



### Curriculum vitae

Name: Muhammad Asyraf Md Hatta  
DOB and nationality: 5 November 1986, Malaysian  
Address: Department of Agriculture Technology, Faculty of Agriculture, Universiti Putra Malaysia, 43400, UPM Serdang, Selangor, Malaysia  
Email: m.asyraf@upm.edu.my or hatta\_asyraf@yahoo.com

### Career and education:

2010-present	Tutor Universiti Putra Malaysia
2013-2017	University of East Anglia (John Innes Centre) PhD in Biological Sciences <b>Supervisor:</b> Brande B. H. Wulff <b>Thesis title:</b> Host range expansion of wheat stem rust resistance genes into barley
2011-2013	Wageningen University and Research Centre MSc in Plant Biotechnology <b>Supervisor:</b> Jack H. Vossen <b>Thesis title:</b> Functional validation of late blight resistance genes and their complementarity in stacks
2006-2010	International Islamic University of Malaysia BSc in Biotechnology CGPA: 3.62
2004-2006	Matriculation Centre International Islamic University of Malaysia Biological Sciences CGPA: 3.70
1999-2003	SMK Raja Chulan Sijil Pelajaran Malaysia 6A1 1A2 2B3

### Publications:

1. Amy Watson, Sreya Ghosh, Matthew Williams, William S Cuddy, James Simmonds, Maria-Dolores Rey, **M. Asyraf Md Hatta**, Alison Hinchliffe, Andrew Steed, Daniel Reynolds, Nikolai Adamski, Andy Breakspear, Andrey Korolev, Tracey Rayner, Laura E Dixon, Adnan Riaz, William Martin, Merrill Ryan, David Edwards, Jacqueline Batley, Harsh Raman, Christian Rogers, Claire Domoney, Graham Moore, Wendy Harwood, Paul

Nicholson, Mark J Dieters, Ian H DeLacy, Ji Zhou, Cristobal Uauy, Scott A Boden, Robert F Park, Brande B H Wulff, Lee T Hickey.  
Speed breeding: a powerful tool to accelerate crop research and breeding  
*Nature Plants* 2017 (accepted).

2. Guotai Yu, **Asyraf Hatta**, Sambasivam K Periyannan, Evans S Lagudah, and Brande B H Wulff.  
Isolation of wheat genomic DNA for gene mapping and cloning  
*Methods Molecular Biology* 2016.
3. Burkhard Steuernagel, Sambasivam K Periyannan, Inmaculada Hernández-Pinzón, Kamil Witek, Matthew N Rouse, Guotai Yu, **Asyraf Hatta**, Mick Ayliffe, Harbans Bariana, Jonathan D G Jones, Evans S Lagudah, and Brande B H Wulff.  
Rapid cloning of disease-resistance genes in plants using mutagenesis and sequence capture  
*Nature Biotechnology* 2016 Apr 25;34 652-655.

#### **Oral presentations:**

- 2017 Crop Genetics Departmental Seminar, John Innes Centre  
2015 RenSeq workshop, John Innes Centre  
2015 Crop Genetics Departmental Seminar, John Innes Centre

#### **Poster presentations:**

- 2016 Monogram Network Meeting, Cambridge  
2016 Annual Science Meeting, Norwich Bioscience Institute  
2015 Norwich-Cambridge Student Symposium for Plant and Microbial Sciences, John Innes Centre  
2015 Annual Science Meeting, Norwich Bioscience Institute  
2014 Annual Science Meeting, Norwich Bioscience Institute

#### **Scholarships:**

- 2013 PhD Scholarship from Ministry of Higher Education of Malaysia  
2011 MSc Scholarship from Universiti Putra Malaysia  
2006 BSc Scholarship from Public Service Department of Malaysia

#### **Skills:**

##### Laboratory skills

- Golden Gate cloning
- Barley protoplast isolation and transfection
- Barley transformation
- Wheat EMS mutagenesis
- Cross pollination of wheat
- CRISPR/Cas9
- Library preparation and targeted enrichment of NLR genes
- Bacterial transformation
- PCR
- DNA extraction

- Light microscopy

#### Technical skills

- Microsoft Office, Power Point, Excel, Outlook
- Adobe Photoshop
- Adobe Illustrator
- Vector NTI
- Galaxy
- EndNote
- SPSS

#### References

1. Brande B. H. Wulff,  
Project Leader,  
Crop Genetics Department,  
John Innes Centre,  
Colney Lane, Norwich,  
NR4 7UH, United Kingdom  
Brande.Wulff@jic.ac.uk
2. Dr Norsida Binti Man,  
Head of Department,  
Department of Agriculture Technology,  
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