Back to (the Article of) the Future?





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The Article of the Future

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By IJsbrand Jan Aalbersberg 🛛 Posted on 21 September 2012



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How is research changing?

How are expectations on researchers changing?

What are the implications of technological advancements? How should one publish in light of these changes?

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Impact of Funding needs





Doing research is increasingly demanding and complex





AGENDA

Back to the article-of-thefuture Enriching your article

Publishing research as a cluster 'Article' of the future?

Wrapping up

1583 First known Elzevir publication

1638 Elzevir publishes Galileo's *Two New Sciences*



1791 Elzevir ceases publishing

1880 Elsevier founded in Rotterdam

1931

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Things change



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Submission and peer review

What is consumed

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	Futures 41 (2009) 436445	
5-54.20	Contents lists available at ScienceDirect	FUTURES
ELSEVIER	journal homepage: www.elsevier.com/locate/futures	

Anticipating the future: 'Biotechnology for the poor' as unrealized promise?

Kees Jansen^{a,*}, Aarti Gupta^b

^a Technology and Agrarian Development Group, Wageningen University, P.O. Box 8130, 6700 EW Wageningen, The Netherlands ^b Environmental Policy Group, Wageningen University, P.O. Box 8130, 6700 EW Wageningen, The Netherlands

ARTICLE INFO

ABSTRACT

Article history: Available online 5 February 2009 This article analyses visions of the future articulated by proponents of 'biotechnology for the poor', those who claim that an embrace of transgenic technology in agriculture is critical to alleviating poverty in developing countries. Specifically, we analyse how such 'biotechnology for the poor' proponents represent a future with or without transgenic crops. Such representations include visions of a beckoning (promising) future, where much is to be gained from an embrace of transgenic technology in agriculture, and an onrushing (threatening) future, where much will be lost if the technology is not embraced. The article shows that claims about a beckoning or onrushing future by 'biotechnology for the poor' proponents are based upon unexamined or problematic assumptions about the poor and poverty. As such, poverty becomes merely a moral backdrop against which visions of a future are articulated. Furthermore, 'biotechnology for the poor' writings do not engage in dialogue with alternative voices in articulating their perspectives on the future, losing a key opportunity to democratize debate about this crucial issue. We conclude by considering the policy consequences (in regulatory and institutional terms) of 'biotechnology for the poor' depictions of the future, particularly for the global South where such consequences will be felt.

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1. Introduction

In conflicts over genetic modification of food and feed crops, imageries of the future form a basic discursive arena for contrasting narratives about benefits and threats of modern biotechnology. With the future of one of the key technologies of the modern period at stake, the fate of the poor in developing countries has been introduced into the heart of the debate. The poor appear to be passive subjects drawn into the controversies between the USA and Europe (about Europe's moratorium on the approval of genetically modified organisms), and between the pro- and anti-biotechnology advocacy groups.

In referring to the potential role for transgenic crops to fight hunger and famine in Africa, United States (US) President George Bush, for example, stated that, "For the sake of a continent threatened by famine, 1 urge the European governments to end their opposition to biotechnology. We should encourage the spread of safe, effective biotechnology to win the fight against global hunger" [1]. This call was made in the context of the ongoing confrontation between the US and the European Union (EU) about the reluctance of the EU to open its markets to

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Movie 9



throughput analysis of mouse mutants with embryonic and early postnatal lethality.

3D rendering of an E10.5 embryo within yolk sac imaged

ScienceDirect

Navigation

rticle outline

Highlight

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- 2. Results
- Discussion
- Materials and methods
- Author contributions
- Competing inter
- Funding
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Movie 7 Movie 8



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Developmental Biology



Three-dimensional microCT imaging of mouse development from early post-implantation to early postnatal stages

http://dx.doi.org/10.1016/j.ydbio.2016.09.01

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Highlights

- MicroCT is suitable for 3D imaging of mouse development from early postimplantation to early postnatal development.
- Comparable resolution of E12.5 and E9.5 embryos acquired on microCT to OPT.
- Preserve extra-embryonic connections by imaging within yolk sac and decidua.

