

**CURRICULUM VITAE  
BRADLEY IAN HILLMAN**

School of Environmental and Biological Sciences and  
New Jersey Agricultural Experiment Station  
Rutgers University, 88 Lipman Drive  
New Brunswick, New Jersey 08901-8525  
Voice: (848) 932-3777 FAX: (866) 365-7736  
e-mail: bradley.hillman@rutgers.edu

**CAREER EXPERIENCE**

- |              |   |
|--------------|---|
| 2007-Present | Director for Research and Senior Associate Director, New Jersey Agricultural Experiment Station           |
| 2006-2007    | Director for Research and Associate Director, NJAES   |
| 2006-2007    | Vice Chair, Department of Plant Biology and Pathology, Rutgers University                                 |
| 2001-Present | Professor, Department of Plant Biology and Pathology, Rutgers University                                  |
| 1998-2001    | Vice-Chair, Department of Plant Pathology, Rutgers University   |
| 1995-1998    | Director, Plant Biology Graduate Program, Rutgers University  |
| 1995-2001    | Associate Research Professor, Rutgers University  |
| 1992-1995    | Director, Plant Pathology Graduate Program, Rutgers University  |
| 1989-1995:   | Assistant Research Professor, Cook College, Rutgers University  |
| 1987-1989:   | Postdoctoral Fellow with Dr. D. L. Nuss, Roche Institute of Molecular Biology, Nutley, NJ.                |
| 1986-1987:   | Postdoctoral Research Associate with Dr. A. O. Jackson, University of California, Berkeley.               |
| 1983-1986:   | Graduate Research Assistant with Dr. T. J. Morris, Department of Plant Pathology, UC Berkeley.            |
| 1978-1983:   | Research Assistant with Drs. T. J. Morris and D. E. Schlegel, Department of Plant Pathology, UC Berkeley. |

## **EDUCATION**

- Ph.D. 1986 University of California, Berkeley, Plant Pathology. Thesis: Genome Organization, Replication, and Defective RNAs of Tomato Bushy Stunt Virus
- M.S. 1983 UC Berkeley, Plant Pathology. Thesis: The Effects of Temperature and Satellite RNAs on Tombusvirus Replication and Symptom Expression
- B.S. 1978 UC Berkeley. Major: Plant Pathology; Minor: Soil Science

## **TEACHING**

### Current:

Comparative Virology (11:126:407) Undergraduate virology course taught through the Biotechnology curriculum. Alternate years; since 1999. 3 credits. Last taught Fall 2017.

Core Seminar in Plant Biology (16:765:609-610). Graduate seminar of readings, discussion, and invited speaker visits. Alternate years; since 2005. 2 credits. Last taught Fall 2017.

### Past:

Plant Virology (16:765:535) Graduate level plant virology course covering basic and applied aspects, with laboratory. Alternate years; Fall 1989-2003. 3 credits.

Perspectives in Agriculture and the Environment (11:015:101). First year introductory course. Every year; Fall, 1995-2004. 2 credits.

Principles of Plant Pathology (16:765:531) Graduate level introductory course. Alternate years; Fall, 1993-2000. 4 credits.

Advanced Plant Pathology (16:770:502) Graduate level advanced course. Emphasizes local diseases, epidemiology, and control. Spring, 1993. 3 credits.

Presentation Skills (Special Topics in Plant Pathology) (16:770:601) Graduate level introduction to seminar preparation and presentation. Every year; Fall 1991-94. 2 credits.

Seminar in Plant Pathology (16:770:603-604) Weekly departmental seminar. Every semester; Fall 1991 - Spring 1994. 1 credit.

Seminar in Plant Biology (16:765:609-610) Weekly program seminar. Every semester; Fall 1996 - Spring 1997. 1 credit.

