

Acknowledgments. This paper is dedicated to Professor Jean Lindenmann, co-discoverer of interferon, on the occasion of his 65th birthday. I am greatly indebted to Mrs Elisabeth Sauter for linguistic assistance.

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0014-4754/89/060594-03\$1.50 + 0.20/0  
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## Announcements

The European Molecular Biology Organization (EMBO) will organize the following Workshops and Courses in 1989. Those interested should contact the organizers directly at the addresses given for each individual event.

### EMBO Workshops 1989

| Subject                                                                                              | Organizer(s)                                                                                    | Address for inquiries                                                                                                          | Date, Place                 |
|------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------|-----------------------------|
| The <i>scid</i> mouse mutant: cellular/molecular characterization and lymphoid reconstitution        | • W. Schuler<br>M. Bosma<br>R. Phillips                                                         | Institute for Immunology<br>Grenzacherstrasse 487<br>4005 Basel<br>Switzerland                                                 | 20–22 February<br>CH-Basel  |
| Genetics of nervous system development                                                               | J. Campos-Ortega                                                                                | Institut für Entwicklungsphysiologie<br>Universität zu Köln<br>Gyrhofstrasse 17<br>5000 Köln 41<br>Federal Republic of Germany | 3–7 April<br>D-Simonswald   |
| Molecular biology of retroviral viruses and retroviral elements                                      | • T. Hohn<br>J. Fütterer<br>H. Schaller                                                         | Friedrich-Miescher-Institut<br>P.O. Box 2543<br>4002 Basel<br>Switzerland                                                      | 4–7 April<br>CH-Flumserberg |
| Chromosome 21: Impact of the new genome technology in human genetics                                 | • N. Sacchi<br>P. Durand<br>G. Romeo<br>G. Bernardi                                             | International School of Pediatrics<br>Istituto G. Gaslini<br>Genoa<br>Italy                                                    | 18–20 May<br>I-Genoa        |
| Illegitimate recombination                                                                           | S. D. Ehrlich                                                                                   | Laboratoire de Génétique Microbienne<br>Institut de Biotechnologie<br>INRA-Domaine de Vilvert<br>78350 Jouy en Josas<br>France | 28–31 May<br>F-Paris        |
| The molecular biology of plant virus pathogenicity                                                   | • J. Davies<br>M. Mayo                                                                          | Department of Virus Research<br>AFRC Institute of Plant<br>Science Research<br>Colney Lane<br>Norwich NR4 7UH<br>England       | 16–19 July<br>GB-Kent       |
| Molecular and cell biology of gap junctions                                                          | K. Willecke<br>• P. Meda                                                                        | Institute of Histology<br>University, C.M.U.<br>1, rue Michel Servet<br>1211 Geneva 4<br>Switzerland                           | 18–23 July<br>D-Issee       |
| Molecular biology of filamentous fungi                                                               | • J. Knowles<br>H. Arst, H. van den Broek,<br>C. van den Hondel,<br>C. Scazzocchio,<br>U. Stahl | Biotechnical Laboratory, VTT<br>Technical Research Centre<br>Tietotie 2<br>02150 Espoo<br>Finland                              | 2–7 August<br>SF-Espoo      |
| Comparative structure and function of membranes in chloroplasts and cyanobacteria (blue-green algae) | • G. Peschek<br>P. Böger<br>R. Douce<br>G. Papageorgiou                                         | Biophysical Chemistry Group<br>Institute of Physical Chemistry<br>Währinger Strasse 42<br>1090 Wien<br>Austria                 | 4–8 September<br>GR-Sounion |

