

## **Curriculum Vitae Patricia M. Seymour**

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### **EDUCATION**

1993 M.B.A, Health Care Administration, cum laude  
Boston University, Boston, MA

1986 B.S., General Science, Minor, Business Administration  
Villanova University, Villanova, PA

### **PROFESSIONAL EXPERIENCE**

2006 – Present Senior Consultant (2007-pres)  
Consultant (2006-2007)  
BioProcess Technology Consultants, Inc., Acton, MA  
Technical operations and business consulting to the biopharmaceutical industry;  
specific expertise in project management, outsourcing, supply chain management,  
and business development

2001 – 2006 Senior Director, Global Investigational Supply Operation (2003 – 2006)  
Director, Product Sourcing (2001-2003)  
Millennium Pharmaceuticals, Inc., Cambridge, MA  
Led Supply Operations and Outsourcing function supporting multiple clinical  
development candidates

1997 –2001 Director, Business Development  
Covance Biotechnology Services Inc., Research Triangle Park, NC  
Negotiated and closed investigational and commercial bio-manufacturing  
contracts for contract manufacturing organization

1993 – 1997 Senior Director, Corporate Development (1995-1997)  
Director, Corporate Development (1994-1995)  
Manager, Biotechnology Services (1993 -1994)  
Collaborative BioAlliance, A Collaborative Group Company  
Developed strategic plan, corporate outgrowth, sales and marketing program for  
new business entity of contract bio-manufacturing

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- 1990 – 1993            Research Associate  
ImmunoGen, Inc., Cambridge, MA  
Performed in vivo/vitro assays to assess effects of immunoconjugates targeted against multiple forms of cancer
- 1989 – 1990            Research Associate  
Dana Farber Cancer Institute, Boston, MA  
Performed basic research activities involving T-cell receptor maturation (Cox Terhorst Lab)
- 1988 – 1989            Research Associate  
Sloan Kettering Institute, New York City, NY  
Performed in vivo/vitro assays to assess effects of M-CSF and GM-CSF against neuroblastoma (Nai-kong Cheung Lab)

**AWARDS AND HONORS**

- 1996                    HELIX Award (now known as James D. Watson Helix Award) from BIO  
1986                    Phi Beta Kappa, Villanova University

**PROFESSIONAL ASSOCIATIONS**

The Association for Operations Management (APICS)  
International Society of Pharmaceutical Engineering (ISPE)  
Parenteral Drug Association (PDA)

**SELECTED PRESENTATIONS**

- “Strategies for CMC Excellence: Playbooks for Product Development from First in Human through Commercialization,” presented at IBC Antibody Development and Production, San Diego, CA (2007).
- “Supplier/Sponsor Relationship: How to Get it Right From the Beginning,” presented at IQPC Contract Manufacturing Forum, San Diego, CA (2006).
- “Successfully Managing Biopharmaceutical Manufacturing Outsourcing,” workshop conducted at IQPC Contract Manufacturing Forum, San Diego, CA (2006).
- “Supplier Management: How to Choose, Negotiate with and Manage your Supplier Pool,” presented at IBC BioPharm Outsourcing, San Diego, CA (2006).
- “Balancing a Portfolio of Manufacturing In-house and Outsourcing,” presented at bioLogics Asia, Singapore (2004).
- “Biopharmaceutical Manufacturing Strategies: Choosing the Right Strategy for the Product and the Company,” presented at BIO2004, Philadelphia, PA (2004).

“EU Clinical Trial Directive,” presented at IBC Scaling-up of Pharmaceutical Products, Boston, MA (2004).

“Effectively Collaborating With Suppliers to Achieve Manufacturing Excellence,” presented at WBR/Pharmaceutical Manufacturing, San Diego, CA (2003).

“Contractual Negotiation in Pharmaceutical Outsourcing Relationships,” presented at Barnett Outsourcing, Philadelphia, PA (2003).

“Building Versus Buying Manufacturing Capacity,” presented at IBC Conference (2002)

“Strategic Outsourcing: How to Make it Part of Your Manufacturing Strategy,” presented at IBC Conference (2001).

“Strategic Outsourcing: How to Make it Part of Your Manufacturing Strategy,” presented at BIO 2001, Washington, DC (2001).

“The Use of Contract Manufacturing Services for Production of Therapeutic Proteins for Clinical Supply: Ensuring Success in a CMO Contractual Agreement,” presented at Drug Information Association, Chicago, IL (1999).

“Accelerating Time to Market through Use of Contract Manufacturing,” presented at International Business Communication (1997).

“To Be or Not To Be: The Question Surrounding a Contract Manufacturing Agreement,” presented at BIO1997 (1997).

“Customer Service in Contract Manufacturing,” presented at American Business Symposium (1999)

“Biotechnology in Consumer Products,” presented at BIO1996 (1996).

“Penetration of Raw Materials through the Stratum Corneum,” presented at Society of Cosmetic Chemists (1996).

“Biotechnology in Personal Care Products,” presented at California Society of Cosmetic Chemists, San Francisco, CA (1996).

“Quality in Manufacturing,” at FDA Symposium, Washington, DC (1996).

“Stimulation of Collagen Synthesis by Novel Raw Materials,” presented at Society of Cosmetic Chemists (1995) [awarded national best paper]

## **SELECTED PUBLICATIONS**

P.M Seymour, H.L. Levine, and S.D. Jones, “Successful CMO Selection: CMC Strategies for Outsourcing Biopharmaceutical Product Manufacturing,” Supplement to *BioProcess International* 26 – 29, (September 2006).

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Patricia M. Seymour

P.M. Seymour, and P. Galliher, "Building Versus Buying Manufacturing Capacity", *American Pharmaceutical Outsourcing*, (Jan/Feb 2002).

P.M. Seymour, "Controlled Delivery Systems", *Drug Delivery*, (September 1997).

P.M. Seymour, "NYS Helps Biotechnology", *BIO Newsletter*, (October 1996).

P.M. Seymour, "Controlled Delivery Systems", *Drug Delivery*, (September 1996).

P.M. Seymour, "Outsourcing and Contract Manufacturing", *BioPharm*, (February 1996).

P.M. Halloran-Seymour, "Careers and the MBA", Adams Career Group, *Opportunities for MBAs in the Biotechnology Industry*, (September 1995).

P.M. Halloran-Seymour, and J. Hayward, "Fast Track Application for Biotechnology Products", *BT Catalyst*, (August 1995).

P.M. Halloran-Seymour, "Contract Manufacturing", *BioPharm*, (July 1995)

S.A. Shah, P.M. Halloran (Seymour), C.A. Ferris, B.A. Levine, L.A. Bourett, V.S. Goldmacher and W.A. Blattler, "Anti-B4-blocked Ricin Immunotoxin Efficacy in Four Different SCID Mouse Tumor Models", *Cancer Research* 53: 1360-1367 (1993)

S.G. Beck, P.M. Halloran (Seymour), "Imipramine Alters Beta-Adrenergic, but not Serotonergic, Mediated Responses in Rat Hippocampal Pyramidal Cells", *Brain Research* 504: 72-81, (1989)