

PERSONAL INFORMATION:

Name	Theodore J. Baird, Ph.D., D.S.P.
Current Position	Principal Consultant, Managing Director Arcadia Preclinical Partners, LLC
Business Address	222 North Kalamazoo Mall, Suite 350 Kalamazoo, MI 49007

EDUCATION:

Postdoctoral Fellowship Department of Pharmacology	1998-2000	University of Michigan Ann Arbor, MI
Ph.D. Biological Psychology <i>Magna Cum Laude</i>	1998	University of Oklahoma Health Sciences Center Oklahoma City, OK
M.S. Biological Psychology <i>Magna Cum Laude</i>	1997	University of Oklahoma Health Sciences Center Oklahoma City, OK
Graduate Training Program Biological Psychology Training Program	1995-1998	University of Oklahoma Health Sciences Center Oklahoma City, OK
B.S. Psychology <i>Magna Cum Laude</i>	1995	Northern Michigan University Marquette, MI
Undergraduate Training	1989-1995	Central Michigan University Mt. Pleasant, MI Northern Michigan University Marquette, MI

POSITION SUMMARY:

Dr. Baird is Principal Consultant and Managing Director of Arcadia Preclinical Partners, a pharmacology and toxicology consultancy with specialization in cardiovascular and neurobehavioral sciences. Multispecies electrocardiology interpretation for studies conducted in the course of preclinical safety evaluation is also a specific point of expertise/focus within the suite of services offered. Ted has wide-ranging and deep industry experience, including 21 years in hands-on preclinical study/program design, management, and execution, as well as scientific interpretation and regulatory report writing. He has held scientific and overall leadership positions within the Contract Research arena for over 18 years, and has a proven track record of

partnering with clients to successfully navigate technical, logistic, regulatory and scientific aspects of program development. For additional details, please refer to “CAREER RANGE OF SCIENTIFIC ENGAGEMENT” section at the end of this document.

PRESENT POSITION:

Principal Consultant, Managing Director, Arcadia Preclinical Partners, LLC., November 2021 – Present.

PREVIOUS POSITIONS:

General Manager, Site Director, Charles River Laboratories (Mattawan, MI), December 2019 – August, 2021.

Senior Director, Safety Evaluation, Charles River Laboratories, April 2018 – December 2019.

Vice President, Safety Evaluation, MPI Research, Mattawan, MI. September 2016 – April 2018.

Adjunct Faculty, Biomedical Sciences Department, Western Michigan University; Kalamazoo, MI. February 2010 – April 2018.

Executive Director, Drug Safety, MPI Research, Mattawan, MI. March, 2015 – August 2016.

Senior Director of Safety Pharmacology and Neurobehavioral Sciences, MPI Research; Mattawan, MI. January 2008 – March 2015.

Director of Safety Pharmacology and Neurosciences; MPI Research, Mattawan, MI. November 2002 – 2008.

Principal Study Director, MPI Research (eventually to become Charles River Laboratories) March 2014 – December 2019.

Senior Study Director, MPI Research, Mattawan, MI, September 2006-February 2014

Study Director; MPI Research, Mattawan, MI. September 2000 – 2006.

Adjunct Assistant Professor; Department of Pharmacology and Toxicology, Michigan State University. East Lansing, MI. August 2003 – August 2005.

Postdoctoral Research Fellow; Department of Pharmacology, University of Michigan. Ann Arbor, MI. September 1998 – September 2000.

Adjunct Lecturer; Psychology Department, University of Michigan. Ann Arbor, MI. May 1999 – September 2000. Courses instructed include: *Biological Psychology (Psych 330)*, *Human Neuropsychology (Psych 345)*, *Laboratory Instruction in Behavioral Pharmacology (Psych 331)*, *Advanced Laboratory Instruction in Behavioral Pharmacology (Psych 505)*.

Graduate Research Assistant; Psychobiology Laboratory, University of Oklahoma Health Sciences Center. Oklahoma City, OK. August 1995 – August 1998.

Paraprofessional Counselor; Guidance and Counseling Center, Northern Michigan University. Marquette, MI. August 1992 – May 1994.

Research Assistant; Psychology Department, Northern Michigan University. Marquette, MI.
August 1992 – May 1995.

Teaching Assistant; Psychology Department, Central Michigan University. Mt. Pleasant, MI.
January 1990 – May 1990.

Teaching Assistant; Psychology Department, Northern Michigan University. Marquette, MI.
August 1992 – December 1994.

