

## **Curriculum vitae: [Sophien Kamoun FRS](#)**

[January 2022]

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### **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**

2007-present	Senior Scientist, The Sainsbury Laboratory, Norwich Research Park, UK
2006-2007	Professor, Dept. Plant Pathology, Ohio State Univ, Ohio Ag Res Dev Center (OARDC), 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 (CEPRAP), UC Davis
1987-1991	Research Assistant, Dept. Plant Pathology and Genetics Graduate Group, UC Davis
1986	Research Assistant, The Wistar Institute, Philadelphia, Pennsylvania, USA

### **Institutional responsibilities**

2012-present	Professor of Biology, Univ. of East Anglia, Norwich, UK.
2014-2021	Postgraduate Research Director, The Sainsbury Laboratory, Norwich Research Park, UK.
2009-2014	Head, The Sainsbury Laboratory, Norwich Research Park, UK.
2009-2012	Honorary Professor, Univ. of East Anglia, Norwich, UK.

### **Awards**

2021	<a href="#">RKS Wood prize</a> .
2019	American Phytopathological Society ( <a href="#">elected fellow</a> ).
2018	The Royal Society ( <a href="#">elected fellow</a> ).
2018	<a href="#">Linnean Medal</a> .
2018	Chinese Academy of Sciences President's International Fellowship Initiative (PIFI).
2016	<a href="#">Kuwait Prize</a> (Applied Science: Food and Agriculture).
2014-2016	<a href="#">Thomson Reuters Highly Cited Researcher</a> .
2014	EMBO ( <a href="#">elected member</a> ).
2013	American Association for the Advancement of Science ( <a href="#">elected fellow</a> ).
2013	<a href="#">American Phytopathological Society Noel Keen Award</a> .
2012	Académie d'Agriculture de France (elected member "correspondant étranger").
2012	Academia Europaea ( <a href="#">elected member</a> ).
2010	Daiwa Adrian Prize ( <a href="#">scientific collaboration between Japanese and British research teams</a> ).
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	<a href="#">American Phytopathological Society Syngenta Award</a> .

### **Teaching Activities (selected)**

2021-present	<a href="#">Science—a user guide</a> (Medium blog)
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2011-present Workshop "[Don't Perish: Writing and publishing a scientific paper](#)"  
 2017 Training School of COST Action SUSTAIN "[Pathogenomics](#)"  
 2015, 2017 TSL Summer School "[Plant-Microbe Interactions](#)"

### Professional Activities (selected)

2021-present INRAe Scientific Advisory Board.  
 2018-present CABANA (BBSRC-GCRF) External Advisory Committee  
 2018-present [GREEN-IT](#) Scientific Advisory Board  
 2017-present Institute of Plant and Microbial Biology (IPMB), Academia Sinica, Taiwan, Science Advisory Board.  
 2017-present Genome Biology, [Editorial Board](#).  
 2017-2021 BMC Biology, [Editorial Board](#).  
 2015-present PLOS Biology, [Editorial Board](#).  
 2014-2019 Member, [Gregor Mendel Institute of Molecular Plant Biology Science Advisory Board](#).  
 2012-2017 Management Board, [COST Action SUSTAIN "Pathogen-informed crop improvement"](#).  
 2012-present Experimental Plant Science Graduate School Advisory Board (Netherlands).  
 2012-2019 Advisory Board, Center for Applied Plant Science, Ohio State University.  
 2011-2019 INRA Département Santé des Plantes et Environnement Advisory Board (France).  
 2012-2014 President, International Society for Molecular Plant-Microbe Interactions (IS-MPMI).  
 2010-present Member, Max Planck Institute for Terrestrial Microbiology Science Advisory Board.  
 2009-present Member, [Two Blades Foundation Science Advisory Board](#).  
 2009 Think Tank "Exploiting Puccinia graminis f. sp. tritici genome information to control wheat stem rust", San Diego, CA.  
 2008-09 Co-editor, Oomycete Molecular Genetics and Genomics, John Wiley & Sons.  
 2008 Co-editor, Current Opinion of Plant Biology.  
 2008 Review of Deutsche Forschungsgemeinschaft (DFG)-Research Unit "Mechanisms of compatibility: Reprogramming of plant metabolism by fungal effector molecules".  
 2008-2021 Member, BASF Science Panel.

