Graduate Programs in the Biological
Sciences, 1993-1994
Search Committee for Dean of Faculty of Arts and Sciences, 1990
Government Relationship Committee, 1988-1989
University Advisory Committee for the J & J Discovery Research Fund, 1988-1990
Executive Committee of Biochemistry Graduate Program, 1990-1993
Executive Committee of Biochemistry and Molecular Biology Graduate Program,
1987-1990
Recruitment Committee of Microbiology and Molecular Genetics Graduate
Program, 1989-1992
Faculty Search Committee for the Center for Advanced Biotechnology and
Medicine, 1986-1990
Molecular Biology and Biochemistry Chairperson Search Committee, 1986-1987
Molecular Biology and Biochemistry Faculty Search Committee, 1990-1992
Molecular Biology and Biochemistry Planning and Policy Committee,
1990-2000
Chair of Appointments and Promotion Committee for Waksman Institute,
1994-2000
Appointments and Promotion Committee for Waksman Institute
1986-1988
1991-1994
Chairman of Faculty Search Committee for Waksman Institute
1986-1987
1989-1990
1992-1994
Chair, Busch Fund and Fellowship Committee for Waksman Institute, 1988-1991
Busch Funds Committee for Waksman Institute, 1986-1988
Lectures and Seminars Committee for Waksman Institute, 1986-1988

Cornell University
Committees:

Provost's Life Science Advisory Counsel, 2000-2003
Governing Board of Center for the Environment, 2000-2002
Environmental Sustainability Committee, 2001

Lab Personnel:
Postdoctoral Fellows:

Kevin Anderson	1980-1984	Jeffrey Johnston	1984-1985
Robert Boone	1981-1983	Karl Voelkerding	1984-1986
Basil Nikolau	1983-1985	Guo-shun He	1986-1987

James Berry	1982-1988	Michael Cooley*	1996-1999
Fumio Tashiro	1986-1988	Robert Noad	1998-1999
Nathalie Morin	1986-1989	Gaza Salih	1998-1999
Claude Delsert	1986-1989	Susan Rasmussen	1999-2000
John Carr	1984-1989	Youssef Trifa	1999-2000
Mary Metzler	1988-1989	Yanhong Liu	1997-2001
David Breiding	1985-1990	Roy Navarre	1997-2001
Ralph Dewey	1987-1990	Shashi Sharma	1998-2001
John Cutt	1986-1991	David Slaymaker	1999-2001
Jacek Hennig	1990-1992	Pradeep Kachroo*	1997-2002
John Martyn	1992-1993	Yumiko Shirano	1998-2002
Paloma Sanchez-Casas	1992-1993	Hui-Ju Wu	1998-2002
Joseph Ricigliano	1989-1993	Frank Menke	1999-2002
Kristin Wobbe	1991-1994	Jeong Mee Park	2000-2002
John Tonkyn	1992-1995	Joseph Kuhl	2000-2002
Andrew Bendall	1993-1995	Keiko Yoshioka*	1998-2003
Uwe Conrath	1993-1995	Wolfgang Möder	2000-2003
Hideki Takahashi	1994-1995	Meena Chandok*	2000-2004
Zhixiang Chen*	1990-1995	Dhirendra Kumar*	1998-2005
Marc Anderson	1995-1996	Jitae Kim	2003-2005
Ailan Guo	1993-1997	Fasong Zhou*	2001-2005
Sudam Pathirana	1994-1997	Corina Vlot	2003-2006
Yinong Yang	1994-1997	Miaoying Tian	2005-2006
Ismael Rodrigo	1996-1998	Yongzeng Wang	2004-2007
David Wendehenne	1996-1998	Evans Kaimoyo	2005-2007
Jyoti Shah	1992-1998	Hong-Gu Kang*	2000-2011
Jörg Durner*	1994-1998	Magali Moreau*	2005-2013
Shuqun Zhang	1995-1998	Patricia Manosalva*	2007-2014
He Du	1995-1998	Po-Pu Liu*	2007-2012
Jihad Attieh	1998	Caroline von Dahl	2007-2011
Gyu In Lee	2003-2008	Miaoying Tian*	2009-2013
Sang Wook Park	2004-2008	Hyong-Woo Choi	2011-present
		Katarzyna Lorenc-Kukula	2011-2012
		Murli Manohar	2012-present