SOCIETY AFFILIATIONS:

American College of Toxicology (ACT)

Editorial Board, International Journal of Toxicology

Safety Pharmacology Society (SPS)

Editorial Board, Journal of Pharmacological and Toxicological Methods

ASET (American Society of Electroneurodiagnostic Technologists)

CERTIFICATIONS:

Diplomate of the Safety Pharmacology Society (DSP), 2013-Present

HONORS AND AWARDS:

20-year Service Award, MPI Research, 2020

Excellence in Peer-reviewed Publishing Award, MPI Research, 2013

Excellence in Peer-reviewed Publishing Award, MPI Research, 2010

National Institute on Drug Abuse (NIDA) Post-Doctoral Fellow, 1998 to 2000

NIDA Pre-Doctoral Fellow, 1996-1998

Outstanding Academic Achievement Award; Graduate Student Associate, University of
Oklahoma Health Sciences Center, 1998

Commendation of General Examinations Committee; Biological Psychology Graduate Program,
University of Oklahoma Health Sciences Center

Oklahoma Center for Neurosciences (OCNS), Provost Research Fellowship 1995

Jean M. Ruthford Scholarship for Outstanding Graduating Psychology Students; Psychology
Department, Northern Michigan University 1995

Jean M. Ruthford Scholarship for Outstanding Graduating Psychology Students; Psychology
Department, Northern Michigan University 1994

Board of Control Scholarship, Northern Michigan University 1992 – 1993

PRESENTATIONS/ ABSTRACTS:

1. Harter M., Dalton J., Gauvin D., Caruso M., Wilson B., **Baird T.** Strain and Sex Differences in Drug-Induced Central Nervous System Effects in Rats. Safety Pharmacology Annual Meeting, Barcelona, Spain, October 2019.
2. Gauvin, D. V., Z. J. Zimmermann, Yoder, J. D., Dalton, J. A., **Baird, T. J.**, and Kallman, M. J. Differential Temporal Response Patterns for Cocaine or Hydrocodone in Rat Self-Administration Studies. Annual Meeting of the Safety Pharmacology Society. Barcelona, Spain. September 2019.
3. Zimmermann, Z. J., Gauvin, D. V., Yoder, J. D., **Baird, T. J.**, Dalton, J. A., and Kallman, M. J. Drug Schedule Control Status Does Not Limit Profit Growth: Comparative 4-Year Analysis. Annual Meeting of the Safety Pharmacology Society. Barcelona, Spain. September 2019.
4. Zimmermann, Z. J., Yoder, J. D., **Baird, T. J.**, Gauvin, D. V., and Kallman, M. J. “Differential Temporal Response Patterns in Rat Cocaine Self-Administration Studies: The Cumulative Record Dose-Response Function”. Annual Meeting of the Safety Pharmacology Society. Barcelona, Spain. September 23-26, 2019.
5. **Baird T.J.**, Kilgus Q., Hutchins C., Holdsworth D., Tapp R., May J.R., Harter M.L., Gauvin D.V., Dalton J.A. Identification of NOEL and NOAEL in Functional Safety (Pharmacology) Studies: A Survey of a Contract Research Organization Master Schedule. (2017). Safety Pharmacology Annual Meeting, Berlin, Germany, September 2017.
6. **Baird, T.J.** Applicability and Actual Use of Concepts of NOEL and NOAEL in Functional Safety (Pharmacology) Studies. Joint (Northeast Regional) Meeting of the Safety Pharmacology Society and the Society for Toxicologic Pathology, Boston, MA May 2017.
7. **Baird, T.J.**, Zandee, J., Feldmann, J. Drug Development and SEND: Evolving Current Practices Toward Future Opportunities. Annual Meeting of the Society for Toxicology, Baltimore, MD, March 2017.
8. **Baird, T.**, Avery, J., VanHall, J., O’Donohue, K., Peet, M., Gauvin, D. Inter-individual Variability in ECG Interval Determinations in Gottingen Minipigs by Expert and Novice Evaluators. Presented at the annual meeting of the Safety Pharmacology Society, Vancouver, British Columbia, September, 2016.
9. **Baird, T.**, Folkema, J., O’Donohue, K., Dalton, J., Gesaman, J., Johnson, K., LaRocca, J., Merolla, L. Application of Telemetric Recording of Intrauterine Pressure in Rats as a Method to Investigate Mechanisms of Drug-induced Dystocia. Presented at the annual meeting of the Safety Pharmacology Society, Vancouver, British Columbia, September, 2016.
10. **Baird, T.**, Holdsworth, D., Gesaman, J., O’Donohue, K., Abernathy, M., Gauvin, D., Dalton, J. Evaluation of Three Alternative Surgical Placements for a Minimally Invasive Telemetry Device Implant in the Cynomolgus Monkey. Presented at the annual meeting of the Society for Toxicology. New Orleans, LA. March, 2016.