## PUBLICATIONS

### Peer Reviewed Research Articles (Current H-index: ISI=31; Google Scholar=38)

- Muehlbauer, M. F., Morey, K., Honig, J. A., Zhang, N., Hillman, B.I, and Molnar, T. J. 2017. Characterization of genetic diversity and population structure of *Anisogramma anomala* using microsatellite markers. *Phytopathology*, submitted.
- Cai, G., Leadbetter, C., Muehlbauer, M., Molnar, T.J., and Hillman, B.I. 2013. Genome-wide microsatellite identification in the fungus *Anisogramma anomala* using Illumina sequencing and genome assembly. *PLOS ONE*, 8 (11), e82408.
- Patel, N., Oudemans, P.V., Hillman, B.I., and Kobayashi, D.Y. Use of the tetrazolium salt MTT to measure the effects of the bacterial antagonist *Lysobacter enzymogenes* on the viability of the filamentous fungus *Cryphonectria parasitica*. *Antonie van Leeuwenhoek* DOI 10.1007/s10482-013-9907-3.
- Mathioni S.M., Patel N., Riddick B., Sweigard J.A., Czymmek K.J., Caplan J.L., Kunjeti S.G., Kunjeti S., Raman V., Hillman B.I., Kobayashi D.Y., and Donofrio N.M. 2013. Transcriptomics of the rice blast fungus *Magnaporthe oryzae* in response to the bacterial antagonist *Lysobacter enzymogenes* reveals candidate fungal defense response genes. *PLoS ONE* 8 (10): e76487. doi:10.1371/journal.pone.0076487
- Cai, G., Meyers, K., Fry, W.E., and Hillman, B.I. 2013. A new virus from the plant pathogenic oomycete *Phytophthora infestans* with an 8 kb dsRNA genome: the sixth member of a proposed new virus genus. *Virology*, 435, 341-349.
- Zhang, N., Rossman, A.Y., Seifert, K., Bennett, J.W., Cai, G., Cai, L., Hillman, B.I., Hyde, K.D., Luo, J., Manamgoda, D., Meyer, W., Molnar, T., Schoch, C., Tadych, M., and White J.F. Jr. 2013. Impacts of the International Code of Nomenclature for algae, fungi and plants (Melbourne Code) on the scientific names of plant pathogenic fungi. Online. APSnet Feature. American Phytopathological Society, St. Paul.
- Cai, G., Meyers, K., Fry, W.E., and Hillman, B.I. 2011. A member of the virus family *Narnaviridae* from the plant pathogenic oomycete *Phytophthora infestans*. *Archives of Virology* 157:165–169.
- Oudemans, P.V., Hillman, B.I., Linder-Basso, D., and Polashock, J.J. 2011. Visual inspections of nursery stock fail to protect new plantings from Blueberry scorch virus infection. *Crop Protection*, 30, 871-875.
- Eusebio-Cope A., Sun L, Hillman B.I., Suzuki N. 2010. Mycoreovirus 1 S4-coded protein is dispensable for viral replication but necessary for efficient vertical transmission and normal symptom induction. *Virology*, 397, 399-407.
- Cai, G., Myers, K., Hillman, B.I., and Fry, W.E. 2009. A novel multisegmented RNA virus of the

- late blight pathogen, *Phytophthora infestans*, with a supergroup 1 RNA-dependent RNA polymerase. *Virology*, 392, 52-61.
- Crouch, J. A., Tredway, L., Clarke, B. B., and Hillman, B. I. 2009. Phylogenetic and population genetic divergence correspond with habitat for the pathogen *Colletotrichum cereale* and allied taxa across diverse grass communities. *Molecular Ecology*, 18, 123-135.
- Crouch, J.A., Clarke, B.B., White, J.F. and Hillman, B.I. 2009. Systematic analysis of the falcates spored graminicolous *Colletotrichum* and a description of seven new species from warm season grasses. *Mycologia* 101, 717-732
- Crouch, J.A., Clarke, B.B. and Hillman, B.I. 2009. What is the value of ITS sequence data in *Colletotrichum* systematics and species diagnosis? A case study using the falcate-spored, graminicolous *Colletotrichum* group. *Mycologia*, 101, 648-656.
- Crouch, J. A., Tredway, L., Clarke, B. B., and Hillman, B. I. 2008. Phylogenetic and population genetic divergence correspond with habitat for the pathogen *Colletotrichum cereale* and allied taxa across diverse grass communities. *Molecular Ecology* 18, 123-135.
- Crouch, J. A., Glasheen, B. M., Giunta, M. A., Clarke, B. B., and Hillman, B. I. 2008. The evolution of transposon repeat-induced point mutation in the genome of *Colletotrichum cereale*: Reconciling sex, recombination and homoplasy in an "asexual" pathogen. *Fungal Genetics and Biology* 45, 190-206.
- Crouch, J. A., Glasheen, B. M., Uddin, W., Clarke, B. B., and Hillman, B. I. 2008. Patterns of diversity in populations of the turfgrass pathogen *Colletotrichum cereale* as revealed by transposon fingerprint profiles. *Crop Science*, 48, 1203-1210.
- Deng, F., Allen, T. D., Hillman, B. I., and Nuss, D. L. 2007. Comparative analysis of alterations in host phenotype and transcript accumulation following hypovirus and mycoreovirus infections of the chestnut blight fungus *Cryphonectria parasitica*. *Eukaryotic Cell* 6, 1286-98.
- Liu, Y-C., Dynek, J. N., Hillman, B. I., and Milgroom, M. G. 2007. Diversity of viruses in *Cryphonectria parasitica* and *C. nitschkei* in Japan and China, and partial characterization of a new chrysovirus species. *Mycological Research* 111, 433-42.
- Supyani, S., Hillman, B. I., and Suzuki, N. 2007. Baculovirus expression of the 11 *Mycoreovirus*-1 genome segments and identification of the guanylyltransferase-encoding segment. *Journal of General Virology* 88, 342-350.
- Crouch, J. A., Clarke, B. B., and Hillman, B. I. 2006. Unraveling evolutionary relationships among the divergent lineages of *Colletotrichum* causing anthracnose disease in turfgrass and corn. *Phytopathology* 96, 46-60.

