

Prof. Dr. Ir. ARIENA H.C. VAN BRUGGEN

Emeritus Professor of Plant Pathology

Dept. of Plant Pathology and the Emerging Pathogens Institute

Hull Road, PO Box 110680, Gainesville, FL 32611-0680

E-mail: ahcvanbruggen@ufl.edu

EDUCATION

- PhD in Plant Pathology (1985) with a Minor in Vegetable Crops, Cornell University, Ithaca, NY, USA
- MSc in Plant Pathology (1976) Agricultural University, Wageningen, the Netherlands

EMPLOYMENT

- Professor of Plant Pathology and Epidemiologist (2009-2018), University of Florida, USA
- Professor and Chair of Biological Farming Systems (1999-2009), Wageningen, the Netherlands
- Professor in Plant Pathology, with emphasis on vegetable crops (1996-1999), Univ. of California at Davis, CA
- Associate Professor in Plant Pathology, with emphasis on vegetable crops (1992-1996), UC Davis
- Assistant Professor in Plant Pathology, with emphasis on vegetable crops (1986-1992), UC Davis
- Post-doctoral Associate in Environmental Biology (1985-1986), Boyce Thompson Institute, Ithaca, NY
- Research and Teaching Assistant in Plant Pathology (1980-1984), Cornell University, Ithaca, NY
- Associate Expert in Plant Pathology (1976-1980), Food and Agricultural Organization of the U.N., in Ethiopia

INTERNATIONAL AWARDS

- Fellow of the American Phytopathological Society (2012).
- APS Ciba-Geigy award from the American Phytopathological Society (1993), for 'significant contributions to the advancement of knowledge of plant diseases and their control'
- Jakob Eriksson Gold Medal from the Jakob Eriksson Prize Fund Commission, Swedish Academy of Sciences (1993), in recognition of 'your original and thorough work on the new disease, 'corky root' of lettuce, caused by a hitherto unknown pathogen, the bacterium *Rhizomonas suberifaciens*.'

RECENT GRANTS (2012-2018)

- 'Modeling of Huanglongbing spread in citrus groves and effects of management strategies' Esther B. O'Keefe Foundation, 2014-2017, PI-Ariena van Bruggen \$340,000.
- 'Collaborative Research and Capacity Building of Sokoni University of Agriculture and the National Agricultural Research System in Tanzania' USAID IAGRI, 2012-2016, PI Walter Bowen (\$177,297 for van Bruggen).
- 'The leaf litter cycle of citrus black spot and improvements to current management practices' CRDF, 2013-2016, PI Megan Dewdney, \$600,000 (\$43,000 for van Bruggen)
- 'The effects of antibiotic injections for citrus HLB control on microbial community composition and antibiotic resistance as well as susceptibility of citrus to *Phytophthora* root rot', FDACS, 2014-2015, PI Ariena van Bruggen, co-PI Erica Goss, \$90,000.
- 'Climate change adaptation needs for food security in the Andes' USAID-linkage fund with CIP, Ecuador, 2012-2014, PI-Walter Bowen \$130,000 (\$55,000 for van Bruggen and Goss).
- 'Quality assessment of the U.S. Greenhouse Certification Program' USDA APHIS, 2010-2014, PI, \$462,773.

- ‘Science-based evaluation of regional risks for *Salmonella* contamination of irrigation water at mixed produce farms in the Suwannee River watershed’, Center for Produce Safety, 2010-2012, Co-PI on a collaborative grant with Anita Wright, Paige Adams and Michelle Danyluk, \$398,922.
- ‘Prevention of the spread of citrus black spot outside of southern Florida’ USDA APHIS, 2011-2012, PI, \$50,000.
- ‘Quantification of the risk of infection of citrus trees with the Huanglongbing pathogen from contaminated seeds’, Smallwood Foundation, PI, with Glenn Morris, 2010-2012, \$41,000.

RECENT RESEARCH AND TEACHING ACTIVITIES AT THE UNIVERSITY OF FLORIDA

Prof. Van Bruggen carried out fundamental and applied research on ecosystem health in relation to the invasion by plant and human pathogens. A healthy ecosystem is characterized by a dynamically balanced and diverse community of organisms, stability and resilience after disturbances, minimal losses of nutrients and energy, and sporadic outbreaks of pests and diseases. We hypothesized that the extent of oligotrophy, in terms of easily available carbon sources and mineral nutrients, largely determines the health status of an ecosystem. This concept was developed based on research results on the survival and spread of enteric human pathogens (*Escherichia coli* O157:H7 and *Salmonella enterica*) from manure to soil, water and plants. A probabilistic risk model was developed for the contamination of a lettuce crop by manure, soil, and water contaminated with *E. coli* O157:H7. Internalization of *Salmonella enterica* serovar Typhimurium in tomato leaves, stems and fruits was shown to occur from contaminated water and aerosols. Simulation models were developed for the survival of *E. coli* O157:H7 and *Salmonella* Typhimurium in manure, manure-amended soil and water.

Besides research on ecosystem health and transmission routes of enteric pathogens, the integration of various temporal and spatial scales of ecological processes and the dispersal capacity of (re)emerging pathogens in agroecosystems have been recurrent themes in van Bruggen’s research projects. The dynamics of disease progress can be understood better when we take the response time into account for the different developmental stages of the pathogen in relation to the hourly dynamics of environmental conditions rather than average conditions. This was shown for the plant pathogens *Bremia lactucae* and *Phytophthora infestans* as well as for the human pathogens *E. coli* O157:H7 and *S. enterica* serovar Typhimurium. This research has implications for the effects of climate change on pathogen growth. This work resulted in a simulation model for the potential effects of climate change on late blight development. In addition, simulation models were developed for peanut late leaf spot and citrus huanglongbing, as well as spatial distribution and risk models for citrus huanglongbing and black spot, banana Xanthomonas wilt (BXW), and blueberry twig blight. We showed that BXW is threatening food security in Eastern Africa and proposed changes in the management of this disease.

Since 2016, Prof. van Bruggen has been interested in potential effects of the herbicide glyphosate on microbial communities in soil, plants, and animals and the consequences for plant and animal health.

Prof. Van Bruggen developed and taught a course on plant disease epidemiology and a colloquium series on the use of statistical methods in plant pathology. Van Bruggen also participated in the discussion group One Health at the Emerging Pathogens Institute.

MEMBERSHIP OF PROFESSIONAL ORGANIZATIONS

- International Society of Plant Pathology
- American Phytopathological Society
- Netherlands Society for Plant Pathology
- Royal Holland Society of Sciences

RECENT FUNCTIONS

University of Florida and USA:

- 2009-2015 Member of the International Program Advisory Team (IPAT), University of Florida
2014-2015 Chair of the International Program Advisory Team (IPAT), University of Florida
2010-2011 Member of the NRC committee on Mycoherbicides for eradicating Illicit Drug Crops
2009-2012 Member of the graduate student admission committee in Plant Pathology, UF
2009-2012 Member of curriculum committee in Plant Pathology, University of Florida

International Activities

- 2005-2022 Member of the Scientific Council of Agroinnova, Turino, Italy
2000-2022 Member of the Jakob Eriksson Prize Fund Commission of the International Society of Plant Pathology
2016 Teaching an international course on the epidemiology of bacterial plant diseases in Finland
2015-2018 Member of the Plant Health Panel of the European Food Safety Authority
2011-2013 Symposium organizer for the International Congress of Plant Pathology in 2013
2004-2009 Member of the European Network of Organic Agriculture University Teachers (ENOAT)

International consultancies

- 2019 Opponent for the PhD thesis defense by Florence Uwamahoro on 05/29/2019 in Uppsala, Sweden
2009 Member of the evaluation committee for acceptance of Birgitta Rämert as Full Professor at the Swedish Agricultural University at Uppsala (stationed in Alnarp)
2006 Member of the selection committee for an Epidemiology Professor in Uppsala, Sweden
2005 Evaluation mission for an EU potato brown rot project in Egypt (Egypt-EU Bacterial Brown Rot Project phase II; SEM 03/220/51A), January 7-14, 2005.
2005 Evaluation mission for a midterm review of the FAO project 'IPM of Vegetables in South and Southeast Asia'; visits to Thailand, Yunnan province of China, and Cambodia, October 29 November 19, 2005.

Wageningen University and the Netherlands:

- 2005-2009 Member of the Board of Biologica, Dutch umbrella organisation for organic farming and food
2004-2009 Chair of the Education Committee for the BSc Organic Production Science and the MSc Organic Agriculture
2000-2009 Graduate School Production Ecology and Resources Conservation research committee
2007-2008 Member of working group for Field and Vegetable Crops of Biologica
2006-2008 Wageningen University Tenure Track Committee
2006-2008 Member of the evaluation committee for NWO-Rubicon proposals (NWO = Dutch equivalent of NSF)

American Phytopathological Society:

- 1995-2000 Liaison Officer of the APS to the International Society of Plant Pathology, ISPP
1996-1999 APS Press Senior Editor
1991-1998 Epidemiology Committee
1994-1998 Office of International Programs

International Society of Plant Pathology:

- 2000-2022 Member of the Jakob Eriksson Prize Fund Commission of the ISPP
2011-2013 Symposium organizer ICPP 2013
1998-2009 Council member

SUPERVISION OF PhD THESES (total main advisor 18, total co-advisor 19)

- Shimwela, M. (2016). Spatio-temporal analysis and modeling of the spread of banana Xanthomonas wilt (bxw) and citrus huanglongbing (hlb): implications for disease control. PhD thesis, University of Florida (major professor)
- Senechkin, I.V. (2013) Oligotrophic Bacteria and Root Disease Suppression in Organically Managed Soils, Wageningen University (major professor)
- Leoni Velazco, C. (2013) Crop rotation design in view of soil borne pathogen dynamics. A methodological approach illustrated with *Sclerotium rolfsii* and *Fusarium oxysporum* f.sp. *cepae*, Wageningen University (major professor)
- Hughes, M. (2012) The Development and Implementation of a Laurel Wilt Resistance Screening Program on Redbay (*Persea borbonia*), University of Florida (co-advisor)
- Young, H. (2012) Biology of *Phakopsora pachyrhizi*, the causal agent of soybean rust, in Florida, University of Florida (co-advisor).
- Wright, A. (2011) Fungi in the Botryosphaeriaceae causing stem blight on *Vaccinium* spp. in the southeastern United States and stem blight disease management on southern high bush blueberries in Florida. University of Florida (co-advisor).
- Singh, M. (2011) Physiological consequences of late leaf spot on peanut (*Arachis hypogaea* L.) cultivars of differing resistance. University of Florida (co-advisor)
- Semenov, A.V. (2008) Ecology and modelling of *Escherichia coli* O157:H7 and *Salmonella enterica* Typhimurium in cattle manure and soil. Wageningen University (major professor).
- Hiddink, G. (2008) Suppression of Soilborne Pathogens in Mixed Cropping Systems. Wageningen University (major professor).
- Hadgu, K.M. (2008) Temporal and Spatial Changes in Land Use Patterns and Biodiversity in Relation to Farm Productivity at Multiple Scales in Tigray, Ethiopia. Wageningen University (major professor).
- Jellema, A. (2008) Analysis and Design of Multifunctional Agricultural Landscapes. A Graph Theoretic Approach. Wageningen University (co-advisor)
- Franz, E. (2007) Ecology and Risk Assessment of *E. coli* O157:H7 and *Salmonella* Typhimurium in the Primary Lettuce Production Chain. Wageningen University (major professor)
- Klerks, M.M. (2007) Quantitative detection of *Salmonella* spp. and the specific interaction with *Lactuca sativa*. Wageningen University (major professor)
- Ndiaye, M. (2007) Ecology and Management of Charcoal Rot (*Macrophomina phaseolina*) on Cowpea in the Sahel. Wageningen University (major professor)
- Van Rijn, E. (2007) Disease suppression and phytosanitary aspects of compost. Wageningen University (co-advisor).
- Messiha, N.A.S. (2006) Bacterial Wilt of Potato (*Ralstonia solanacearum* race 3, biovar 2): Disease Management, Pathogen Survival and Possible Eradication. Wageningen University (major professor).
- Mancini, F. (2006) Impact of Integrated Pest Management Farmer Field Schools on health, farming systems, the environment, and livelihoods of cotton growers in Southern India. Wageningen University (PhD *cum laude*) (major professor).
- Zelenev, V.V. (2004) Spatial and temporal fluctuations in bacteria, microfauna and mineral nitrogen in response to a nutrient impulse in soil. Wageningen University (major professor).
- Goud, J.C. (2003) Verticillium wilt in trees. Detection, prediction and disease management. Wageningen University (co-advisor)
- Smeding, F.W. (2001) Steps towards food web management on farms. Wageningen University (co-advisor)
- Boff, P. (2001) Epidemiology and biological control of grey mould in annual strawberry crops.

