Thomas N. Feinberg, Ph.D.
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Chapel Hill, NC 27516
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SUMMARY	Results-oriented Research and Development Executive with particular emphasis on Analytical Development and recognized expertise in Extractables and Leachables				
CAPABILITIES	 CMC Documentation Review Analytical Development Program Management Analytical Method Remediation / Gap Analyses Extractables and Leachables Project Design / Project Management OOS Investigation Documentation / Root Cause Analyses Form 483 Response Preparation / Project Management Pharmaceutical Technology Assessments Technical Data Audit Support / Data Integrity Evaluations Contract Analytical Service Vendor Management / RFP Development Standard Operating Procedures / 21CFR 211 Compliance Computer System Validation / 21CFR Part 11 Compliance Breakthrough Lean Program Development Lean Sigma Project Sponsorship Laboratory and Quality Process Mapping Technical Staff Training Module Development / Deployment Technical Staff Organizational Design / Implementation 				
PROFESSIONAL EXPERIENCE					
2014-present	<u>President</u> SCIO Analytical, LLC				
	Provides expert consultation services to pharmaceutical manufacturers and prospective vendors into this regulated industry. Specialty in Extractables and Leachables testing program design/remediation, CMC documentation review, Data Integrity Audits and strategies for compliance with future world-wide regulatory initiatives.				
2012-2014	<u>Senior Director – Scientific Affairs</u> Development and Analytical Solutions Catalent Pharma Solutions, LLC				
	Conducted primary market research for contract analytical services, ve alliances and strategic acquisitions. PM for successful validation installation of proof-of-concept global LIMS (SQL*LIMS P4) and site's MHRA audit response. Designed and presented directly at FDA the analy platform strategy for the Advasept [®] sterile packaging format.				
2006-2012	<u>Director – Structural Chemistry</u> Development and Clinical Services Catalent Pharma Solutions, LLC				
	Directed Laboratory, Metrology, EH&S, and OpEx groups consisting of 50 technical staff. Sponsored first successful OpEx projects for facility including Breakthrough LEAN deployment to over 200 employees which doubled OTD and FPA in 6 months. PM for closure of San Diego facility which minimized cost and regulatory risk (including environmental assessments) to Catalent and clients.				
	Bass and Spangenberg v. Fresenius Kabi USA. LLC				

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200 <mark>4</mark> -2006	2004-2006 <u>Director – Analytical Services</u> Respiratory, Analytical and Biotechnology Services Cardinal Health, Pharmaceuticals and Technology Services			
	stability storage. Deve management process focus to improve repo	pulmonary CMC services including QC, st eloped and deployed career ladder and p to 120 technical employees. Implemen rt quality (First Pass Acceptance, FPA) a closure of Stockport, UK facility and tra to US sites.	ted metrics and on-time	
2001-2004	Associate Director - Stu Cardinal Health, Pharm	ructural Chemistry_ aceuticals and Technology Services		
	analysis (atomic spect protocols for stability member of PQRI Extra	eam leaders for mass spectrometry, trac roscopy), NMR, and degradation chemistr analysis per ICH and FDA requireme actables and Leachables in Orally Inhaled) WG. Doubled both revenue and operatin	y. Designed ents. Active d and Nasal	
1999-2001	<u>Section Head - Mass S</u> Magellan Laboratories,	pectrometry and Trace Organic Analysis Inc.		
	for MDIs, DPIs, Inhala Study Director for development, method	losure extractables and leachables contro tion Solutions, Parenterals, Injectables an over 50 GLP/GMP and ICH-complian validation and investigational projects. ficiency metrics and cost-containment so	nd Topicals. nt method Established	
1995-1999	<u>Scientist I - Scientist II</u> Magellan Laboratories,			
	product and drug s environment. Wrote SC Developed bioanalytic	d GC/MS studies for structural elucidati ubstance impurities/degradants in a DPs and instrument calibration procedures al methods for in vitro and in vivo so te over 30 submission-quality reports.	GLP/cGMP per cGMPs.	
1991-1995	Postdoctoral Research Departments of Chemis University of North Car	stry and Environmental Sciences and Engir	neering	
	carbonyls using CZE/ Designed new laser-	on methodology for trace detection of mul- UV/ESI mass spectrometry and ion tr based experiment to obtain accurate les and compared results to <i>ab initi</i> s.	ap GC/MS.	
EDUCATION 1991	of Cluster Ions"	istry I and Mass Analyzed Ion Kinetic Energy S olina at Chapel Hill, Chapel Hill, NC	pectroscopy	
1985	A.B. in Chemistry Cornell University, Itha	ca, NY		
AFFILIATIONS	PQRI, IPAC-RS, PDA, A	APS, ACS, ASMS, USP Expert Committee		

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SELECTED PUBLICATIONS Feinberg, T. "Extractables and Leachables: Best Practices to Ensure Patient Safety," Pharmaceutical Technology, July 2013

Jenke, D.; Castner, J.; Egert, T.; Feinberg, T.; Hendricker, A.; Houston, C.; Hunt, D.G.; Lynch, M.; Shaw, A.; Nicholas, K.; Norwood, D.L.; Paskiet, D.; Ruberto, M.; Smith, E.J.; Holcomb, F. "Extractables Characterization for Five Materials of Construction Representative of Packaging Systems Used for Parenteral and Ophthalmic Drug Products," PDA Journal of Pharmaceutical Science and Technology 2013, Volume 67

Feinberg, T. "Critical Design Strategies for Extractables and Leachables Control: Methods for Avoiding Contamination," Contract Pharma, April 2013