- Crouch, J. A., Clarke, B. B., and Hillman, B. I. 2005. Biology and phylogenetic relationships of *Colletotrichum graminicola* isolates from turfgrass in North America. *International Journal of Turfgrass Science* 10, 186-195.
- Linder-Basso, D., Dynek, J. N., and Hillman, B. I. 2005. Genome analysis of *Cryphonectria hypovirus 4*, the most common hypovirus species in North America. *Virology* 337, 192-203.
- Suzuki, N., Supyani, S., Maruyama, K. and Hillman, B. I. 2004. Complete genome sequence of *Mycoreovirus 1/Cp9B21*, a member of a new genus in the family *Reoviridae* isolated from the chestnut blight fungus, *Cryphonectria parasitica*. *Journal of General Virology*, 85, 3437-3448.
- Carbone, I., Liu, Y.-C., Hillman, B. I., and Milgroom, M. G. 2004. Recombination and migration of *Cryphonectria hypovirus 1* as inferred from gene genealogies and the coalescent *Genetics* 166, 1611-1629.
- Hillman, B. I., Supyani, S., Kondo, H., and Suzuki, N. 2004. A reovirus of the fungus *Cryphonectria parasitica* that is infectious as particles and related to the *Coltivirus* genus of animal pathogens. *Journal of Virology* 78, 892-898.
- DeMarsay, A., Hillman, B. I., Petersen, F. P., Oudemans, P. V., and Schloemann, S. 2004. First Report of *Blueberry scorch virus* on highbush blueberry in Connecticut and Massachusetts. *Plant Disease* 88, 572.
- Liu, Y.-C., Linder-Basso, D., Hillman, B. I., Kaneko, S., and Milgroom, M. G. 2003. Evidence for interspecies transmission of viruses in natural populations of filamentous fungi in the genus *Cryphonectria*. *Molecular Ecology* 12, 1619-1628.
- Glasheen, B. M., Polashock, J. J., Lawrence, D. M., Gillette, J. M., Ramsdell, D. C., Vorsa, N., and Hillman, B. I. 2002. Cloning, sequencing, and promoter identification of *Blueberry red ringspot virus*, a member of the *Caulimoviridae* with similarities to the “Soybean chlorotic mottle-like” genus. *Archives of Virology* 147, 2169-2186.
- Linder-Basso, D., Foglia, R., Zhu, P., and Hillman, B.I. 2001. *Crypt1*, an active *Ac*-like transposon from the chestnut blight fungus, *Cryphonectria parasitica*. *Molecular Genetics and Genomics (MGG)* 265, 730-738.
- Yuan, W. and Hillman, B. I. 2001. *In vitro* translational analysis of genomic, defective, and satellite RNAs of *Cryphonectria parasitica hypovirus 3-GH2*. *Virology* 281, 117-123.
- Hillman, B. I., Foglia, R., and Yuan, W. 2000. Satellite and defective RNAs of *Cryphonectria hypovirus 3*, a virus species in the Family *Hypoviridae* with a single open reading frame. *Virology* 276, 181-189.
- Smart, C. D., Yuan, W., Foglia, R., Nuss, D. L., Fulbright, D. W., and Hillman, B. I.