- Wageningen University (co-advisor)
- Hao, J. (2000) Comparative analyses of lettuce drop epidemics caused by *Sclerotinia minor* and *S. sclerotiorum* and disease management through crop rotation. UC Davis (co-advisor)
 - Bo-Ming Wu (1999) Epidemiology and forecasting of downy mildew on lettuce. UC Davis (major professor)
 - Greer, Ch. (1999) Epidemiology of rice blast. UC Davis (co-advisor)
 - Guzman-Plazola, R.A. (1997) Development of a spray forecast model for tomato powdery mildew (*Leveillula taurica* (Lev.) Arn.). UC Davis (co-advisor)
 - Grunwald, N. (1997) Characterization of soil nutrient and microbial variables associated with *Pythium aphanidermatum* and *Rhizoctonia solani* growth and tomato damping-off during short-term cover crop decomposition. UC Davis (major professor)
 - Little, E. (1995) Etiology and epidemiology of celery bacterial blight in California, and molecular detection and characterization of three *Pseudomonas syringae* pathovars. UC Davis (co-advisor)
 - Broome, J. (1994) Cultural and chemical control of Botrytis bunchrot of table grapes in Chile. UC Davis (co-advisor)
 - Scherm, H.W. (1994) Biometeorology, Epidemiology, and Prediction of Downy Mildew of Lettuce (*Bremia lactucae*) in Coastal California. UC Davis (major professor)
 - Café, A. (1993) Effects of irrigation management on *Phytophthora capsici* root rots of bell pepper, squash, and tomato. UC Davis (co-advisor)
 - Supkoff, D. (1993) Population dynamics of *Chondrilla juncea* (Rush skeletonweed) and biological control agents in California. UC Davis (co-advisor)
 - Workneh, F. (1993) Comparison of severity of corky root (*Pyrenochaeta lycopersici*) and Phytophthora root rot (*Phytophthora parasitica*) on tomato and associated soil and plant variables on organic and conventional farms. UC Davis (major professor)
 - Snapp, S. (1992) Salinity effects on root growth, root death and severity of infection by *Phytophthora parasitica* Dast. in tomato (*Lycopersicon esculentum* Mill.). UC Davis (co-advisor)
 - O'Brien, R.D. (1992) Epidemiology of corky root disease of lettuce and population dynamics of the causal agent *Rhizomonas suberifaciens*. UC Davis (major professor)
 - Neher, D. (1990) Inoculum density, furrow irrigation and soil temperature effects on the epidemiology of Phytophthora root rot of processing tomatoes. UC Davis (co-advisor).

In addition, van Bruggen supervised innumerable MS students at UC Davis, Wageningen University and the University of Florida.

RECENT INVITED PRESENTATIONS

- Van Bruggen, A.H.C. 2022. Het indirecte effect van glyfosaat (actieve stof in Roundup) op de gevoeligheid voor ziekten door veranderingen in het microbioom [The indirect effect of glyphosate (active ingredient of Roundup) on susceptibility to diseases through changes in the microbiome]. Invited presentation at Rotary, Borne, on February 24, 2022.
- Van Bruggen, A.H.C. 2021. Het indirecte effect van glyfosaat (actieve stof in Roundup) op de gevoeligheid voor ziekten door veranderingen in het microbioom [The indirect effect of glyphosate (active ingredient of Roundup) on susceptibility to diseases through changes in the microbiome]. Invited presentation at Promix, Enchede, on May 3, 2021, via Zoom.
- Van Bruggen, A.H.C. 2020. Indirect effects of glyphosate on plant and animal health through its effects on microbial communities. Invited presentation at the international meeting Innovative Strategies to Improve Plant Health in the Horticultural Sector, organized by AgroInnova on March 18, 2020, in Torino, Italy.
- Van Bruggen, A.H.C. 2019. Soil, Plant, Animal, and Human Health in Organic Agroecosystems. Invited seminar, Department of Plant Sciences, Agricultural University at Uppsala, Sweden, on

05/28/2019.

- Van Bruggen, A.H.C. 2018. Soil, Plant, Animal, and Human Health in Organic Agroecosystems. Invited seminar, Department of Plant and Soil Science, University of Vermont, Burlington, Vermont, September 28, 2018.
- Van Bruggen, A.H.C. 2018. One Health - Microbial cycling as a connecting force for soil, plant, animal, human and ecosystem health. Invited seminar, Department of Plant Pathology, University of California at Davis, April 16, 2018.
- Van Bruggen, A.H.C. 2018. Microbial cycling as a connecting force for soil, plant, animal, human and ecosystem health. International Symposium on One Health- Microbial Cycling in Food Webs at the University of Florida, Gainesville, Florida, January 16, 2018.
- Van Bruggen, A.H.C. 2017. "Risk assessment and mitigation of the introduction and spread of new plant pathogens in a changing world". Keynote address at the 12th European Foundation for Plant Pathology conference, May 29 - June 2, 2017.
- Van Bruggen, A.H.C. 2017. "Impediments to and unique contributions of women scientists in the health sciences". Emerging Pathogens Institute, February 14, 2017.
- Van Bruggen, A.H.C. 2016. "Climate Change: Effects of Average Temperatures versus Daily Oscillations on Plant Pathogens and Insects". Emerging Pathogens Institute, November 7, 2016.
- Van Bruggen, A.H.C. 2016. "Potential global distribution of blueberry twig blight (*Phomopsis vaccinii*) predicted by two species distribution modeling approaches" Invited presentation at the XI International *Vaccinium* Symposium, April 10-14, 2016, in Orlando, FL.
- Van Bruggen, A.H.C. 2015. "A new mechanistic model to simulate effects of diurnal temperature oscillations on potato late blight development" Annual meeting of the American Phytopathological Society, August 1-5, 2015, in Pasadena, CA.
- Van Bruggen, A.H.C. 2015. "Modeling potential effects of climate change on potato late blight" AgMIP Advancing Pest and Disease Modeling Workshop, February 23-25, 2015, in Gainesville, FL

PUBLICATIONS IN REFEREED JOURNALS (>250 publications in refereed journals; Google H-index = 66; <https://scholar.google.com/citations?user=HCBGAdUAAAAAJ&hl=en>)

- Semenov MV, Krasnov GS, Semenov VM, van Bruggen A. 2022. Mineral and organic fertilizers distinctly affect fungal communities in the crop rhizosphere. *Journal of Fungi*, 2022, 8, 251. <https://doi.org/10.3390/jof8030251>
- Narouei-Khandan, H.A., Worner, S.P., Viljanen, S.L.H., van Bruggen, A.H.C., Balestra, J.M., and Jones, E.E. 2022. The potential global climate suitability of kiwifruit bacterial canker disease (*Pseudomonas syringae* pv. *actinidiae*, Psa) using three modelling approaches: CLIMEX, MaxEnt and Multi-Model Framework. *Climate* 10(2), 14. <https://doi.org/10.3390/cli10020014>
- van Bruggen, A.H.C., Finckh, M.R., He, M., Ritsema, C.J., Harkes, P., Knuth, D., and Geissen, V. 2021. Indirect effects of the herbicide glyphosate on plant, animal and human health through its effects on microbial communities. *Front. Environ. Sci.* October 2021, 9, 763917, doi: 10.3389/fenvs.2021.763917.
- Semenov, M.V., Krasnov, G.S., Semenov, V.M., Ksenofontova, N., Zinyakova, N.B., and van Bruggen, A.H.C. 2021. Does fresh farmyard manure introduce surviving microbes into soil or activate soilborne microbiota? *J. Environ. Man.* 294: 113018. <https://doi.org/10.1016/j.jenvman.2021.113018>
- Jeger, M., Stancanelli, G., Gilioli, G., Urek, G., van Bruggen, A., Grégoire, J.C., et al. 2021. Quantitative assessment of consequences of quarantine plant pathogen introductions: from crop losses to environmental impact. Pages 161-191. In: Scott P., Strange R., Korsten L., Gullino

M.L. (eds) Plant Diseases and Food Security in the 21st Century. Plant Pathology in the 21st Century, vol 10. Springer, Cham. https://doi.org/10.1007/978-3-030-57899-2_8.

- Choudhury, R.A., Er, H.L., Hughes, M., Smith, J., Pruett, G., Konkol, J., Ploetz, R., Marois, J., Garrett, K.A., and van Bruggen, A.H.C. 2021. Host density dependence and environmental factors affecting laurel wilt disease incidence. *Plant Pathol.* 70 (3), 676-688. doi: 10.1111/PPA.13314.
- Narouei-Khandan, H.A., Shakya, S.K., Garrett, K.A., Goss, E.M., Dufault, N.S., Andrade-Piedra, J.L., Asseng, S., Wallach, D., and van Bruggen, A.H.C. 2020. BLIGHTSIM: A new potato late blight model simulating the response of *Phytophthora infestans* to diurnal temperature and humidity fluctuations in relation to climate change. *Pathogens* 2020, 9, 659; doi:10.3390/pathogens9080659.
- Semenov, M.V., Krasnov, G.S., Semenov, V.M., and van Bruggen, A.H.C. 2020. Long-term fertilization rather than plant species shapes rhizosphere and bulk soil prokaryotic communities in agroecosystems. *Appl. Soil Ecol.* 154 (2020) 103641
- Narouei-Khandan, H.A., Worner, S.P., Viljanen, S.L.H., van Bruggen, A.H.C., and Jones, E.E. 2020. Projecting the suitability of global and local habitats for myrtle rust (*Austropuccinia psidii*) using model consensus. *Plant Pathology* 69: 17-27.
- Da Rocha, U.N., Shin, K., Timilsina, S., Jones, J.B., Singer, B.H., and van Bruggen, A.H.C. 2019. Potential soil transmission of a novel *Candidatus Liberibacter* strain detected in citrus seedlings grown in soil from a huanglongbing infested citrus grove. *BioRxiv*, 821553. doi: <http://dx.doi.org/10.1101/821553>.
- Ascunce, A.S., Shin, K., Huguet-Tapia, J.C., Poudel, R., Garrett, K.A., van Bruggen, A.H.C., and Goss, E.M. 2019. Penicillin trunk injection affects bacterial community structure in citrus trees. *Microbial Ecology* 78(2): 457-469.
- Shimwela, M.M., Halbert, S.E., Keremane, M.L., Mears, P., Singer, B.H., Lee, W.S., Jones, J.B., Ploetz, R.C., and van Bruggen A.H.C. 2019. In-grove spatio-temporal spread of citrus huanglongbing and its psyllid vector in relation to weather. *Phytopathology* 109: 418-427.
- van Bruggen, A.H.C., Goss, E.M., Havelaar, A., van Diepeningen, A.D., Finckh, M.R., and Morris, J.G. Jr. 2019. One Health - Cycling of diverse microbial communities as a connecting force for soil, plant, animal, human and ecosystem health. *Science of the Total Environment* 664: 927-937.
- Choudhury, R.A., Er, H.L., Hughes, M., Smith, J., Pruett, G., Konkol, J., Ploetz, R., Marois, J., Garrett, K.A., and van Bruggen, A.H.C. 2019. Host density dependence and environmental factors affecting laurel wilt invasion. *BioRxiv*. doi: <http://dx.doi.org/10.1101/642827>.
- Jeger, M., Bragard, C., Caffier, D., Candresse, T., Chatzivassiliou, E. et al. 2018. Pest risk assessment of *Spodoptera frugiperda* for the European Union. *EFSA Journal* 16 (8).
- Jeger, M., Bragard, C., Caffier, D., Candresse, T., Chatzivassiliou, E. et al. 2018. Guidance on quantitative risk assessment. *EFSA Journal* 16 (8).
- EFSA Panel on Plant Health (EFSA PLH Panel), Jeger, M., Bragard, C., Caffier, D., Candresse, T., Chatzivassiliou, E., et al. 2018. Pest categorisation of *Lopholeucaspis japonica*. *EFSA Journal* 16 (7), e05353.
- EFSA Panel on Plant Health (EFSA PLH Panel), Jeger, M., Bragard, C., Caffier, D., Candresse, T., Chatzivassiliou, E., et al. 2018. Pest categorisation of *Synchytrium endobioticum*. *EFSA Journal* 16 (7), e05352.
- EFSA Panel on Plant Health (EFSA PLH Panel), Jeger, M., Bragard, C., Caffier, D., Candresse, T., Chatzivassiliou, E., et al. 2018. Updated pest categorisation of *Xylella fastidiosa*. *EFSA Journal* 16 (7), e05357.
- EFSA Panel on Plant Health (EFSA PLH Panel), Jeger, M., Bragard, C., Caffier, D., Candresse, T., Chatzivassiliou, E., et al. 2018. Pest categorisation of *Melampsora medusae*. *EFSA Journal* 16 (7), e05354.

