

Curriculum Vitae

Dawn M. Ecker

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EDUCATION

2005 M.S., Biology
Worcester Polytechnic Institute, Worcester, MA

1991 B.S., magna cum laude, Microbiology/Biotechnology
Quinnipiac University, Hamden, CT

PROFESSIONAL EXPERIENCE

2007 – present Associate Consultant
BioProcess Technology Consultants, Inc., Acton, MA
Maintain several proprietary industry databases for internal/client based reporting and provide research support to senior consultants.

2005 – 2007 Research Fellow, Core Facility Manager, Research Laboratory Manager
University of Massachusetts, Amherst, MA
Supervised and facilitated day to day operation of the campus Genomics and Bioinformatics Facility, University Tick Diagnosis Service and population genetics research laboratory. Supervised student research, trained personnel and performed population genetics research.

2004 - 2005 Consultant
Crescent Innovations Inc., Worcester, MA
Manufactured, purified and performed *in vivo* testing of biopolymers.

2002 – 2004 Research Consultant
BioPharm Services Inc., Acton, MA
Maintained biopharmaceutical clinical trials database, assisted in development and administration of client driven marketing surveys and generated client data via proprietary bio-economic models.

2002 – 2003 General Manager
Capsule Technologies, Inc., North Grafton, MA
Optimized and scaled-up client's manufacturing and purification processes for recombinant products produced in *E. coli*, yeast and mammalian cell culture.

- 1997 – 2002 Research Associate III
Phytera, Inc., Worcester, MA
Conducted *in vitro* and *in vivo* pre-clinical research and development of anti-infective agents.
- 1993 – 1997 Research Associate
BioHybrid Technologies, Inc., Shrewsbury MA
Conducted *in vitro* and *in vivo* research and development for creating artificial internal organs from allogeneic and xenogeneic tissues enclosed in immunoisolation devices.

SELECTED PATENTS AND PUBLICATIONS

- S.W. Yang, R. Ubillas, J. McAlpine, A. Stafford, D.M. Ecker, M.K. Talbot, and B. Rogers, “Three New Phenolic Compounds from a Manipulated Plant Cell Culture, *Mirabilis jalapa*.” *Journal of Natural Products*, 64, 313-7 (2001).
- M.K. Talbot, D.M. Ecker, “Methods for the Detection of Fungal Growth.” US Patent Application 20020028479, filed January 29, 2001.
- R.P. Lanza, D.M. Ecker, J. Ringeling, J.P. Marsh, W.L. Chick, “Devices for Providing Therapeutic Substances”. US Patent No. 6,287,558 issued September 11, 2001.
- R.P. Lanza, D.M. Ecker, W.M. Kuhlreiber, J.P. Marsh, J. Ringeling and W.L. Chick, “Transplantation of Islets Using Microencapsulation: Studies in Diabetic Rodents and Dogs.” *Journal of Molecular Medicine*, 77, 206-10 (1999).
- R.P. Lanza, W.M. Kuhlreiber, D.M. Ecker, J.P. Marsh and W.L. Chick, "A Simple Method for Xenotransplanting Cells and Tissues into Rats Using Uncoated Alginate Microreactors." *Transplantation Proceedings*, 28, 835 (1996).
- R.P. Lanza, W.M. Kuhlreiber, D.M. Ecker, J.P. Marsh and W.L. Chick, "Xenotransplantation of Bovine Islets into Dogs Using Biodegradable Injectable Microreactors." *Transplantation Proceedings*, 28, 820 (1996).
- R.P. Lanza, D. Ecker, W.M. Kuhlreiber, J.E. Staruk, J. Marsh and W.L. Chick "A Simple Method for Transplanting Discordant Islets into Rats Using Alginate Gel Spheres." *Transplantation*, 59, 1485-7 (1995).
- R.P. Lanza, W.M. Kuhlreiber, D. Ecker, J.E. Staruk and W.L. Chick "Xenotransplantation of Porcine and Bovine Islets without Immunosuppression Using Uncoated Alginate Spheres." *Transplantation*, 59, 1337-84 (1995).