1999. *Cryphonectria hypovirus 3*, a virus species in the Family *Hypoviridae* with a single open reading frame. *Virology* 265: 66-73.
- Sreedhar, L., Kobayashi, D. Y., Bunting, T. E., Hillman, B. I., and Belanger, F. C. 1999. Fungal proteinase expression in the interaction of the plant pathogen *Magnaporthe poae* with its host. *Gene* 235, 121-129.
- Peever, T. L., Wang, K., Hillman, B. I., Foglia, R., Liu, Y.-C., and Milgroom, M. G. 1998. Incidence and diversity of double-stranded RNAs infecting the chestnut blight fungus, *Cryphonectria parasitica*, in China and Japan. *Phytopathology* 88, 811-817.
- Polashock, J. J., Bedker, P. J., and Hillman, B. I. 1997. A mitochondrial dsRNA of *Cryphonectria parasitica*: Ascospore inheritance and mitochondrial recombination. *Molecular and General Genetics (MGG)*, 256, 566-571.
- Bunting, T.E., Plumley, K.A., Clarke, B.B., and Hillman, B.I. 1996. Identification of *Magnaporthe poae* using PCR and examination of its relationship to other fungi by analysis of their nuclear rDNA ITS-1 regions. *Phytopathology* 86, 398-404.
- Halpern, B.T. and Hillman, B.I. 1996. Detection of blueberry scorch virus by reverse transcriptase-polymerase reaction amplification. *Plant Disease* 80, 219-222.
- Oh, C.-S. and Hillman, B.I. 1995. Characterization of a partitivirus from the filamentous ascomycete *Atkinsonella hypoxylon*. *Journal of General Virology* 76, 1461-1470.
- Lawrence, D.L., Rozanov, M.N. and Hillman, B.I. 1995. Autocatalytic processing of the 223 kDa protein of blueberry scorch carlavirus by a papain-like proteinase. *Virology* 207, 127-135.
- Polashock, J.J., Anagnostakis, S.L., Milgroom, M.G., and Hillman, B.I. 1994. Isolation and characterization of a virus-resistant mutant of *Cryphonectria parasitica*. *Current Genetics*, 26, 528-534.
- Enebak, S.A., Hillman, B.I., and MacDonald, W.L. 1994. A hypovirulent isolate of *Cryphonectria parasitica* with multiple, genetically unique dsRNA segments. *Molecular Plant Microbe Interactions* 7, 590-595.
- Chung, P.-H., Bedker, P.J., and Hillman, B.I. 1994. Diversity of *Cryphonectria parasitica* hypovirulence-associated double-stranded RNAs within a chestnut population in New Jersey. *Phytopathology* 84, 984-990.
- Polashock, J.J. and Hillman, B.I. 1994. A small mitochondrial double-stranded (ds) RNA element associated with a hypovirulence of the chestnut blight fungus and ancestrally related to yeast cytoplasmic T and W dsRNAs. *Proceedings of the National Academy of Sciences, USA* 91, 8680-8684.

- Lawrence, D.L. and Hillman, B.I. 1994. Synthesis of infectious transcripts of blueberry scorch carlavirus *in vitro*. *Journal of General Virology*, 75, 2509-2512.
- Hillman, B.I., Halpern, B.T., and Brown, M.P. 1994. A viral dsRNA element of the chestnut blight fungus with a unique genetic organization. *Virology* 201, 241-250.
- Cavileer, T.D., Halpern, B.T., Lawrence, D.M., Podleckis, E.V., Martin, R.R., and Hillman, B.I. 1994. Nucleotide sequence of the carlavirus associated with blueberry scorch and similar diseases, *Journal of General Virology* 75, 711-720.
- Enebak, S.A., MacDonald, W.L., and Hillman, B.I. 1994. Effect of dsRNA associated with isolates of *Cryphonectria parasitica* from the central Appalachians and their relatedness to other dsRNAs from North America and Europe. *Phytopathology* 84, 528-534.
- Scholthof, K.-B., Hillman, B.I., Modrell, B., Heaton, L.A., and Jackson, A.O. 1994. Characterization and detection of sc4: A sixth gene encoded by sonchus yellow net virus. *Virology* 204, 279-288.
- Hillman, B.I., Tian, Y., Bedker, P.J., and Brown, M.P. 1992. A North American hypovirulent isolate of the chestnut blight fungus with European isolate-related dsRNA. *Journal of General Virology* 73, 681-686.
- Hillman, B.I., Anzola, J.V., Halpern, B.T., Cavileer, T.D., and Nuss, D.L. 1991. First field isolation of wound tumor virus from a plant host: Minimal sequence divergence from the type strain isolated from an insect vector. *Virology* 185, 896-900.
- Goldberg, K-B., Modrell, B., Hillman, B.I., Heaton, L.A., Choi, T.-J., and Jackson, A.O. 1991. Structure of the glycoprotein gene of Sonchus yellow net virus, a Plant Rhabdovirus. *Virology* 185, 32-38.
- Shapira, R., Choi, G.H., Hillman, B.I. and Nuss, D.L. (1991). The contribution of defective RNAs to the genetic complexity of a hypovirulence-associated virus of the chestnut blight fungus, *Cryphonectria parasitica*. *EMBO Journal* 10, 741-746.
- Hillman, B.I., Heaton, L.A., Hunter, B.G., Modrell, B., and Jackson, A.O. 1990. Structure of the gene encoding the M1 protein of sonchus yellow net virus. *Virology* 179, 201-207.
- Hillman, B.I., Shapira, R., and Nuss, D.L. 1990. Hypovirulence-associated suppression of host functions in *Cryphonectria parasitica* can be partially relieved by high light intensity. *Phytopathology* 80, 950-956.
- Hearne, P.Q., Knorr, D.A., Hillman, B.I., and Morris, T.J. 1990. The complete genome structure and synthesis of infectious RNA from clones of tomato bushy stunt virus. *Virology* 177, 141-151.