- EFSA Panel on Plant Health (EFSA PLH Panel), Jeger, M., Bragard, C., Caffier, D., Candresse, T., Chatzivassiliou, E., et al. 2018. Pest categorisation of *Chrysomixa arctostaphyli*. EFSA Journal 16 (7), e05355.
- EFSA Panel on Plant Health (EFSA PLH Panel), Jeger, M., Bragard, C., Caffier, D., Candresse, T., Chatzivassiliou, E., et al. 2018. Pest categorisation of *Xyphinema americanum sensu lato*. EFSA Journal 16 (7), e05298.
- EFSA Panel on Plant Health (EFSA PLH Panel), Jeger, M., Bragard, C., Caffier, D., Candresse, T., Chatzivassiliou, E., et al. 2018. Pest categorisation of *Xyphinema americanum sensu lato*. EFSA Journal 16 (7), e05298.
- EFSA Panel on Plant Health (EFSA PLH Panel), Jeger, M., Bragard, C., Caffier, D., Candresse, T., Chatzivassiliou, E., et al. 2018. Pest categorisation of *Pantoea stewartii* subsp. *stewartii*. EFSA Journal 16 (7), e05356.
- EFSA Panel on Plant Health (PLH), Jeger, M., Bragard, C., Caffier, D., Candresse, T., Chatzivassiliou, E., et al. 2018. Pest categorisation of *Dendrolimus sibiricus*. EFSA Journal 16 (6), e05301.
- EFSA Panel on Plant Health (PLH), Jeger, M., Bragard, C., Caffier, D., Candresse, T., Chatzivassiliou, E., et al. 2018. Pest categorisation of *Grapholita packardi*. EFSA Journal 16 (6), e05304.
- EFSA Panel on Plant Health (PLH), Jeger, M., Bragard, C., Caffier, D., Candresse, T., Chatzivassiliou, E., et al. 2018. Pest categorisation of non-EU *Pissodes* spp. EFSA Journal 16 (6), e05300.
- EFSA Panel on Plant Health (PLH), Jeger, M., Bragard, C., Caffier, D., Candresse, T., Chatzivassiliou, E., et al. 2018. Pest categorisation of *Coniferiporia sulphurascens* and *Coniferiporia weirii*. EFSA Journal 16 (6), e05302.
- EFSA Panel on Plant Health (PLH), Jeger, M., Bragard, C., Caffier, D., Candresse, T., Chatzivassiliou, E., et al. 2018. Pest categorisation of *Hirschmanniella* spp. EFSA Journal 16 (6), e05297.
- Shimwela, M. M., Schubert, T. S., Albritton, M., Halbert, S. E., Jones, D. J., Sun, X., Roberts, P. D., Singer, B. H., Lee, W. S., Jones, J. B., Ploetz, R. C., and van Bruggen A.H.C. 2018. Regional spatial-temporal spread of citrus huanglongbing is affected by rain in Florida. *Phytopathology* 108(12):1420-1428.
- EFSA Panel on Plant Health (PLH), Jeger, M., Bragard, C., Caffier, D., Candresse, T., Chatzivassiliou, E., et al. 2018. Pest categorisation of *Colletotrichum gossipii*. EFSA J. 16 (6), e05305.
- EFSA Panel on Plant Health (PLH), Jeger, M., Bragard, C., Caffier, D., Candresse, T., Chatzivassiliou, E., et al. 2018. Pest categorisation of *Guignardia laricina*. EFSA J. 16 (6), e05303.
- EFSA Panel on Plant Health (PLH), Jeger, M., Bragard, C., Caffier, D., Candresse, T., Chatzivassiliou, E., et al. 2018. Pest categorisation of *Curtobacterium flaccumfaciens pv. flaccumfaciens*. EFSA J. 16 (5). e05299.
- Jeger, M., Bragard, C., Caffier, D., Candresse, T., Chatzivassiliou, E., et al. 2018. Pest categorisation of *Apiosporina morbosa*. EFSA J. 16 (4).
- Jeger, M., Bragard, C., Caffier, D., Candresse, T., Chatzivassiliou, E., et al. 2018. Pest categorisation of *Anthonomus quadrigibbus*. EFSA J. 16 (4).
- Jeger, M., Bragard, C., Caffier, D., Candresse, T., Chatzivassiliou, E., et al. 2018. Pest categorisation of *Nacobbus aberrans*. EFSA J. 16 (4).
- Jeger, M., Bragard, C., Caffier, D., Candresse, T., Chatzivassiliou, E., et al. 2018. Pest categorisation of *Sphaerulina musiva*. EFSA J. 16 (4).

- Jeger, M., Bragard, C., Caffier, D., Candresse, T., Chatzivassiliou, E., et al. 2018. Pest categorisation of *Mycodiella laricis-leptolepidis*. EFSA J. 16 (4).
- Jeger, M., Bragard, C., Caffier, D., Chatzivassiliou, E., Dehnen-Schmutz, K. et al. 2018. Pest categorisation of “Blight and blight-like diseases” of citrus. EFSA J. 16 (4).
- van Bruggen, A.H.C., West, J.S., van der Werf, W., Potting, R.P.J., Gardi, C., Koufakis, I., Zelenev, V.V., Narouei-Khandan, H., Schilder, A., and Harmon, P. 2018. Input data needed for a risk model for the entry, establishment and spread of a pathogen (*Phomopsis vaccinii*) of blueberries and cranberries in the EU. Ann. Appl. Biol. 172: 126–147.
- Van Bruggen, A.H.C., He, M.M., Shin, K., Mai, V., Jeong, K.C., Finckh, M.R., and Morris, J.G. Jr. 2018. Environmental and health effects of glyphosate. Sci. Total Environ. 616: 255-268.
- Jeger, M., Bragard, C., Caffier, D., Candresse, T., Chatzivassiliou, E., et al. 2018. Pest categorisation of *Fusarium oxysporum f. sp. albedinis*. EFSA J. 16 (3).
- Jeger, M., Bragard, C., Caffier, D., Candresse, T., Chatzivassiliou, E., et al. 2018. Pest categorisation of the *Scirtothrips citri*. EFSA J. 16 (3).
- Jeger, M., Bragard, C., Caffier, D., Candresse, T., Chatzivassiliou, E., et al. 2018. Pest categorisation of the *Scirtothrips aurantii*. EFSA J. 16 (3).
- Jeger, M., Bragard, C., Caffier, D., Candresse, T., Chatzivassiliou, E., et al. 2018. Pest categorisation of the *Unaspis citri*. EFSA J. 16 (3).
- Jeger, M., Bragard, C., Caffier, D., Candresse, T., Chatzivassiliou, E., et al. 2018. Pest categorisation of the *Aschistonyx eppoi*. EFSA J. 16 (2).
- Jeger, M., Bragard, C., Caffier, D., Candresse, T., Chatzivassiliou, E., et al. 2018. Pest categorisation of the *Bretziella fagacearum*. EFSA J. 16 (2).
- Jeger, M., Bragard, C., Caffier, D., Candresse, T., Chatzivassiliou, E., et al. 2018. Pest categorisation of the *Anisogramma anomala*. EFSA J. 16 (2).
- Jeger, M., Bragard, C., Caffier, D., Candresse, T., Chatzivassiliou, E., et al. 2018. Evaluation of a paper by Guarnaccia et al. (2017) on the first report of *Phyllosticta citricarpa* in Europe. EFSA J. 16 (1).
- Jeger, M., Bragard, C., Caffier, D., Candresse, T., Chatzivassiliou, E., et al. 2018. Pest categorisation of the *Gonipterus scutellatus* species complex. EFSA J. 16 (1).
- Jeger, M., Bragard, C., Caffier, D., Candresse, T., Chatzivassiliou, E., et al. 2018. Pest categorisation of the *Tecia solanivora*. EFSA J. 16 (1).
- Jeger, M., Bragard, C., Caffier, D., Candresse, T., Chatzivassiliou, E., et al. 2018. Pest categorisation of *Toxoptera citricida*. EFSA J. 16 (1).
- Jeger, M., Bragard, C., Caffier, D., Candresse, T., Chatzivassiliou, E., et al. 2018. Pest categorisation of *Listronotus bonariensis*. EFSA J. 16 (1).
- Jeger, M., Candresse, T., Chatzivassiliou, E., Dehnen-Schmutz, K., Gilioli, G. et al. 2018. Pest categorisation of *Xanthomonas oryzae pathovars oryzae and oryzicola*. EFSA J. 16 (1).
- Shin, K., and van Bruggen, A.H.C. 2018. *Bradyrhizobium* isolated from huanglongbing (HLB) affected citrus trees reacts positively with primers for *Candidatus Liberibacter asiaticus*. Europ. J. Plant Pathol. 151(2): 291-306.
- Van Bruggen, A.H.C., Narouei-Khandan, H.A., Harmon Lapaire, C., Harmon, P., and Olmstead, J. 2017. Potential global distribution of blueberry twig blight (*Phomopsis vaccinii*) predicted by two species distribution modeling approaches. Acta Hort. 1180: 431-434.
- Jeger, M., Bragard, C., Caffier, D., Candresse, T., Chatzivassiliou, E., et al. 2017. Pest categorisation of *Elsinoe fawcettii* and *E. australis*. EFSA J. 15 (12).
- Jeger, M., Bragard, C., Caffier, D., Candresse, T., Chatzivassiliou, E., et al. 2017. Pest categorisation of amsll-spored *Alternaria* carrying the genes for the AM- or AK-toxin biosynthesis. EFSA J. 15 (12).
- Jeger, M., Bragard, C., Caffier, D., Dehnen-Schmutz, K., Gilioli, G., Gregoire, J.C., et al. 2017. Pest categorisation of Citrus leprosis viruses. EFSA J. 15 (12).

- Jeger, M., Bragard, C., Caffier, D., Candresse, T., Chatzivassiliou, E., et al. 2017. Pest categorisation of *Longidorus diadecturus*. EFSA J. 15 (12).
- Jeger, M., Bragard, C., Caffier, D., Candresse, T., Chatzivassiliou, E., et al. 2017. Pest categorisation of *Xiphinema californicum*. EFSA J. 15 (12).
- Jeger, M., Bragard, C., Caffier, D., Candresse, T., Chatzivassiliou, E., et al. 2017. Pest categorisation of *Stegophora ulmea*. EFSA J. 15 (12).
- Jeger, M., Bragard, C., Caffier, D., Candresse, T., Chatzivassiliou, E., et al. 2017. Pest categorisation of *Gilpinia hercyniae*. EFSA J. 15 (12).
- Jeger, M., Bragard, C., Caffier, D., Candresse, T., Chatzivassiliou, E., et al. 2017. Pest categorisation of *Cephalcia lariciphila*. EFSA J. 15 (12).
- Jeger, M., Bragard, C., Caffier, D., Candresse, T., Chatzivassiliou, E., et al. 2017. Pest categorisation of *Davidsoniella virescens*. EFSA J. 15 (12).
- Jeger, M., Bragard, C., Caffier, D., Candresse, T., Chatzivassiliou, E. et al.. 2017. Pest categorisation of *Anthonomus bisignifer*. EFSA Journal 15 (12)
- Jeger, M., Bragard, C., Caffier, D., Candresse, T., Chatzivassiliou, E. et al.. 2017. Pest categorisation of *Anthonomus grandis*. EFSA Journal 15 (12)
- Jeger, M., Bragard, C., Caffier, D., Dehnen-Schmutz, K., Gilioli, G., Gregoire, J.C., et al.. 2017. Pest categorisation of naturally-spreading psorosis. EFSA Journal 15 (11)
- Jeger, M., Bragard, C., Caffier, D., Candresse, T., Chatzivassiliou, E. et al.. 2017. Pest categorisation of *Venturia nashicola*. EFSA Journal 15 (11)
- Jeger, M., Bragard, C., Caffier, D., Candresse, T., Chatzivassiliou, E. et al.. 2017. Pest categorisation of *Botryosphaeria kuwatsukai*. EFSA Journal 15 (11)
- Jeger, M., Bragard, C., Caffier, D., Candresse, T., Chatzivassiliou, E. et al.. 2017. Pest categorisation of *Oligonychus perditus*. EFSA Journal 15 (11)
- Jeger, M., Bragard, C., Caffier, D., Candresse, T., Chatzivassiliou, E. et al.. 2017. Pest categorisation of *Puccinia pitteriana*. EFSA Journal 15 (11)
- Jeger, M., Bragard, C., Caffier, D., Candresse, T., Chatzivassiliou, E. et al.. 2017. Pest categorisation of *Gremmeniella abietina*. EFSA Journal 15 (11)
- Jeger, M., Bragard, C., Caffier, D., Candresse, T., Chatzivassiliou, E. et al.. 2017. Pest categorisation of *Pseudocercospora pini-densiflorae*. EFSA Journal 15 (11)
- Jeger, M., Bragard, C., Caffier, D., Candresse, T., Chatzivassiliou, E. et al.. 2017. Pest categorisation of *Ips sexdentatus*. EFSA Journal 15 (11)
- Jeger, M., Bragard, C., Caffier, D., Candresse, T., Chatzivassiliou, E. et al.. 2017. Pest categorisation of *Ips cembrae*. EFSA Journal 15 (11)
- Jeger, M., Bragard, C., Caffier, D., Candresse, T., Chatzivassiliou, E. et al.. 2017. Pest categorisation of *Ips amitinus*. EFSA Journal 15 (10)
- Jeger, M., Bragard, C., Caffier, D., Candresse, T., Chatzivassiliou, E. et al.. 2017. Pest categorisation of *Ips duplicatus*. EFSA Journal 15 (10)
- Jeger, M., Bragard, C., Caffier, D., Candresse, T., Chatzivassiliou, E. et al.. 2017. Pest risk assessment of *Eotetranychus lewisi* for the EU territory. EFSA Journal 15 (10)
- Jeger, M., Bragard, C., Caffier, D., Candresse, T., Chatzivassiliou, E. et al.. 2017. Pest categorisation of *Hishimonus physitis*. EFSA Journal 15 (10)
- Jeger, M., Bragard, C., Caffier, D., Dehnen-Schmutz, K., Gilioli, G., Gregoire, J.C. et al.. 2017. Pest categorisation of Satsuma Dwarf Virus. EFSA Journal 15 (10)
- Jeger, M., Bragard, C., Caffier, D., Dehnen-Schmutz, K., Gilioli, G., Gregoire, J.C. et al.. 2017. Pest categorisation of Tatter Leaf Virus. EFSA Journal 15 (10)
- Jeger, M., Bragard, C., Caffier, D., Dehnen-Schmutz, K., Gilioli, G., Gregoire, J.C. et al.. 2017. Pest categorisation of Citrus Tristeza Virus (non-European isolates). EFSA Journal 15 (10)

