



UK CENTRE FOR

bioscience



New Horizons

David Adams

UK Centre for Bioscience

Supporting teaching in higher education to improve student learning across the Biosciences

Over 10 years supporting bioscience in H.E.



ltsn
Learning and Teaching
Support Network

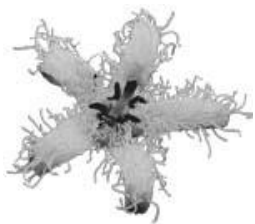
Bioscience



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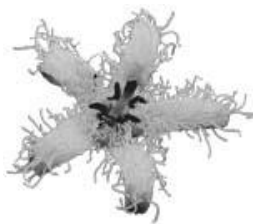
bioscience





Subject Centres will close

-
- | | | | |
|---|---|---|-------------------|
| ● Art, Design & Media | <i>BRIGHTON</i> | ● Hospitality, Leisure, Sport & Tourism | <i>OXFORD</i> |
| ● Bioscience | <i>LEEDS</i> | ● Information & Computer Sciences | <i>Co. ANTRIM</i> |
| ● Built Environment | <i>CARDIFF</i> | ● Languages, Linguistics & Area Studies | <i>S'HAMPTON</i> |
| ● Business, Management, Accountancy & Finance | <i>OXFORD</i> | ● Law | <i>WARWICK</i> |
| ● Dance, Drama & Music | <i>LANCASTER</i> | ● Materials | <i>LIVERPOOL</i> |
| ● Economics | <i>BRISTOL</i> | ● Maths, Stats & OR | <i>BIRMINGHAM</i> |
| ● Education | <i>BRISTOL/
CUMBRIA/
STIRLING</i> | ● Medicine, Dentistry & Veterinary Medicine | <i>NEWCASTLE</i> |
| ● Engineering | <i>L'BOROUGH</i> | ● Philosophical & Religious Studies | <i>LEEDS</i> |
| ● English | <i>LONDON</i> | ● Physical Sciences | <i>HULL</i> |
| ● Geography, Earth & Environmental Sciences | <i>PLYMOUTH</i> | ● Psychology | <i>YORK</i> |
| ● Health Sciences and Practice | <i>LONDON</i> | ● Sociology, Anthropology & Politics | <i>BIRMINGHAM</i> |
| ● History, Classics & Archaeology | <i>(GLASGOW)</i> | ● Social Policy & Social Work | <i>S'HAMPTON</i> |



UK Centre for Bioscience

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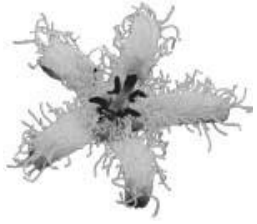
Project Officers



