THE NEW

MINI-PREP 24 FOR AUTOMATED

PLASMID MINI-PREPS

- Fast—up to 24 preps per hr, saving you valuable time.
- High Purity—sufficient for automated fluorescent and manual sequencing.
- Easy Operation—begin prep with direct loading of bacterial culture. No centrifugation step saves you time.
- Consistent Results—up to 6 μg of plasmid per ml. Quality DNA ... time and time again.

Call now to learn how the New Improved Mini-Prep 24 can give you quality DNA and save time by automating your Plasmid DNA preps!



11339 Sorrento Valley Road San Diego, CA 92121 (619) 452–2603 • Fax (619) 452–6753 www.macconnell.com Circle No. 60 on Readers' Service Card

1992 onward, the difference since 1995 being in the detail that science is a smaller part of a larger portfolio in the Cabinet Minister with responsibility for it, and a junior Minister is correspondingly more important.

Finally, and getting into real Whitehall arcana, Ian Taylor was a junior junior Minister (Parliamentary Under Secretary of State), while John Battle is a senior junior Minister (Minister of State).

Obviously much of this is too detailed for the short piece that appeared. But it simply is wrong to suggest that Mrs. Beckett will be doing something new in speaking for science, across all departments, in Cabinet. At the same time, it is great that she looks forward to this important role.

Robert May

Chief Science Adviser, U.K. Office of Science and Technology, Albany House, 94-98 Petty France, London SW1H 9ST, United Kindgom

Drug Development

Silvio Garattini asserts in his 17 January editorial "Financial interests constrain drug development" (p. 287) that the pharmaceutical industry "is interested in treating the largest possible number of patients with a particular drug." This is untrue. We commit to improving the health of as many patients as possible with a particular drug. This goal necessitates treating a number of sick people with a particular drug even though some do not respond, because the technology to identify responders is a priori not available.

This may change soon as the ability to stratify phenotypes (historically a somewhat imprecise science) is enhanced by genotyping (a highly quantitative and exact science). To advance this goal, we and other pharmaceutical companies are conducting clinical trials to correlate the response to various developmental drugs not only with a patient's phenotype (such as blood pressure) but also with his or her genotype.

Garattini cites the problem of drug resistance and argues that the development of drugs to decrease resistance "is constrained by those drugs' potentially limited market." Pfizer has large programs committed to study bacterial and fungal mechanisms of resistance, and we have recently invested several million dollars with biotechnology companies such as Microcide and Chemgenics to expedite this research. Glaxo Wellcome, in concert with its affiliate Affymetrix, is analyzing viral DNA from patients infected with human immunodeficiency virus to determine which viral genotypes are sensitive or resistant to existing AIDS therapies. This expensive, long-term

investment will help physicians select appropriate drugs and may also elucidate mechanisms of viral resistance.

Garattini asks for "[s]pecial collaborative programs linking industry, governments, and academic or scientific institutions." The funding by the U.S. National Institutes of Health of Johns Hopkins University's genotyping center will make this information available to the whole industry and also facilitate the understanding of genetic differences between phenotypically similar disease sites.

Ian Williams

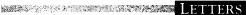
Group Director, Molecular Sciences, Pfizer Central Research, Groton, CT 06340, USA

Response: Williams defends the position of the pharmaceutical industry, which I did not intend to attack in my editorial. I simply tried to explain that many orphan areas in medicine cannot be taken care of by industry although these areas are of great importance for patients and national health services. I certainly know of and appreciate the activity of the U.S. National Institutes of Health and Johns Hopkins University, but my aim was to suggest extension of such activity in Europe and through an ad hoc agency.