- Jeger, M., Bragard, C., Caffier, D., Dehnen-Schmutz, K., Gilioli, G., Gregoire, J.C. et al.. 2017. Pest categorisation of Beet Curly Top Virus. EFSA Journal 15 (10)
- Jeger, M., Bragard, C., Candresse, T., Chatzivassiliou, E., Dehnen-Schmutz, K., et al.. 2017. Pest categorisation of Witches' broom disease of lime (*Citrus aurantifolia*) phytoplasma. EFSA Journal 15 (10)
- Jeger, M., Bragard, C., Candresse, T., Chatzivassiliou, E., Dehnen-Schmutz, K., et al.. 2017. Pest categorisation of Palm Lethal Yellowing phytoplasmas. EFSA Journal 15 (10)
- Jeger, M., Bragard, C., Caffier, D., Candresse, T., Chatzivassiliou, E. et al.. 2017. Pest risk assessment of *Diaporthe vaccinii* for the EU territory. EFSA Journal 15 (9)
- Jeger, M., Bragard, C., Caffier, D., Candresse, T., Chatzivassiliou, E. et al.. 2017. Pest categorisation of *Radopholus similis*. EFSA Journal 15 (8)
- Van Bruggen, A.H.C., He, M.M., Zelenev, V.V., Semenov, V.M., Semenov, A.M., Semenova, E.V., Kuznetsova, T.V., Khodzaeva, A.K., Kuznetsov, A.M., and Semenov, M.V. 2017. Relationships between greenhouse gas emissions and cultivable bacterial populations in conventional, organic and long-term grass plots as affected by environmental variables and disturbances. Soil Biol. Biochem. 114: 145-159.
- He, M.M., Ma, W., Zelenev, V.V., Khodzaeva, A.K., Kuznetsov, A.M., Semenov, A.M., Semenov, V.M., Blok, W., and van Bruggen, A.H.C. 2017. Short-term dynamics of greenhouse gas emissions and cultivable bacterial populations in response to induced and natural disturbances in organically and conventionally managed soils. Applied Soil Ecology 119: 294-306.
- Jeger, M., Bragard, C., Caffier, D., Candresse, T., Chatzivassiliou, E. et al. 2017. Pest categorisation of *Dendroctonus micans*. EFSA J. 15 (7)
- Jeger, M., Bragard, C., Caffier, D., Candresse, T., Chatzivassiliou, E. et al.. 2017. Pest categorisation of *Pseudocercospora angolensis*. EFSA Journal 15 (11)
- Jeger, M., Bragard, C., Caffier, D., Candresse, T., Chatzivassiliou, E. et al. 2017. Pest categorisation of *Entoleuca mammata*. EFSA J. 15 (7)
- Jeger, M., Bragard, C., Caffier, D., Candresse, T., Chatzivassiliou, E. et al. 2017. Pest categorisation of *Ips typographus*. EFSA J. 15 (7)
- Jeger, M., Bragard, C., Caffier, D., Candresse, T., Chatzivassiliou, E. et al. 2017. Pest categorisation of *Spodoptera frugiperda*. EFSA J. 15 (7)
- Jeger, M., Bragard, C., Caffier, D., Candresse, T., Chatzivassiliou, E. et al. 2017. Pest categorisation of *Anthonomus signatus*. EFSA J. 15 (7)
- Jeger, M., Bragard, C., Caffier, D., Dehnen-Schmutz, K., Gilioli, G., Gregoire J.C., et al. 2017. Little cherry pathogen (non-EU isolates). EFSA Journal 15 (7)
- Jeger, M., Bragard, C., Caffier, D., Candresse, T., Dehnen-Schmutz, K., Gilioli, G., et al. 2017. Pest categorisation of Cadang-Cadang viroid. EFSA Journal 15 (7)
- Jeger, M., Caffier, D., Candresse, T., Chatzivassiliou, E., Dehnen-Schmutz, K., et al. 2017. Pest categorisation of *Atropellis* spp. for the EU territory. EFSA Journal 15 (7)
- Jeger, M., Caffier, D., Candresse, T., Chatzivassiliou, E., Dehnen-Schmutz, K., et al. 2017. *Citrus junos* as a host of citrus bacterial canker. EFSA Journal 15 (6)
- Narouei Khandan, H.A., Harmon Lapaire, C., Harmon, P., Olmstead, J., Zelenev, V.V., van der Werf W., Worner S.P., Senay S.D., and van Bruggen, A.H.C. 2017. Potential global and regional geographic distribution of *Phomopsis vaccinii* on *Vaccinium* species projected by two species distribution models. Europ. J. Plant Pathol. 148 (4): 919-930. DOI 10.1007/s10658-017-1146-4.
- Shin, K., van Diepen, G., Blok, W., and van Bruggen, A.H.C. 2017. Variability of Effective Micro-organisms (EM) in bokashi and soil and effects on soil-borne plant pathogens. Crop Protection 99: 168-176.
- van Bruggen, A.H.C., Sharma, K., and Shin, K. 2017. Sugar cane processing residue, bagasse, enhances decomposition of citrus leaves and could contribute to citrus black spot management. Crop Protection 93: 89-97.

- Shimwela, M.M., Blackburn, J.K., Jones, J.B., Nkuba, J., Narouei-Khandan, H.A., Ploetz, R.C., Beed, F., and van Bruggen, A.H.C. 2017. Local and regional spread of banana Xanthomonas wilt (BXW) in space and time in Kagera, Tanzania. *Plant Pathology* 66 (6): 1003-1014.
- Jeger, M., Bragard, C., Caffier, D., Candresse, T., Chatzivassiliou, E., et al. 2016. Risk to plant health of Flavescence dorée for the EU territory. *EFSA Journal* 14 (12)
- Jeger, M., Bragard, C., Chatzivassiliou, E., Dehnen-Schmutz, K., Gilioli, G. et al. 2016. Risk assessment and reduction options for *Cryphonectria parasitica* in the EU. *EFSA Journal* 14 (12)
- Jeger, M., Bragard, C., Chatzivassiliou, E., Dehnen-Schmutz, K., Giololi, G. et al. 2016. Risk assessment and reduction options for *Ceratocystis platani* in the EU. *EFSA Journal* 14 (12)
- Jeger, M., Bragard, C., Caffier, D., Candresse, T., Chatzivassiliou, E., et al. 2016. Risk to plant health of *Ditylenchus destructor* for the EU territory. *EFSA Journal* 14 (12)
- Jeger, M., Bragard, C., Caffier, D., Chatzivassiliou, E., Dehnen-Schmutz, K. et al. 2016. Susceptibility of *Phoenix roebelenii* to *Xylella fastidiosa*. *EFSA J.* 14(10).
- Jeger, M., Bragard, C., Caffier, D., Chatzivassiliou, E., Dehnen-Schmutz, K. et al. 2016. Susceptibility of *Citrus* spp., *Quercus ilex* and *Vitis* spp. to *Xylella fastidiosa* strain CoDiRo. *EFSA J.* 14(10).
- Shimwela, M.M., Ploetz, R.C., Beed, F.D., Jones, J.B., Blackburn, J.K., Mkulila, S.I., and van Bruggen, A.H.C. 2016. Banana Xanthomonas Wilt continues to spread in Tanzania despite an intensive symptomatic plant removal campaign: an impending socio-economic and ecological disaster. *Food Security* 8(5): 939–951.
- Shimwela, M.M., Narouei Khandan, H.A., Halbert, S.E., Keremane, M.L., Minsavage, G.V., Timilsina, S., Massawe, D.P., Jones, J.B., and van Bruggen, A.H.C. 2016. First occurrence of *Diaphorina citri* in East Africa, characterization of the *Ca. Liberibacter* species causing huanglongbing (HLB) in Tanzania, and potential further spread of *D. citri* and HLB in Africa and Europe. *Europ. J. Plant Pathol.* 146 (2): 349-368.
- Shin, K., Ascunce, M.S., Narouei-Khandan, H.A., Sun, X., Jones D.J., Kolawole, O.O., Goss, E., and van Bruggen, A.H.C. 2016. Effects and side effects of penicillin injection in huanglongbing affected grapefruit trees. *Crop Protection* 90: 106-116.
- Van Bruggen, A.H.C. and Finckh, M. 2016. Plant diseases and management approaches in organic farming systems. *Annu. Rev. Phytopathol.* 54: 25-54.
- Gamliel A. and van Bruggen, A.H.C. 2016. Maintaining soil health for crop production in organic greenhouses. *Scientia Hort.* 208: 120-130.
- Van Bruggen, A.H.C., Narouei Khandan, H.A., Gravel, V. and Blok, W.J. 2016. Corky root severity, root knot nematode galling and microbial communities in soil, rhizosphere and rhizoplane in organic and conventional greenhouse compartments. *Appl. Soil Ecol.* 100: 112-123.
- van Bruggen, A.H.C., Gamliel, A., and Finckh, M.M. 2016. Plant disease management in organic farming systems. *Pest Management Science* 72(1): 30-44.
- Narouei-Khandan, H.A., Halbert, S.E., Worner, S.P., and van Bruggen, A.H.C. 2016. Global climate suitability of citrus huanglongbing and its vector, the Asian citrus psyllid, using two correlative species distribution modeling approaches, with emphasis on the USA. *Europ. J. Plant Pathol.* 144(3): 655-670.
- Luo, Z., Gu, G., Ginn, A., Giurcanu, M.C., Adams, P., Vellidis, G., van Bruggen, A.H.C., Danyluk, M.D., and Wright, A.C. 2015. Distribution and characterization of *Salmonella enterica* isolates from irrigation ponds in the Southeastern USA. *Appl. Environ. Microbiol.* 81(13): 4376-4387.
- Hughes, M.A., Inch, S.A., Ploetz, R.C., Er, H.L., van Bruggen, A.H.C., and Smith, J.A. 2015. Responses of swamp bay, *Persea palustris*, and avocado, *Persea americana*, to various concentrations of the laurel wilt pathogen, *Raffaelea lauricola*. *Forest Pathology* 45: 111-119.
- van Bruggen, A.H.C., Francis, I., and Krag, R. 2015. The vicious cycle of lettuce corky root disease: effects of farming system, nitrogen fertilizer and herbicide. *Plant and Soil* 388:119-132.

- van Bruggen, A.H.C. and Francis, I.M. 2015. Case investigation and forensic evidence for a new plant disease: The case of lettuce corky root. Feature article. *Plant Disease* 99: 300-309.
- Shakya, S.K., Goss, E.M., Dufault, N.S. and van Bruggen, A.H.C. 2015. Potential effects of diurnal temperature oscillations on potato late blight with special reference to climate change. *Phytopathology* 105: 230-238.
- van Bruggen, A.H.C., Sharma, K., Kaku, E., Karfopoulos, S., Zelenev, V.V., and Blok, W.J. 2015. Soil health indicators and Fusarium wilt suppression in organically managed greenhouse soils. *Applied Soil Ecology* 86: 192-201.
- Farnsworth, D., Grogan, K.A., van Bruggen, A.H.C. and Moss, C.B. 2014. The potential economic cost and response to greening in Florida citrus. *Choices* 29: 1-6.
- van Bruggen, A.H.C. 2014. The strains of *Rhizorhapis* and related genera isolated from lettuce roots that were used to develop specific primers for *Rhizorhapis suberifaciens*. *Molec. Cellul. Probes* 28: 218-210.
- Sharma, K., Goss, E.M., Dickstein, E.R., Smith, M., Southwick, F., and van Bruggen, A.H.C. 2014. *Exserohilum rostratum*: characterization of a cross-kingdom pathogen. *PLoS ONE* 9(10): e108691. doi:10.1371/journal.pone.0108691.
- Cevallos-Cevallos, J.M., Gu, G., Richardson, S.M., Hu, J. and van Bruggen, A.H.C. 2014. Survival of *Salmonella enterica* Typhimurium in water amended with manure. *J. Food Prot.* 77: 2035-2042.
- Sharma, K., Goss, E.M., and van Bruggen, A.H.C. 2014. Isolation and identification of *Colletotrichum cordylinicola* causing anthracnose on Cordyline (*Cordyline fruticosa*) in Florida, USA. *HortScience* 49: 911-916.
- Luo, Z., Gu, G., Giurcanu, M.C., Adams, P., Vellidis, G., van Bruggen, A.H.C., and Wright, A.C. 2014. Development of a novel cross-streaking method for isolation, confirmation, and enumeration of *Salmonella* from irrigation ponds. *J. Microbiol. Meth.* 101: 86-92.
- Van Bruggen, A.H.C., Ochoa, O., Francis, I.M. and Michelmore, R.W. 2014. Differential interactions between strains of *Rhizorhapis*, *Sphingobium*, *Sphingopyxis* or *Rhizorhabdus* and accessions of *Lactuca* spp. with respect to severity of corky root disease. *Plant Pathology* 63:1053–1061.
- Van Bruggen, A.H.C., Francis, I.M., and Jochimsen, K.N. 2014. Non-pathogenic rhizosphere bacteria belonging to the genera *Rhizorhapis* and *Sphingobium* provide specific control of lettuce corky root disease caused by the same but not different genera. *Plant Pathol.* 63: 1384–1394.
- Potnis, N., Soto-Arias, J.P., Cowles, K., van Bruggen, A.H.C., Jones, J.B., and Barak, J.D. 2014. Stealth colonization of tomato leaf by *Xanthomonas perforans* enhances persistence of *Salmonella enterica* in the phyllosphere. *Appl. Environ. Microbiol.* 80 (10): 3173-3180.
- Sharma, K., Merritt, J.L., Palmateer, A., Goss, E., Smith, M., Schubert, T., Johnson, R.S., and van Bruggen, A.H.C. 2014. Isolation, characterization and management of *Colletotrichum* spp. causing anthracnose on lucky bamboo (*Dracaena sanderiana*). *HortScience* 49(4):453–459.
- Mariduena Zavala, M.G., Er, H.L., Goss, E.M., Wang, N.Y., Dewdney, M., and van Bruggen, A.H.C. 2014. Genetic variation among *Phyllosticta* strains isolated from citrus in Florida that are pathogenic or nonpathogenic to citrus. *Tropical Plant Pathology* 39(2):119-128.
- Francis, I.M., Jochimsen, K.N., de Vos, P., and van Bruggen, A.H.C. 2014. Reclassification of rhizosphere bacteria including strains causing corky root of lettuce as *Rhizorhapis suberifaciens* gen. nov., *Sphingobium mellinum* sp. nov., *Sphingobium xanthum* sp. nov., *Sphingopyxis* sp., and *Rhizorhabdus argenteus* gen. nov., sp. nov. *Int. J. System. Evol. Microbiol.* 64: 1340-1350.
- Senechkin, I.V., van Overbeek, L., and van Bruggen, A.H.C. 2014. Greater Fusarium wilt suppression after complex than after simple organic amendments as affected by soil pH, total carbon and ammonia-oxidizing bacteria. *Appl. Soil Ecol.* 73: 148-155.
- Er, H.L., Hendricks, K., Goss, E.M., Smith, M., Schubert, T.S., Roberts, P.D., and van Bruggen, A.H.C. 2014. Isolation and biological characterization of *Guignardia* species from citrus in

Florida. J. Plant Pathol. 96: 43-55.

