



CHARLES UNIVERSITY

First Faculty of Medicine

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KOSTROUCH LAB

EXPERTISE

Model systems of invertebrates
Molecular biology, genomics, genome editing
Molecular pathology

CONTRACT RESEARCH

Detection and Research of hormonally active substances in the diet and in the environment
Preparation of artificial proteins with special properties
C. elegans - genetics, genomics, genome editing



BIOCEV

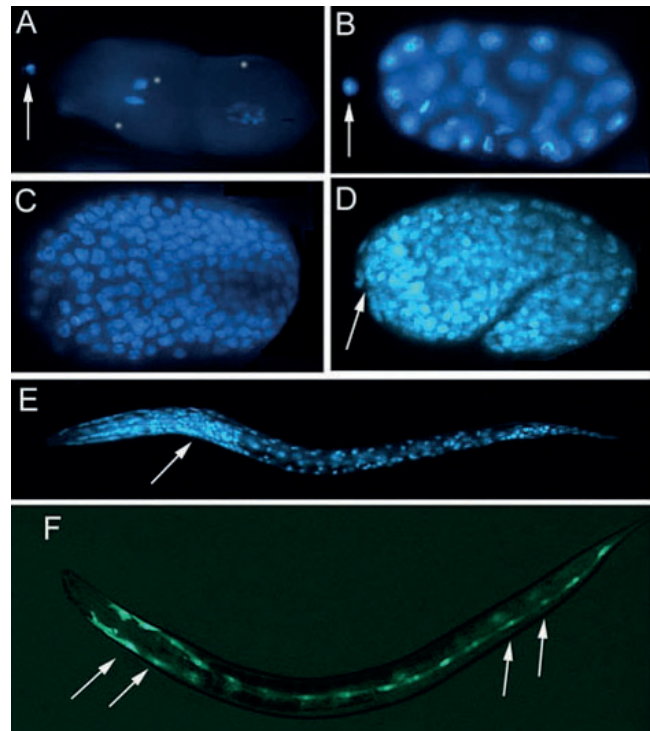
Biotechnology and Biomedicine Centre of the Academy of Sciences and Charles University in Vestec

PROJECTS

- Evolutionarily preserved mechanisms of regulation of gene expression
- Development of systems for the production of artificial proteins
- Bioinformatics and molecular biology of cancer
- Research of hormonally active substances in food and the environment



Microscope Olympus IX70 with a complete microinjection system for preparation of transgenic organisms. © Marta Kostrouchová



C. elegans at various stages of embryonic (A to D) and larval development (E, F). Blue labeled nuclei are visualized by DAPI staining. Green marker in panel F visualizes a transgene consisting of a part of a nuclear receptor fused with the gene coding for green fluorescent protein. Arrows indicate polar bodies in A, B and D, neurons of the neuronal cord in E and seam cells expressing the transgene in F. © Marta Kostrouchová