* promoted to Research Associate

Graduate Students:

Steve Rice	1980-1985	Jocelyn Malamy	1988-1993
Lauren Silverman	1984-1989	Younggyu Kim	1992-1995
David Dixon	1984-1991	D'Maris Dempsey	1987-1996
Vaughn Cleghon	1986-1991	Herman Silva	1993-1998
Pat Eagle	1988-1991	Jun Ma Zhou	1997-2001
Douglas Brough	1986-1992	Daniel Clark	1999-2003

Publications:

1. Klessig, D.F. and Anderson, C.W. (1975) Block to multiplication of adenovirus serotype 2 in monkey cell. *J. Virol.* 16: 1650-1668.
2. Klessig, D.F. (1977) Isolation of a variant of human adenovirus serotype 2 that multiplies efficiently on monkey cells. *J. Virol.* 21: 1243-1246.

3. Klessig, D.F. (1977) Two adenovirus mRNAs have a common 5' terminal leader sequence encoded at least 10 kb upstream from their main coding regions. *Cell* 12: 9-21.
4. Klessig, D.F. and Hassell, J.A. (1978) Characterization of a variant of human adenovirus type 2 which multiplies efficiently in simian cells. *J. Virol.* 28: 945-956.
5. Gelinas, R.E., Chow, L.T., Roberts, R.J., Broker, T.R. and Klessig, D.F. (1978) The structure of late adenovirus type 2 messenger RNAs. *Brookhaven Symp.* 29: 345-347.
6. Broker, T.R., Chow, L.T., Dunn, A.R., Gelinas, R.E., Hassell, J.A., Klessig, D.F., Lewis, J.B., Roberts, R.J. and Zain, S.D. (1978) Adenovirus 2 messengers - an example of baroque molecular architecture. *Cold Spring Harbor Symp. Quant. Biol.* 42: 531-553.
7. Klessig, D.F. and Grodzicker, T. (1979) Mutants that allow human Ad2 and Ad5 to express late genes in monkey cells map in the viral gene encoding the 72K DNA binding protein. *Cell* 17: 957-966.
8. Klessig, D.F. and Chow, L.T. (1980) Incomplete splicing and deficient accumulation of the fiber messenger RNA in monkey cells infected by human adenovirus type 2. *J. Mol. Biol.* 139: 221-242.
9. Alestrom, P., Akusjarvi, G., Perricaudet, M., Mathews, M.B., Klessig, D.F. and Pettersson, U. (1980) The gene for polypeptide IX of adenovirus type 2 and its unspliced messenger RNA. *Cell* 19: 671-681.
10. Grodzicker, T. and Klessig, D.F. (1980) Expression of unselected adenovirus genes in human cells co-transformed with HSV-1 tk gene and adenovirus 2 DNA. *Cell* 21: 453-463.
11. Klessig, D.F., Quinlan, M.P. and Grodzicker, T. (1982) Proteins containing only half the coding information of early region 1b of adenovirus are functional in human cells transformed with HSV-1 tk gene and adenovirus DNA. *J. Virol.* 41: 423-434.
12. Anderson, K.P. and Klessig, D.F. (1982) Synthesis of human adenovirus early RNA species is similar in productive and abortive infections of monkey and human cells. *J. Virol.* 42: 748-754.
13. Klessig, D.F. and Quinlan, M.P. (1982) Genetic evidence for separate functional domains on the human adenovirus specified 72 kd, DNA binding protein. *J. Mol. Appl. Genet.* 1: 263-272.
14. Klessig, D.F. and Quinlan, M.P. (1982) Normal translation of human adenovirus mRNA in cell-free systems prepared from abortively as well as productively infected monkey cells. *J. Virol.* 44: 426-430.
15. Anderson, K.P. and Klessig, D.F. (1983) Posttranscriptional block to synthesis of a human adenovirus capsid protein in abortively infected monkey cells. *J. Mol. Appl. Genet.* 2: 31-44.
16. Anderson, C.W., Hardy, M.M., Dunn, J.J. and Klessig, D.F. (1983) Independent, spontaneous mutants of Ad2⁺ND3 that grow efficiently in monkey cells possess identical mutations in the adenovirus 2 DNA binding protein gene. *J. Virol.* 48: 31-39.
17. Klessig, D.F. and Berry, J.O. (1983) Improved filter hybridization method for detection of single copy sequences in large eukaryotic genomes. *Plant Mol. Biol. Reporter* 1: 12-18.
18. Rice, S.A. and Klessig, D.F. (1984) The function(s) provided by the adenovirus specified, DNA binding protein required for viral late gene expression is independent of the protein's role in viral DNA replication. *J. Virol.* 49: 35-49.
19. Klessig, D.F., Grodzicker, T. and Cleghon, V. (1984) Construction of human cell lines which contain and express the adenovirus DNA binding protein gene by co-transformation with HSV-1 tk gene. *Virus Res.* 1: 169-188.
20. Anderson, K.P. and Klessig, D.F. (1984) Altered mRNA splicing in monkey cells abortively infected with human adenovirus may be responsible for inefficient synthesis of the virion fiber polypeptide. *Proc. Natl. Acad. Sci. USA* 81: 4023-4027.
21. Klessig, D.F., Brough, D.E. and Cleghon, V. (1984) Introduction, stable integration, and controlled expression of a chimeric adenovirus gene whose product is toxic to the recipient human cell. *Mol. Cell. Biol.* 4: 1354-1362.