Feinberg, T.N.; Norwood, D.N.; Granger, A.T.; Jenke, D. "Extractables – The Controlled Extraction Study" in Leachables and Extractables Handbook: Safety Evaluation, Qualification, and Best Practices Applied to Inhalation Drug Products (D.J. Ball, D.L. Norwood, C.L.M. Stults, and L.M. Nagao, Eds), Chapter 14, January 2012

Norwood, D.N.; Feinberg, T.N.; Mullis, J.O.; Pennino, S. "Analytical Techniques for Identification of Extractables and Leachables" in Leachables and Extractables Handbook: Safety Evaluation, Qualification, and Best Practices Applied to Inhalation Drug Products (D.J. Ball, D.L. Norwood, C.L.M. Stults, and L.M. Nagao, Eds), Chapter 13, January 2012

Norwood, D.N.; Mullis, J.O.; Feinberg, T.N.; Davis, L.K. "N-Nitrosamines as "Special Case" Leachables in a Metered Dose Inhaler Drug Product," PDA Journal of Pharmaceutical Science and Technology 2009, Volume 63

Norwood, D.L.; Paskiet, D.; Ruberto, M.; Feinberg, T.; Schroeder, A.; Poochikian, G.; Wang, Q.; Deng, T.J.; DeGrazio, F.; Munos, M.K.; Nagao, L.M. "Best Practices for Extractables and Leachables in Orally Inhaled and Nasal Drug Products: An Overview of the PQRI Recommendations," Pharmaceutical Research 2008, Volume 25

WORKSHOPS "Extractables and Leachables Studies for Biological and Other 'High Risk' Dosage Forms," delivered at the Eastern Analytical Symposium, Somerset, NJ, November 2012

> "Best Practices for OINDP Pharmaceutical Development Programs Leachables and Extractables," delivered at the Product Quality Training Course Program, San Diego, CA, November 2007

> "Best Practices for OINDP Pharmaceutical Development Programs Leachables and Extractables," delivered at the Product Quality Training Course Program, Basel, Switzerland, September 2007

> "Best Practices for OINDP Pharmaceutical Development Programs Leachables and Extractables," delivered at the Product Quality Training Course Program, Chicago, IL, April 2007

SELECTED Feinberg, T.N. "Bridging the Divide: Use of Simulation Studies to Resolve the PRESENTATIONS Parenteral and Ophthalmic Drug Products (PODP) Analytical Challenge," presented at the USP/PQRI Joint Workshop on Suitability and Compatibility for Packaging and Delivery Systems Workshop Co-Sponsored by USP and PQRI, Rockville, MD, April 27-28, 2014

Feinberg, T.N. "What's good for OINDP (Orally Inhaled and Nasal Drug Products) may not be good for PODP," presented at the E&L USA Conference, Rockville, MD, May 16, 2012

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SELECTED PRESENTATIONS (continued)

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Feinberg, T.N. "Characterization of Trace Impurities Leaching from Pharmaceutical Packaging Systems" presented at 2011 Conference on Small Molecule Science, Chapel Hill, North Carolina, August 2-4 2011

Feinberg, T.N. "The Parenteral Ophthalmic Drug Product Leachables and Extractables Working Group: Status and Outlook" presented at International Pharmaceutical Aerosol Consortium-Regulatory Science 2011 Conference, Washington, D.C., March 29-31 2011

Feinberg, T.N. "Challenges and Best Practices in Extractable and Leachables" presented at 2009 Professional Dinner Meeting Series Parenteral Drug Association (PDA) West Coast Chapter, San Francisco, California, January 19 2009

SELECTED POSTERS Feinberg, T.N.; Hendricker, A.D.; Cvetich, P.; Tonkiha, N.; Covington, L.; Cree, M.; Lennon, III, J.D.; Carico, L.; Jenke, D.; Maniak, P.; Egert, T. "Controlled Extraction and Simulation Study Results," presented at the USP/PQRI Joint Workshop on Suitability and Compatibility for Packaging and Delivery Systems Workshop Co-Sponsored by USP and PQRI, Rockville, MD, April 27-28, 2014

> Hendricker, A.D.; Feinberg, T.N.; Tonkiha, N.; Covington, L.; Cree, M.; Cvetich, P.; Carico, L.; Lennon, III, J.D.; Castner, J.; Maniak, P.; Jenke, D. "Migration Study Test Results," presented at the USP/PQRI Joint Workshop on Suitability and Compatibility for Packaging and Delivery Systems Workshop Co-Sponsored by USP and PQRI, Rockville, MD, April 27-28, 2014

> Carroll, C.A.; Kolbert, A.C.; Feinberg, T.N. "Detection of Residual Solvents in a Large-Molecule API by 1H NMR Spectroscopy" presented at 2009 American Association of Pharmaceutical Scientists Meeting and Exposition, Los Angeles, California, November 7-12 2009

> Carroll, C.A.; DeRider, M.D.; Feinberg, T.N. "Detection of Adulterants in Raw Materials, Drug Substances, and Products by NMR Spectroscopy" presented at 2009 American Association of Pharmaceutical Scientists Meeting and Exposition, Los Angeles, California, November 7-12 2009

Carroll, C.A.; Kolbert, A.C.; Feinberg, T.N. "Determination of API:Counter Ion Ratio in Soft-Gelatin Capsules by Quantitative 13C Nuclear Magnetic Resonance (NMR) Spectroscopy" presented at 2008 American Association of Pharmaceutical Scientists Meeting and Exposition, Atlanta, Georgia, November 16-20 2008

Hendricker, A.D.; Deal, A.L.; Feinberg, T.N. "Case Study: Method Optimization and Extractables Characterization of Peroxide Cured Rubber" presented at the PQRI Leachables & Extractables Workshop, Bethesda, MD, December 5-6 2005