

**BIOGRAPHICAL SKETCH**  
**BRADLEY IAN HILLMAN**

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**CAREER EXPERIENCE**

|              |  |
|--------------|--|
| 2001-Present | Professor, Dept. of Plant Biology, Rutgers University  |
| 2007-2020    | Director for Research, New Jersey Agricultural Experiment Station, Rutgers University            |
| 2006-2007    | Vice Chair, Dept. of Plant Biology and Pathology, Rutgers University                             |
| 1997-1999    | Vice Chair, Dept. of Plant Pathology, Cook College, Rutgers University                           |
| 1995-2001    | Associate Professor, Cook College, Rutgers University  |
| 1995-1998    | Director, Plant Biology Graduate Program, Rutgers University                                     |
| 1992-1995    | Director, Plant Pathology Graduate Program, Rutgers University                                   |
| 1989-1995    | Assistant 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, Dept. of Plant Pathology, U.C. Berkeley. |
| 1983-1986    | Graduate Research Assistant with Dr. T. J. Morris, Dept. of Plant Pathology, U.C. Berkeley.      |
| 1978-1983    | Research Assistant, Dept. of Plant Pathology, U.C. Berkeley.                                     |

**EDUCATION**

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

**TEACHING**

Comparative Virology (11:126:407) Undergraduate virology course taught through the Biotechnology Program. Alternate years; since 1999. 3 credits  
Core Seminar in Plant Biology (16:765:609-610). Graduate seminar of readings, discussion, and invited seminars. Alternate years; since 2005. 2 credits.  
Plant Virology (16:765:535) Graduate level plant virology course covering basic and applied aspects, with laboratory. Alternate years as required; Since Fall 1989. 3 credits.

(Total of 10 different courses taught varying numbers of times since 1989)

**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, 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  
*Hypoviridae* study group, 1992-present, Chair, 1992-2005  
*Totivirus* study group 2014-present  
*Partitivirus* study group, 2011-present  
*Chrysovirus* study group, 2011-present  
*Narnaviridae* study group member, 1994-present; Chair 2009-Present  
*Reoviridae* study group member, 2003-present

### **HONORS, AWARDS, SERVICE**

2008 Fellow, American Phytopathological Society  
2007-2010 Editor, *Virus Research*  
2007 Manager, USDA NRI Panel on Plant Microbe Interactions  
1999-2004 Executive Committee, International Committee for the Taxonomy of Viruses  
2003 Award of Merit, Northeast Division of American Phytopathological Society  
1999-2002 Editor-in-Chief, *Phytopathology*  
1996-1999 Senior Editor of Virology Section, *Phytopathology*  
1995- 1996 Associate Editor, *Phytopathology*  
1995 Rutgers University Presidential Board of Trustees Fellowship for Scholarly Excellence  
Awarded following promotion to 3-5 faculty submitting the strongest tenure packets in  
the university.  
1995 Cook College/New Jersey Ag. Experiment Station Research Excellence Award.  
1994, 95, 2006 USDA/NRICGP Plant Pathogens Panel Member, Washington DC.  
1990- Pres *Ad hoc* reviewer for USDA/NRICGP, NSF, USAID, BARD, AFRC (UK), North  
Carolina Biotech. Center, Idaho State Board of Education  
1989- Pres *Ad hoc* reviewer for: *Virology*; *Virus Research*; *Journal of General Virology*; *Journal of  
Virology*; *Viruses*; *Virus Evolution*; *Journal of Virological Methods*; *Current Opinions in  
Virology*; *Archives of Virology*; *mBio*; *Journal of Proteome Research*; *Phytopathology*;  
*Plant Disease*; *Science Advances*; *Nature - Scientific Reports*; *Nature – Communications  
Biology*; *Proc. Natl. Acad. Sci. USA*; *RNA*; *Plant Cell*; *Gene*; *Genetics*; *HortScience*;  
*Plant Science*; *Canadian Journal of Botany*; *Mycologia*; *Mycology Research*; *Plant  
Pathology*; *Physiological and Molecular Plant Pathology*; *Peer J*; *PLOS One*; *PLOS  
Pathogens*; *Molecular Ecology*; *Molecular Plant-Microbe Interactions*; *Molecular  
Genetics and Genomics*; *Applied and Environmental Microbiology*; *Applied  
Microbiology*; *European Journal of Plant Pathology*; *European Journal of Forest  
Pathology*; *Evolution*; *Forests*; *Frontiers in Microbiology*; *John Wiley & Sons*; *Academic  
Press*.

### **Book and Proceedings Chapters – 37 since 1989**

**Abstracts** - Total of more than 100 abstracts of presentations since 1981

**Grants** Total direct support from ten USDA and NSF competitive grants (4 PI, 3 Co-PI, 3 collaborator) >  
\$2M to BIH since 1991; from internal, industry, and noncompetitive grants > \$1.5M to BIH since 1989

## **REFEREED PUBLICATIONS, last 4 years – Bradley I. Hillman**

(Works with BIH as first and last author are from BIH lab; total of 83 since 1981; current Google Scholar H-index =45, 7984 total citations)

Suzuki N, Cornejo C, Aulia A, Shahi S, Hillman BI, Rigling D. 2021. In-tree behavior of diverse viruses harbored in the chestnut blight fungus, *Cryphonectria parasitica*. *Journal of Virology* 95:e01962-20. <https://doi.org/10.1128/JVI.01962-20>.