Abstract

In this work, we report the use of iodine-contrast microCT to perform high-throughput 3D morphological analysis of mouse embryos and neonates between embryonic day 8.5 to postnatal day 3, with high spatial resolution up to 3 µm/voxel. We show that mouse embryos at early stages can be imaged either within extra embryonic tissues such as the yolk sac or the decidua without physically disturbing the embryos. This method enables a full, undisturbed analysis of embryo turning, allantois development, vitelline vessels remodeling, yolk sac and early placenta development, which provides increased insights into early embryonic lethality in mutant lines. Moreover, these methods are inexpensive, simple to learn and do not require substantial processing time, making them ideal for high throughput analysis of mouse mutants with embryonic and early postnatal lethality.

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E10.5 embryo iodine contrast microCT 🔻





3D rendering of an E10.5 embryo within yolk sac image

Movie 9



3D rendering of an E10.5 embryo within yolk sac imaged

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Wrapping up



In-Article Enrichments

Tip 1

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Interactive Data Visualization



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3D Geometric Shapes and Models Interactive MATLAB Figures Interactive Phylogenetic Trees
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Data Visualization

'The purpose of visualization is insight, not pictures.'

Ben Shneiderman







3D Geometric Shapes and Models

OBJ, PLY, MTL, JPG, PNG

3D Molecular Models and Crystallographic Data

PDB, PS, MOL, MOL2, CIF

3D Neuroimaging

HDR, IMG, NII

3D Radiological Data

DICOM, DICM, CDRZIP, DCM, IMA

Interactive U3D models

U3D, PLY, OBJ, STL, VTK, JPG, TIFF, BMP, MTL











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Environmental Science & Policy Volume 69, March 2017, Pages 124-135



Informing watershed planning and policy in the Truckee River basin through stakeholder engagement, scenario development, and impact evaluation

Kristen Podolak * 🖄 🖾, Erik Lowe ^b, Stacie Wolny ^o, Barry Nickel ^b, Rodd Kelsey *

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Files

3D rendering of an E10.5 embryo within yolk sac imaged by iodine contrast microCT





Virtual Microscope





Instructions for Authors

Enriching your article is simple, just follow the manuscript submission process. In some cases we've built easy-to-use tools to help you bring your research to life. Most data visualization tools rely on data files which you upload with your paper. These are listed below, for others please check out the website.

Article Enrichments	File type
3D for Radiological Data	DICOM, DICM, CDRZIP, DCM, IMA (Make sure to anonymize your data)
Interactive 3D models	U3D, PLY, OBJ, STL, VTK, STL, JPG, TIF, BMP, MTL
3D Viewer for Molecular Models and Crystallographic Data	PDB, PSE, MOL, MOL2, CIF
3D Neuroimaging	HDR, IMG, NII
Interactive Phylogenetic Trees	NEX, NWK, NEW
R	R (packed into a ZIP file with any supporting data files)
Cytoscape Interactive Networks	JSON, CYJS (packed into a single ZIP file)
Reaxys Chemical Compound	MOL
Interactive Map	KML, KMZ
Interactive MATLAB Figure	FIG
Interactive Plot	CSV
Virtual Microscope	JPG, PNG, GIF, TIFF, NDPI, LIF, SCN, ND2, OIF, ETS, VSI or SVS

Tip 2

How you visualize your research (results) can be as personal as your style of writing. If a capability is missing, please tell us! Antibody Data

Chemical Compounds

Lipid Structures Viewer

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Context & Reference



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4 of 14 Compounds in this article

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Outline

Abstract Graphical abstract Keywords InChlKeys 1 Introduction 2 Results and discussion 3 Conclusions 4 Experimental section

Acknowledgements Supplementary data References and notes

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Extras (2) Supplement

D MOL file



construction of the 9-membered dilactone core.

http://dx.doi.org/10.1016/j.tet.2015.10.075

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Ken-ichi Yoshida, Minako Ijiri, Hideo Iio, Yoshinosuke Usuki 🖾 🐣

Tetrahedron

Volume 71, Issue 52, 30 December 2015, Pages 9626-9629

Total synthesis of splenocin B, a potent inhibitor of the pro-

The first total synthesis of splenocin B (1), a new potent anti-inflammatory antimycin-class antibiotic, has been described. The synthesis of 1 has been accomplished in 8 linear steps, starting from commercially available N-Boc-Lthreonine benzyl ester 4 and 3,4-dihydroxypentanoic acid derivative 2. Kita-Trost lactonization via an ethoxyvinyl ester intermediate was utilized for the

inflammatory cytokine from marine-derived Streptomyces sp.