- Leoni, C., ter Braak, C.J.F., Gilsanz, J.C, Dogliotti, S., Rossing, W.A.H. and van Bruggen, A.H.C. 2014. *Sclerotium rolfsii* dynamics in soil as affected by crop sequences. Applied Soil Ecology 75: 95-105.
- Er, H.L., Roberts, P.D., Marois, J.J., and van Bruggen, A.H.C. 2013. Potential distribution of citrus black spot in the United States based on climatic conditions. Europ. J. Plant Pathol. 137: 635-647.
- Leoni, C., de Vries, M., ter Braak, C.J.F., van Bruggen, A.H.C., and Rossing, W.A.H. 2013. *Fusarium oxysporum* f. sp. *cepae* dynamics: in-plant multiplication and crop sequence simulations. Europ. J. Plant Pathol. 137: 545-561.
- Shen, W., Cevallos-Cevallos, J.M., Nunes da Rocha, U., Stansly, P.A., Roberts, P.D., and van Bruggen, A.H.C. 2013. Relation between plant nutrition, hormones, insecticide applications, bacterial endophytes, and *Candidatus Liberibacter asiaticus* Ct values in citrus trees infected with huanglongbing. Europ. J. Plant Pathol. 137: 727-742.
- Singh, M.P., Erickson, J.E., Boote, K.J Jones, J.W., Tillman, B.L., van Bruggen, A.H.C. 2013. Using the CSM-CROPGRO-Peanut model to simulate late leaf spot effects on peanut cultivars of differing resistance Agron. J. 105: 1307-1316.
- Shen, W., Halbert, S.E., Dickstein, E., Manjunath, K.L., Shimwela, M.M., and van Bruggen, A.H.C. 2013. Occurrence and in-grove distribution of citrus huanglongbing in north central Florida. J. Plant Pathol. 95: 361-371.
- Senechkin, I.V., van Overbeek, L.S., Er, H.L., de Vos, O., and van Bruggen, A.H.C. 2013. Interaction of *Collimonas* Strain IS343 with *Rhizoctonia solani* at low carbon availability in vitro and in soil. Europ. J. Plant Pathol. 136: 789–802.
- Gu, G., Luo, Z., Cevallos-Cevallos, J.M., Adams, P., Vellidis, G., Wright, A., and van Bruggen, A.H.C. 2013. Factors affecting the occurrence and population density of *Campylobacter jejuni* in irrigation ponds on produce farms in the Suwannee River Watershed. Can. J. Microbiol. 59: 339-346.
- Gu, G., Cevallos-Cevallos, J.M., and van Bruggen, A.H.C. 2013. Ingress of *Salmonella enterica* Typhimurium into tomato leaves through hydathodes. PLoS ONE 8(1): e53470. doi:10.1371/journal.pone.0053470
- Gu, G., Luo, Z., Cevallos-Cevallos, J.M., Adams, P., Vellidis, G., Wright, A., and van Bruggen, A.H.C. 2013. Factors affecting the occurrence of *Escherichia coli* O157:H7 contamination in irrigation ponds on produce farms in the Suwannee River Watershed. Can. J. Microbiol. 59: 175-182.
- Gu, G., Cevallos-Cevallos, J.M., Vallad, G.E., and van Bruggen, A.H.C. 2013. Organically managed soils reduce internal colonization of tomato plants by *Salmonella enterica* serovar Typhimurium. Phytopathology 103: 381-388.
- Cevallos-Cevallos, J.M., Gu, G., Danyluk, M.D., and van Bruggen, A.H.C. 2012. Adhesion and splash dispersal of *Salmonella enterica* Typhimurium on tomato leaflets: effects of rdar morphotype and trichome density. Int. J. Food Microbiology 160: 58-64.
- Cevallos-Cevallos, J.M., Gu, G., Danyluk, M.D., Dufault, N.S., and van Bruggen, A.H.C. 2012. *Salmonella enterica* Typhimurium can reach tomato fruits on plants exposed to aerosol formed by rain. Int. J. Food Microbiol. 158: 140-146.
- Chiyaka, C., Singer, B.H., Halbert, S.E., Morris, J.G. and van Bruggen, A.H.C. 2012. Modeling huanglongbing transmission within a citrus tree. Proceedings of the National Academy of Sciences 109 (30): 12213-12218.
- van Overbeek, L.S., Senechkin, I.V., and van Bruggen, A.H.C. 2012. Variation in microbial responses and *Rhizoctonia solani* AG2-2IIIB growth in soil under different organic amendment regimes. Canadian Journal of Plant Pathology 34 (2): 268-276.

- He, M., Tian, G., Semenov, A.M. and van Bruggen, A.H.C. 2012. Short-term fluctuations of sugar-beet damping-off by *Pythium ultimum* in relation to changes in bacterial communities after organic amendments to two soils. *Phytopathology* 102 (4): 413-420.
- Merritt, J.L., Dickstein, E.R., Johnson, R.S., Ward, M., Balaam, R.J., Harmon, C.L., Harmon, P.F., Ali, G.S., Palmateer, A.J., Schubert, T., and van Bruggen, A.H.C. 2012. Survey of ornamental nurseries in Florida participating in the U.S. - Canadian Greenhouse Certification Program. *Horttechnology* 22 (2): 169-176.
- Cevallos-Cevallos, J.M., Danyluk, M.D., Gu, G., Vallad, G.E., and van Bruggen, A.H.C. 2012. Dispersal of *Salmonella* by rain splash onto tomato plants. *J. Food Protection* 75: 472-479.
- Gu, G., Hu, J., Cevallos-Cevallos, J.M., Richardson, S.M., Bartz, J.A. and van Bruggen, A.H.C. 2011. Internal colonization of *Salmonella enterica* serovar Typhimurium in tomato plants. *PLoS ONE* 6(11): e27340. doi:10.1371/journal.pone.0027340
- Garrett, K.A., Forbes, G.A, Savary, S., Skelsey, P., Sparks, A.H., Valdivia, C., van Bruggen, A.H.C., Willocquet, L., Djurle, A., Duveiller, E., Eckersten, H., Pande. S., Vera Cruz, C., and Yuen, J. 2011. Complexity in climate change impacts: A framework for analysis of effects mediated by plant disease. *Plant Pathology* 60: 15-30.
- Singh M.P., Erickson, J.E., Boote K.J., Tillman, B.L., van Bruggen, A.H.C. and Jones, J.W. 2011. Photosynthetic consequences of late leaf spot differ between two peanut cultivars with variable levels of resistance. *Crop Sci.* 51: 2741-2748.
- Singh, M.P., Erickson, J.E., Boote, K.J., Tillman, B.L., Jones, J.W. and van Bruggen, A.H.C. 2011. Late leaf spot effects on growth, photosynthesis, and yield in peanut cultivars of differing resistance. *Agron. J.* 103: 85-91.
- Semenov, A.V., van Overbeek, L., Termorshuizen, A.J., and van Bruggen, A.H.C. 2011. Influence of aerobic and anaerobic conditions on survival of *Escherichia coli* O157:H7 and *Salmonella enterica* serovar Typhimurium in Luria-Bertani broth, farm-yard manure and slurry. *J. Env. Management* 92: 780-787.
- Goud, J.C., Termorshuizen, A.J. and van Bruggen, A.H.C. 2011. Verticillium wilt in nursery trees: damage thresholds, spatial and temporal aspects. *Europ. J. Plant Pathol.* 131:451-465.
- Gravel, V., Blok, W.J., Hallman, E., Carmona-Torres, C., Wang, J., van de Peppel, A.C., Condor Golec, A.F., Dorais, M., van Meeteren, U., Heuvelink, E., Rembialkowska, E., and van Bruggen, A.H.C. 2010. Differences in N uptake and fruit quality between organically and conventionally grown greenhouse tomatoes. *Agronomy for Sustainable Development* 10: 797-806.
- Senechkin, I.V., Speksnijder, A.G.C.L., Semenov, A.M., van Bruggen, A.H.C. and van Overbeek, L.S. 2010. Isolation and partial characterization of bacterial strains on low organic carbon medium from soils fertilized with different organic amendments. *Microb. Ecol.* 60: 829-839.
- Semenov, A.M., Kupriyanov, A.A. and van Bruggen, A.H.C. 2010. Transfer of enteric pathogens to successive habitats as part of microbial cycles. *Microb. Ecol.* 60: 239-249.
- Laothawornkitkul, J., Jansen, R.M.C., Smid, H.M., Bouwmeester, H.J., Muller, J. and van Bruggen, A.H.C. 2010. Volatile organic compounds as a diagnostic marker of late blight infected potato plants: A pilot study. *Crop Protection* 29: 872-878.
- He, M., Ma, W., Tian, G., Blok, W., Khodzaeva, A., Zelenev, V.V., Semenov, A.M., and van Bruggen, A.H.C. 2010. Daily changes of infections by *Pythium ultimum* after a nutrient impulse in organic versus conventional soils. *Phytopathology* 100:593-600.
- Kupriyanov, A.A., Semenov, A.M. and van Bruggen, A.H.C. 2010. Transition of enteropathogenic and saprotrophic bacteria in the cycle: Animals-excrement-soil-plants-animals. *Biol. Bull.* 37: 263-267.
- Yadessa, G.B., van Bruggen, A.H.C. and Ocho, F.L. 2010. Effects of different soil amendments on bacterial wilt caused by *Ralstonia solanacearum* (Smith) Yabuuchi and on the yield of tomato (*Lycopersicon esculentum* Mill). *J. Plant Pathol.* 92: 429-440.
- van Overbeek, L.S., Franz, E., Semenov, A.V., de Vos, O.J. and van Bruggen, A.H.C. 2010. The

effect of the native bacterial community structure on the predictability of *E. coli* O157:H7 survival in manure-amended soil. *Letters Appl. Microbiol.* 50: 425–430.

- Ndiaye M., Termorshuizen A.J., and van Bruggen A.H.C. 2010. Effects of compost amendment and the biocontrol agent *Clonostachys rosea* on the development of charcoal rot (*Macrophomina phaseolina*) on cowpea. *J. Plant Pathol.* 92: 173-180.
- Semenov, A.V., Franz, E., and van Bruggen, A.H.C. 2010. COLIWAVE: a simulation model for survival of *E. coli* O157:H7 in dairy manure and manure-amended soil. *Ecological Modelling* 221: 599-609.
- Hadgu K.M., Kooistra L., Rossing W.A.H. and van Bruggen A.H.C. 2009. Assessing the effect of *Faidherbia albida* based land use systems on barley yield at field and regional scale in the highlands of Tigray, Northern Ethiopia. *Food Security* 1: 337–350.
- Hadgu, K.M., Rossing, W.A.H., Kooistra, L., and van Bruggen A.H.C. 2009. Spatial variation in biodiversity, soil degradation and productivity in agricultural landscapes in the highlands of Tigray, Northern Ethiopia. *Food Security* 1: 83-97.
- Lavrent'eva, E.V., Semenov, A.M., Zelenev, V.V., Chzhun, Yu, Semenova, E. V., Semenov, V. M., Namsaraev, B. B. and van Bruggen, A.H.C. 2009. Daily dynamics of cellulase activity in arable soils depending on management practices. *Eurasian Soil Science* 42: 885-893.
- Kupriyanov, A.A., Kunenkova, N.N., van Bruggen A.H.C., and Semenov, A.M. 2009. Translocation of bacteria from animal excrements to soil and associated habitats. *Eurasian Soil Sci.* 42: 1263-1269.
- Kupriyanov, AA, Semenov, AM, Kunenkova, NN, and van Bruggen, A.H.C. 2009. Multistep introduction of bacteria to natural substrates at different initial inoculation doses. *Eurasian Soil Sci.* 42: 1038-1043.
- Koupriyanov, A.A., Semenov, A.M., Van Bruggen, A.H.C., Netrusov, A.I. and Semenova, E.V. 2009. Dynamics of the survival of enteropathogenic and saprotrophic bacteria passing through a birds' digestive tract in their excrement and in water. *Moscow Univ. Biol. Sci. Bull.* 64: 102–106.
- Semenov, A.V., van Overbeek, L., and van Bruggen, A.H.C. 2009. Percolation and survival of *E. coli* O157:H7 and *Salmonella enterica* serovar Typhimurium in soil amended with contaminated dairy manure or slurry. *Appl. Environ. Microbiol.* 75: 3206-3215.
- Messiha, N.A.S., van Bruggen, A.H.C., Franz, E., Janse, J.D., Schoeman-Weerdesteijn, M.E., Termorshuizen, A.J., and van Diepeningen A.D. 2009. Effects of soil type, management type and soil amendments on the survival of the potato brown rot bacterium *Ralstonia solanacearum*. *Appl. Soil Ecol.* 43: 206–215.
- Franz, E., Semenov, A.V., and van Bruggen, A.H.C. 2008. Modelling the contamination of lettuce with *Escherichia coli* O157:H7 from manure-amended soil and the effect of intervention strategies. *Journal of Applied Microbiology* 105: 1569-1584.
- Franz, E. and van Bruggen, A.H.C. 2008. Ecology of *E. coli* O157:H7 and *Salmonella enterica* in the primary vegetable production chain. *Critical Reviews in Microbiology* 34: 143-161.
- Van Bruggen, A.H.C., Semenov, A.M., Zelenev, V.V., Semenov, A.V., Raaijmakers, J.M., Sayler, R., and de Vos, O. 2008. Wave-like distribution patterns of *gfp*-marked *Pseudomonas fluorescens* along roots of wheat plants grown in two soils. *Microb. Ecol.* 55: 466–475.
- Semenov, A.V., Franz, E., van Overbeek L., Termorshuizen, A.J. and van Bruggen, A.H.C. 2008. Estimating the stability of *Escherichia coli* O157:H7 survival in manure amended soils with different management histories. *Environ. Microbiol.* 10: 1450-1459.
- Mancini, F., A.J. Termorshuizen, J.L.S. Jiggins, and A.H.C. van Bruggen. 2008. Increasing the environmental and social sustainability of cotton farming through farmer education in Andhra Pradesh, India. *Agricultural Systems* 96: 16-25.
- Ndiaye M., Termorshuizen A.J., and van Bruggen A.H.C. 2008. Effect of rotation of cowpea (*Vigna unguiculata*) with fonio (*Digitaria exilis*) and millet (*Pennisetum glaucum*) on