- Heaton, L.A., Hillman, B.I., Zuidema, D., and Jackson, A.O. 1989. A physical map of the genome of sonchus yellow net virus, a plant rhabdovirus with six genes and conserved gene junction sequences. *Proceedings of the National Academy of Sciences, USA* 86, 8665-8668.
- Carrington, J.C., Heaton, L.A., Zuidema, D., Hillman, B.I. and Morris, T.J. 1989. The genome structure of turnip crinkle virus. *Virology* 170, 219-226.
- Rae, B.P., Hillman, B.I., Tartaglia, J., and Nuss, D.L. 1989. Characterization of dsRNA genetic elements associated with biological control of chestnut blight: organization of terminal domains and identification of gene products. *EMBO Journal* 8, 657-663.
- Hillman, B.I., Hearne, P.A., Rochon, D. and Morris, T. J. 1989. Characterization of the coat protein gene and 3' end of tomato bushy stunt virus. *Virology* 169, 42-50.
- Russo, M., Burgyan, J., Carrington, J.C., Hillman, B.I. and Morris, T.J. 1988. Complementary DNA cloning and characterization of cymbidium ringspot virus RNA. *Journal of General Virology* 69, 401-406.
- Hillman, B.I., Carrington, J.C., and Morris, T.J. 1987. A defective interfering RNA that contains a mosaic of plant virus genome. *Cell* 51, 427-433.
- Hillman, B.I., Morris, T.J., and Schlegel, D.E. 1985. Effects of low-molecular-weight RNA and temperature on tomato bushy stunt virus symptom expression. *Phytopathology* 75, 361-365.
- Hoffman, D.F. and Hillman, B. 1984. Observations on the comparative pathogenicity of intact and degraded forms of a calicivirus of *Amyeloides transitella*. *Journal of Invertebrate Pathology* 43, 422-423.
- Morris, T.J., Dodds, J.A., Hillman, B., Jordan, R.L., Lommel, S.A., and Tamaki, S.J. 1983. Viral specific dsRNA: Diagnostic value for plant disease identification. *Plant Molecular Biology Reporter* 1, 27-30.
- Hillman, B., Morris, T.J., Kellen, W.R., Hoffman, D., and Schlegel, D.E. 1982. An invertebrate calici-like virus: evidence for disintegration in host excreta. *Journal of General Virology* 60, 115-123.

### **Book and Proceedings Chapters, including peer reviewed**

- Hillman, B.I., Annisa, A., and Suzuki, N. 2017. Viruses of plant-interacting fungi. *Adv. Virus Res.*, submitted.
- Ghabrial, S.A., Castón, J.R., Coutts, R.H.A., Hillman, B.I., Jiang, D., Kim, D.-H., and Moriyama, H. 2017. Family *Chrysoviridae*: Classification and features. *Arch. Virol.*,



submitted.

- Turina, M., Hillman, B.I., Izadpanah, K., Rastgou, M., and Rosa, C. 2017. ICTV Virus Taxonomy Profile: Ourmiavirus. *J. Gen. Virol.* 98, 129-130.
- Polashock, J.J. and Hillman, B. I. 2017. Blueberry scorch. *in: Compendium of Blueberry, Cranberry, and Lingonberry Diseases and Pests, Second Edition.* J.J. Polashock, F.L. Caruso, A.L. Averill, and A.C. Schilder, eds. 231 pp. APS, St. Paul.
- Polashock, J.J. and Hillman, B. I. 2017. Red ringspot. *in: Compendium of Blueberry, Cranberry, and Lingonberry Diseases and Pests, Second Edition.* J.J. Polashock, F.L. Caruso, A.L. Averill, and A.C. Schilder, eds. 231 pp. APS, St. Paul.
- Hillman, B.I. and Cai, G. 2013. *Narnaviridae*, the smallest RNA viruses. *Advances in Virus Research* 86, 149-176.
- Cai, G. and Hillman, B.I. 2013. *Phytophthora* viruses. *Advances in Virus Research* 86, 327-350.
- Milgroom, M.G. and Hillman, B.I. 2011. The ecology and evolution of fungal viruses. p. 221-257 *in: Hurst, C.J. (ed). Studies in Viral Ecology, Vol. 1.* John Wiley & Sons, Inc. New York.
- Rigling, D., and B. I. Hillman. 2012. Hypovirus (Hypoviridae). Pp. 737-742 *in C. Tidona, and G. Darai, eds. The Springer Index of Viruses.* Springer Verlag, Berlin.
- Hillman, B.I. and Esteban, R. 2012. Family *Narnaviridae*. p. 1025-1030 *in: Virus Taxonomy: Ninth Report of the International Committee on Taxonomy of Viruses.* Elsevier, New York.
- Nuss, D.L. and Hillman, B.I. 2012. Family *Hypoviridae*. p. 999-1003 *in: Virus Taxonomy: Ninth Report of the International Committee on Taxonomy of Viruses.* Elsevier, New York.
- Polashock, J.J. and Hillman, B. I. 2017. Blueberry scorch. *in: Compendium of Blueberry, Cranberry, and Lingonberry Diseases and Pests, Second Edition.* J.J. Polashock, F.L. Caruso, A.L. Averill, and A.C. Schilder, eds. 231 pp. APS, St. Paul.
- Polashock, J.J. and Hillman, B. I. 2017. Red ringspot. *in: Compendium of Blueberry, Cranberry, and Lingonberry Diseases and Pests, Second Edition.* J.J. Polashock, F.L. Caruso, A.L. Averill, and A.C. Schilder, eds. 231 pp. APS, St. Paul.
- Hillman B I. 2008. Mycoreoviruses. *Encyclopedia of Virology, 5 vols.* (B.W.J. Mahy and M.H.V. Van Regenmortel, Editors), pp. 378-383 Oxford: Elsevier.
- Hillman, B. I. and Suzuki, N. 2004. Viruses of *Cryphonectria parasitica*. *Advances in Virus*