Keywords

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Abstract

Splenocin B; 9-Membered dilactone; Anti-inflammatory; Kita-Trost lactonization; Antimycinclass antibiotics

InChlKeys POEKVQXERPXKAO-NIBHENIISA-N; IMBDECLJLUNDHN-DNGOPSCFSA-N

1 Introduction

Splenocins were isolated from an organic extract of marine-derived Streptomyces strain CNQ431 as potent anti-inflammatory antibiotics in 2009, which displayed low nanomolar activity in the suppression of cytokine production by OVA-stimulated splenocytes.^{1 and 1(a)} Splenocins exhibit inhibitory activities toward not only the production of TH2 cytokines IL-5 and IL-13 but also the production of the dendritic cell-associated cytokins IL-1 and TNF-a, which provide great benefits in the treatment of asthma. The structures of splenocins are similar to those of antimycin A3 (AA)2 and 3 and UK-2A, another antibiotic in the antimycin class, which was first isolated in 1996 from a soil sample collected at our campus.⁴ These consist of 9-membered dilactone rings linked via an amide bond to an aromatic acid molety (Fig. 1): splenocins and AAs have 3-

Information:

- Structure drawing
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- ٠
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Antibodies



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Outline
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Highlights

Abstract

Keywords

Introduction Materials and methods

- Results
- Discussion
- Abbreviations

Conflict of interest

Acknowledgments

References

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Figures (9)



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Extras (3)

Supplementary Fig. 1 Supplementary Fig. 2

Antibody data

was capable of reducing the neurodegeneration and htt aggregate formation that take place in BACHD brain. Electron microscopy analyses showed that there was a decrease in the number of vesicles at the pre-synaptic active zone of BACHD mice and that CDPPB chronic treatment normalized this deficit. Finally, our behavioral tests demonstrated that CDPPB treatment partially improved motor coordination and normalized memory deficit in BACHD mice. Thus, our results indicate that CDPPB chronic treatment has the potential to prevent the neuronal loss and ameliorate the motor and cognitive symptoms observed in a HD mouse model.

Materials and methods

Materials

Neurobasal medium, N2 and B27 supplements, GlutaMAX (50.0 mg/ml penicillin and 50.0 mg/ml streptomycin), Live/Dead viability assay, TRIzol, Nuclease-Free Water, and Power SYBR® Green PCR Master Mix were purchased from Life Technologies (Foster City, CA, USA), Mouse anti-Huntingtin EM48 (Cat# MAB5374, RRID: AB_177645) and mouse anti-NeuN (Cat# MAB377, RRID: AB_2298772) monoclonal antibodies were purchased from Millipore (Billerica, MA, USA), 3-Cvano-N-(1,3-diphenvl-1H-pyrazol-5-yl)benzamide (CDPPB) was purchased from Tocris Cookson Inc. (Ellisville, MO, USA). Horseradish peroxidase-conjugated anti-rabbit IgG secondary antibody (Cat# 170-6515, http://www.bio-rad.com/pt-br/sku/170-6515-goat-anti-rabbit-igg-h-I-hrp-conjugate) was from BioRad (Hercules, CA, USA). ECL Western blotting detection reagents were from GE Healthcare (Buckinghamshire, UK). Anti-phospho AKT (Cat# DB 127, http://www.dbbiotech.com/products/antibodies/wb/anti-akt1-(pser-473).html), anti-phospho ERK1/2 (Cat# DB 013.

http://www.dbbiotech.com/products/antibodies/wb/anti-phospho-erk-1,2.html), anti-AKT (Cat# DB 126, http://www.dbbiotech.com/products/antibodies/wb/antiakt1.html) and anti-ERK1/2 (Cat# DB 012,

http://www.dbbiotech.com/products/antibodies/wb/anti-erk-1,2.html) rabbit monospecific clonal antibodies were from DB Biotech (Kosice, Slovakia). Vectastain Elite ABC Kit (Mouse IgG) and Vector SG Peroxidase Substrate Kit were purchased from Vector Laboratories (Burlingame, CA, USA), All other

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2 of 15 antibodie	is in this article
CD11b antibo	dy [M1/70]
Antibody ID	AB_2298772
Antibody Target	NeuN clone A60
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Article outline

