

Private sector approaches to breeders training and development

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SFSA

Consultative workshop on Demand-Led Plant Variety Design

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Private sector approaches

Internal

- Staff training and development with tailored courses and curriculum
- Internships working with expert breeders

External

- Fellowship programmes (PhD, Msc)
- Sponsorship breeding symposia

Private sector comparison

External

Plant breeding

Scholarships

- Monsanto (Msc/PhD)
- Bayer crop science

Sponsoring plant breeding symposia

- Dupont/Pioneer
- Bayer crop science

Internal

Internships

- KWS (graduates)
- Dow (Bsc/Msc)

Plant breeding academy

- Syngenta
- Face-to-face courses
- On-line training

Syngenta plant breeding academy

Objective

To enhance Syngenta's ability to recruit, develop and retain industry leading talent in breeding and related disciplines

Dr Heather Merk – Head of Syngenta Academy

- Coaching and tailored internal courses
- Setting breeding goals and priorities
- Demand-led approaches
- Breeding strategies
- Technical methods
- Multi-functional team working
- Project management

Syngenta academy observations -1

- Face-to-face training and online each have a role
- Sharing experiences and best practices between breeders working on different crops and countries is key
- Real case studies led by breeders and commercial managers have most impact
- Data gathering from customers to direct breeding programmes is vital – continuous exchanges required – iterative process not just market research at start of a programme

Syngenta training observations - 2

- Data driven world – finding strategies for breeders to take advantage of data to make decisions vs. relying on «breeders-eye»
- Need to create environment to encourage and enable breeders to:
 - be open to change
 - try new approaches
 - collaborate across disciplines and work as part of a team
 -to step out and seek information from areas that are not scientific disciplines

Public training courses compendium

	A	B	C	D	E	F
1	Topic	Title	Link	Format	Provider	Estimated Cost (USD)
42	Advanced Experimental Design	Correlation, Regression, Covariance, and Biplot Analysis in Agronomic Research	https://scsdistance.tamu.edu/contin	Online Course	Texas A&M	227
43	Advanced Experimental Design	Lattice Designs	http://www.extension.org/pages/68	Webinar	Plant Breeding and Genomics eXtension Community of Practice	0
44	Advanced Experimental Design	Introduction to the Augmented Experimental Design Webinar	http://www.extension.org/pages/60	Webinar	Plant Breeding and Genomics eXtension Community of Practice	0
45	Advanced Experimental Design	Type-2 Modified Augmented Design	https://connect.unl.edu/p5rpwq7pm	Webinar	University of Nebraska	0
46	Advanced Experimental Design	Augmented Lattice Square Design for Early Generation Evaluation of Spring Barley	https://connect.unl.edu/p7tg6m2p4	Webinar	University of Nebraska	0

Contributed by Dr Heather Merk, Head Syngenta Breeding academy

Demand-led training modules – ideas

- Value proposition for change
- Visioning and foresight for setting targets
- Customers and information investigation
- Variety design and setting success standards
- New variety delivery, development timelines and decision-making

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