*Research*, 63, 423-472.

- Hillman, B. I. 2004. Blueberry Scorch Carlavirus Endopeptidase. *in*: Handbook of Proteolytic Enzymes, 2<sup>nd</sup> Edition. A. J. Barrett and J. F. Woessner, eds. Academic Press, NY. p. 1276-1277.
- Kobayashi, D. Y. and Hillman, B. I. 2005. Fungi, bacteria, and viruses as pathogens of the fungal community. p. 339-421 *in*: The Fungal Community, 3<sup>rd</sup> Edition. J. Dighton, P. V. Oudemans, and J. F. White, eds.
- Mertens, P. and Hillman, B.I. 2005. Genus Mycoreovirus. *In*: Virus Taxonomy: Eighth Report of the International Committee for the Taxonomy of Viruses. C. M. Fauquet *et al.*, eds. Academic Press, NY.
- Nuss, D. L., Hillman, B.I., and Suzuki, N. 2005. Family Hypoviridae. *In*: Virus Taxonomy: Eighth Report of the International Committee for the Taxonomy of Viruses. C. M. Fauquet *et al.*, eds. Academic Press, NY.
- Buck, K. W, Hillman, B.I., Esteban, R., and Tavanzi, S. 2005. Family Narnaviridae. *In*: Virus Taxonomy: Eighth Report of the International Committee for the Taxonomy of Viruses. C. M. Fauquet *et al.*, eds. Academic Press, NY.
- Hillman, B. I. 2004. Viral diseases. *in*: Compendium of Turfgrass Diseases (3<sup>rd</sup> Edition).Smiley, R. W., Dernoden, P. H., and Clarke, B. B. eds. APS Press, St. Paul.
- Hillman, B. I. 2001. Biology and evolution of beneficial and detrimental viruses of animals, plants, and fungi. *Biological Invasions* 3, 255-262.
- Hillman, B. I. 2001. Phytoreoviruses. p. 770-771 *in*: Encyclopedia of Plant Pathology. Malloy, O. C. and Murray, T. D., eds. John Wiley & Sons, NY.
- Hillman, B. I. 2001. Carlaviruses. p. 201-202 *in*: Encyclopedia of Plant Pathology. Malloy, O. C. and Murray, T. D., eds. John Wiley & Sons, NY.
- Hillman, B. I. 2001. Fijiviruses. p. 456-457 *in*: Encyclopedia of Plant Pathology. Malloy, O. C. and Murray, T. D., eds. John Wiley & Sons, NY.
- Hillman, B. I.2001. Oryzaviruses. p 720-721 *in*: Encyclopedia of Plant Pathology. Malloy, O. C. and Murray, T. D., eds. John Wiley & Sons, NY.
- Maromorosch, K. and Hillman, B. I. 2000. Plant disease resistance: Natural mechanisms and engineered resistance. Pp. 130-143 *in*: Encyclopedia of Microbiology, Vol. 3. 2nd Edition. Alexander, M., ed. Academic Press, NY.
- Hillman, B.I., Fulbright, D.W., Nuss, D.L., and Van Alfen, N.K. 2000. Hypoviridae. p. 515-520 *in*:

Virus Taxonomy: Seventh Report of the International Committee for the Taxonomy of Viruses. M.H.V. van Regenmortel *et al.*, eds. Academic Press, NY.