Crouch, J.A., Dawe, A., Aerts, A., Barry, K., Churchill, A.C.L., Grimwood, J., Hillman, B.I., Milgroom, M.G., Pangilinan, J., Smith, M., Salamov, A., Schmutz, J., Yadav, J.S., Grigoriev, I.V., and Nuss, D.L. 2020. Genome sequence of the chestnut blight fungus *Cryphonectria parasitica* EP155: A fundamental resource for an archetypical invasive plant pathogen. *Phytopathology*, 110(6):1180-1188. doi: 10.1094/PHYTO-12-19-0478-A.

Cai, G., Fry, W.E., and Hillman, B.I. 2019. PiRV-2 stimulates sporulation in *Phytophthora infestans*. *Virus Research*, 271, 197674.

Aulia, A., Andika, I.B., Kondo, H., Hillman, B.I., and Suzuki N. 2019. A symptomless hypovirus, CHV4, facilitates stable infection of the chestnut blight fungus by a coinfecting reovirus likely through suppression of antiviral RNA silencing. *Virology* 533: 99-107.

Shahi, S., Eusebio-Cope, A., Kondo, H., Hillman, B.I., and Suzuki N. 2019. Investigation of host range and host defense against a mitochondrially replicating mitovirus. *Journal of Virology*, 2019 93 (6): e01503-18. doi: 10.1128/JVI.01503-18.

Muehlbauer, M. F., Morey, K., Honig, J. A., Zhang, N., Hillman, B.I, and Molnar, T. J. 2019. Characterization of genetic diversity and population structure of *Anisogramma anomala* using microsatellite markers. *Phytopathology*, 109: 1074-1082. Published Online: 29 Apr 2019 <https://doi.org/10.1094/PHYTO-06-18-0209-R>.

Zhang, N., Cai, G., Price, D.C., Crouch, J.A., Gladieux, P., Hillman, B.I., Khang, C.H., LeBrun, M.-H., Lee, Y.-H., Luo, J., Qiu, H., Veltri, D., Wisecaver, J.H., Zhu, J., and Bhattacharya, D. 2018. Genome wide analysis of the transition to pathogenic lifestyles in Magnaporthales fungi. *Scientific Reports*, Online April 12, 2018.

Cai, G., Meyers, K., Fry, W.E., and Hillman, B.I. 2018. PiRV-2, a novel RNA virus from *Phytophthora infestans*, does not belong to any known virus groups *Archives of Virology*, Online Oct. 20, 2018.

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

Hillman, B.I. and Milgroom, M.G. 2021. The ecology and evolution of fungal viruses. *In: Studies in Viral Ecology*, 2nd Edition C.J. Hurst, ed. John Wiley & Sons, NY. 48 pp text, 7 figures, 1 table. In press.

- Hillman B I. and Cohen, A. 2019. Mitoviruses. Encyclopedia of Virology, 5 vols. (B.W.J. Mahy and M.H.V. Van Regenmortel, Editors), Oxford: Elsevier. 16 pp text, 8 figures. In press.
- Hillman B I. and Cohen, A. 2019. Mycoreoviruses. Encyclopedia of Virology, 5 vols. (B.W.J. Mahy and M.H.V. Van Regenmortel, Editors), Oxford: Elsevier. 16 pp text, 3 figures. In press.
- Hillman B I. and Cohen, A. 2019. Totiviruses. Encyclopedia of Virology, 5 vols. (B.W.J. Mahy and M.H.V. Van Regenmortel, Editors), Oxford: Elsevier. 13 pp text, 2 figures. In press.
- Kotta-Loizou, I., Caston, J.R., Coutts, R.H.A., Hillman, B.I., Jiang, D., Kim, D.H., Moriyama, H., Suzuki, N., ICTV Report, C., 2019. ICTV Virus Taxonomy Profile: Chrysoviridae. J Gen Virol. doi: 10.1099/jgv.0.001383.
- Sato, Y., Miyazaki, N., Kanematsu, S., Xie, J., Ghabrial, S. A., Hillman, B. I., Suzuki, N., and ICTV Report Consortium. 2019. ICTV Virus Taxonomy Profile: Megabirnaviridae. Journal of General Virology 100, 1269-1270.
- Suzuki, N., Ghabrial, S.A., Kim, K.H., Pearson, M., Marzano, S.L., Yaegashi, H., Xie, J., Guo, L., Kondo, H., Koloniuk, I., Hillman, B.I., ICTV Report, C., 2018. ICTV Virus Taxonomy Profile: Hypoviridae. Journal of General Virology 99, 615-616.
- Ghabrial, S.A., Caston, J.R., Coutts, R.H.A., Hillman, B.I., Jiang, D., Kim, D.H., Moriyama, H., ICTV Report, C., 2018. ICTV Virus Taxonomy Profile: Chrysoviridae. Journal of General Virology 99, 19-20.
- Hillman, B.I., Aulia, A., and Suzuki, N. 2017. Viruses of plant-interacting fungi. Advances in Virus Research 100, 99-116.
- Turina, M., Hillman, B.I., Izadpanah, K., Rastgou, M., and Rosa, C. 2017. ICTV Virus Taxonomy Profile: Ourmiavirus. Journal of General Virology 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.