11. Abernathy, M., Goka, E., Carter, C., Aulbach, A., Patrick, D., **Baird, T.** Development of an Acute Renal Safety Model in Sprague Dawley Rats for Relative Evaluation of Platinum-based Therapeutics. Presented at the annual meeting of the Society for Toxicology. New Orleans, LA. March, 2016.
12. Greiter-Wilke, A., O'Donohue, K., Korner, A., **Baird, T.J.** Atrioventricular block in the Mauritian cynomolgus monkey—A not so uncommon arrhythmia? Presented at the annual meeting of the Safety Pharmacology Society, Prague, Czech Republic, September, 2015.
13. Dalton, J.A., Abernathy, M.M., O'Donohue, K., Gesaman, J., Harter, M., May, J. **Baird, T.J.** Alterations of the PR interval in chronically instrumented dogs and monkeys. Presented at the annual meeting of the Safety Pharmacology Society, Prague, Czech Republic, September, 2015.
14. Dalton J.A., Abernathy M.M., Harter M.L., May J.R., **Baird T.J.** Presence of Neuromuscular and Pulmonary Deficits in a Mouse Model of Pompe Disease. (2015). Safety Pharmacology Annual Meeting, Prague, Czech Republic, September 2015.
15. Abernathy, M.M., Dalton, J.A., Gauvin, D.V., and **Baird, T.J.** Use of Inulin and PAH for Renal Drug Safety Evaluations in Conscious Dogs. Presented at the annual meeting of the Safety Pharmacology Society, Prague, Czech Republic, September, 2015.
16. Gauvin, D.V., **Baird, T.J.** Challenges, Conundrums, and the “Catch-22” in Abuse Liability Testing for NDA Approvals: The bugaboo of biologics? Presented at the annual meeting of the Safety Pharmacology Society, Prague, Czech Republic, September, 2015.
17. Koch, A., Abernathy, M., Doan, A., Fill, K., Steffer, K., Konieczka, R., Yoder, J., Wilson, B., Robinson, T., and **Baird, T.** Anatomical Reference for Otic Structures in Common Laboratory Animals. Annual Meeting of the Association for Research in Otolaryngology. Baltimore, USA. Feb 2015.
18. Richardson, J., Yoder, J., Wilson, B., Abernathy., Konieczka, R., Tapp, R., Gauvin, D., **Baird, T.** Effect of Stimulus Filtering During intense Noise Exposure on Caspase-3 Expression and Cell Death in the Auditory Hair Cells of C57BL/6J Mice. Annual Meeting for The Society for Neuroscience, Washington D.C., USA. Nov 2014.
19. Yoder, J., Abernathy, M., Wilson, B., Tapp, R., Gauvin, D., **Baird, T.** Comparative Effects of Valium/Dexdomitor and Ketaset/Dexdomitor, on the Input-Output Characteristics of Auditory Brainstem Response Waveforms in Guinea Pigs. Annual Meeting for The Society for Neuroscience, Washington D.C., USA. Nov 2014.
20. **Baird, T.**, O'Donohue, K., Posthumus, T., Gauvin, D. Validation of Continuous Telemetric Electroencephalography (EEG) with Synchronized Behavioral Scoring in the Beagle Dog. Annual Meeting of the Safety Pharmacology Society. Washington D.C., USA. Oct 2014
21. Abernathy M. Yoder, J., Wilson, B., Richardson, J., Tapp, R., Gauvin, D., **Baird, T.** Influence of Stimulus Parameters and Stimulus and Speaker Calibration on Auditory Threshold Sensitivity. Presented at the annual meeting of the Safety Pharmacology Society. Washington, D.C., USA. Oct 2014.