### Membership of Scientific Societies

I am member of major plant pathology Societies (IS-MPMI, APS, BSPP, ASBMB). I served on the Board of International Society of Molecular Plant-Microbe Interactions for >10 years, I was elected President for 2012-14 term.

### Organization of International conferences (selected)

2018 Advisory Committee Chair, International Congress of Plant Pathology (ICPP18) in Boston, MA.  
 2014 Co-organiser, Oomycete Molecular Genetics Network Annual Meeting, Norwich, UK.  
 2013 Co-organiser, Keystone Symposium, Plant Immunity: Pathways and Translations, Big Sky, MT.  
 2012 Co-organiser, 30th New Phytol Symp "Immunomodulation by plant associated organisms", CA.  
 2011 Co-organiser, Plant Pathogenomics Conference, Shenzhen, China.  
 2009 Co-organiser, 22nd New Phytologist Symposium "Effectors in Plant Microbe Interactions", Paris.  
 2008 Workshop chair, Keystone Symposium, Plant Innate Immunity, Keystone, Colorado.

### Major collaborations

I maintain an extensive worldwide network of interdisciplinary collaborators, including Nick Talbot and Matt Moscou (UK), Hernan Burbano and Detlef Weigel (Germany), Vivianne Vleeshouwers and Jack Vossen (NL) and Tofazzal Islam (Bangladesh). I have had highly productive collaborations with [Mark Banfield](#) (John Innes Centre, UK) on structural biology, [Ryohei Terauchi](#) (Kyoto University, Japan) on rice genomics and rice blast, and [Renier van der Hoorn](#) (Oxford University, UK) on plant proteases. The collaboration with Ryohei Terauchi on using genomics to

study plant-pathogen interactions was recognized by the [Daiwa Adrian Prize](#) and a JSPS Fellowship to past lab-member [Kentaro Yoshida](#) who is now a Group Leader at Kobe University.

## Major contributions to early careers of excellent researchers

Since I moved to The Sainsbury Laboratory in 2007, I supervised 18 students and 25 postdocs. Prior to that during my tenure at Ohio State University, I supervised 22 students and 12 postdocs. I am dedicated to helping my students and postdocs fulfil their potential to establish independent careers. The great majority (>90%) of my laboratory's alumni have gone on to successful careers of their own. These include: Edgar Huitema (James Hutton Institute, Scotland), Elodie Gaulin (Paul Sabatier University, Toulouse, France), Jorunn Bos (James Hutton Institute, Scotland), Miaoying Tian (University of Hawaii, USA), Nicolas Champouret (JR Simplot Co., USA), Lina Quesada (North Carolina State University, USA), Thirumala Devi Kanneganti (St. Jude Children's Research Hospital, USA), Carolyn Young (The Samuel Roberts Noble Foundation, USA), Sang-Keun Oh (Chungnam National University, Korea), Liliana Cano (University of Florida, USA), Ricardo Oliva (International Rice Research Institute, Philippines), Carla Garzon (Oklahoma State University, USA), Tolga Bozkurt (Imperial College, UK), Maria Eugenia Segretin (CONICET, Argentina), Sebastian Schornack (Sainsbury Laboratory at Cambridge University), Sylvain Raffaele (INRA Toulouse), Kentaro Yoshida (Kobe University, Japan), Diane Saunders (Earlham Institute/John Innes Centre, UK), Vladimir Nekrasov (Rothamsted Research, UK), Suomeng Dong (Nanjing University, China), Yasin Dagdas (Gregor Mendel Institute, Austria), Chih-hang Wu (Academia Sinica, Taiwan). **Five previous lab members who currently hold independent research positions received ERC Starting Grants:** Jorunn Bos (James Hutton Institute, Scotland, APHIDHOST 2012), Edgar Huitema (James Hutton Institute, Scotland, RETraIN 2012), Sylvain Raffaele (INRA, France, VariWhiM 2013), Sebastian Schornack (TSL Cambridge, UK, ACHILLES-HEEL 2014) and Diane Saunders (John Innes centre, UK, DeMMYR 2016).

