

## **BIOGRAPHICAL SKETCH**

**Principal Investigator :** Milan K. Bagchi  
**Position Title:** Staff Scientist  
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### **Education:**

1976 Bachelor of Science in Chemistry, University of Calcutta, India  
1979 Master of Science in Biochemistry, University of Calcutta, India  
1984 Ph.D. in Biochemistry and Molecular Biology  
University of Nebraska, Lincoln, NE

### **Research and Professional Experience:**

1980-1984: Graduate Research / Teaching Assistant, Department of Chemistry,  
University of Nebraska, Lincoln, Nebraska  
1985-1989: Postdoctoral Fellow, Department of Cell Biology,  
Baylor College of Medicine, Houston, Texas  
1990-1991: Instructor, Department of Cell Biology,  
Baylor College of Medicine, Houston, Texas  
1992-Present: Staff Scientist, The Population Council,  
Center for Biomedical Research, New York, NY  
1992-Present: Adjunct Assistant Professor, The Rockefeller University, New York, NY

### **Honors and Awards:**

Griff T. Ross Award for Reproductive Endocrinology by The Endocrine Society in 1990.

**Publications:** Total of 27, 17 are listed below.

### **Publications related to the proposed project:**

1. **M. K. Bagchi**, S. Y. Tsai, M.-J. Tsai, and B. W. O'Malley, Purification and characterization of chicken ovalbumin gene upstream promoter transcription factor from homologous oviduct cells. **Mol. Cell. Biol.** 7: 4151-4158, 1987.
2. S. Y. Tsai, H. Wang, L.-H. Wang, I. Sagami, **M. K. Bagchi**, M.-J. Tsai, and B. W. O'Malley, A novel transcription factor which binds to the chicken ovalbumin upstream promoter sequence. **UCLA Symposia on Mechanism of Control of Gene Expression** 67: 137-153, 1987.
3. **M. K. Bagchi**, J. F. Elliston, S. Y. Tsai, D. P. Edwards, M.-J. Tsai, and B.W. O'Malley, Steroid hormone-dependent interaction of human progesterone receptor with its target enhancer element. **Mol. Endocrinol.** 2:1221-1229, 1988.

4. M.-J. Tsai, S. Y. Tsai, L. Klein-Hitpass, **M. K. Bagchi**, J. F. Elliston, J. Carlstedt-Duke, J.-A. Gustafsson, and B.W.O'Malley, Cooperative interactions of steroid hormone receptors with their cognate response elements. **Cold Spring Harbor Symposia on Quantitative Biology** LIII: 829-833, 1988.
5. S. Y. Tsai, **M. K. Bagchi**, J. F. Elliston, N. L. Weigel, M.-J. Tsai, and B.W. O'Malley, Binding of progesterone receptor to GRE/PRE. **UCLA Symposia on DNA-Protein Interactions in Transcription** 95: 243-257, 1988.
6. M. Pastorcic, **M. K. Bagchi**, S. Y. Tsai, M.-J. Tsai, and B. W. O'Malley, Multiple protein binding sites within the ovalbumin gene 5'-flanking region. **Nucl. Acids Res.** 17: 6693-6711, 1989.
7. **M. K. Bagchi**, S. Y. Tsai, M.-J. Tsai, and B. W. O'Malley, Progesterone-dependent cell free transcription: Identification of a functional intermediate in receptor activation. **Nature** 345: 547-550, 1990.
8. **M. K. Bagchi**, S. Y. Tsai, N. L. Weigel, M.-J. Tsai, and B. W. O'Malley, Regulation of in vitro transcription by progesterone receptor: Characterization and kinetic studies. **J. Biol. Chem.** 265: 5129-5134, 1990.
9. **M. K. Bagchi**, S. Y. Tsai, M.-J. Tsai, and B. W. O'Malley, Progesterone enhances gene transcription by receptor free of heat shock proteins hsp90, hsp56 and hsp70. **Mol. Cell. Biol.** 11:4998-5004, 1991.
10. B. W. O'Malley, S. Y. Tsai, **M. K. Bagchi**, N. L. Weigel, W. T. Schrader, and M.-J. Tsai, The molecular mechanism of action of a steroid hormone receptor, In: **Recent Progress in Hormone Research**. Academic Press, Inc., New York, vol.47, pp 1-26, 1991.
11. **M. K. Bagchi**, M.-J. Tsai, B. W. O'Malley, and S. Y. Tsai, Analysis of the mechanism of steroid hormone-receptor-dependent gene activation in cell-free system. **Endocrine Rev.** 13: 525-535, 1992.
12. **M. K. Bagchi**, S. Y. Tsai, M.-J. Tsai, and B. W. O'Malley, Ligand and DNA-dependent phosphorylation of human progesterone receptor. **Proc. Natl. Acad. Sci. USA** 89: 2664-2668, 1992.
13. **M. K. Bagchi**, S. Y. Tsai, and M.-J. Tsai, In vitro reconstitution of progesterone-dependent RNA transcription in nuclear extracts of human breast carcinoma cells. In: **In vitro Transcription and Translation Protocols**, (M.J. Tymms, eds.), Humana Press Inc., Totowa, New Jersey, p 107-120, 1994.
14. **M. K. Bagchi**, Mechanisms of target gene activation by steroid hormone receptors: Insights from cell-free transcription systems. In: **Mechanism of Steroid Hormone Regulation of Gene Transcription**, (B. O'Malley and M. J. Tsai, eds) R. G. Landes Company/Biomedical publishers, Austin, Texas, p 60-66, 1994.
15. Y-Q. Ding, L-J. Zhu, **M. K. Bagchi**, and I. C. Bagchi, Progesterone stimulates calcitonin gene expression in the uterus during implantation. **Endocrinology**, 135, 2265-2274, 1994.
16. Y-Q. Ding, **M. K. Bagchi**, C. W. Bardin, and I. C. Bagchi, Calcitonin gene expression in the rat uterus during pregnancy. In: **Recent Progress in Hormone Research**, Academic Press, Inc., New York, vol 50, 1995 (in press).
17. G-X. Tong, M. Tanen, and **M. K. Bagchi**, Ligand modulates the interaction of thyroid hormone receptor  $\beta$  with the basal transcription machinery, **J.Biol.Chem.**, 1995 (in press).