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22. **Baird, T.**, Tapp, R., Abernathy, M., Dalton, J., Gauvin, D. Challenging Contemporary Status on Drug Safety Evaluation: A Case for the Implementation of Ototoxicity Screening in Toxicology Programs. Annual Meeting of the Safety Pharmacology Society. Washington D.C., USA. Oct 2014.
 23. **Baird, T.**, Abernathy, M. Challenging contemporary status on drug safety evaluation: A case for the implementation of ototoxicity screening in toxicology programs. Annual Meeting of the Society for Toxicology. Phoenix, USA. Mar 2014.
 24. Abernathy, M., Spitsbergen, J., Altschuler, R., **Baird, T.**, Miller, J., and Eversole, R. Time course characterization of the effects of systemic kanamycin on auditory inner hair cell ribbon synapse plasticity: evidence of aminoglycoside induced excitotoxicity. Annual meeting of the Society for Neuroscience. San Diego, USA. Nov 2013.
 25. Yoder, J., Abernathy, M., Wilson, B., Tapp, R., Gauvin, D., **Baird, T.** Comparative Effects of Valium/Dexdomitor and Ketaset/Dexdomitor, on the Input-Output Characteristics of Auditory Brainstem Response Waveforms in Guinea Pigs. Annual meeting of the Society for Neuroscience. San Diego, USA. Nov 2013.
 26. Wilson, B., Abernathy, M., Yoder, J., Koch, A., Bailey, K., Tapp, R., Gauvin, D., **Baird, T.** Effects of Paraformaldehyde on the Immunoreactivity and Fluorescence Intensity of Myosin Viia in Mouse Utricles. Annual Meeting of the Society for Neuroscience. San Diego, USA. Nov 2013.
 27. **Baird, T.J.**, O'Donohue, K., Posthumus, T., Ward, S., Eliel, M., Dalton, J.A., Gauvin, D.V. Essential Variability in Standard Clinical Pathology Biomarkers in Beagle Dogs Instrumented with Chronic Indwelling Telemetry Devices. Annual Meeting of the Safety Pharmacology Society. Rotterdam, Netherlands. Sept 2013.
 28. Tapp, R., Abernathy, M., Yoder, J., Wilson, B., Dolan, D., Gauvin, D.V., **Baird, T.J.** Evaluation of a Feline Model for Ototoxicity Testing. Annual Meeting of the Safety Pharmacology Society. Rotterdam, Netherlands. Sept 2013.
 29. O'Donohue, K., Posthumus, T., Eliel, M., Gauvin, D.V., Dalton, J.A., **Baird, T.J.** "Epicardial (EPI) and Intravascular (IV) Electrocardiogram (ECG) Signal Characteristics in Beagle Dogs: A Comprehensive 1-Year Review." Annual Meeting of the Safety Pharmacology Society. Rotterdam, Netherlands. Sept 2013.
 30. O'Donohue, K., Posthumus, T., Eliel, M., Gauvin, D.V., Dalton, J., **Baird, T.J.** Epicardial (EPI) and Intravascular (IV) Electrocardiogram (ECG) Signal Characteristics in Cynomolgus Monkeys: A Comprehensive 1-Year Review. Annual Meeting of the Safety Pharmacology Society. Rotterdam, Netherlands. Sept 2013.
 31. May, J., Dalton, J.A., Aulbach, A., Amuzie, C., Gauvin, D.V., Gesaman, J., Hermann, E., Denton, T., Posthumus, T., Cotey, N., **Baird, T.J.** Influence of Chronic Telemetry Instrumentation on Toxicological Biomarkers and Pathology in Cynomolgus Monkeys: A Comprehensive 1-Year Review. Annual Meeting of the Safety Pharmacology Society. Rotterdam, Netherlands. Sept 2013.
 32. Dalton, J.A., Aulbach, A., Amuzie, C., Gauvin, D.V., Gesaman, J., Hermann, E., Denton, T., Posthumus, T., Cotey, N., **Baird, T.J.** Influence of Chronic Telemetry Instrumentation

