

**CURRICULUM VITAE**  
**Dr. Edward Timothy Davies**  
**Director, Bioexpression & Fermentation Facility**



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**Education**

**October 1991** – University of Manchester Institute of Science and Technology  
**December 1995** Department of Chemical Engineering  
**Ph.D. “Optimization of reductive biotransformations by the acetogenic anaerobe *Acetobacterium woodii* DSM 1030”**

**October 1987** - Queen Mary and Westfield College, University of London  
**June 1990** Three year full time degree course  
**DEGREE AWARDED: Honours Microbiology, Class 2i**  
Honours Thesis: Effect of lactic acid bacteria on whisky fermentations

**Courses**

**2001-02** UGA Leadership Series, University of Georgia, USA  
**1998** Fermentation methods and scale up strategy, Pennsylvania State University, USA  
**1997** Protein crystallography, University of Georgia, USA  
**1996** Inorganic biochemistry summer workshop, University of Georgia, USA  
**1994** SERC graduate school - Management, communication and interactive skills.

**Employment History**

**August 2001 – Present** University of Georgia, Athens, GA, USA  
**Director, Bioexpression & Fermentation Facility**

**March 2003 – Present** Downstream Biotech Consulting, Inc., Athens, GA, USA  
**Consultant**

**October 2003 – Present** Green Biologics, Ltd., Oxford, UK  
**Non-Executive Director**

**June 2005 – Present** Microvi Biotech, Inc., Overland Park, KS, USA  
**Scientific Advisory Board Member**

**1998 – 2001** Aureozyme, Inc.  
**Consultant**

**1996 – 2001** University of Georgia, Athens, Ga, USA  
**Postdoctoral Research Associate, Dept. of Biochemistry and Molecular Biology.**

**1991** University of Manchester Institute of Science and Technology  
**Research Assistant, Dept. of Chemical Engineering.**

**1990** Royal Veterinary College, University of London, UK  
**Research Technician, Department of Parasitology.**

**Selected Lectures / Conference Responsibilities**

- 2008 IFPAC, Baltimore, MD, invited speaker  
 2007 Applied Biosystems, fermentation workshop convenor  
 2007 Southeastern Biofuels Conference, Tifton, GA, Invited Speaker  
 2006 Society for Industrial Microbiology Annual Meeting, Baltimore, MD; workshop faculty  
 2005 10<sup>th</sup> Aachen Membrane Colloquium, Aachen, Germany, Invited Speaker  
 2004 Society for Industrial Microbiology Annual Meeting, Anaheim, CA; Session Convener  
 2004 National Institute for Environmental Health Science; Invited speaker  
 2002 Society for Industrial Microbiology Annual Meeting, Philadelphia, PA; Session Convener  
 2001 Dept. of Biochemistry & Molecular Biology, UGA; Invited speaker  
 1994 International Conference on Bioprocess Engineering, Cuernavaca, Mexico; Speaker  
 1994 Society for General Microbiology 128<sup>th</sup> General Meeting, Cambridge, UK; Speaker  
 1993 6<sup>th</sup> European Congress on Biotechnology, Florence, Italy; Speaker

**Awards and Grants**

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|--------------|---|-------------|
| 2008         | Georgia Research Alliance Special award                                       | \$1,000,000 |
| 2007         | NSF SBIR grant reviewer   |             |
| 2006-present | Member, Board of Directors, Biotechnology Program, Athens Technical College   |             |
| 2007-present | Member, Board of Directors, Biotechnology Program, Gwinnett Technical College |             |
| 2007-2010    | Member, Program Committee, Society for Industrial Microbiology                |             |
| 2003         | Georgia Research Alliance Innovation Grants Program                           | \$89,000    |

**Patents**

- Li, X.-L.; Ljungdahl, L.G.; Azain, M.J.; Shah, A.; Davies, E.T.; Blum, D.L.; Kataeva, I. (2003). Phenolic acid esterases, coding sequences and methods. US Patent number 6602700.

**Publications**

- Davies, ET, Tellez, M and Unger, M. (2005). "Pichia pastoris and E. coli cross flow filtration and system bioreduction." Proceedings of the 10<sup>th</sup> Aachen Membrane Colloquium.
- Davies, E.T. & Stephens, G.M. (1998). "Effect of growth substrate and electron donor on hydrogenation of carbon-carbon double bonds by *Acetobacterium woodii*." Enzyme and Microbial Technology, **23**, 129-132
- Gollin, D.; Li, X.-L.; Liu, S.-M.; Davies, E.T. & Ljungdahl, L.G. (1998). "Acetogenesis and the primary structure of the NADP-dependent formate dehydrogenase of *Clostridium thermoaceticum*, a tungsten-selenium-iron protein." In "Studies in Surface Science and Catalysis **114** – Advances in Chemical Conversions for Mitigating Carbon Dioxide, Proceedings of the Fourth International Conference on Carbon Dioxide Utilization, Kyoto, Japan, September 7-11, 1997". pp303-308. Elsevier Science B.V.
- E.T. Davies & G.M. Stephens (1996) "Efficient mediator-independent hydrogenation of carbon-carbon double bonds using the obligate anaerobe, *Acetobacterium woodii*, with fructose as an electron donor" Applied Microbiology and Biotechnology **46**, 615-618
- E.T. Davies & G.M. Stephens (1994) "Optimization of cell harvesting and assay procedures for reductive biotransformations in obligate anaerobes" pp 495-499. In: Advances in bioprocess engineering. E. Galindo & O.T. Ramirez (eds.). Kluwer Academic Publishers, Dordrecht
- Debreczeny, M.P. & Davies, E.T. "On-Line, Non-Invasive Optical Density Measurement in Batch and Fed-Batch Processes". Manuscript in preparation

Also 15 poster presentations at international conferences, 1992-2007