22. Brough, D.E., Rice, S.A., Sell, S. and Klessig, D.F. (1985) Restricted changes in the adenovirus DNA binding protein leading to extended host range or temperature sensitive phenotypes. *J. Virol.* 55: 206-212.
23. Silverman, L. Anderson, K.P. and Klessig, D.F. (1985) Synthesis of the Ad2⁺ND5 specified 42K protein is regulated posttranscriptionally in abortively infected monkey cells. *J. Virol.* 56: 814-820.
24. Klockmann, U., Klessig, D.F. and Deppert W. (1985) Similar regulation of the synthesis of the human adenovirus fiber protein and of the simian virus 40 specific proteins encoded by the helper defective Ad2⁺SV40 hybrid viruses Ad2⁺ND5 and Ad2⁺ND4_{del}. *J. Virol.* 56: 821-829.
25. Anderson, K.P., Wong, E.A. and Klessig, D.F. (1985) Microinjection of mRNA enhances the translational efficiency of human adenovirus fiber message in monkey cells. *Mol. Cell. Biol.* 5: 2870-2873.
26. Johnston, J. Anderson, K.P. and Klessig, D.F. (1985) Partial block to transcription of human adenovirus late genes in abortively infected monkey cells. *J. Virol.* 58: 378-385.
27. Rice, S.A. and Klessig, D.F. (1985) Isolation and analysis of adenovirus type 5 mutants containing deletions in the gene encoding the DNA binding protein. *J. Virol.* 56: 767-778.
28. Berry, J.O., Nikolau, B.J., Carr, J.P. and Klessig, D.F. (1985) Transcriptional and post-transcriptional regulation of ribulose 1,5-bisphosphate carboxylase gene expression in light and dark grown *amaranthus* cotyledons. *Mol. Cell. Biol.* 5: 2238-2246.
29. Carr, J.P., Dixon, D.C. and Klessig, D.F. (1985) The synthesis of pathogenesis-related proteins in tobacco is regulated at the level of mRNA accumulation and occurs on membrane-bound polysomes. *Proc. Natl. Acad. Sci. USA* 82: 7999-8003.
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