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- on Toxicological Biomarkers and Pathology in Beagle Dogs: A Comprehensive One-year Review. Annual Meeting of the Safety Pharmacology Society. Rotterdam, Netherlands. Sept 2013.
33. Harter, M., Haskell, M., Schrier, D., **Baird, T.J.** Integrated Toxicological and Safety Pharmacology Evaluation of a Novel Monoclonal Therapy for Ocular Disease in the Cynomolgus Monkey. Annual Meeting of the Safety Pharmacology Society. Rotterdam, Netherlands. Sept 2013.
 34. Abernathy, M., Wilson, B., Yoder, J., Tapp, R., Gauvin, D.V., **Baird, T.J.** “Predictive Models of Ototoxicity: Evaluation of the Suitability of Common Laboratory Species for Use on Auditory Drug Safety Studies. Annual Meeting of the Safety Pharmacology Society. Rotterdam, Netherlands. Sept 2013.
 35. Abernathy, M., Richardson, J., Wilson, B., Yoder, J., Tapp, R., Gauvin, D.V., **Baird, T.J.** Application of the Distortion Product Otoacoustic Emissions Assessment to Auditory Drug Safety Evaluations: High Throughput Auditory Screening and Impact on Drug Ototoxicity Characterization. Annual Meeting of the Safety Pharmacology Society. Rotterdam, Netherlands. Sept 2013.
 36. Gauvin, D.V., Dalton, J.A., McComb, M., Code, R., Eliel, M., **Baird, T.J.** Critical Issues in Dependence Liability Testing Under the FDA Draft Guidance Document. Annual Meeting of the Safety Pharmacology Society. Rotterdam, Netherlands. Sept 2013.
 37. **Baird T.J.**, O’Donohue K, Ward S, Eliel M.W., Dalton J.A., Gauvin D.V. Comparison of Telemetry Derived Epicardial and Intravascular Electrocardiogram Characteristics in Cynomolgus Monkeys. Annual Meeting of the Safety Pharmacology Society. Phoenix, AZ. Sept 2012.
 38. **Baird T.J.**, O’Donohue K, Posthumus T, Eliel M.W., Gauvin D.V., Dalton J.A. Comparison of Telemetry Derived Epicardial and Intravascular Electrocardiogram Characteristics in Beagle Dogs. Annual Meeting of the Safety Pharmacology Society. Phoenix, AZ. Sept 2012.
 39. Dalton J.A., Gauvin D.V., Gesaman J, Hermann E, Denton T, Ward S, **Baird T.J.** Influence of Telemetry Instrumentation on a Specific Set of Toxicological Biomarkers in Cynomolgus Monkeys. Annual Meeting of the Safety Pharmacology Society. Phoenix, AZ. Sept 2012.
 40. Dalton J.A., Gauvin D.V., Gesaman J, Hermann E, Denton T, Posthumus T, Cotey N, **Baird T.J.** Influence of Telemetry Instrumentation on a Specific Set of Toxicological Biomarkers in Beagle Dogs. Annual Meeting of the Safety Pharmacology Society. Phoenix, AZ. Sept 2012.
 41. Holdsworth D.L., O’Donohue K, Dalton J.A., **Baird T.J.** Incidence of Ventricular Arrhythmia in Cynomolgus Monkeys Instrumented with Intra-ventricular Pressure Transducers: A One Year Review Post-Implantation. Annual Meeting of the Safety Pharmacology Society. Phoenix, AZ. Sept 2012.

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42. Abernathy M, Tapp R, Yoder J, Gauvin D.V., **Baird T.J.** Influence of Collection Site on Cochlear Perilymph Sample Volume. Annual Meeting of the Safety Pharmacology Society. Phoenix, AZ. Sept 2012.
 43. Abernathy M, Tapp R, Yoder J, Koch A, Gauvin D.V., **Baird T.J.** Age-Related Hearing Loss in the C57BL/6N Mouse: Time Course Analysis of Auditory Function with Implications for Auditory Safety Study Design. Annual Meeting of the Safety Pharmacology Society. Phoenix, AZ. Sept 2012.
 44. **Baird T.J.**, O'Donohue K, Johnson M. Evaluation of Electrocardiographic Analysis Routines to Characterize Qualitative Changes Associated with Mesenchymal Stem Cell (MSC) Administration in a Porcine Model. TERMIS. Vienna, Austria. Sept 2011.
 45. **Baird T.J.** Functional Biomarkers in the Integrated Study Design: What Makes Sense and When? Annual Meeting of the American College of Toxicology. Nov 2011.
 46. Tapp R.L., Abernathy M.M., Yoder J.D., Sweet J, Koch A.A., Gauvin D.V., **Baird T.J.** Bilateral Cannulation of Guinea Pigs for Ototoxicity Studies Allows Evaluation of Potential Sympathetic Cochleolabyrinthitis of a Known Ototoxic Agent, Neomycin. Annual Meeting of the Society for Neuroscience. Washington, D.C. Nov 2011.
 47. **Baird T.J.** Preliminary Evaluation of TruData/TruSense System Performance. Annual Meeting of the Safety Pharmacology Society. Innsbruck, Austria. Sept 2011.
 48. **Baird T.J.** Long-term Consequences of Telemetry Implants in Canines: A focus on Toxicology Designs. Annual Meeting of the Safety Pharmacology Society. Innsbruck, Austria. Sept 2011.
 49. **Baird T.J.** Interpretation and Resolution of 'Intermediate Levels of Responding' on Abuse Liability Assays: A Case Study. Annual Meeting of the Safety Pharmacology Society. Innsbruck, Austria. Sept 2011.
 50. Abernathy M, Tapp R, Cole P, Yoder J, Koch A, Hedke C, Olsen-Urbanek A, Salinas J, Gauvin D, **Baird T.J.** Development of a Histopathological Evaluation Procedure for Preliminary Ototoxicity Screening in Guinea Pigs. Annual Meeting of the Safety Pharmacology Society. Innsbruck, Austria. Sept 2011.
 51. O'Donohue K, Holdsworth D, Tapp R, Harter M, May J, Abernathy M, Gauvin D, Dalton J, **Baird T.J.** A Step-Wise Approach to Quantitative Arrhythmia Assessment: A Multi-Species and Multi-Drug Validation. Annual Meeting of the Safety Pharmacology Society. Innsbruck, Austria. Sept 2011.
 52. Moddrelle D, Ward J, O'Donohue K, **Baird T.J.** A Modified Left Thoracotomy Approach for Enhancing ECG (P-Wave) Cycle Detection in the Cynomolgus Monkey. Annual Meeting of the Safety Pharmacology Society. Innsbruck, Austria. Sept 2011.
 53. Moddrelle D, Hermann E, Denton T, O'Donohue K, Gauvin D, Dalton J, **Baird T.J.** Comparison of Surgical Techniques for Implanted Telemetry Monitoring of Cardiorespiratory Parameters in Three Species. Annual Meeting of the Safety Pharmacology Society. Innsbruck, Austria. Sept 2011.

