

Lab web page: <http://www.KamounLab.net>

ResearcherID: <http://www.researcherid.com/rid/B-3529-2009>

Education

Pierre & Marie Curie Univ., Paris, France	Cell Biology and Genetics	Maitrise	1987
University of California, Davis, USA	Genetics	PhD	1991
NSF CEPRAP, UC Davis, USA	Molecular Plant Pathology	Postdoc	1991-94

Appointments

2009-present	Head, The Sainsbury Laboratory, John Innes Centre, Norwich Research Park, UK
2009-present	Honorary Professor, University of East Anglia, Norwich Research Park, UK
2007-present	Senior Scientist, The Sainsbury Laboratory, John Innes Centre, Norwich Research Park, UK
2006-2007	Professor, Dept. Plant Pathology, Ohio State Univ, Ohio Ag Res Dev Center, Wooster
2002-2006	Associate Professor, Dept. Plant Pathology, Ohio State Univ, OARDC, Wooster
1998-2002	Assistant Professor, Dept. Plant Pathology, Ohio State Univ, OARDC, Wooster
1994-1997	Senior Research Scientist, Dept. Phytopathology, Wageningen Univ, The Netherlands
1991-1994	Postdoc, NSF Ctr for Engineering Plants for Resistance Against Pathogens, UC Davis
1987-1991	Research Assistant, Dept. Plant Pathology and Genetics Graduate Group, UC Davis
1986	Research Assistant, The Wistar Institute, Philadelphia, Pennsylvania, USA

Teaching

2004-present	Workshops “Computational Biology” and “Don't Perish: Writing a scientific paper”
1998-2007	“Agricultural Genomics: Principles and Applications” and “Plant-Microbe Interactions”

International Prizes/Awards/memberships:

2011	President, International Society for Molecular Plant-Microbe Interactions (IS-MPMI)
2010	Daiwa Adrian Prize (scientific collaboration between Japanese and British research teams)
2010	Science Advisory Board, Max Planck Institute for Terrestrial Microbiology.
2010	Thomson Reuters Fast Breaking Paper: Hogenhout <i>et al.</i> Mol Plant-Microbe Interact 22:115.
2009	Science Advisory Board, Two Blades Foundation.
2009	President-elect, International Society for Molecular Plant-Microbe Interactions (IS-MPMI).
2009	Think Tank “wheat stem rust”, San Diego, CA.
2008	BASF Science Panel.
2007	Board of Directors, International Society for Molecular Plant-Microbe Interactions (IS-MPMI).
2006	WE Krauss Director’s Award for Excellence in Graduate Research Mentorship, OARDC.
2004	Pomerene Teaching Award, CFAES, Ohio State University.
2004	OARDC Junior Faculty Research Award.
2003	American Phytopathological Society Syngenta Award.
2002	Advisory Committee, NSF Research Collaboration Network on <i>Phytophthora</i> Molecular Genetics.
2001	Advisory Committee, Potato Genome Project, NSF Plant Genome Program.

Editorials Boards of International Journals:

2006-2009	Monitoring Editor, Plant Physiology.
2006-2009	Editor In Chief, IS-MPMI Reporter.
2003-2008	Senior Editor, Molecular Plant Pathology.
2000-2003	Associate Editor, Molecular Plant-Microbe Interactions.

Research Funding (selected)

2011-2014	“A pipeline to identify durable late blight disease resistance in potato”. BBSRC.
2008-2011	“Role of the <i>P. infestans</i> secreted kinase CRN8 in plant disease”. BBSRC.
2008-2011	“Monitoring of <i>Avr</i> genes in <i>P. infestans</i> populations”. BASF Plant Science.
2005-2007	“Genome Sequence of <i>P. infestans</i> ”. NSF-USDA Microbial Genome Sequencing.
2005-2007	“Genome sequence of <i>P. capsici</i> ”. NSF-USDA Microbial Genome Sequencing.
2005-2006	“ <i>Avr</i> genes of <i>Phytophthora infestans</i> ”. BASF Plant Science.
2004-2007	“ <i>P. infestans</i> protease inhibitors”. USDA-NRI Plant Microbe Associations.
2003-2004	“Microbial Genome Sequencing: <i>Phytophthora</i> ”. NSF Emerging Frontiers.
2002-2006	“Functional Genomics of <i>Phytophthora</i> ”. NSF Plant Genome Research Program.