Highlights

- Abstract
- Keywords
- 1. Introduction
- 2. Methods
- 3. Results
- 4. Discussion
- Acknowledgments
- Conflict of interest
- Author contributions
- Appendix A. Supplementary data
- References

Figures and tables











Molecular Metabolism Volume 5, Issue 2, February 2016, Pages 67-78



Recommended articles

Cloning, Structure, Cellular Localization,... 1994, Developmental Biology more

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Original article

Ataxin-10 is part of a cachexokine cocktail triggering cardiac metabolic dysfunction in cancer cachexia

Michaela Schäfer^{1, 2, 4, 12}, Christian U. Oeing^{2, 4, 14}, Maria Rohm^{1, 2, 12}, Ezgi Baysal-Temel^{2, 4, 14}, Lorenz H. Lehmann^{1, 4, 14}, Ralf Bauer^{1, 4}, H. Christian Volz^{1, 4}, Michael Boutros^{1, 4}, Daniela Sohn^{1, 2}, 12, Carsten Sticht^a, Norbert Gretz^a, Katrin Eichelbaum¹², Tessa Werner^{10, 11}, Marc N. Hirt^{10, 11}, Thomas Eschenhagen10, 11, Karin Müller-Decker5, Oliver Strobel9, Thilo Hackert9, Jeroen Krijgsveld^a, Hugo A, Katus^a ⁴, Mauricio Berriel Diaz^{1, 2, 12}, Johannes Backs^{a, 4, 4} ⁴, ⁴, ⁴, ⁴, ⁴ Herzig^{1, 2, 4, 12,} 👗, 🔤 Show more http://dx.doi.org/10.1016/j.molmet.2015.11.004 Get rights and content

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Highlights

- Cancer cachexia induces remodeling of the heart.
- Tumor-borne secreted factors mediate cardiomyocyte atrophy.
- Selective cachexokines, including Bin1, Stx7, Minpp1, Gaa, Ccl2, Adamtsl4, and Atxn10 provoke aberrant cardiac FA metabolism.
- Ataxin-10 levels are elevated under cachectic conditions in mice and tumor patients.

Abstract

Objectives

Cancer cachexia affects the majority of tumor patients and significantly contributes to high mortality rates in these subjects. Despite its clinical importance, the identity of tumor-borne signals and their impact on specific peripheral organ systems, particularly







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- 2 Hierarchical and Distributed Cognitive Radio Archi...
- 3 Application of hierarchical and distributed cognitive...
- 4A multi-agent based implementation of a home en...
- 5 Conclusion
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Tables (8)

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http://dx.doi.org/10.1016/j.adhoc.2015.12.002

Abstract

Moving from the current power grid to the Smart Grid (SG) requires decentralizing management. This should be done by distributing intelligence over the entire grid, thereby, the intermittent production of renewable energy, customer consumption and electricity storage in electrical vehicles (EVs) could be managed in real time. In this paper, the Hierarchical and Distributed Cognitive Radio Architecture Management (HDCRAM), initially proposed to manage Cognitive Radio systems, is proposed for the management of the SG. This architecture can both be applied to the whole SG and to any sub-part (distribution network, production network, microgrid). In this paper we focus on the distribution network and the hierarchical position of each element is identified. As an example, HDCRAM is used for smart home management and multi-agent based modeling shows benefits of such an architecture. In the simulated scenario, without any management the peak power consumption is 5500 W and the hierarchical and distributed management allows to reduce it to 900 W. This diminution allows to reduce the pressure on the grid and can decrease the risk of failure.

Keywords

Smart Grid (SG); Smart home management; Hierarchical and Distributed Cognitive Radio Architecture Management (HDCRAM); Multi-agent systems; JADE



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'Article' of the future?

Wrapping up

Changing modes of scientific output

Getting the highest publication value out of your research

Research Data, reproducibility and being a good citizen Home > Protocols

Protocols



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No idea who this is ...



Cross-Article Enrichment







Knowledge Graph

AGENDA

Back to the article-of-thefuture Enriching your article

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'Article' of the future?

Wrapping up

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It's all about author choice

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Future of the article?

Tip 11

If you disagree, agree, or have any questions: please come and find me at the conference, or ...

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