EMBO Science & Society Programme – Bringing the life sciences and society closer.



What proportion of people are studying science these days?

2000 figures

Proportion of science graduates to total graduates in all subjects:

EU-15: 11.9%

USA: 8.2%

Japan: 2.3%

2003 figures

Proportion of science graduates to total graduates in all subjects:

EU-25: 11.0% (top: Ireland 18.0%; bottom Hungary 2.9%)

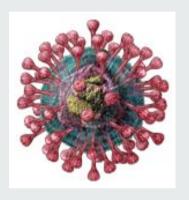
USA: 10.6%

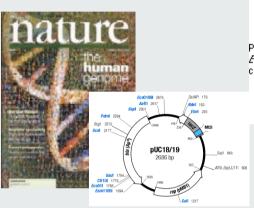
Japan: 3.0%

(Turkey probably around 15%)

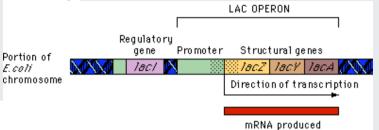


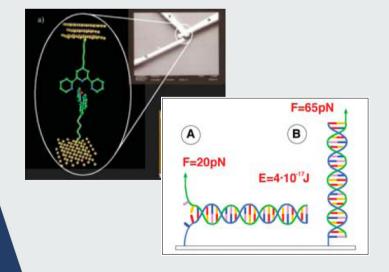
From molecular biology and biotechnology...

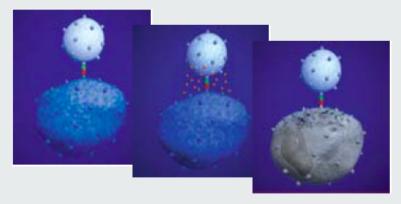












to nano-biotechnology



our work covers 3 broad areas...

Promoting and rewarding communication

Promoting molecular biology

Scientific input into policy-making



Science & Society at EMBO

- International conferences (EMBØEMBL)
 - International education workshops
- Award for Communication in the Life Sciences
 - Writing prize for young life scientists
- Media workshops
 - Special sessions on Science & Society
- Focus meetings producing policy advice
 - Small grants scheme















EMBO/EMBL joint conferences





EMBO's European Network for Biology Education





Science for policy



▼ The European Directive 86/609/EEC on the protection Directly Read Continue and promote the "See" of experi-

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25 EMBC member states, EC and EP.

care, training of animal handling personnel and supervision of experiments. It also promotes the reduction in numbers of research animals by encouraging the development and validation of alternative methods. However, its wording leaves it open to different interpretations, and it does not explicitly mention the SRs and ethical review processes, or require the compulsory authorisation of all experiments.

Many countries in Europe already apply stricter regulations than the current Directive stipulates, but there is much variation. Updating the directive will help to standardise national legislation and harmonise the conditions applying to animal research across the European Union.

The revision is expected to focus strongly on improvements in animal welfare provisions and the promotion of alternative techniques. It will probably specifically address conditions for animal use in new research methods post-dating the original Directive (e.g. transgenics, xenotransplantation and doning research) and experiments on highly sentient animals, e.g. non-

A first draft of the revised Directive is likely to appear early in 2006. It will be based on answers given to a "thought starter"

How the revision should be seen

The revision presents researchers with opportunities as well as challenges. It provides a fresh stimulus for considering current practices, the superiority of self-regulation over external regulation and the value of communicating research and its methods proactively

Many aims of the revision are achievable through existing regulations. These require experiments to be done in accordance with the best current scientific knowledge - an area already addressed by independent training and accreditation organisations (e.g. FELASA and AAALAC Init.). Hevertheless, the Directive will be revised, and national laws must implement it. It therefore pays to examine some possible changes that urgently deserve the attention and input of researchers in particular fields.

The meeting was held under the auspices of EMSC This document reflects documents at that meeting and is not a policy statement from EMSC or includual participants



"Europeanising" Science & Society

•Providing platforms and events for communication, discussion

and exchange

Establishing networks

Setting models and giving advice

•Producing and disseminating trustworthy materials (guides, information, educational resources, policy advice)

Co-ordinating diffused actions to generate a unified profile

Contributing to other events

•Obtaining a picture of Europe as a whole and of the state of the stat



Alessandra Bendiscioli - Programme Administrator Andrew Moore, PhD - Programme Manager



www.embo.org/scisoc/index.html scisoc@embo.org