- Macrophomina phaseolina* densities and cowpea yield. African J. Agric. Res. 3: 37-43.
- Franz, E., Semenov, A.V., Termorshuizen, A.J., Bokhorst, J.G., and van Bruggen, A.H.C. 2008. Manure-amended soil characteristics affecting the survival of *E. coli* O157:H7 in 36 Dutch soils. Environ. Microbiol. 10: 313-327.
 - Klerks, M.M., Franz, E., van Gent-Pelzer, M., Zijlstra, C., and van Bruggen, A.H.C., 2007. Differential interaction of *Salmonella enterica* serovars with lettuce cultivars and plant-microbe factors influencing the colonization efficiency. ISME J. 1: 620-631.
 - Van Rijn, E., Termorshuizen, A.J. and van Bruggen, A.H.C. 2007. Storage method affects disease suppression of flax wilt induced by composts. Soil Biol. Biochem. 39: 2743–2749.
 - Franz, E., Klerks, M.M., De Vos, O.J., van Diepeningen, A.D., Termorshuizen, A.J., and van Bruggen, A.H.C. 2007. Prevalence of shiga toxin-producing *Escherichia coli stx1, stx2, eaeA* and *rfbE* genes and survival of *E. coli* O157:H7 in manure from organic and low-input conventional dairy farms. Appl. Env. Microbiol. 73: 2180-2190.
 - Klerks, M.M., Van Gent-Pelzer, M., Franz, E., Zijlstra, C. and van Bruggen, A.H.C. 2007. Physiological and molecular response of *Lactuca sativa* to colonization by *Salmonella enterica* serovar Dublin. Appl. Env. Microbiol 73: 4905-4914.
 - Semenov, A.V., van Bruggen, A.H.C., Overbeek L., Termorshuizen, A.J., and Semenov A.M. 2007. Influence of temperature fluctuations on *Escherichia coli* O157:H7 and *Salmonella enterica* serovar Typhimurium in cow manure. FEMS Microbiol. Ecol. 60: 419–428.
 - Ndiaye, M., Termorshuizen, A. J. and van Bruggen A. H. C. 2007. Combined effects of solarization and organic amendment on charcoal rot caused by *Macrophomina phaseolina* in the Sahel. *Phytoparasitica* 35: 392-400.
 - Messiha, N.A.S., van Bruggen, A.H.C., van Diepeningen, A.D., de Vos, O.J., Termorshuizen, A.J., Tjou-Tam-Sin, N.N.A., and Janse, J.D. 2007. Potato brown rot incidence and severity under different management and amendment regimes in different soil types. Europ. J. Plant Pathol. 119: 367-381.
 - Messiha, N.A.S., van Diepeningen, A.D., Farag, N.S., Abdallah, S.A., Janse, J.D. and van Bruggen, A.H.C. 2007. *Stenotrophomonas maltophilia*: a new potential biocontrol agent of *Ralstonia solanacearum*, causal agent of potato brown rot. Europ. J. Plant Pathol. 118: 211-225.
 - Messiha N.A.S., van Diepeningen, A.D., Wenneker, M., van Beuningen, A.R., Janse, J.D., Coenen, T.G.C., Termorshuizen, A.J., van Bruggen, A.H.C. and Blok, W.J. 2007. Biological Soil Disinfestation (BSD), a new control method for potato brown rot, caused by *Ralstonia solanacearum* race 3 biovar 2. Europ. J. Plant Pathol. 117: 403-415.
 - Mancini, F., van Bruggen, A.H.C. and Jiggins, J.L.S. 2007. Evaluating cotton integrated pest management (IPM) farmer field school outcomes using the sustainable livelihoods approach in India. Experimental Agriculture 43: 97-112.
 - Franz, E., Visser, A.A., Van Diepeningen, A.D., Klerks, M.M., Termorshuizen, A.J., and van Bruggen, A.H.C. 2007. Quantification of contamination of lettuce by GFP-expressing *Escherichia coli* O157:H7 and *Salmonella enterica* serovar Typhimurium. Food Microbiology 24: 106-112.
 - van Bruggen, A.H.C., Semenov, A.M., van Diepeningen, A.D., de Vos, O.J., and Blok, W.J. 2006. Relation between soil health, wave-like fluctuations in microbial populations, and soil-borne plant disease management. Europ. J. Plant Pathol. 115:105–122.
 - Klerks, M.M., van Bruggen, A.H.C., Zijlstra, C., Donnikov M., and de Vos, R. 2006. Comparison of methods of extracting *Salmonella enterica* serovar Enteritidis DNA from environmental substrates and quantification of organisms by using a general internal procedural control. Appl. Environ. Microbiol. 72: 3879-3886.
 - van Diepeningen, A.D., de Vos, O.J., Korthals, G.W, and van Bruggen, A.H.C. 2006. Effects of organic versus conventional management on chemical and biological parameters in agricultural soils. Appl. Soil Ecol. 31: 120-135.

- Zelenev, V.V., van Bruggen, A.H.C., Leffelaar, P.A., Bloem, J., and Semenov, A.M. 2006. Oscillating dynamics of bacterial populations and their predators in response to fresh organic matter added to soil: the simulation model 'BACWAVE-WEB'. *Soil Biol. Biochem.* 38: 1690-1711.
- van Diepeningen A.D., Vos O.J. de, Zelenev V.V., Semenov A.M., and van Bruggen A.H.C. 2005. DGGE fragments oscillate with or counter to fluctuations of cultivable bacteria along wheat roots. *Microb. Ecol.* 50: 506-517.
- Hiddink, G.A., van Bruggen, A.H.C., Termorshuizen, A.J., Raaijmakers, J.M., and Semenov, A.V. 2005. Effect of organic management of soils on suppressiveness to *Gaeumannomyces graminis* var. *tritici* and its antagonist, *Pseudomonas fluorescens*. *Europ. J. Plant Pathol.* 113: 417-435.
- Hiddink G.A., Termorshuizen A.J, Raaijmakers J.M, and van Bruggen, A.H.C. 2005. Effect of mixed and single crops on disease suppressiveness of soils. *Phytopathology* 95: 1325-1332.
- Zelenev, V.V., van Bruggen, A.H.C., and Semenov, A.M. 2005. Modeling wavelike dynamics of oligotrophic and copiotrophic bacteria along wheat roots in response to nutrient input from a growing root tip. *Ecological Modelling* 188: 404-417.
- Franz, E., van Diepeningen, A.D., de Vos, O.J. and van Bruggen, A.H.C. 2005. Effects of cattle feeding regimen and soil management type on the fate of *Escherichia coli* O157:H7 and *Salmonella enterica* serovar Typhimurium in manure, manure-amended soil, and lettuce. *Appl. Environ. Microbiol.* 71:6165-6174.
- Mancini, F., A.H.C. van Bruggen, J.L.S. Jiggins, A.C. Ambatipudi, and H. Murphy. 2005. Acute pesticide poisoning among female and male cotton growers in India. *Int. J. Occup. Environ. Health* 11: 221-232.
- Zelenev, V.V., van Bruggen, A.H.C., Semenov, A.M., 2005. Short-term wavelike dynamics of bacterial populations in response to nutrient input from fresh plant residues. *Microb. Ecol.* 49: 83-93.
- Wu, B.M., Subbarao, K.V. and van Bruggen, A.H.C. 2005. Analyses of the relationships between lettuce downy mildew and weather variables using geographic information system techniques. *Plant Dis.* 89: 90-96.
- Klerks, M.M., Zijlstra, C., and van Bruggen, A.H.C. 2004. Comparison of real-time PCR methods for detection of *Salmonella enterica* and *Escherichia coli* O157:H7, and quantification using a general internal amplification control. *J. Microbiol. Methods* 59:337-349.
- Goud, J.-K.C., Termorshuizen, A.J., Blok, W.J., and van Bruggen, A.H.C. 2004. Long-term effect of biological soil disinfection on *Verticillium* wilt. *Plant Dis.* 88:688-694.
- Zelenev V.V., Berkelmans R., van Bruggen A.H.C., Bongers T., Semenov A.M., 2004. Daily changes in bacterial-feeding nematode populations oscillate with similar periods as bacterial populations after a nutrient impulse in soil. *Appl. Soil Ecol.* 26:93-106.
- Su, H., van Bruggen, A.H.C., Subbarao, K.V., and Scherm, H. 2004. Sporulation of *Bremia lactucae* affected by temperature, relative humidity, and wind in controlled conditions. *Phytopathology* 94:396-401.
- Van Bruggen, A.H.C., and Termorshuizen, A.J. 2003. Integrated approaches to root disease management in organic farming systems. *Australasian Plant Pathology* 32: 141-156.
- Berkelmans, R., Ferris, H., Tenuta, M., and van Bruggen, A.H.C. 2003. Effects of long-term crop management on higher trophic levels of nematodes than plant parasitic nematodes disappear after one year of uniform management. *Appl. Soil Ecol.* 23: 223-235.
- Poudel, D.D., Horwath, W.R., Lanini, W.T., Temple, S.R., and van Bruggen A.H.C. 2002. Comparison of soil N availability and leaching potential, crop yields and weeds in organic, low-input and conventional farming systems in northern California. *Agric. Ecosystems Environ.* 90:125-137.
- Van Bruggen A.H.C., Semenov A. M., and Zelenev V. V. 2002. Wave-like distributions of

infections by an introduced and naturally occurring root pathogen along wheat roots. *Microb. Ecol.* 44:30-38.

- Semenov V.M., Semenov A. M., Van Bruggen A.H.C., Ferris H., Kuznetsova T.V. 2002. Transformation of N from soil and plant residues by the community of soil microorganisms and by microscopic animals. *Agrochemistry* 1:5-11. (In Russian).
- Wu, B.M., van Bruggen, A.H.C., Subbarao, K.V., and Scherm, H. 2002. Incorporation of temperature and solar radiation thresholds to modify a lettuce downy mildew warning system. *Phytopathology* 92:631-636.
- Van Bruggen A.H.C., Semenov A. M., Zelenev V.V. 2001. Consequences of running waves of microbial populations in the rhizosphere for infection by root pathogens. *Journal of Russian Phytopathological Society* 2:1-7.
- Poudel, D.D., Ferris, H., Klonsky, K., Horwath, W.R., Scow, K.M., van Bruggen, A.H.C., Lanini, W.T., Mitchell, J.P., and Temple, S.R. 2001. The sustainable agriculture farming system project in California's Sacramento Valley. *Outlook on Agriculture* 30:109-116.
- Boff, P., de Kraker, J., van Bruggen, A.H.C., Gerlagh, M., and Kohl, J. 2001. Conidial persistence and competitive ability of the antagonist *Ulocladium atrum* on strawberry leaves. *Biocontrol Sci. Technol.* 11:623-636.
- Wu, B.M., van Bruggen, A.H.C., Subbarao, K.V., and Pennings, G.G.H. 2001. Validation of weather and leaf wetness forecasts for a lettuce downy mildew warning system. *Can. J. Plant Pathol.* 23: 371-383.
- Wu, B.M., Subbarao, K.V., van Bruggen, A.H.C., and Koike, S.T. 2001. Comparison of three fungicide spray advisories for lettuce downy mildew. *Plant Disease* 85:895-900.
- Wu, B.M., van Bruggen, A.H.C., Subbarao, K.V., and Pennings, G.G.H. 2001. Spatial analysis of lettuce downy mildew using geostatistics and GIS. *Phytopathology* 91:134-142.
- Cao, K.Q. and van Bruggen, A.H.C. 2001. Inhibitory efficacy of several plant extracts and plant products on *Phytophthora infestans*. *J. Agric. Univ. Hebei* 24(2): 90-96.
- Su, H., van-Bruggen A.H.C. and Subbarao, K.V. 2000. Spore release of *Bremia lactucae* on lettuce is affected by timing of light initiation and decrease in relative humidity *Phytopathol.* 90: 67-71.
- Wu, B.M., Subbarao, K.V., and van Bruggen, A.H.C. 2000. Factors affecting the survival of *Bremia lactucae* sporangia deposited on lettuce leaves. *Phytopathology* 90:827-833.
- Zelenev, V.V., van Bruggen, A.H.C., and Semenov, A.M. 2000. "BACWAVE", a spatial-temporal model for traveling waves of bacterial populations in response to a moving carbon source in soil. *Microbial Ecology* 40:260-272.
- van Bruggen, A.H.C., Semenov, A.M., and Zelenev, V.V. 2000. Wavelike distributions of microbial populations along an artificial root moving through soil. *Microbial Ecology* 40:250-259.
- van Bruggen, A.H.C., Termorshuizen, A.J. and A.M. Semenov. 2000. Hyphal growth and colony expansion. *New Phytologist* 146:355-356.
- van Bruggen, A.H.C. and Semenov, A.M.. 2000. In search of biological indicators for soil health and disease suppression. *Appl. Soil Ecol.* 15:13-24.
- Grünwald, N.J., Hu, S. and van Bruggen, A.H.C. 2000. Short-term cover crop decomposition in organic and conventional soils: Soil microbial and nutrient cycling indicator variables associated with different levels of soil suppressiveness to *Pythium aphanidermatum*. *Europ. J. Plant Pathol.* 106:51-65.
- Grünwald, N.J., Hu, S. and van Bruggen, A.H.C. 2000. Short-term cover crop decomposition in organic and conventional soils; Characterization of soil C, N, microbial and plant pathogen dynamics. *European Journal of Plant Pathology* 106:37-50.
- Hu, S.J., van Bruggen, A.H.C., and Grunwald, N.J. 1999. Dynamics of bacterial populations in relation to carbon availability in a residue-amended soil. *Appl. Soil Ecol.* 13:21-30.