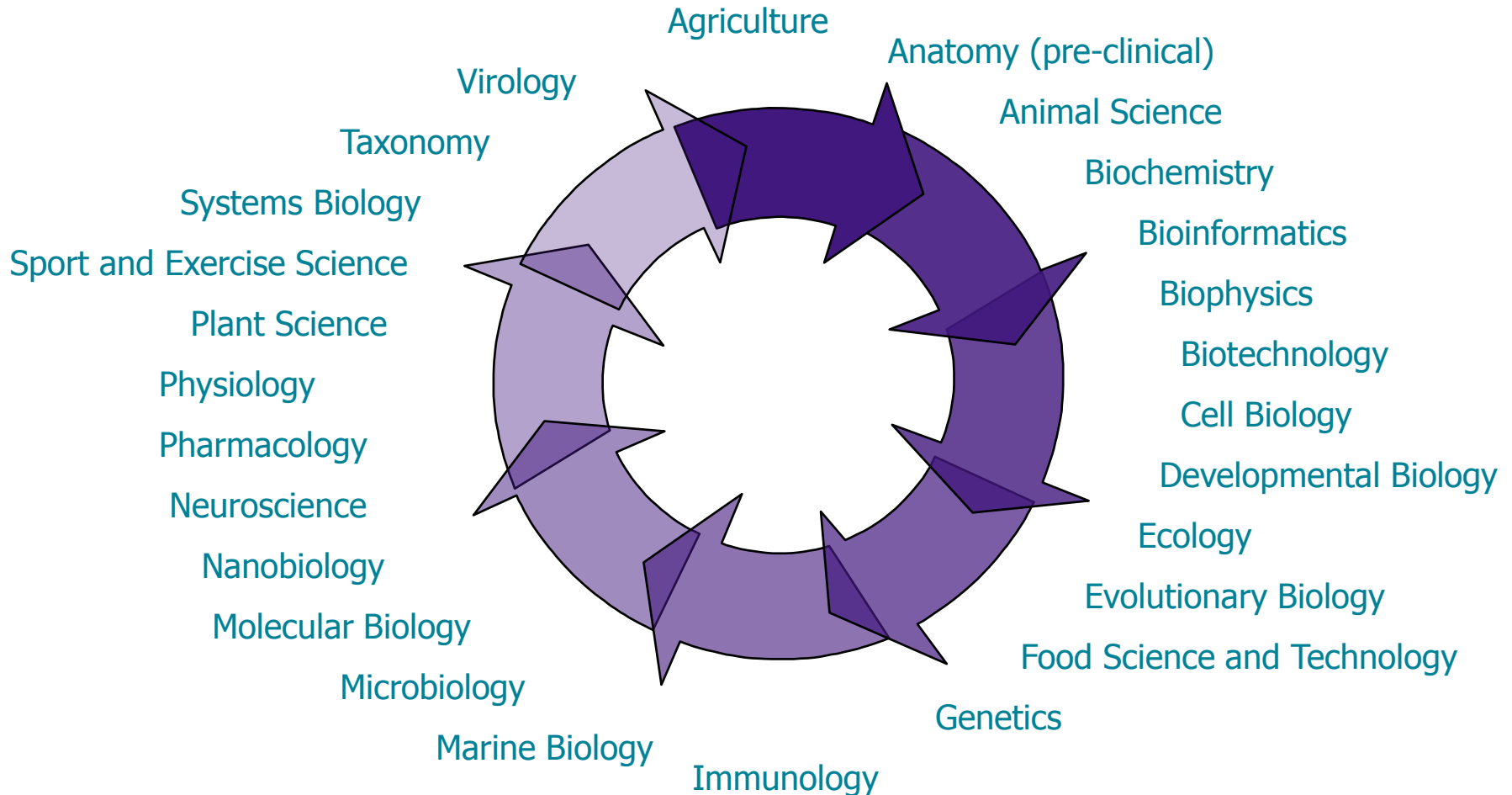
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Disciplines supported





Bulletin 32

UK Centre for BIOSCIENCE

BIOSCIENCE BULLETIN

ISSUE 32

Supporting teaching
in higher education to
improve student learning
across the biosciences



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for the HEA**
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OER wiki, PLEASE project &
Development of Scientific
Knowledge. See pages 6, 7 and 10.
- **The Future**
What lies ahead for the
bioscience community?
See pages 4 and 5.
- **New Bulletin Look**
We have taken on a new look
with this edition of the Bulletin.
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on selected articles.



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New HEA Subject Groupings

STEM

HEALTH
SCIENCES

SOCIAL
SCIENCES

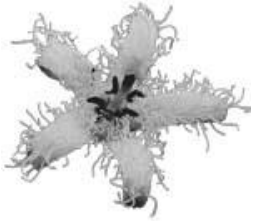
ARTS &
HUMANITIES



9 subjects: **Bioscience**, Physical Sciences, Engineering, Materials, Maths, ICS, Built Environment, GEES, Psychology

8 Discipline Leads including one for **Bioscience**

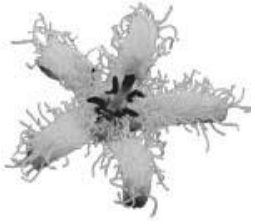
Discipline Leads will coordinate activities of an as yet undetermined no. of **Academic Associates**



Events UNTIL NOW

Programme of 8 - 10 national events per annum e.g.

