

The Biosciences Knowledge Transfer Network

Serving the Agriculture, Food and Industrial Bioscience Sectors

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Assistant Director and Plant Sector Lead

Biosciences KTN

The Linnean Society of London, February 9th 2011

Biosciences KTN

- Working with four identified sectors:



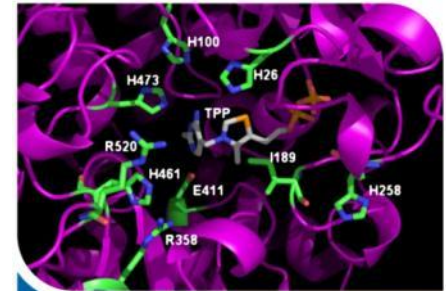
Plant Breeding
and Crop Protection



Food Technology
and Manufacture



Animal Breeding
and Animal Health



Industrial Bioscience

Biosciences KTN

- Working with four identified sectors:



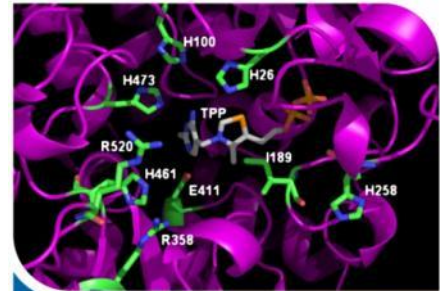
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Industrial Bioscience



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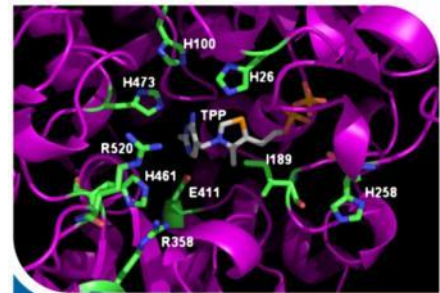
Plant Breeding
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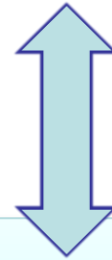
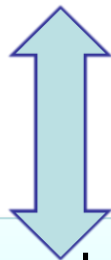
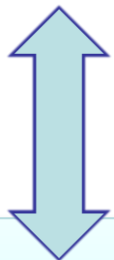
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Industrial Bioscience



Links to other KTN

Environmental Sustainability, Chemistry Innovation, HealthTech and Medicines,
Energy Generation and Supply, Sensors and Instrumentation, Industrial Mathematics, ...

Integration of the UK's bioscience networks across
academia and industry

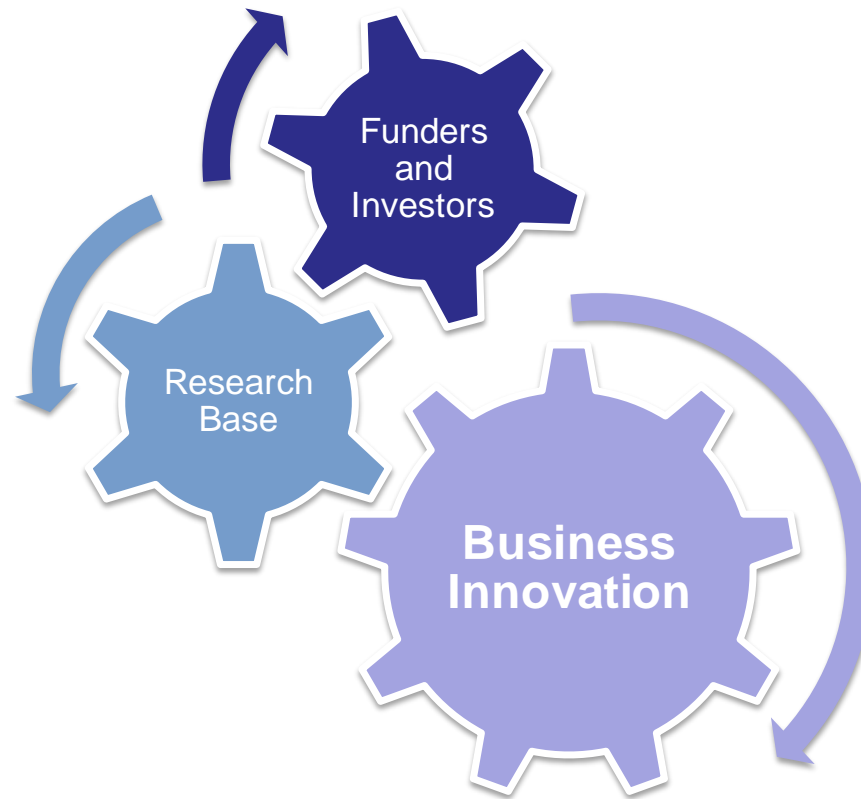


Added-value gained through strategic research
and multidisciplinary approaches



Development of new bioproducts and
bioprocesses

Role of the Biosciences KTN



- catalysing collaborations between industry and the research-base
- driving new commercial opportunities through bioscience innovation

New Paradigms for Crop and Soil Management

Session 1 – New Paradigms for Soil Management - Chair: Paul Hallett, SCRI

| | | |
|-------|---|---|
| 10.00 | The shift from chemical to biologically based crop production | David Manning, University of Newcastle |
| 10.25 | Tapping and preserving nutrients in soil | Andy Whitmore, Rothamsted Research |
| 10.50 | Rhizosphere modelling | Tiina Roose, University of Southampton |
| 11.15 | Coffee | |

Session 2 – Identifying the challenges to uptake - Chair: Chris Tapsell, KWS-UK Ltd

| | | |
|-------|--|------------------------|
| 11.30 | Training and Skills – National Capabilities and Requirements for CPD | Richard Godwin |
| 11.55 | Working with farmers to improve soil management | Brian Chambers, ADAS |
| 12.20 | 21 st century soil management: what are the challenges for soil scientists? | Sylvain Pellerin, INRA |
| 12.45 | Lunch | |

New Paradigms for Crop and Soil Management

Session 3 – Understanding the commercial drivers and supply chains - Chair: Robert Edwards, FERA

| | | |
|-------|--|---|
| 13.45 | Drivers affecting soil management and agronomy | Murray Hart, Defra |
| 14.10 | Assessment of utilities and added value of by-product streams as organic fertilisers | Nicola Campbell, NFU |
| 14.35 | New perspectives for the UK cider industry: where next for orchards and the cider supply chain | Richard Heathcote, Bulmers/Heineken UK |
| 15.00 | Controlled Traffic Farming – a blank canvas for crop production | Dave Tinker, Controlled Traffic Europe |
| 15.25 | Coffee | |

Session 4 – Opportunities for Innovation – Chair: Timothy Hall, DG Research & Innovation, EC

| | | |
|-------|---|--------------------------------------|
| 15.40 | Improving seed treatment to enhance crop production | Ray Elliott, Syngenta |
| 16.05 | Targeting soil pathogens – opportunities and challenges for plant biotechnology | Anne Osbourn, JIC |
| 16.30 | Doing more with less: reconciling food security with water availability | Ian Dodd, University of Lancaster |
| 16.55 | Coffee | |
| 17.15 | Conclusions and next steps | Dianna Bowles, CNAP |
| 17.30 | Close | |

Sustainable Agri-Food Innovation Platform

- Led by the Technology Strategy Board with Defra, BBSRC and AHDB co-funding: **up to £90M available over 5 years**
- Four (overlapping) themes covered:
 - Crop productivity:
 - Crop protection
 - Crop nutrition and management
 - Sustainable livestock production
 - Waste reduction and management
 - GHG reduction technologies and methods