Silvio Garattini Director, Instituto di Richerche Farmacologiche "Mario Negri," Milano 20157, Italy

Endosomal Targeting and the Cytoplasmic Tail of Membrane Immunoglobulin: Retraction

In our report (1) "Endosomal targeting by the cytoplasmic tail of membrane immunoglobulin" (18 Apr., p. 407), we measured the production of interleukin-2 (IL-2) with an MTT assay (2). Recently, we repeated our experiments with another assay for measuring the production of IL-2, namely, thymidine incorporation in the cytotoxic T lymphocyte cell line CTLL-2. In this system, differences between results from positive and negative control are severalfold higher than they are with the MTT assay. This reexamination, together with the analysis of additional clones, revealed problems with the sensitivity and calibration of our MTT readout that jeopardize the conclusions of our study (1), because the different transfectants no longer fell into the clear pattern presented in our report. Although the y2am cytoplasmic tail of membranebound immunoglobulin may have a role in antigen presentation, our data do not allow us at this stage to establish this role.



We would therefore like to retract our recent report (1).

Peter Weiser Ralph Müller Uschi Braun Michael Reth Abteilung für molekulare Immunologie, Max-Planck-Institut für Immunbiologie, D-79108 Freiburg, Germany

References

- 1. P. Weiser, R. Müller, U. Braun, M. Reth, *Science* **276**, 407 (1997).
- MTT is 3-[4,5-dimethylthiazol-2-yl]-2,5-dipheny Itetrazolium bromide.

Duplicate Publication

Editor's note: In January and February 1997, Stephen Y. Chou's group at the University of Minnesota published essentially the same paper in Science and Applied Physics Letters. The papers in question are "A silicon single-electron transistor memory operating at room temperature" by Lingjie Guo, Effendi Leobandung, and Stephen Y. Chou (Reports, 31 Jan., p. 649) [Science 275, 649 (1997)] and "A room-temperature silicon single-electron metal-oxide-semiconductor memory with nanoscale floating-gate and ultranarrow channel" by the same authors [Appl. Phys. Lett. 70, 850 (1997)]. Neither paper referenced the other. Science requests a copyright form, assigning copyright to the American Association for the Advancement of Science, and Applied Physics Letters requests the same for the American Institute of Physics. It is a tradition of long standing (stated in the information for contributors) that submission implies that the work has not been submitted, copyrighted, or accepted for publication elsewhere. Hence, duplicate submission not only raises legal questions and represents a serious breach of scientific ethics, but also leads to an unnecessary imposition on readers', referees', and editors' time. We regard this matter seriously.

An apology for this occurrence is printed below.

Author's apology: I deeply regret submitting and publishing two similar versions of our single-electron memory work in both Applied Physics Letters and Science without reference to each other. I am solely responsible for the miscommunication that led to the dual submission. In addition, my decision to not withdraw one of the papers when the dual submission became evident has compounded the gravity of my error. Mv action has resulted in wasting editors', reviewers', and readers' time and energy and in raising legal and ethical issues. I sincerely apologize to Science and Applied Physics Letters, their publishers, and readers for my grave error.

> Stephen Y. Chou Department of Electrical Engineering, University of Minnesota, Minneapolis, MN 55455, USA

In the revealing world of 2-Photonology no one takes you deeper

Developed under exclusive licence from Cornell Research Foundation (US patent no. 5,034,613), the MRC-1024/2P 2-photon fluorescence imaging system:

- Images deeper into cells than ever before
- · Reduces photo-bleaching and photo-toxicity
- · Allows study of live samples for longer periods of time

BIO RAD

Microscopy Division

FIRST IN 2-PHOTON MICROSCOPY

U.S. (800) 4BIORAD California (510) 741-1000 Australia 02-9914-2800 Austria (1)-877 89 01 Belgium 09-385 55 11 Canada (905) 712-2771 China (86-10) 2046622 Denmark 39 17 9947 Finland 09 804 2200 France Ph. (1) 43 90 46 90 Germany 089 31884-0 Hong Kong 7893300 India 91-11-461-0103 Italy 02-21609 1 Japan 03-5811-6280 The Netherlands 031318-540666 New Zealand 09-443 3099 Singapore (65) 272-9877 Spain (91) 661 70 85 Sweden 46 (0) 8 627 50 00 Switzerland 01-809 55 55 United Kingdom 0800 181134

Circle No. 11 on Readers' Service Card