- Hillman, B.I. 2000. Mitovirus. *in*: p. 651-656 *in*: Virus Taxonomy: Seventh Report of the International Committee for the Taxonomy of Viruses. M.H.V. van Regenmortel *et al.*, eds. Academic Press, NY.
- Hillman, B. I. 2000. Mitoviruses. *in*: The Springer Index of Viruses. Tidona, C.A. and Darai, G. eds. (<http://oesys.springer.de/viruses/index.htm>).
- Rigling, D. and Hillman, B. I. 2000. Hypoviridae. *in*: The Springer Index of Viruses. Tidona, C.A. and Darai, G. eds. (<http://oesys.springer.de/viruses/index.htm>).
- Hillman, B. I. and Nuss, D. L. 1999. Phytoreoviruses (Reoviridae). pp. 1262-1267 *in*: Encyclopedia of Virology, 2nd Edition. Academic Press, NY.
- Ghabrial, S.A. and Hillman, B.I. 1999. Fungal partitiviruses: Partitiviridae. *in*: Encyclopedia of Virology, 2nd Edition. Academic Press, NY.
- Hillman, B. I. 1999. Blueberry Scorch Carlavirus Endopeptidase. pp. 691-693 *in*: Handbook of Proteolytic Enzymes. A. J. Barrett and J. F. Woessner, eds. Academic Press, NY.
- Gould, A. B. and Hillman, B. I. 1997. Sanitation, Eradication, Exclusion, and Quarantine. pp 223-241 *in*: Environmentally Safe Approaches to Crop Disease Control. J. Receigl, ed. CRC Press, Boca Raton.
- Hillman, B.I. 1997. Introduction to Plant Virology. pp. 3-12 *in*: Plant Virology Protocols: From virus isolation to transgenic resistance. S. Taylor and G. Foster, eds. Humana Press, Totawa, NJ.
- Hillman, B.I., Lawrence, D.M., and Halpern, B.T. 1995. Characterization and detection of blueberry scorch carlavirus and red ringspot caulimovirus. *Journal of Small Fruit and Viticulture* 3, 83-93.
- Hillman, B.I. and Lawrence, D.L. 1995. Carlaviruses. p. 35-50 *In*: Pathogenesis and Host-Parasite Specificity in Plant Disease. III. Viruses and Viroids (Kohmoto, K., Singh, R.P., Singh, U.S., and Zeigler, R. eds). Pergamon Press, London. 417 pp.
- Hillman, B.I., Fulbright, D.W., Nuss, D.L., and Van Alfen, N.K. 1995. Hypoviridae. p. 261-264 *in*: Sixth Report of the International Committee for the Taxonomy of Viruses. F.A. Murphy, C.M. Fauquet, D.H.L. Bishop, S.A. Ghabrial, A.W. Jarvis, G.P. Martelli, M.P. Mayo, and M.D. Summers, eds. Springer-Verlag, NY. 580 pp.
- Hillman, B.I., Polashock, J.J., Brown, M.P., and Halpern, B.T. 1994. Genetic organization of the dsRNA element associated with strain NB58 of the chestnut blight fungus and preliminary

examination of a dsRNA-free mutant. *in*: Proceedings of the International Chestnut Conference. West Virginia University Press, Morgantown.

Oh, C-S., and Hillman, B.I. Identification and Partial Characterization of dsRNAs and Plasmids of *Atkinsonella hypoxylon*. Proceedings of the International Plant Molecular Biology Symposium, Seoul, Korea, August, 1993.

Hillman, B. (1991). Viral Diseases. *in*: Compendium of Turf Diseases. (Second Edition). R. Smiley, P. Dernoeden, and B. B. Clarke, eds. APS Press, St. Paul, MN.

Hillman, B.I., Rae, B.P., Tartaglia, J. and Nuss. D.L. 1989. Elucidating the structure and function of double-stranded RNA genetic elements associated with biological control of *Cryphonectria (Endothia) parasitica*. In: "Molecular Biology of Plant-Pathogen Interactions". Vol. 101. Alan R. Liss, Inc., New York.

Morris, T.J., and Hillman, B.I. 1989. Defective interfering RNAs associated with tomato bushy stunt virus. In: "Molecular Biology of Plant-Pathogen Interactions", Vol. 101. Alan R. Liss, Inc., New York.

## **ABSTRACTS**

Total of more than 150 abstracts of presentations since 1981.

## **GRANTS**

Total support from 10 USDA and NSF grants (PI or co-PI) > \$3 M since 1989. Total support from growers, industry and university grants > \$1.5 M since 1989.

1986 William Carroll Smith Fellowship, University of California, Berkeley.

1985 Chancellor's Patent Fund Grant, University of California, Berkeley.

## **AFFILIATIONS**

American Association for the Advancement of Science, member

American Society for Microbiology, member

American Phytopathological Society, member

(Virology Committee, 1990-1992; 1994-1996)

American Society for Virology, life member

American Type Culture Collection

Coordinator of Carlavirus stock cultures, 1994-present

Genetics Society of America, member

Northeast Division, American Phytopathological Society, member  
(Graduate Student Award Committee, 1990-1992; Chair 1992  
Site Selection Committee 1993-1995; Chair 1995)  
International Committee for the Taxonomy of Viruses, member  
Member, Executive Committee 1999-present  
Fungal Virus Subcommittee Chair, 1999-2005  
*Hypoviridae* study group Chair, 1992-2005  
*Narnaviridae* study group member, 1994-present

## HONORS, AWARDS, SERVICE

2008 Fellow, American Phytopathological Society

2007-2010 Editor, *Virus Research*

2006-07 Panel Manager, USDA-CSREES National Research Initiative Panel  
Microbial Biology: Biology of Plant-Microbe Associations

2003 Award of Merit, Northeast Division of the American Phytopathological Society

1999-2002 Editor-in-Chief, *Phytopathology*.