| Subject                                              | Organizer(s)                                                                                                         | Address for inquiries                                                                               | Date, Place                             |
|------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|-----------------------------------------|
| RNA 3' end formation                                 | ● N. J. Proudfoot<br>I. Grummt<br>J. Manley<br>T. Platt                                                              | Sir William Dunn School of Pathology<br>University<br>South Parks Road<br>Oxford OX1 3RE<br>England | 13–17 September<br>GB-Oxford            |
| Protein folding in the cell                          | ● R. Freedman<br>M. J. Gething<br>F. Schmid                                                                          | Biological Laboratory<br>The University<br>Canterbury, Kent CT2 7NJ<br>England                      | 20–23 September<br>GB-Canterbury        |
| Cellular and molecular biology of muscle development | ● A. MacLeod<br>F. Walsh                                                                                             | Ludwig Institute for Cancer Research<br>MRC Centre<br>Hills Road<br>Cambridge CB2 2QH<br>England    | 24–29 September<br>GB-Cambridge         |
| Patterns in protein sequence and structure           | ● P. Argos<br>P. Bayley<br>W. Taylor                                                                                 | EMBL<br>Postfach 1022.09<br>6900 Heidelberg<br>Federal Republic of Germany                          | 2–5 October<br>D-EMBL, Heidelberg       |
| The homeobox in development and evolution            | W. J. Gehring                                                                                                        | Department of Cell Biology<br>Biozentrum<br>Klingelbergstrasse 70<br>4056 Basel<br>Switzerland      | 15–19 October<br>CH-Gwatt               |
| The molecular biology of parvoviruses                | ● J. Tal<br>Y. Aloni<br>E. Winocour                                                                                  | Department of Biology<br>Ben-Gurion University of the Negev<br>84105 Beer-Sheva<br>Israel           | 12–17 November<br>IL-Ein Gedi           |
| <i>EMBO Annual Symposium</i>                         |                                                                                                                      |                                                                                                     |                                         |
| Molecular communication in higher plants             | Organizing Committee:<br>C. Leaver-Chairman<br>K. Marcker, M. van Montagu,<br>I. Potrykus<br>H. Saedler, F. Salamini | Dr. J. Tooze<br>EMBO<br>Postfach 1022.40<br>6900 Heidelberg<br>Federal Republic of Germany          | 18–21 September<br>EMBL<br>D-Heidelberg |

*EMBO Practical Courses 1989*

| Subject                                         | Organizer(s)                                         | Address for inquiries                                                                               | Date, Place<br>Number of students         |
|-------------------------------------------------|------------------------------------------------------|-----------------------------------------------------------------------------------------------------|-------------------------------------------|
| DNA-protein interactions                        | ● I. Mattaj<br>D. Bohmann<br>P. Monaci<br>A. Nicosia | EMBL<br>Postfach 1022.09<br>6900 Heidelberg<br>Federal Republic of Germany                          | 5–11 February<br>D-EMBL, Heidelberg<br>15 |
| Antibodies in cell biology                      | ● T. Kreis<br>B. Burke<br>J. De Mey                  | EMBL<br>Postfach 1022.09<br>6900 Heidelberg<br>Federal Republic of Germany                          | 21–30 May<br>D-EMBL, Heidelberg<br>10–14  |
| Microinjection and electrotransfection of cells | ● W. Ansorge<br>R. Pepperkok<br>A. Smith             | EMBL<br>Postfach 1022.09<br>6900 Heidelberg<br>Federal Republic of Germany                          | 12–17 June<br>D-EMBL, Heidelberg<br>15    |
| Genomic sequencing and in vivo footprinting     | ● H. Saluz<br>J.-P. Jost                             | Friedrich-Miescher-Institut<br>P.O. Box 2543<br>4002 Basel<br>Switzerland                           | 12–17 June<br>CH-Basel<br>15              |
| Advances in molecular pathology                 | ● P. Mason<br>L. Luzzatto                            | Department of Haematology<br>RPMS, Hammersmith Hospital<br>Ducane Road<br>London W12 0HS<br>England | 17–28 July<br>GB-London<br>16–20          |
| Cryo-section immunolabelling and quantitation   | G. Griffiths                                         | EMBL<br>Postfach 1022.09<br>6900 Heidelberg<br>Federal Republic of Germany                          | 14–24 August<br>D-EMBL, Heidelberg<br>16  |
| Protein-electroblotting and microsequencing     | J. Vandekerckhove                                    | Laboratory of Genetics<br>Rijksuniversiteit<br>K. L. Ledeganckstraat 35<br>9000 Gent<br>Belgium     | 22 August–1 September<br>B-Gent<br>12     |

