# MUGEN Transgenesis Course, April 10-13, 2006, Athens, Greece

## Monday, April 10, 2006

### Basic Principles of gene manipulation in the mouse

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| 9.00 – 9.30 | **Registration / Coffee** | | |
| 9.30 – 10.30 | Overview: Transgenic systems in gene discovery and validation | *G. Kollias* | FLEMING |
| 10.30 – 11.00 | **Coffee Break** | | |
| 11.00 – 12.30 | Principles of Mammalian Genetics and Development | *M. Alexiou* | FLEMING |
| 12.30 – 13.30 | Conditional Gene Targeting | *M. Schmidt-Supprian* | CBR |
| 13.30 – 14.30 | **Lunch Break** | | |
| 14.30 – 15.30 | In Vivo Imaging | *D. Kioussis* | MRC |
| 15.30 – 16.30 | Novel Approaches to Transgene Design and Construction | *D. Graf* | FLEMING |
| 16.30 – 17.30 | New Perspectives in genome Engineering | *A. Economides* | REGENERON |
| 19.00 – 19.30 | **Dinner** | | |

## Tuesday, April 11, 2006

### Transgenic Systems for the Analysis of Immune Responses

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| 9.00 – 10.00 | Defining the basis of immunological disease through the analysis of genetic susceptibility | *K. Gelderman* | ULUND |
| 10.00 - 11.00 | Mouse models for analyzing antigen representation | *N. Garbi* | DKFZ |
| 11.00 – 11.30 | **Coffee Break** | | |
| 11.30 - 12.30 | Analyzing the specificity of adaptive immune responses: Tolerance | *M. Van Den Broek* | EXPIMMZH |
| 12.30 – 13.30 | Analyzing signaling cascades: Lymphoid Receptors | *A. Kissenpfennig* | CNRS |
| 13.30 – 14.30 | **Lunch Break** | | |
| 14.30 – 15.30 | Calcium dependent shaping of T cell activation | *F. Grassi* | IRB |
| 15.30 – 16.00 | **Coffee Break** | | |
| 16.00 – 17.00 | Transgenic animal models for the analysis of intracellular signaling cascades | *M. Pasparakis* | EMBL |
| 17.00 – 18.00 | Analyzing Innate Immunity | *C. Garlanda* | HUMANITAS |
| 19.00 – 19.30 | **Dinner** | | |

## Wednesday, April 12, 2006

### Transgenic Systems for the Analysis of Immune Responses

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|---|---|---|---|
| 9.00 – 10.00 | Infections in mouse mutants deficient in cytokine / cytokine receptor genes | *W. Muller* | GBF |
| 10.00 - 11.00 | Schematic analysis of immune effector functions in infection and transplantation | *S. Beer* | UNI DUESS |
| 11.00 – 11.30 | **Coffee Break** | | |
| 11.30 - 12.30 | Application of siRNA technologies to primary cells of the immune system as an alternative to generate transgenic animals | *A. Scheffold* | DRFZ |
| 12.30 – 13.30 | Two photon Imaging | *P. Bousso* | PASTEUR |
| 13.30 – 14.30 | **Lunch Break** | | |
| 14.30 - 15.30 | Transgenic animal models for the analysis of immune gene expression | *D. Kontoyiannis* | FLEMING |
| 15.30 – 16.00 | **Coffee Break** | | |
| 16.00 – 17.00 | Transgenic Animal Models in cancer research | *M. Nawijn* | NKI-AVL |
| 17.00 - 18.00 | Humanized Mice | *M. Manz* | IRB |
| 18.30 – 19.30 | **Dinner Reception at Fleming** | | |

## Thursday, April 13, 2006

## High Throughput Mutagenesis

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|---|---|---|---|
| 9.00 – 10.00 | Gene Traps | *V. Episkopou* | MRC |
| 10.00 - 11.00 | Random ENU Mutagenesis | *E. Douni* | FLEMING |
| 11.00 – 11.30 | **Coffee Break** | | |
| **Mouse Resources** | | | |
| 11.30 – 12.30 | Resources for genetically engineered mice | *R. Matteoni* | EMMA |
| 12.30 – 13.00 | Closing Remarks | *G. Kollias* | FLEMING |
| 13.00 – 14.00 | **Buffet Lunch** | | |