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54. **Baird T.J.**, O'Donohue K, Abernathy M, Gauvin D, Dalton J. Functional Evaluation of Impedance-Based Telemetric Respiratory Monitoring in Canine, Macaque and Miniature Swine. Annual Meeting of the Safety Pharmacology Society. Innsbruck, Austria. Sept 2011.
 55. Harter M, VanMiddlesworth J, O'Donohue K, Galbraith B, Gauvin D, Dalton J, **Baird T.J.** Functional Evaluation of a Novel Mouse Implant for Cardiovascular Assessment. Annual Meeting of the Safety Pharmacology Society. Innsbruck, Austria. Sept 2011.
 56. Abernathy M, Holdsworth D, O'Donohue K, Dalton J, Gauvin D, **Baird T.J.** Comparative Historical Cardiorespiratory Data Collected by Telemetry with Impedance in Swine, Canine, and Macaques. Annual Meeting of the Safety Pharmacology Society. Innsbruck, Austria. Sept 2011.
 57. Gauvin D, Dalton J, Code R, McComb M, **Baird T.J.** Abuse Liability Testing of Dihydrocodeinone in Sprague-Dawley Rats. Annual Meeting of the Safety Pharmacology Society. Innsbruck, Austria. Sept 2011.
 58. Tapp R, Abernathy M, Sweet J, Yoder J, Koch A, Gauvin D, **Baird T.J.** Bilateral Cannulation of Guinea Pigs for Ototoxicity Studies Allows Multiple Assessments and Reduction of Animals. Annual Meeting of the Safety Pharmacology Society. Innsbruck, Austria. Sept 2011.
 59. **Baird T.J.** ACT Course: Toxicology for Industrial and Regulatory Scientists. Safety Pharmacology Concepts and Practice. Falls Church, VA. May 2011.
 60. **Baird T.J.** Integration of Functional Safety Endpoints in Preclinical Toxicology Programs for Bio-Pharmaceuticals. Symposium: Key Factors to Consider in Preparation for the Conduct of Nonclinical Safety Assessment Studies for Biologic Products. Seoul, Korea. April 2011.
 61. Gizzi J, O'Donohue K, Grenwis J, Yoder J, Bogie H, **Baird T.J.** Validation of a Fully-Implantable Small Animal Infusion Model Involving Multi-Pressure Data Collection. Annual Meeting of the FASEB. Washington, D.C. April 2011.
 62. **Baird T.J.** Influence of External/Implantable Telemetry Instrumentation on In-Life and Post-Mortem Toxicology Endpoints. Data Sciences International-Sponsored Satellite Meeting, Innovations in Physiological Monitoring: New Methods and Combined Studies? Annual Meeting of the American Toxicology Society. Baltimore, MD. Nov 2010.
 63. Moddrelle D, O'Donohue K, **Baird T.J.** Possible Bupivacaine Related Cardio-Toxicity in the Non-Human Primate (NHP): A Post-Operative Review. Annual Meeting of the Academy of Surgical Research. Clearwater Beach, FL. Sept 2010.
 64. Dalton J.A., Moddrelle D.S., O'Donohue K.P., Galbraith B.M., Ward S.W., Abernathy M.M., Phillips A.L., **Baird T.J.** A Sub-Peritoneal Approach to Telemetry Implantation in Minipigs: Impact on Body Temperature and the QTc/CBT Relationship. Annual Meeting of the Safety Pharmacology Society. Boston, MA. Sept 2010.

