

Livestock Genomic Resources in a Changing World Conference

June 17th-19th

Cardiff University

School of Biosciences





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Dr Michael Mautner isn't the only one looking at space farming as a possible solution to getting food into space. Nasa currently has plans for a 'space farm' and is already experimenting with growing lettuce on the ISS. Pictured is astronaut Steve Swanson harvesting a crop of lettuce in space



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ENVIRONMENT & SUSTAINABILITY + GLOBAL HEALTH & DEVELOPMENT



HENRY I. MILLER

Henry I. Miller, a physician and molecular biologist, is Fellow in Scientific Philosophy and Public Policy at Stanford University's Hoover Institution. He was the founding director of the Office of Biotechnology in the US Food and Drug Administration and is the author of *The Frankenfood...* [READ MORE](#)



RICHARD CORNETT

Richard Cornett is Communications Director for the Western Plant Health Association, a California-based nonprofit agricultural trade group. [READ MORE](#)

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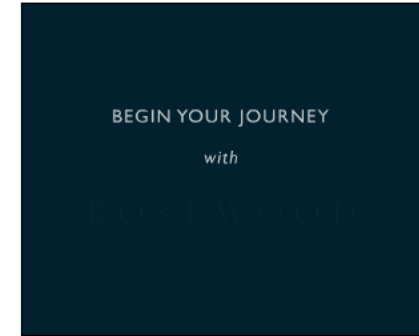
English



The Unsustainability of Organic Farming

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STANFORD – “Sustainable” has become one of the buzzwords of the twenty-first century. Increasing numbers of universities offer courses or even programs in “sustainability,” and many large companies boast substantial departments devoted to the subject. In April, many of the iconic multinational companies in the agriculture/food sector were represented at a three-day “Sustainable Product Expo,” convened by Wal-Mart – the largest retailer in the United States – at its Arkansas headquarters.



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Rethinking Democracy

DANI RODRIK examines the root causes of political malaise in advanced and developing countries.



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The Brain Regain

1) Horizon-scanning for the twenty most important problems we need to overcome for effective livestock genomic resource conservation during the next decade.

1) Redefining the role of genome data in livestock conservation and prioritisation

1) Identifying improved and more integrative analysis methods for livestock genomic, environmental and socio-economic data

2) Censusing genomic resources for minority livestock species and breeds – where are we and what do we need?



ENVIRONMENTAL LEGISLATION

What are the forthcoming legislative issues of interest to ecologists and conservationists in 2014?

William J. Sutherland, Andy Clements, Ellie Crane, Cheryl Pilbeam, John Martin, Kathryn A. Monk, Katharina Rogalla von Bieberstein, and Des B.A. Thompson.

This is the fourth review of environmental legislation likely to occur on a global scale, in the European Union, and in the United Kingdom and its constituent countries (Sutherland *et al* 2011, 2012, 2013). All previous scans are available on the British Ecological Society website and we assume readers have access to these; we do not repeat previously identified issues. It is aimed at researchers to make them more

GLOBAL

INTERGOVERNMENTAL PLATFORM ON BIODIVERSITY AND ECOSYSTEM SERVICES

Having established the Intergovernmental Platform on Biodiversity and Ecosystem Services (the Platform) in April 2012, member governments, at the second plenary meeting of the Platform in December

data management, and working with indigenous and local knowledge systems. This first work programme is designed to put the Platform on the right path, firmly establishing its working modalities, deliverables, credibility, relevance and legitimacy. It is intended to pave the way for the incremental strengthening of the science-policy interface for biodiversity and ecosystem services across scales, sectors and knowledge systems.