- Semenov, A.M., van Bruggen, A.H.C. and Zelenev, V.V. 1999. Moving waves of bacterial populations and total organic carbon along roots of wheat. *Microbial Ecology* 37:116-128.
- van Bruggen, A.H.C. and Semenov, A.M. 1999. A new approach to the search for indicators of root disease suppression. *Australasian Plant Pathol.* 28:4-10.
- Hu, S., and van Bruggen, A.H.C. 1999. Efficiencies of chloroform fumigation in soil: effects of physiological states of bacteria. *Soil Biol. Biochem.* 30:1841-1844.
- Clark, M.S., Ferris, H., Klonsky, K., Lanini, W.T., van Bruggen, A.H.C. and Zalom, F.G. 1998. Agronomic, economic, and environmental comparison of pest management in conventional and alternative tomato and corn systems in Northern California. *Agric. Ecosystems Environ.* 68:51-71.
- Maloney, P.E., van Bruggen, A.H.C. and Hu, S. 1997. Bacterial community structure in relation to the carbon environment in lettuce and tomato rhizospheres and in bulk soil. *Microbial Ecology* 34:109-117.
- Hu, S., van Bruggen, A.H.C., Wakeman, R.J. and Grunwald, N.J. 1997. Microbial suppression of in vitro growth of *Pythium ultimum* and disease incidence in relation to soil C and N availability. *Plant and Soil* 195:43-52.
- Hu, S., Grunwald, N.J., van Bruggen, A.H.C., Gamble, G.R., Drinkwater, L.E., Shennan, C. and Demment, M.W. 1997. Short-term effects of cover crop incorporation on soil carbon pools and nitrogen availability. *Soil Sci. Soc. Am. J.* 61:901-911.
- Hu, S., and van Bruggen, A.H.C. 1997. Microbial dynamics associated with multiphasic decomposition of ¹⁴C-labeled cellulose in soil. *Microbial Ecology* 33:134-143.
- Grunwald, N.J., Workneh, F., Hu, S. and van Bruggen, A.H.C. 1997. Comparison of an in vitro and a damping-off assay to test soils for suppressiveness to *Pythium aphanidermatum*. *European J. Plant Pathol.* 103:55-63.
- Drinkwater, L.E., Workneh, F., Letourneau, D.K., van Bruggen, A.H.C. and Shennan, C. 1995. Fundamental differences between conventional and organic tomato agroecosystems in California. *Ecol. Applic.* 5:1098-1112.
- van Bruggen, A.H.C. 1995. Plant Disease severity in high-input compared to reduced-input and organic farming systems. *Plant Disease* 79:976-984.
- Scherm, H., and van Bruggen, A.H.C. 1995. Comparative study of microclimate and downy mildew (*Bremia lactucae*) development in subsurface drip and furrow-irrigated lettuce fields in California. *Plant Disease* 79:620-625.
- Scherm, H., Koike, S.T., Laemmlen, F.F. and van Bruggen, A.H.C. 1995. Field evaluation of fungicide spray advisories against lettuce downy mildew (*Bremia lactucae*) based on measured or forecast morning leaf wetness. *Plant Disease* 79:511-516.
- van Bruggen, A.H.C. 1995. Highlights of international research projects: frontiers and networking. *Phytopathology News* 29:57-58.
- Scherm, H. and van Bruggen, A.H.C. 1995. Concurrent spore release and infection of lettuce by *Bremia lactucae* during mornings with prolonged leaf wetness. *Phytopathology* 85:552-555.
- Scherm, H., and van Bruggen, A.H.C. 1994. Global warming and nonlinear growth: how important are changes in average temperature? *Phytopathology* 84:1380-1384.
- Scherm, H., and van Bruggen, A.H.C. 1994. Weather variables associated with infection of lettuce by downy mildew (*Bremia lactucae*) in coastal California. *Phytopathology* 84:860-865.
- Scherm, H. and van Bruggen, A.H.C. 1994. Effects of fluctuating temperatures on the latent period of lettuce downy mildew (*Bremia lactucae*). *Phytopathology* 84:853-859.
- van Bruggen, A.H.C., and Grunwald, N.J. 1994. The need for a dual hierarchical approach to study plant disease suppression. *Appl. Soil Ecol.* 1:91-95.
- Workneh, F., and van Bruggen, A.H.C. 1994. Microbial density, composition, and diversity in organically and conventionally managed rhizosphere soil in relation to suppression of corky root of tomatoes. *Appl. Soil Ecol.* 1:219-230.

- Workneh, F., and van Bruggen, A.H.C. 1994. Suppression of corky root of tomatoes in soils from organic farms associated with soil microbial activity and nitrogen status of soil and tomato tissue. *Phytopathology* 84:688-694.
- Scherm, H., and van Bruggen, A.H.C. 1993. Sensitivity of simulated dew duration to meteorological variations in different climatic regions of California. *Agric. For. Meteorol.* 66:229-245.
- Workneh, F., van Bruggen, A.H.C., Drinkwater, L.E. and Shennan, C. 1993. Variables associated with corky root and *Phytophthora* root rot of tomatoes in organic and conventional farms. *Phytopathology* 83:581-589.
- Scherm, H., Pryor, B. and van Bruggen, A.H.C. 1993. Effect of ozonated water on sporangial germination of *Bremia lactucae* in vitro and in vivo. *Annals Appl. Biol.* 122:40-41.
- O'Brien, R.D., and van Bruggen, A.H.C. 1993. Effect of temperature on corky root of lettuce and growth of the pathogen *Rhizomonas suberifaciens*. *Can. J. Plant Pathol.* 15:85-90.
- van Bruggen, A.H.C., and Jochimsen, K.N. 1993. First report of *Rhizomonas suberifaciens* causing corky root of lettuce in Australia. *Australasian Plant Pathol.* 22:14-19.
- van Bruggen, A.H.C., Jochimsen, K.N., Steinberger, E.M., Segers, P. and Gillis, M. 1993. The classification of *Rhizomonas suberifaciens*, an unnamed *Rhizomonas* species, and *Sphingomonas* spp. in rRNA superfamily IV. *Int. J. Syst. Bacteriol.* 43:1-7.
- Scherm, H., and van Bruggen, A.H.C. 1993. Response surface models for germination and infection of *Bremia lactucae*, the fungus causing downy mildew of lettuce. *Ecological Modeling* 65:281-296.
- van Bruggen, A.H.C., and Rubatzky, V.E. 1992. Use of transplants instead of direct seeding to reduce corky root severity and losses due to corky root in iceberg lettuce. *Plant Disease* 76:703-708.
- van Bruggen, A.H.C., and Jochimsen, K.N. 1992. First report of *Rhizomonas* sp. causing corky root of lettuce in Europe. *Netherlands J. Plant Pathol.* 98:45-56.
- van Bruggen, A.H.C., Jochimsen, K.N., Benedict, A.A. and Pollard, L.W. 1992. Monoclonal antibodies for detection of *Rhizomonas suberifaciens*, causal agent of corky root of lettuce, by enzyme immune assays. *Food and Agricultural Immunol.* 4:27-40.
- O'Brien, R.D., and van Bruggen, A.H.C. 1992. Yield losses to iceberg lettuce due to corky root caused by *Rhizomonas suberifaciens*. *Phytopathology* 82:154-159.
- O'Brien, R.D., and van Bruggen, A.H.C. 1992. Accuracy, precision, and correlation to yield loss of disease severity scales for corky root of lettuce. *Phytopathology* 82:91-96.
- Snapp, S.S., Shennan, C. and van Bruggen, A. 1991. Effects of salinity on severity of infection by *Phytophthora parasitica* Dast., ion concentrations and growth of tomato, *Lycopersicon esculentum* Mill. *New Phytologist* 119:275-284.
- O'Brien, R.D., and van Bruggen, A.H.C. 1991. Populations of *Rhizomonas suberifaciens* on roots of host and nonhost plants. *Phytopathology* 81:1034-1038.
- O'Brien, R.D., Jochimsen, K.N. and van Bruggen, A.H.C. 1991. Lack of survival of *Rhizomonas suberifaciens* on lettuce and barley leaves. *Plant Disease* 75:954-957.
- van Bruggen, A.H.C., Neher, D.A. and Weight, T.R. 1991. Teaching computer-based diagnosis of plant diseases. *Plant Disease* 75:320-322.
- Bouchibi, N., van Bruggen, A.H.C. and MacDonald, J.D. 1990. Effect of ion concentration and sodium:calcium ratio of a nutrient solution on *Phytophthora* root rot of tomato and zoospore motility and viability of *Phytophthora parasitica*. *Phytopathology* 80:1323-1329.
- O'Brien, R.D. and van Bruggen, A.H.C. 1990. Soil fumigation with dazomet and methyl bromide for control of corky root of iceberg lettuce. *Plant Disease* 74:1022-1025.
- van Bruggen, A.H.C., Brown, P.R., Shennan, C. and Greathead, A.S. 1990. The effect of cover crops and fertilization with ammonium nitrate on corky root of lettuce. *Plant Disease* 74:584-589.
- van Bruggen, A.H.C., Brown, P.R. and Jochimsen, K.N. 1990. Host range of *Rhizomonas*

- suberifaciens*, the causal agent of corky root of lettuce. Plant Disease 74:581-584.
- van Bruggen, A.H.C., Brown, P.R. and Greathead, A.S. 1990. Distinction between infectious and non-infectious corky root of lettuce in relation to nitrogen fertilizer. J. Am. Soc. Hort. Sci. 115:762-770.
 - van Bruggen, A.H.C., Jochimsen, K.N. and Brown, P.R. 1990. *Rhizomonas suberifaciens* gen. nov., sp. nov., the causal agent of corky root of lettuce. Int. J. Syst. Bacteriol. 40: 175-188.
 - van Bruggen, A.H.C., Brown, P.R. and Jochimsen, K.N. 1989. Corky root of lettuce caused by strains of a gram-negative bacterium from muck soils of Florida, New York, and Wisconsin. Appl. Environ. Microbiol. 55: 2635-2640.
 - van Bruggen, A.H.C., and Reynolds, K. 1988. Effects of hydrogen fluoride on susceptibility of soybeans to *Rhizoctonia solani* and *Phytophthora megasperma* f. sp. *glycinea*. Agriculture, Ecosystems and Environment 24:443-452.
 - van Bruggen, A.H.C., Troiano, J., Butterfield, E.J., Heller, L., Osmeloski, J.F. and Jacobson, J.S. 1988. Retention of maneb and cupric hydroxide and control of late blight on potato foliage exposed to simulated acidic rain in the field. Agriculture, Ecosystems and Environment 24:431-442.
 - van Bruggen, A.H.C., Grogan, R.G., Bogdanoff, C.P. and Waters, C.M. 1988. Corky root of lettuce in California caused by a gram-negative bacterium. Phytopathology 78:1139-1145.
 - van Bruggen, A.H.C., Osmeloski, J.F. and Jacobson, J.S. 1987. Effects of simulated acidic mist on germination of *Alternaria solani* and *Phytophthora infestans* in vitro, and their infection efficiency and sporulation on potato. Phytopathology 77:564-570.
 - van Bruggen, A.H.C., Milgroom, M.G., Osmeloski, J.F., Fry, W.E. and Jacobson, J.S. 1987. Attenuation of metalaxyl on potato leaves by simulated acidic rain and residence time. Phytopathology 77:401-406.
 - van Bruggen, A. H. C., and Arneson, P.A. 1986. Path coefficient analysis of effects of *Rhizoctonia solani* on growth and development of dry beans. Phytopathology 76:874-878.
 - van Bruggen, A.H.C., Whalen, C.H. and Arneson, P.A. 1986. Effects of inoculum level of *Rhizoctonia solani* on emergence, plant development and yield of dry beans. Phytopathology 76:869-873.
 - van Bruggen, A.H.C., Osmeloski, J.F. and Jacobson, J.S. 1986. Effects of simulated acidic rain on wash-off of fungicides and control of late blight on potato leaves. Phytopathology 76:800-804.
 - van Bruggen, A.H.C., Whalen, C.H. and Arneson, P.A. 1986. Emergence, growth, and development of dry bean seedlings in response to temperature, soil moisture and *Rhizoctonia solani*. Phytopathology 76:568-572.
 - van Bruggen, A.H.C., and Arneson, P.A. 1986. Quantitative recovery of *Rhizoctonia solani* from soil. Plant Disease 70:320-323.
 - van Bruggen, A.H.C., and Arneson, P.A. 1985. A quantifiable type of inoculum of *Rhizoctonia solani*. Plant Disease 69:966-969.
 - van Bruggen, A.H.C., and Yilma, A. 1985. Virus and virus-like diseases of citrus in Ethiopia. FAO Plant Prot. Bull. 33:2-12.
 - van Bruggen, A.H.C., and Arneson, P.A. 1984. Resistance in *Rhizoctonia solani* to tolclofos-methyl. Neth. J. Plant Pathol. 90:95-106.
 - van Bruggen, A.H.C. 1984. Sweet potato stem blight caused by *Alternaria* sp.: a new disease in Ethiopia. Neth. J. Plant Pathol. 90:155-164.