1996-1999 Senior Editor of Virology Section, *Phytopathology*.

1995-1996 Associate Editor, *Phytopathology*.

1999-Present Member of Executive Committee and Chair of Fungal Virus Subcommittee,  
International Committee for the Taxonomy of Viruses.

1997-Present Invited member Virus Biodiversity Inventory, Guanacaste, Costa Rica.

1997 USDA Group Honor Award for Excellence, NE140 Regional Research Project.

1995 Rutgers University Presidential Board of Trustees Fellowship for Scholarly  
Excellence.

1995 Cook College/New Jersey Agricultural Experiment Station Research Excellence  
Award.

1994&5, 2006 USDA/NRICGP Plant Pathogens Panel Member, Washington DC.

1990- Present *Ad hoc* reviewer for USDA/NRICGP; NSF; USAID; BARD; AFRC (UK); North  
Carolina Biotech. Center; Idaho State Board of Education; National Science  
Council (R.O.C.); FWF (Austria).

1989- Present *Ad hoc* reviewer for *Virology*; *Virus Research*; *Journal of General Virology*; *Journal of Virology*; *Archives of Virology*, *Virus Genes*, *Phytopathology*; *Plant Disease*; *Nature Microbiology Reviews*; *Proc. Natl. Acad. Sci. USA*; *RNA*; *Eukaryotic Cell*; *Plant Cell*; *Gene*; *Genetics*; *HortScience*; *Plant Science*; *Current Genetics*; *Canadian Journal of Botany*; *Fungal Genetics and Biology*, *Mycologia*; *Mycology Research*; *Plant Pathology*; *Physiological and Molecular Plant Pathology*; *Molecular Ecology*; *Molecular Plant-Microbe Interactions*; *Molecular Genetics and Genomics*; *Molecular Ecology*; *Applied and Environmental Microbiology*; *European Journal of Plant Pathology*; *European Journal of Forest Pathology*; *Journal of Proteomics*; *John Wiley & Sons*; *Academic Press*.

### **Department Committees and Service**

1998-2001: Associate Chair, Plant Pathology Dept., Rutgers University  
1996-1999: Plant Sciences Cluster Council  
1995-1998: Plant Biology Graduate Program Director  
1992-1995: Plant Pathology Graduate Program Director

### **College Committees and Service**

2000-Present: George H. Cook Honors Program Committee Member  
1997-2000: Cook College Planning Committee  
1996-1997: Cook College Council  
1996-1997: Cook General Honors Program Committee  
1994-1995: Cook College Nominating Committee  
1989-Present: Cook General Honors Program interviewer

### **University Committees and Service**

2006-present Board of Managers, New Jersey Agricultural Experiment Station  
2000-2003: University Senate, representing the Graduate School, New Brunswick  
1989-Present: Faculty Graduation Marshal  
1995-1996: New Brunswick Faculty Council Research Committee  
1993-1996: Biological Sciences Area Committee

### **Faculty Search Committees (appointee in parenthesis)**

2008: Director of Business Office  
2008: Founding Director, Institute of Food, Nutrition & Health  
2004: Extension/Plant Biol. & Pathol. – Vegetable Pathologist (Christian Wyenandt)  
2001: Cook College – Chair, Plant Biol. & Pathol. (James White)  
1997: \* Plant Pathology Dept/AgBiotech Center – Turfgrass Biotech. (Faith Belanger)  
1996: Extension/Plant Pathology Dept. – Tree Fruit Pathologist (Norm Lalancette)  
1995: \* Plant Pathology Dept. – Mycologist (James White)

1993: Cook College – Dean of Research and Director of NJAES (Rod Sharp)  
1993: AgBiotech Center/Plant Pathology Dept. – Virologist (Nilgun Tumer)  
1992: Plant Pathology Dept. – Blueberry/Cranberry Pathologist (Peter Oudemans)  
1990: Plant Pathology Dept. – Bacteriologist (Donald Kobayashi)  
\* Committee Chair

**Multistate Research Projects**

NE1333 (previously NE140; NE1015; NE1033), Biological Improvement of Chestnut;  
Chair, 1995; 2009

NE14/WCC20, Viruses and Virus-like Diseases of Fruit Trees