A horizon scan of global conservation issues for 2012

William J. Sutherland¹, Ros Aveling², Leon Bennun³, Eleanor Chapman⁴, Mick Clout⁵, Isabelle M. Côté⁶, Michael H. Depledge⁷, Lynn V. Dicks¹, Andrew P. Dobson⁸, Liz Fellman⁹, Erica Fleishman¹⁰, David W. Gibbons¹¹, Brandon Keim¹², Fiona Lickorish¹³, David B. Lindenmayer¹⁴, Kathryn A. Monk¹⁵, Kenneth Norris¹⁶, Lloyd S. Peck¹⁷, Stephanie V. Prior¹, Jörn P.W. Scharlemann¹⁸, Mark Spalding¹⁹ and Andrew R. Watkinson²⁰

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The top 100 questions of importance to the future of global agriculture

Jules Pretty^{1*}, William J. Sutherland², Jacqueline Ashby³, Jill Auburn⁴, David Baulcombe⁵, Michael Bell⁶, Jeffrey Bentley^{7,8}, Sam Bickersteth⁹, Katrina Brown¹⁰, Jacob Burke¹¹, Hugh Campbell¹², Kevin Chen¹³, Eve Crowley¹⁴, Ian Crute¹⁵, Dirk Dobbelaere¹⁶, Gareth Edwards-Jones¹⁷, Fernando Funes-Monzote¹⁸, H. Charles J. Godfray¹⁹, Michel Griffon²⁰, Phrek Gypmantisiri²¹, Lawrence Haddad²², Siosia Halavatau²³, Hans Herren²⁴, Mark Holderness²⁵, Anne-Marie Izac²⁶, Monty Jones²⁷, Parviz Koohafkan²⁸, Rattan Lal²⁹, Timothy Lang³⁰, Jeffrey McNeely³¹, Alexander Mueller¹¹, Nicholas Nisbett³², Andrew Noble³³, Prabhu Pingali³⁴, Yvonne Pinto^{35,36}, Rudy Rabbinge³⁷, N. H. Ravindranath³⁸, Agnes Rola³⁹, Niels Roling³⁷, Colin Sage⁴⁰, William Settle¹¹, J. M. Sha⁴¹, Luo Shiming⁴², Tony Simons⁴³, Pete Smith⁴⁴, Kenneth Strzepeck⁴⁵, Harry Swaine⁴⁶, Eugene Terry⁴⁷, Thomas P. Tomich⁴⁸, Camilla Toulmin⁴⁹, Eduardo Trigo⁵⁰, Stephen Twomlow⁵¹, Jan Kees Vis⁵², Jeremy Wilson⁵³ and Sarah Pilgrim¹

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¹⁰ School of International Development, University of East Anglia, Norwich NR4 7TJ, UK

53. How can middle and small-scale animal production be made suitable for developing countries in terms of environmental impact, economic return and human food supply and what should be the key government policies to ensure that a balance between the two is implemented?
54. What are the priority efficiency targets for livestock production systems (e.g. the appropriate mix of activities in different systems, the optimal numbers and types of animals) that would enable these systems to meet the demand for livestock products in an environmentally sound, economically sustainable and socially responsible way?
55. What are the effective and efficient policies and other interventions to reduce the demand for animal products in societies with high consumption levels and how will they affect global trade in livestock products and the competitiveness of smallholder livestock production systems in poor countries?
56. In addition to livestock production, how can inland and coastal fish farming contribute to a more sustainable mode of animal protein production in developing countries?
57. What are the best means to encourage the economic growth of regional livestock markets, while limiting the effects of global climate change, and what can industrialized countries do to improve the carbon footprint of its livestock sector?
58. What are the environmental impacts of different kinds of livestock-rearing and aquaculture systems?

Livestock questions....

(..in contrast to plant genetics..)

Livestock Genomic Resources in a Changing World Conference

PROGRAM

USE THE POST-IT NOTES IN THE POSTER AND EVENING SESSIONS

JUNE 19TH (THURSDAY)

9:00 Working Groups defined by integration activity (5 key questions per group).

10:30 – 11:00 COFFEE/TEA BREAK

11:00 Plenary Session and discussion on horizon scanning results. Publication tasks.

13:00 – 14:00 LUNCH



Pablo

Mafalda



Red lanyard = organising team