BOOK CHAPTERS, PROCEEDINGS AND BOOKS:

- van Bruggen, A.H.C. and Francis, I. 2022. *Rhizorhapis*, *Sphingobium*, *Sphingopyxis* and *Rhizorhabdus*. Ch. Xx in: Jones, J.B., Sundin, G. and Miller, S.A. Laboratory Guide for Identification of Plant Pathogenic Bacteria, 4th edition. APS Press, St. Paul, Minnesota.

(submitted)

- Jeger, M., Stancanelli, G., Gilioli, G., Urek, G., van Bruggen, A., Grégoire, J.C., Rossi, V., van der Werf, W., MacLeod, A., Schader, G., Vos, S., Kozelska, S., Pautasso, M., Gardi, C., Mosbach-Schulz, O. 2020. Quantitative assessment of consequences of quarantine plant pathogen introductions: from crop losses to environmental impact. In: Scott, P., Strange, R., Korsten, L., and Gullino, M.L. (eds.) *Plant Diseases and Food Security in the 21st Century*. ISPP.
- Wu, B.M., van Bruggen, A.H.C. and Subbarao, K.V. 2017. Downy Mildew. Pages 32-35 In: Subbarao, K.V., Davis, R.M., Gilbertson, R.L. and Raid, R.N. (eds.) *Compendium of Lettuce Diseases and Pests*. 2nd edition. APS Press, St. Paul, MN.
- van Bruggen, A.H.C. 2017. Corky Root. Pages 59-60 In: Subbarao, K.V., Davis, R.M., Gilbertson, R.L. and Raid, R.N. (eds.) *Compendium of Lettuce Diseases and Pests*. 2nd edition. APS Press, St. Paul, MN.
- Van Bruggen, A.H.C., Jones, J.W., Fernandez, J.M., Garrett, K., and Boote, K.J. 2015. Crop Diseases and Climate Change in the AgMIP framework. In: Rosenzweig, C. and Hillel, D. (eds.) *Handbook of Climate Change and Agroecosystems*. ICP Series on Climate Change Impacts, Adaptation, and Mitigation, Vol. 3. Am. Soc. Agron., Crop Sci. Soc. Am. and Soil Sci. Soc. Am., Imperial College Press, London. Pp. 297-330.
- Finckh, M.R. van Bruggen, A.H.C. and Tamm, L. (eds.). 2015. *Plant Diseases and their Management in Organic Agriculture*. APS Press, St. Paul, Minnesota, 402 pp. (van Bruggen (co)authored 10 chapters).
- Finckh, M.R. and van Bruggen, A.H.C. 2015. General Introduction. Chapter 1 in: Finckh, M., van Bruggen, A.H.C. and Tamm, L. (eds.) *Plant Diseases and their Management in Organic Agriculture*. APS Press, St. Paul, Minnesota, pp. 3-11.
- van Bruggen, A.H.C., and Finckh, M.R. 2015. General principles of organic plant production. Chapter 2.1 in: Finckh, M., van Bruggen, A.H.C. and Tamm, L. (eds.) *Plant Diseases and their Management in Organic Agriculture*. APS Press, St. Paul, Minnesota, pp. 15-23.
- Finckh, M.R., and van Bruggen, A.H.C. 2015. Organic production of annual crops. Chapter 2.2 in: Finckh, M., van Bruggen, A.H.C. and Tamm, L. (eds.) *Plant Diseases and their Management in Organic Agriculture*. APS Press, St. Paul, Minnesota, pp. 25-32.
- Tamm, L., Willer H., and van Bruggen, A.H.C. 2015. Organic perennial crop production. Chapter 2.3 in: Finckh, M., van Bruggen, A.H.C. and Tamm, L. (eds.) *Plant Diseases and their Management in Organic Agriculture*. APS Press, St. Paul, Minnesota, pp. 33-41.
- van Bruggen, A.H.C. 2015. Organic greenhouse production. Chapter 2.4 in: Finckh, M., van Bruggen, A.H.C. and Tamm, L. (eds.) *Plant Diseases and their Management in Organic Agriculture*. APS Press, St. Paul, Minnesota, pp. 43-50.
- van Bruggen, A.H.C., and Semenov, A.M. 2015. Soil health and soilborne diseases in organic agriculture. Chapter 3.2 in: Finckh, M., van Bruggen, A.H.C. and Tamm, L. (eds.) *Plant Diseases and their Management in Organic Agriculture*. APS Press, St. Paul, Minnesota, pp. 67-89.
- van Bruggen, A.H.C. 2015. Introduction to plant disease management in organic agriculture. Chapter 4.1 in: Finckh, M., van Bruggen, A.H.C. and Tamm, L. (eds.) *Plant Diseases and their Management in Organic Agriculture*. APS Press, St. Paul, Minnesota, pp. 119-126.
- Leoni, C., Rossing, W.A.H. and van Bruggen, A.H.C. 2015. Crop rotation. Chapter 4.2 in: Finckh, M., van Bruggen, A.H.C. and Tamm, L. (eds.) *Plant Diseases and their Management in Organic Agriculture*. APS Press, St. Paul, Minnesota, pp. 127-140.
- Chellemi, D.O., van Bruggen, A.H.C., and Finckh, M. 2015. Direct control of soilborne diseases. Chapter 4.8 in: Finckh, M., van Bruggen, A.H.C. and Tamm, L. (eds.) *Plant Diseases and their Management in Organic Agriculture*. APS Press, St. Paul, Minnesota, pp. 217-226.
- van Bruggen, A.H.C., Franz E., and Wyss, G. 2015. Organic food chain management. Chapter 4.9 in: Finckh, M., van Bruggen, A.H.C. and Tamm, L. (eds.) *Plant Diseases and their Management in Organic Agriculture*. APS Press, St. Paul, Minnesota, pp. 227-236.

- Gu, G., Rideout, S.L., Cevallos-Cevallos, J.M. and van Bruggen, A.H.C. 2015. The chance is low, but it can happen: *Salmonella* contamination on Tomatoes. *Acta Horticulturae* (ISHS) 1069:329-332 .
- van Bruggen, A.H.C., Sharma, K., Merritt, J.L., Ali, G.S., Dickstein, E.R., and Harmon, C. L. 2014. Pests and Diseases in Ornamental Greenhouse Crops: International Trade, Diagnosis, Management, and Audit-based Certification Systems. University of Florida, IFAS, Gainesville, FL, USA. 148 pp.
- Van Bruggen, A.H.C., Blok, W. and Gu, G. 2014. Soil disinfestation and food safety issues. VIII International Symposium on Chemical and Non-Chemical Soil and Substrate Disinfestation. *Acta Hort.* (ISHS) 1044: 437-445.
- Committee on Mycoherbicides for Eradicating Illicit Drug Crops; Board on Agriculture and Natural Resources; National Research Council. 2011. Feasibility of Using Mycoherbicides for Controlling Illicit Drug Crops. The National Academies Press, Washington DC. 186 pp.
- Hiddink, G.A., Termorshuizen, A.J. and van Bruggen, A.H.C. 2009. Mixed cropping and suppression of soilborne diseases, a review. In: E. Lichtfouse (ed.), *Genetic Engineering, Biofertilisation, Soil Quality and Organic Farming, Sust. Agric. Rev.* 4: 119-146.
- van Bruggen, A.H.C., Blok, W.J., de Vos, O.J., Volker, D. and Diepen, G. 2008. EM: effectieve microben of effectieve magie? : Een onderzoek naar de effectiviteit van Effectieve Micro-organismen (EM) *Wageningen : Wetenschapswinkel, Wageningen UR, (Rapport / Wetenschapswinkel Wageningen UR 245)*
- van Bruggen, A.H.C., Franz, E. and Semenov, A.M. 2008. Human pathogens in organic and conventional foods and effects of the environment. In: Givens, I., Baxter, S, Minihane, A.M. and Shaw, E. (eds.) *Health Benefits of Organic Food: Effects of the environment.* CABI International, Wallingford, UK. Pp. 160-189.
- van Bruggen, A.H.C., van den Dungen, S., Oosterbaan, H., Engelen, C., and Lelieveld, W. 2008. Case study for integrating research, teaching and organic practice “Increasing sustainability by closing (knowledge) cycles”. A Dutch course on integration of animal and plant production with university students, vocational students, teachers, farmers and consultants. In: Caporali, F., Lieblein, G., von Fragstein, P. and Francis, C. (eds.). *Integration of Research and Education in Agroecology and Organic Farming.* Proceedings of ENOAT Workshop, Pieve Tesino, Italy, 30-31 August 2007.
- Zadoks, J.C. and van Bruggen, A.H.C. 2008. Johanna Westerdijk (1883-1961) The Grand Lady of Dutch Plant Pathology. In: Beagle Ristaino, J. (ed.), *Pioneering Women in Plant Pathology.* APS Press, St. Paul, Minnesota, USA. Pp. 155-167.
- Letourneau, D. and van Bruggen, A.H.C. 2006. Crop Protection. Ch 4 in: *Organic Agriculture: A Global Perspective.* Kristiansen, P., Taji, A., and Reganold. J. (Eds.) CSIRO. Pp. 93-121.
- Messiha, N.A.S., Janse, J.D., van Diepeningen, A., Fawzy, F.G., Termorshuizen, A.J. and van Bruggen A.H.C. 2005. Survival and disease suppression of potato brown rot in organically and conventionally managed soils. In: Haverkort, A.J. and Struik, P.C. (eds.) *Potato in Progress. Science Meets Practice.* Wageningen Academic Publishers. Pp. 221-227.
- Mancini F., van Bruggen A. H. C., Jiggins J. H. L., Ambatipudi A., Murphy. H., 2005. Incidence of Acute Pesticide Poisoning among Male and Female Cotton Growers. In: *The Impact of the FAO-EU IPM Programme.* Eds. P.A.C.Ooi, S. Praneetvatakul, H. Waibel, G. Walter-Echols. Pesticide Policy Project. University of Hannover. Publication Series Special Issue No. 9., Hannover University, Germany.
- van Boekel, M.A.J.S., A. Stein, and A.H.C. van Bruggen. 2004. Bayesian Statistics and Quality Modeling in the Agro-Food Production Chain. Kluwer Acad. Publ. Dordrecht. 165 pp.
- Franz, E., van Bruggen, A.H.C. and Semenov, A.M. 2004. Risk-analysis of human pathogen spread in the vegetable industry: a comparison between organic and conventional production chains. In: van Boekel, M.A.J.S., Stein, A., and van Bruggen, A.H.C. *Bayesian Statistics and*

Quality Modelling in the Agro-Food Production Chain. Kluwer Acad. Publ. Dordrecht. Pp. 81-94.

- Smeding, F.W., Maassen, A.H.T.M., and van Bruggen, A.H.C. 2001. Functional group compositions of vegetation dwelling arthropods in relation to ecological infrastructure and time since conversion to organic farming. PP 5-29 in: Smeding, F.W. Steps towards Food Web Management on Farms. PhD Thesis, Wageningen University.
- van Bruggen, A.H.C. and Rossing, W.A.H. 2001. Complementariteit van vergelijkend en ontwerpend bedrijfssystemenonderzoek, met specifieke aandacht voor biologische bedrijfssystemen. In: Wolfert, J., Bookij, R., and van Ittersum, M.K. (red.). Ecologisering en Bedrijfssystemenonderzoek: Waarheen, Waarvoor? KLV, Wageningen, pp 51-65.
- van Bruggen, A.H.C., and H.W. Scherm. 1997. Downy Mildew. Pages 17-19 In: Davis, R.M., Subbarao, K.V., Raid, R.N., and Kurtz, E.A. (eds.) Compendium of Lettuce Diseases. APS Press, St. Paul, MN.
- van Bruggen, A.H.C. 1997. Corky Root. Pages 28-29 IN: Davis, R.M., Subbarao, K.V., Raid, R.N., and Kurtz, E.A. (eds.) Compendium of Lettuce Diseases. APS Press, St. Paul, MN.
- van Bruggen, A.H.C., and N.J. Grunwald. 1996. Tests for risk Assessment of root infection by plant pathogens. IN: Methods for Assessing Soil Quality. Doran, J.W., A.J. Jones (eds.). Soil Sci. Soc. Am., Inc., Madison, 293-310.
- van Bruggen, A.H.C., N.J. Grunwald, and M. Bolda. 1996. Cultural methods and soil nutrient status in low and high input cropping systems as they affect *Rhizoctonia* species. Pages 407-422 in: Sneh, B., S. Jabaji-Hare, S. Neate, and G. Dijst (eds.). *Rhizoctonia* Species: Taxonomy, Molecular Biology, Ecology, Pathology and Disease Control. Kluwer Academic Publ. Dordrecht.
- van Bruggen, A.H.C., and F. Workneh. 1993. Suppression of corky root of tomatoes in organically managed soil associated with soil microbial activity and diversity and nitrogen status of soil and tomato tissue. In: Management of Soil Biota in Sustainable Farming Systems, Adelaide, Australia, pp. 39-40.
- Shennan, C., L.E. Drinkwater, A.H.C. van Bruggen, D.K. Letourneau, and F. Workneh. 1991. Comparative study of organic and conventional tomato production systems: An approach to on-farm systems studies. Pages 109-132 in: Sustainable Agriculture Research and Education in the Field. Board on Agric., National Research Council, National Academy Press, Washington, DC.