- **Recently:** Maths for Biologists
Practical Work
Ethics
- **Biennial SLTC or International
Conference on Bioscience Education**



Events FROM 2011

HEA exploring/reviewing:

- how **discipline focus** can be maintained
- ‘flagship’ events like the Annual Conference and Change Programme
- better use of technology
- income generation/charging



Funding opportunities UNTIL NOW

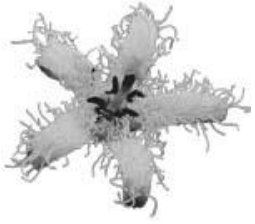
- **Departmental Teaching Enhancement Scheme (3 x £15K)**
- **Teaching Development Fund (5 x £3K)**
- **Mini projects (up to £5K)**
- **Case studies (approx. £100)**



Funding opportunities FROM 2011

- Individual Teaching Development Grants (£630,000, max. £7,000)
- Departmental Teaching Development Grants (£300,000, max. £30,000)
- Collaborative Teaching Development Grants (£540,000, max. £60,000)

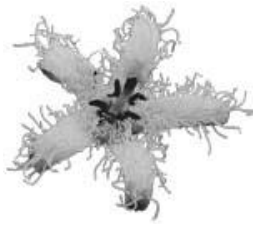
Increased emphasis on FHEA status and contributions by host institution



Publications

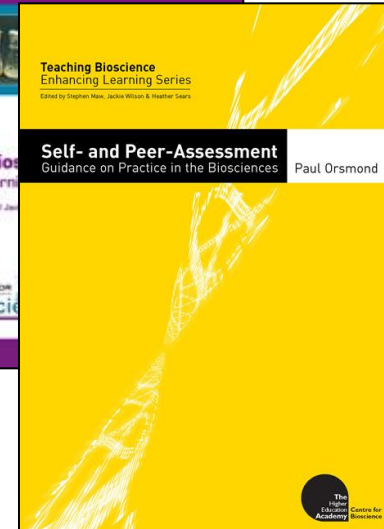
Bioscience Education

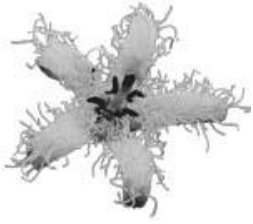




Other Centre for Bioscience publications

- *Bioscience Bulletin*
- Learning Guides
- Event Reports





Awards UNTIL NOW

Bioscience Teacher of the Year 2011

You are here: [Home](#) | [funding](#) | [recognition](#) |

Shortlisted Candidates for 2011 Award Announced!

We are pleased to announce and congratulate our shortlist of candidates for the 2011 Bioscience Teacher of the Year Award. They are:

- Dr Phil Langton, University of Bristol
- Dr Richard Milne, University of Edinburgh
- Dr Jon Scott, University of Leicester
- Dr Carol Wakeford, University of Manchester



Over the coming months, the Centre will develop a case study of each candidate's teaching, based on observation, interviews and student feedback. Oxford University Press will also visit candidates to film them delivering a teaching session. Together the film and case study will inform the judges in selecting a winner, to be announced at the Centre's forthcoming International Conference: **Effective Learning in the Biosciences 2011**.

About the Award

Supported by the UK Centre for Bioscience and sponsored by **Oxford University Press**, the Bioscience Teacher of the Year Award recognises outstanding learning and teaching practice in the biosciences.

OXFORD
UNIVERSITY PRESS

NATIONAL TEACHING FELLOWSHIP SCHEME (NTFS)

Student Award 2011

You are here: [Home](#) | [funding](#) | [essay](#) |

The pluses and minuses of maths on my bioscience course

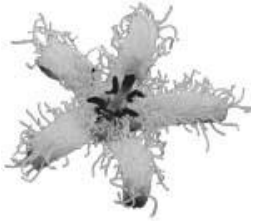
The 2011 Award is now closed, we hope to announce the winners and runners-up by June.

The UK Centre for Bioscience Student Award gives you the opportunity to express your opinions, tell us about your experiences and win up to £300. This year there will be two winners - one undergraduate and one postgraduate and our thanks go to BBSRC (the Biotechnology and Biological Sciences Research Council) for sponsoring the postgraduate prize.



The two winning entries will be published on the UK Centre for Bioscience website. Runners-up will receive a prize of £50 and will have their entry published on the Centre website. Winning and runner-up entries may also be published in hardcopy format and distributed to bioscience students and teaching staff across the UK.