Professional activities (selected)

- 2011 Course “Plant Interactions with other Eukaryotes”, Geneva, Switzerland.
2010 Reviewer, Genome Canada, Large-Scale Applied Research Project Competition.
2010 Q10: Talking Heads, interview with Business Weekly.
2010 “Rust resistance gene deployment”, Bill & Melinda Gates Foundation, St Petersburg, Russia.
2010 “Fighting pests and diseases”, Food Security Public Event, John Innes Centre.
2009 Think Tank “Exploiting *Puccinia graminis* f. sp. *tritici* genome information to control wheat stem rust”, San Diego, CA.
2008 Review of Deutsche Forschungsgemeinschaft (DFG)-Research Unit “Mechanisms of compatibility: Reprogramming of plant metabolism by fungal effector molecules”.
2008 BBSRC Plant and Microbial Sciences Committee for Evaluation of Responsive Mode Portfolio.
2008 Evaluation Committee INRA Lab “Santé de la Vigne et Qualité du Vin”, Colmar, France.
2004 Chair, symposium “Suppression of Host Defense Responses by Pathogens”, Annual Meeting of the American Phytopathological Society.
2004 Member, American Phytopathological Society committee on “Priorities for Plant Pathology”.
2002 Chair, symposium “Genomics of Plant-Pathogen Interactions”, Annual Meeting of the American Phytopathological Society.
2003 Panel member, USDA National Research Initiative Competitive Grants Program “Functional Genomics of Agriculturally Important Microbes”.
2003 Invited participant, colloquium on Genomes and Pathogenesis, organized by the American Academy of Microbiology.
2002 Invited participant, workshop on Research Priorities for Genomic Analysis of Plant-Associated Microorganisms, organized by the American Phytopathological Society Public Policy Board.
2000 Panel member, USDA National Research Initiative Competitive Grants Program “Biology of Plant-Microbe Interactions”.

Organisation of International conferences:

- 2013 Co-organiser, Keynote session “Genomics and plant pathology”, ICPP, Beijing, China
2012 Co-organiser, 15th New Phytol Symp “Immunomodulation by plant associated organisms”, CA
2011 Co-organiser, Plant Pathogenomics Conference, Shenzhen, China
2009 Co-organiser, 12th New Phytologist Symposium “Effectors in Plant Microbe Interactions”, Paris
2008 Co-organiser, Third International Late Blight Conference, Beijing, China.
2008 Workshop chair, Keystone Symposium, Plant Innate Immunity, Keystone, Colorado.
2007 Chair, 13th International Congress of Molecular Plant-Microbe Interactions, Sorrento, Italy.
2007 Chair, session “Plant/Environment Interactions”, 4th Solanaceae Genomics Workshop.
2005 Chair, session “Genomes and Evolution”, 23d Fungal Genetics Conference.
2001 Organiser, “Oomycete Molecular Genetics 2001” Conference, Wooster, Ohio.
2000 Organiser, “*Phytophthora* Molecular Genetics Symposium: Beyond Y2K” conference, Wooster, Ohio.

Edited books/monographs:

- Martin, F. and Kamoun, S.** (Eds) 2011. “Effectors in Plant-Microbe Interactions”. Wiley-Blackwell.
Lamour, K. and Kamoun, S. (Eds) 2009. “Oomycete Genetics and Genomics: Diversity, Interactions, and Research Tools”. John Wiley and Sons.
Grant, M. and Kamoun, S. (Eds) 2008. Themed issue on biotic interactions. *Curr Opin Plant Biol* 11:357.
Kamoun, S. (Topical Editor) 2003. *Encyclopedia of Plant and Crop Science: Fungal and oomycete diseases.*

Invited presentations (selected from >170):

- 2011 CSHL Meeting on Plant Genomes & Biotechnology
2011 Keynote presentation at International Arabidopsis Conference, Madison, WI
2011 Plenary talk at Advances in Genome Biology and Technology (AGBT), Marco Island, FL
2010 Annual Plant Sciences Institute Mini-Symposium: Effectors of Plant Pathogens, Iowa State
2010 Plenary talk at SOL 2010, 7th Solanaceae conference Dundee, Scotland
2010 Plenary talk at Crop Functional Genomics, Jeju, Korea
2010 Plenary talk at Keystone Conference, Granlibakken, Tahoe, California
2009 9th International Plant Molecular Biology Congress, St Louis, Missouri.
2009 Plenary talk at 14th International Congress of Molecular Plant-Microbe Interactions, Quebec
2008 International Congress of Plant Pathology, session “Host-pathogen interactions”, Torino, Italy.
2008 Gordon Research Conference “Cellular and Molecular Fungal Biology”, Holderness, NH

Publications (selected):

[career total = 113; last 10-year = 83; total citations > 4300; citations last 5-year = ~3000; h index = 40]

