**QIN HE - Curriculum Vitae**

**Date of Birth:** Oct 24.1986

**Place of Birth:** HUBEI

**Nationality:** Chinese

**Passport Number:** E14477007

**Work Address:** Division of Plant Sciences, University of Dundee, School of Life Sciences, at James Hutton Institute, Invergowrie, Dundee, DD2 5DA, UK.

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**Educational and Qualification**

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| Sep.2005-Jul.2009 | **Bachelor Degree**, Diploma in Horticulture, College of Horticulture and Forestry, Huazhong Agricultural University |
| Sep.2009-Jul.2012 | **Master Degree**, Diploma in Olericulture, College of Horticulture and Forestry, Huazhong Agricultural University |
| Sep.2012-Dec. 2015 | **PhD Degree**, thesis title ‘Regulation of potato immunity against Phytophthora infestans by Ubiquitin-proteasome E3 ligases’, Huazhong Agricultural University |
| May 2015-Oct 2015  Aug 2014-Feb 2015  Nov 2013-Apr 2014 | **Student visitor** at the Division of Plant Sciences, University of Dundee, James Hutton Institute (Non-graduating post-graduate program student in the University Of Dundee, UK) |

**Employment**

**May 2016-present:** Post-doctoral Research Associate at Division of Plant Sciences, University of Dundee, School of Life Sciences, at James Hutton Institute, Invergowrie, Dundee, DD2 5DA, UK.

**Current Research Project**

I am a Post-doctoral Associate Researcher in the University of Dundee, funded by the BBSRC and supported by industrial Simplot. I am interested in investigating the molecular basis by which RXLR effectors from the potato blight pathogen *Phytophthora infestans* are targeting and utilising ‘susceptibility factors’ in host cells. Crop diseases represent a serious global threat to food security. Disease resistance that is introduced into major crops such as potato is often rapidly overcome, resulting in a reliance on heavy chemical treatments to prevent disease. This project will not only explore how *P. infestans* effectors are targeting and using susceptibility factors to promote disease, but will exploit this information to provide novel approaches to combat disease.

**Presentations at the International Conferences**

**16th Nov.2016,** Cell and Molecular Sciences seminar, James Hutton Institute UK, presentation title: Catch me if you can: the target of the effector’s target is the real target

**16th Oct.2016,** Potato workshop in China, Huazhong Agricultural University, and presentation title: Ubiquitination-mediated protein degradation: an emerging theme in Plant-*Phytophthora infestans* interactions

**6th Sep. 2016,** Dundee Effector Consortium retreat, Birnam Art and Conference Centre, and presentation title: Ubiquitination-mediated protein degradation: an emerging theme in Plant-*Phytophthora infestans* interactions

**25th Mar. 2014,** British Society of Plant pathology, University of Reading UK, presentation title: The U-box/ARM E3 ligase PUB17 regulates immune responses to *Phytophthora infestans*

**7th Jan. 2015**, Cell and Molecular Sciences seminar, James Hutton Institute UK, presentation title: Understanding the role of ubiquitination in regulating plant immunity

**15th Jun. 2015**, Dundee Effector Consortium retreat, University of Dundee UK, presentation title: A *Phytophthora infestans* effector targets an E3 Ubiquitin ligase that is a positive regulator of the flg22-induced immune response

**30th Sep.2015,** Cell and Molecular Sciences seminar, James Hutton Institute UK, presentation title: Understanding the role of ubiquitination in regulating plant immunity

**PUBLICATIONS (2008-2017)**

Orosa B☯, **He Q**☯, Mesmar J, Gilroy EM, McLellan H, Yang C, Craig A, Bailey M, Zhang C, Moore JD, Boevink PC, Tian Z, Birch PR, Sadanandom A. BTB-BACK Domain Protein POB1 Suppresses Immune Cell Death by Targeting Ubiquitin E3 ligase PUB17 for Degradation ***PLoS Genet***, **2017**, 13(1):e1006540

Yang L, McLellan H, Naqvi S, **He Q**, Boevink PC, Armstrong M, Giuliani LM, Zhang W, Tian Z, Zhan J, Gilroy EM, Birch PR. Potato NPH3/RPT2-Like Protein StNRL1, Targeted by a *Phytophthora infestans* RXLR Effector, Is a Susceptibility Factor. ***Plant Physiol,* 2016**, 171(1): 645-57

Boevink PC, McLellan H, Gilroy EM, Naqvi S, **He Q**, Yang L, Wang X, Turnbull D, Armstrong MR, Tian Z, Birch PR. Oomycetes Seek Help from the Plant: *Phytophthora infestans* Effectors Target Host Susceptibility Factors**. *Mol Plant*, 2016**, 9(5): 636-8

Boevink P, Wang X, McLellan H, **He Q**, Naqvi S, Armstrong M, Wei Z, Hein I, Gilroy E, Tian Z, **Birch PRJ** (2015). A *Phytophthora infestans* RXLR effector targets plant PP1c isoforms that promote late blight disease. ***Nature Communications,* 2015*,*** 7: 10311. doi: 10.1038/ncomms10311

**He Q**,McLeIlan H, Boevink PC, Sadanandom A, Xie CH, Birch PRJ, Tian ZD**.** U-BOX E3 ubiquitin ligase PUB17 acts in the nucleus to promote specific immune pathways triggered by *Phytophthora infestans*. ***J Exp Bot*, 2015**, 66(11): 3189-3199

Tian ZD, **He Q**, Wang HX, Liu Y, Zhang Y, Shao F and Xie CH. The Potato ERF Transcription Factor StERF3 Negatively Regulates Resistance to *Phytophthora infestans* and Salt Tolerance in Potato. ***Plant Cell Physiol*, 2015**, 56(5):992-1005

Xu Q, **He Q,** Li S, Tian ZD. Molecular characterization of StNAC2 in potato and its overexpression confers drought and salt tolerance. ***Acta Physiol Plant*, 2014,** 36 (7): 1841-1851

Wang H, Sun C, Jiang R, **He Q**, Yang Y, Tian Z, Xie C. The dihydrolipoyl acyltransferase gene BCE2 participates in basal resistance against *Phytophthora infestans* in potato and *Nicotiana benthamiana*. ***J Plant Physiol*, 2014**, 171(11): 907-914

Ou YB，Yao CG，Liu H，Ren JL，**He Q**，Song BT．Fried slices color Analysis and quality evaluation of Potato high generation system. ***Chinese potato***, **2008**, 22(5):274-277