Awards FROM 2011

***NTFS – maintained and will work
towards UK-wide scheme***

***STUDENT-LED TEACHING
AWARDS – UK-wide pilot***



Image Bank

ATP synthase visualized by electron microscopy

the passage of protons across the F_0 segment of ATP synthase facilitates the

outer membrane
crista junction
inner

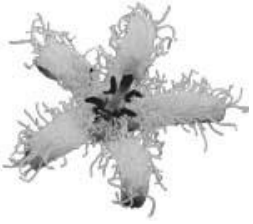
energy and entropy profile of a protein in the process of folding

entropy unfolded structure
"molted globule"
native structure
 E_{nat}

$\Delta 151$

Over 7,000 free and copyright-cleared images

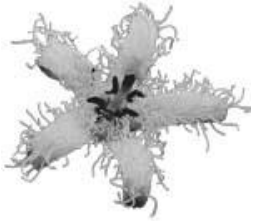
USE IN SUPPORT OF RESEARCH-LED TEACHING



Other HEA initiatives

2011 →

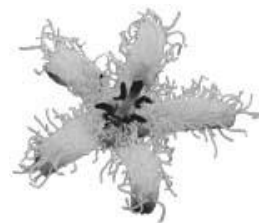
- Develop PTES  Postgraduate Taught Experience Survey and PRES  Postgraduate Research Experience Survey
- Analyses of NSS results at subject level
- Consultancy services
- Academy summits and 'Think Tank'
- UKPSF, Accreditation, Recognition



Networks

- Over 2,500 practitioners
- Departmental representatives

- HUBS, HUCBMS
- Society of Biology
- Sector Skills Councils
- CETLs



Centre for Bioscience Website



UK CENTRE FOR
bioscience

10 years supporting teaching in higher education to improve student learning across the Biosciences

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Country Focus



Welcome

The UK Centre for Bioscience is one of 24 Subject Centres of the Higher Education Academy. Our primary aim is to support teaching in higher education to improve student learning in the biosciences. We do this by funding, gathering and disseminating information and resources; providing excellent opportunities to network with colleagues from institutions across the UK; and offering friendly and professional staff who are responsive to the needs of the bioscience learning and teaching community. [More . . .](#)

Latest additions

- [Grants of £15K for teaching development](#)
- [Register for Effective Learning in the Biosciences](#)
- [Bulletin 32 \(Spring 2011\) now available](#)
- [Register for STEM External Examiners event](#)
- [OeRBITAL - bioscience open educational resources](#)
- [New Short Guides on Linking Teaching and Research and Diversity and Inclusivity available](#)



- [Higher Education Academy](#)
- [Subject Centre Network](#)

Select Subject Centre

Bioscience Headlines

[Upcoming Bioscience Events](#)

[Upcoming General Events](#)

[Event Reports](#)

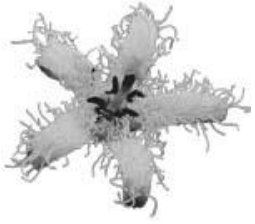


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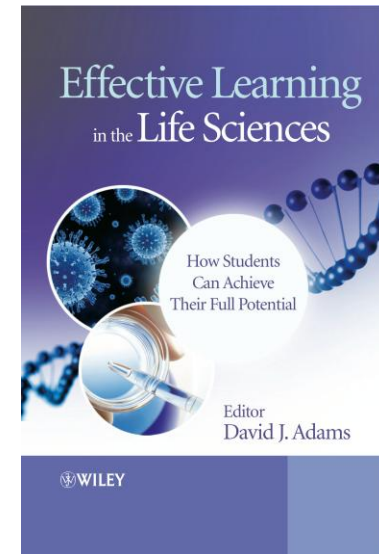
ImageBank

www.bioscience.heacademy.ac.uk



BOOK: *Effective Learning in the Life Sciences: how students can achieve their full potential*

- Creativity, Problem-solving
- Laboratory, Fieldwork, *In vivo* skills, Research projects
- Maths & Stats, E-learning
- Bioethics, Bioenterprise
- Communication
- Assessment & Feedback



September 2011, Wiley-Blackwell