- Raffaele, S., Farrer, R.A., Cano, L.M., Studholme, D.J., MacLean, D., Thines, M., Jiang, R.H.Y., Zody, M.C., Kunjeti, S.G., Donofrio, N.M., Meyers, B.C., Nusbaum, C., and **Kamoun, S.** 2010. Genome evolution following host jumps in the Irish potato famine pathogen lineage. *Science*, 330:1540-1543.
- Baxter, L., Tripathy, S., *et al.* 2010. Signatures of adaptation to obligate biotrophy in the *Hyaloperonospora arabidopsidis* genome. *Science*, 330:1549-1551.
- Schorneck, S., van Damme, M., Bozkurt, T.O., Cano, L.M., Smoker, M., Thines, M., Gaulin, E., **Kamoun S.**, and Huitema, E. 2010. Ancient class of translocated oomycete effectors targets the host nucleus. *Proceedings of the National Academy of Sciences USA*, 107:17421-17426.
- Levesque, C.A., *et al.* 2010. Genome sequence of the necrotrophic plant pathogen, *Pythium ultimum*, reveals original pathogenicity mechanisms and effector repertoire. *Genome Biology*, 11:R73.
- Bos, J.I.B., Armstrong, M.R., Gilroy, E.M., Boevink, P.C., Hein, I., Taylor, R.M., Zhendong, T., Engelhardt, S., Vetukuri, R.R., Harrower, B., Dixelius, C., Bryan, G., Sadanandom, A., Whisson, S.C., **Kamoun, S.**, and Birch, P.R.J. 2010. *Phytophthora infestans* effector AVR3a is essential for virulence and manipulates plant immunity by stabilizing host E3 ligase CMPG1. *Proceedings of the National Academy of Sciences USA*, 107:9909-14.
- Thines, M., and **Kamoun, S.** 2010. Oomycete-plant coevolution: recent advances and future prospects. *Current Opinion in Plant Biology*, 13:427-433.
- Oh, S.-K., Young, C., Lee, M., Oliva, R., Bozkurt, T., Cano, L.M., Win, J., Bos, J.I.B., Liu, H.,-Y., van Damme, M., Morgan, W., Choi, D., van der Vossen, E.A.G., Vleeshouwers, V., and **Kamoun, S.** 2009. *In planta* expression screens of *Phytophthora infestans* RXLR effectors reveal diverse phenotypes, including activation of the *Solanum bulbocastanum* disease resistance protein Rpi-blb2. *Plant Cell*, 21:2028-2947.
- Haas, B.J., **Kamoun, S.**, *et al.* 2009. Genome sequence and analysis of the Irish potato famine pathogen *Phytophthora infestans*. *Nature*, 461:393-398.
- Bos, J.I.B., Chaparro-Garcia, A., Quesada-Ocampo, L.M., McSpadden-Gardener, B.B., and **Kamoun, S.** 2009. Distinct amino acids of the *Phytophthora infestans* effector AVR3a condition activation of R3a hypersensitivity and suppression of cell death. *Molecular Plant-Microbe Interactions*, 22:269-281.
- Song, J., Win, J., Tian, M., Schornack, S., Kaschani, F., Ilyas, M., van der Hoorn, R.A.L., and **Kamoun, S.** 2009. Two effectors secreted by unrelated eukaryotic plant pathogens target the tomato defense protease Rcr3. *Proceedings of the National Academy of Sciences USA*, 106:1654-1659.
- Hogenhout, S.A., Van der Hoorn, R.A.L., Terauchi, R., and **Kamoun, S.** 2009. Emerging concepts in effector biology of plant-associated organisms. *Molecular Plant-Microbe Interactions*, 22:115-122.
- Van der Hoorn, R.A. and **Kamoun, S.** 2008. From guard to decoy: a new model for perception of plant pathogen effectors. *Plant Cell*, 20:2009-2017.
- Vleeshouwers, V.G.A.A., Rietman, H., Krenek, P., Champouret, N., Young, C., Oh, S.-K., Wang, M., Bouwmeester, K., Vosman, B., Visser, R.G.F., Jacobsen, E., Gover, F., **Kamoun, S.**, and van der Vossen, E.A.G. 2008. Effector genomics accelerates discovery and functional profiling of potato disease resistance and *Phytophthora infestans* avirulence genes. *PLoS ONE* 3:e2875.
- Win, J., Morgan, W., Bos, J., Krasileva, K.V., Cano, L.M., Chaparro-Garcia, A., Ammar, R., Staskawicz, B.J., and **Kamoun, S.** 2007. Adaptive evolution has targeted the C-terminal domain of the RXLR effectors of plant pathogenic oomycetes. *Plant Cell*, 19:2349-2369.
- Kamoun, S.** 2007. Groovy times: Filamentous pathogen effectors revealed. *Current Opinion in Plant Biology*, 10:358-365.
- Kamoun, S.** 2006. A catalogue of the effector secretome of plant pathogenic oomycetes. *Annual Review of Phytopathology*, 44:41-60.
- Bos, J.I.B., Kanneganti, T. -D., Young, C., Cakir, C., Huitema, E., Win, J., Armstrong, M., Birch, P.R.J., and **Kamoun, S.** 2006. The C-terminal half of *Phytophthora infestans* RXLR effector AVR3a is sufficient to trigger R3a-mediated hypersensitivity and suppress INF1-induced cell death in *Nicotiana benthamiana*. *Plant Journal*, 48:165-176.