## Research Funding (selected)

2022-2024	“ Genome evolution of a pandemic clonal lineage of the wheat blast fungus.” BBSRC, £614,138.
2022-2025	“Engineering CC-HMA-NLR immune receptors for disease resistance in crops.” BBSRC, £373,718.
2021-2026	“Corn NLR-X genes for fungal resistance.” Limagrain, £1,321,235.
2021-2023	“Mechanisms of pathogen suppression of NLR immunity.” BBSRC, £380,172.
2020-2025	“NLR networks of leafy vegetables.” Rijk-Zwaan, £1,068,358.
2019-2024	“Synthetic R genes for fungal resistance.” BASF Plant Science, €1,126,165.
2018-2023	“Retooling plant immunity for resistance to blast fungi.” ERC Advanced Investigator. €2,500,000.
2017-2019	“Novel blast resistant wheat varieties for Bangladesh by genome editing.” BBSRC. £223,000.
2015-2018	“An effector-detector domain in a rice immune receptor.” BBSRC. £247,000.
2014-2016	“Genes for oomycete resistance.” Enza Zaden. £690,000.
2013-2018	“Maximising the potential for resistance to the wheat yellow rust pathogen.” BBSRC. £358,000.
2012-2017	“Next generation disease resistance breeding in plants.” ERC Advanced Investigator. €2,500,000.

## Invited presentations (selected from >250)

2018 Keynote presentation at the International Congress of Plant Pathology (ICPP18), Boston, MA  
2018 Chinese Academy of Sciences President's International Fellowship Initiative (PIFI), Beijing and Shanghai  
2018 EMBO Keynote Lecture at 14th European Conference on Fungal Genetics, Haifa, Israel  
2018 Building resilience against crop diseases, Rockefeller Conference Center, Bellagio, Italy  
2017 53rd Meeting of the Norwegian Biochemical Society, Storefjell, Norway  
2016 TEDx Talk at Sexey's School, Bruton, UK  
2016 University of Georgia Athens Plant Center Retreat  
2016 Korean Society of Plant Pathology Meeting, Pyeongchang, South Korea  
2016 7th International Rice Blast Conference, Manila, Philippines  
2016 Cellular & Molecular Fungal Biology Gordon Research Conference, Plymouth, New Hampshire  
2016 William Dewar Cooper Lecture, University of British Columbia

2016 Department of Biology, Stanford University  
2015 Max Planck Institute for Evolutionary Biology, Plön, Germany.  
2015 10th DOE Joint Genome Institute Genomics of Energy & Environment Meeting, Walnut Creek, CA.  
2015 Donald Danforth Plant Science Center, St. Louis, MO.  
2015 Molecular Microbiology, Washington University Medical School, St Louis, MO.  
2014 Tübingen International PhD Programme (TIPP) Retreat.  
2014 International Congress of Molecular Plant-Microbe Interactions, Rhodes Greece.  
2013 Keynote presentation at the International Congress of Plant Pathology, Beijing, China..  
2012 Keynote presentation at 50th Anniversary Meeting of Korean Society of Plant Pathology, Seoul, Korea.  
2012 Keynote presentation at 5th Croatian Congress of Microbiology, Primošten, Croatia.  
2012 CSHL Quantitative Biology Symposium “The Biology of Plants”  
2012 Whetzel Westcott Dimock Lecture, Cornell University, Ithaca, NY.

[Link to full publication list](#)

## Statement of competing interests

I consult for the biotech and plant breeding industries, e.g. BASF, Limagrain, Rijk Zwaan. I'm a member of the Two Blades Foundation Science Advisory Board.

I have served on the Editorial Boards of BMC Biology, Genome Biology, and PLOS Biology. I'm an affiliate of bioRxiv.

I hold strong views on scientific publishing, and I frequently blog on the topic. My position is that [funding bodies and public institutions waste an outrageous amount of money on Article Processing Charges and journal subscriptions](#).

I stand by the principle that excellence in science is determined by the test of time rather than where the science gets published. Therefore, I was naturally an early supporter of the San Francisco Declaration on Research Assessment (DORA). In my position as Head of TSL and President of the IS-MPMI, I lobbied these institutions to sign DORA.

I hold little sympathy for commercial science publishers. I started the Twitter hashtags [#Elsevil](#) and [#NatureRipoffs](#).

The current publishing ethos of my lab is [described here](#).

My other professional activities and research funding are listed on my CV, which is [available online](#).