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65. Hudson C.M., Harter M.L., **Baird T.J.** Developmental Assessment of the Electrocardiogram (ECG) in Juvenile Canines Using External Telemetry and Moxifloxacin. Annual Meeting of the Safety Pharmacology Society. Boston, MA. Sept 2010.
 66. **Baird T.J.**, Posthumus T.N., O'Donohue K.P., Moddrelle D, Burke C, Herrmann E, Marshall N, May J.R., Harter M.L., Holdsworth D.L., Gauvin D.V., Dalton J.A., Patrick D.J. Effects of External/Implantable Telemetry Instrumentation on Routine In-Life and Post-Mortem Toxicology Endpoints. Annual Meeting of the Safety Pharmacology Society. Boston, MA. Sept 2010.
 67. Holdsworth D.L., O'Donohue K.P., Smith Jr F.W.K., **Baird T.J.** Incidence of Arrhythmia in Cynomolgus Monkeys Instrumented for Telemetry with Epicardial (EPI) ECG Lead Orientation. Annual Meeting of the Safety Pharmacology Society. Boston, MA. Sept 2010.
 68. **Baird T.J.**, O'Donohue K.P., Posthumus T.N., Abernathy M.M., Glidewell T., May J.R., Harter M.L., Holdsworth D.L., Dalton J.A., Gauvin D.V. Influence of the Local Laboratory Environment and Selection of Telemetry Application on Quantitative ECG Sensitivity. Annual Meeting of the Safety Pharmacology Society. Boston, MA. Sept 2010.
 69. **Baird T.J.** Integration of Function Tests in Safety Evaluation: A Brief Historical Perspective, and Current Concern. Data Sciences International-Sponsored Event at the Annual Meeting of the Safety Pharmacology Society. Boston, MA. Sept 2010.
 70. Tapp R.L., Abernathy M.M., Yoder J.D., Koch A.A., Tack S.M., Voci N.N., Toman B.L., Cole P.I., Gregorich D.J., Gauvin D.V., **Baird T.J.** An Evaluation of Staining Procedures for Cytocochleogram Analysis of Middle Ear Organ of Corti Surface Preparations. Annual Meeting of the Safety Pharmacology Society. Boston, MA. Sept 2010.
 71. **Baird T.J.** A Guide to Issues Surrounding Integration of Functional Safety Endpoints in Preclinical Toxicology Programs. Meeting of the Midwest Association of Veterinary Pathology. Kalamazoo, MI. Aug 2010.
 72. Thorsrud B.A., Resendez J.C., Holdsworth D.L., Faqi A.S., **Baird T.J.** "A Comparative Evaluation of Cardiac Parameters of the Electrocardiogram (ECG) in Juvenile Beagle Dogs and Non-Human Primates." Annual Meeting of the Teratology Society. Louisville, KY. June 2010.
 73. **Baird T.J.** Electrocardiography: A Short History, Technical Considerations, and Applications in Preclinical Safety Research. Annual Meeting of the AALAS (District 5). Kalamazoo, MI. June 2010.
 74. Kostrub C.F., Dolan D.F., Altschuler R.A., **Baird T.J.**, Tapp R.L., Boggs J.A. Bruss J.B. Ototoxic Potential of ACHN-490 Compared to Gentamicin and Amikacin in the Guinea Pig. 20th European Congress of Clinical Microbiology and Infectious Diseases (ECCMID). Vienna, Austria. April 2010.
 75. Thorsrud B.A., Faqi A.S., Holdsworth D.L., **Baird T.J.** Comparative Analysis of Cardiac Rhythm and Quantitative Elements of the Electrocardiogram (ECG) in Juvenile and Adult Beagle Dogs. Annual Meeting of the Society of Toxicology. Salt Lake City, UT. March 2010.