| Subject                                                                                                        | Organizer(s)                                                            | Address for inquiries                                                                                                  | Date, Place<br>Number of students                      |
|----------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------|
| Advanced fluorescence microscopy                                                                               | • E. Stelzer<br>J. De Mey                                               | EMBL<br>Postfach 1022.09<br>6900 Heidelberg<br>Federal Republic of Germany                                             | 3–9 September<br>D-EMBL, Heidelberg<br>12              |
| Tissue-specific in vitro transcription                                                                         | U. Schibler                                                             | Department of Molecular Biology<br>Sciences II, University<br>30, quai Ernest-Ansermet<br>1211 Geneva 4<br>Switzerland | 8–16 September<br>CH-Geneva<br>12                      |
| Expression of DNA sequences coding for secretory and membrane proteins in <i>E. coli</i> and cell-free systems | • B. Dobberstein<br>H. Bujard                                           | EMBL<br>Postfach 1022.09<br>6900 Heidelberg<br>Federal Republic of Germany                                             | 10–21 September<br>EMBL and ZMBH<br>D-Heidelberg<br>16 |
| Flow cytometry as a tool in molecular and cell biology                                                         | • A. Radbruch<br>C. Göttlinger<br>W. Müller<br>W. Weichel<br>B. Mechold | Institut für Genetik<br>der Universität<br>Weyertal 121<br>5000 Köln 41<br>Federal Republic of Germany                 | 18–30 September<br>D-Köln<br>10                        |
| Analysis and expression of neurotransmitter receptors                                                          | • H. Betz<br>P. Seeburg                                                 | ZMBH<br>Im Neuenheimer Feld 282<br>6900 Heidelberg<br>Federal Republic of Germany                                      | 7–8 days early October<br>D-Heidelberg<br>10           |
| Long range mapping and cloning of mammalian DNA; linking, jumping; and pulsed-field gels                       | • H. Lehrach<br>D. Barlow<br>A. Poustka                                 | ICRF<br>Lincoln's Inn Fields, Rm 336<br>P.O. Box 123<br>London WC2A 3PX<br>England                                     | 6–17 October<br>D-EMBL, Heidelberg<br>16               |
| DNA sequencing: advanced approaches, automated methods and analysis                                            | • W. Ansorge<br>A. Bankier<br>G. Volckaert<br>B. Sproat                 | EMBL<br>Postfach 1022.09<br>6900 Heidelberg<br>Federal Republic of Germany                                             | 15–25 November<br>D-EMBL, Heidelberg<br>15             |
| Avian embryo manipulation                                                                                      | N. le Douarin<br>• F. Dieterlen<br>C. Martin<br>C. Ziller               | Institut d'Embryologie<br>49bis, av. de la Belle Gabrielle<br>94130 Nogent-sur-Marne<br>France                         | 10 days December<br>F-Nogent-sur-Marne<br>10–12        |

*EMBO Lecture Courses*

| Subject                                                              | Organizers                                                                   | Address for inquiries                                                                            | Date, Place<br>Number of students   |
|----------------------------------------------------------------------|------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|-------------------------------------|
| Dynamics and biogenesis of membranes<br>(co-sponsors: NATO and FEBS) | • J. Op den Kamp<br>B. de Kruijff<br>C. Lazdunski<br>W. Lennarz<br>K. Simons | Centre for Biomembranes<br>State University<br>Padualaan 8<br>3584 CH Utrecht<br>The Netherlands | 12–23 June<br>F-Cargèse<br>70       |
| Protein and genetic engineering<br>(co-sponsors: FEBS and NATO)      | • B. Clark<br>H. Feldmann                                                    | Department of Chemistry<br>University<br>Langelandsgade 140<br>8000 Aarhus C<br>Denmark          | 3–16 September<br>GR-Spetsai<br>105 |