

Donna King, Ph.D.

Appendix

(a) Biographical Sketches of
Donna King, Ph.D.
Douglas Bolt, Ph.D.
Ronald Reichel, Ph.D.

(b) Letters of collaboration/consultation from
Douglas Bolt, Ph.D.
Ronald Reichel, Ph.D.

(c) Selected publications
D. King, H.W. Hawk, and R.J. Wall (1990) Analyzing embryos by the polymerase chain reaction. In R. Church (ed.) Transgenic Models in Medicine and Agriculture, UCLA Symposia on Molecular and Cellular Biology, Vol. 166:33-45. Alan R. Liss, Inc., New York, NY.
R.J. Wall, D.J. Bolt, W.I. Frels, H.W. Hawk, D. King, V.G. Pursel, C.E. Rexroad, Jr., and R.M. Rohan (1990) Transgenic farm animals: current state of the art. AgBiotech News and Information 2:391-395. (Review)
R.M. Rohan, D. King, and W.I. Frels (1990) Direct sequencing of PCR-amplified junction fragments from tandemly repeated transgenes. Nucl. Acids Res. 18:6089-6095.

(d) Additional Information

The Principal Investigator will direct the course of the research, evaluate data, and plan and conduct experiments. The P.I. will perform all of the initial microinjections until other lab personnel become qualified to share the work. Dr. Ronald Reichel will provide expertise in preparation of cellular extracts and the identification of potential beta-c regulatory factors within them. Dr. Douglas Bolt will analyze blood samples by radioimmunoassay for the presence of growth hormone. The technician to be hired by the P.I. will perform routine laboratory procedures and will be expected to gain facility with the microinjection technique. Graduate students working in the laboratory will make gene constructs and analyze their expression in transgenic mice. As time and budgetary constraints allow, they will also learn and implement the microinjection technique itself. Estimations of salary, supplies, and animal care expenses include an allowance of 6% per year for inflation.

The P.I. enjoys a close association with two laboratories within the department that have well-established track records in transcription factor characterization and purification. Dr. Ronald Reichel, an official collaborator, works extensively with adenovirus transcription factors. Dr. Samson Jacob's laboratory has an extensive history and success with the purification of transcription factors associated with pol I genes, including the recent purification of the first species-specific transcription factor. Their expertise nicely complements the P.I.'s proven abilities in the analysis of gene expression and generation of transgenic animals.

The services of departmental secretaries are available to the P.I., as well as a staffed departmental dishroom. A staffed computer center, DNA synthesis core facility, protein sequencing core facility, full-service library with a Learning Resource Center, a photography service center, and facilities engineering staff are available within the building as needed.