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76. Faqi A.S., Resendez J.C., **Baird T.J.** Characterization of Baseline Cardiovascular Function in the Conscious, Freely-Moving, Juvenile Non-Human Primate. First Preclinical Studies Laboratory Symposium & Workshop, King Fahd Medical Research Center.” Jeddah, KSA. Feb 2010.
 77. **Baird T.J.** Safety Pharmacology: Origins, Contemporary Practice, and Future Issues in a Specialized Field of Drug Safety Evaluation. Presentation to the Graduate Faculty and Students of the Western Michigan University Biomedical Sciences Program. Kalamazoo, MI. Jan 2010.
 78. **Baird T.J.** An Introduction to Drug Abuse and Dependence Assessment. Presented as Part of Course #5, Drug Abuse and Dependence Assessment: Application of Neurobehavioral Sciences to Address Drug Safety Evaluation and Drug Control Policy. **Baird T.J.** (Chair), Gauvin D.V., Sapienza F.L. Annual Meeting of the American College of Toxicology. Palm Springs, CA. Nov 2009.
 79. Gauvin D.V., Yoder J, Dalton J.A., **Baird T.J.** Amphetamine- and Fentanyl-Induced Alterations in Rodent Pulmonary Function Assessed by Three Plethysmography Techniques. Annual Meeting of the Safety Pharmacology Society. Strasbourg, France. Sept 2009.
 80. **Baird T.J.**, Gauvin D.V., Yoder J, Dalton J.A. Acclimation to Pulmonary Plethysmographic Chambers: Where is the Point of Diminishing Returns? Annual Meeting of the Safety Pharmacology Society. Strasbourg, France. Sept 2009.
 81. Gauvin D.V., Yoder J, Dalton J.A., **Baird T.J.** Comparison of Three Plethysmography Techniques for Rodent Pulmonary Function Assessment Using PoNeMah Waveform Analysis. Annual Meeting of the Safety Pharmacology Society. Strasbourg, France. Sept 2009.
 82. Gauvin D.V., Code R, Dalton J.A., **Baird T.J.** GLP-Compliant Preclinical Assessment of the Reinforcing Properties of NCEs in the NHP. Annual Meeting of the Safety Pharmacology Society. Strasbourg, France. Sept 2009.
 83. **Baird T.J.**, May J, Ward S, Souers G, Dalton J.A., Gauvin D.V. Dose-Response Effects of Moxifloxacin on Myocardial Repolarization in Relation to Systemic Exposure in the Gottingen Minipig. Annual Meeting of the Safety Pharmacology Society. Strasbourg, France. Sept 2009.
 84. Holdsworth D.L., O’Donohue K.P., Smith Jr F.W.K., Tilley L.P., Abernathy M.M., Dalton J.A., **Baird T.J.** Prevalence and Challenges of Ventricular Arrhythmia Associated with Intraventricular Telemetry Instrumentation. Annual Meeting of the Safety Pharmacology Society. Strasbourg, France. Sept 2009.
 85. Abernathy M.M., Gauvin D.V., **Baird T.J.** Application of Plasma Sulphapyridine and Breath Hydrogen Assays to Measurement of Orocaecal Transit Time in Beagle Dogs. Annual Meeting of the Safety Pharmacology Society. Strasbourg, France. Sept 2009.
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 105. **Baird T.J.** Physiological Endpoints on Safety Pharmacology Studies: Determinants and Implications of What is Measured. Innovative Approaches to Safety Pharmacology Meeting. Philadelphia, PA. March 2004.
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CAREER RANGE OF SCIENTIFIC AND LEADERSHIP ENGAGEMENT:

Personally conducted and scientific peer reviewed more than 700 and 2000 studies, respectively, characterizing safety (and efficacy) across a broad range of preclinical safety areas. Most notably/routinely, these study sets included cardiovascular, central nervous system, and respiratory, renal and gastro-intestinal safety pharmacology, neurotoxicology, and acute and sub-chronic general toxicology studies in mice, rats, rabbits, guinea pigs, dogs, swine and/or non-human primates. Qualitative and quantitative electrocardiogram interpretation, scientific (primary investigator/internal scientist) writing and scientific peer review was routinely performed for over 18 years, with hundreds of main study reports and specialty sub-reports successfully submitted. Additional expertise is derived from over 18 years’ experience in the design, execution, interpretation and reporting of CVM studies, particularly target animal safety studies.

Study activities noted above were inclusive of, but not limited to, study design inception, protocol construction, study monitoring and oversight, data review and interpretation, report construction and scientific writing, issue/feedback resolution, and regulatory support of work within various contexts.

More than 90% of these studies, conducted in support of Sponsors’ drug development efforts, have been performed in full compliance with Good Laboratory Practice regulations, and cover a wide range of drug classes and therapeutic indications, including small molecules and biologics.

Dr. Baird’s career includes 18 years’ experience in scientific leadership (team management) roles, providing ongoing mentorship, training, guidance, and oversight of teams of scientists, study directors, anatomic and clinical pathologists, technical report writers, etc. Key

responsibilities in these roles also included oversight over broad aspects of Client advocacy, and accountable and reliable provision Test Facility institutional support.

REFERENCES:

Available upon request.

