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Leonard A. Speckin
Retired Document Analyst

Dr. George F. Jackson Ph.D.
Forensic Toxicologist

Michael P. Mulderig
Forensic Firearms
Ballistics Specialist

Michael J. Sinke
Retired Latent Print Specialist
Retired Crime Scene Reconstruction
Retired Forensic Document Analyst

Erich J. Speckin
Forensic Document Analyst
Ink Dating Specialist
Crime Scene Reconstruction

Anthony A. Milone
Computer & Graphics Specialist
Forensic Document Specialist

Robert Walker
Crime Scence Analyst
Forensic Firearm Expert

Juan Ruiz
Computer, Mobile Device Specialist

Thomas K. Huard Ph.D.
DNA Analyst & Consultant

Marshaun J. Blake
Arson Investigator
Vehicle Fire Specialist

Dr. Julie A. Howenstine
Serologist
DNA Analyst & Consultant
Crime Scene Reconstruction

MICHAEL A. W A G N E R Ph.D. F-ABFT

PROFESSIONAL PROFILE

STRATEGIC PLANNING / PROFESSIONAL LEADERSHIP / ORGANIZATIONAL DEVELOPMENT

PROVEN TRACK RECORD OF INNOVATIVE PROBLEM –SOLVING WITH APPLIED AND TECHNICAL EXPERTISE IN CLINICAL/FORENSIC TOXICOLOGY, PHARMACOLOGY, CASE INTEPRETATION, PLANNING, LOGISTICS MANAGEMENT STRONG & EFFECTIVE LEADERSHIP SKILLS WITH DEMONSTRATED ABILITY TO MAXIMIZE THE PERFORMANCE OF INDIVIDUALS AND TEAM TO ACHIEVE STATED ORGANIZATIONAL GOALS & OBJECTIVES, EDUCATOR BOTH IN THE WORKPLACE AND ACADEMIC SETTING – ORIGINAL CURRICULUM DESIGN, INTEGRITY, COMMITMENT

CORE COMPETENCIES

- Case Planning and Management
- Strategic Planning & Execution
- Policy Creation/Deployment
- Fiscal Management/Oversight
- Quality Assurance/Quality Control
- Process innovation/improvement
- Program Planning & Implementation
- Laboratory Transformation
- Personnel Supervision/Training
- Team Development/Mentoring
- Performance Review/Assessment
- Curriculum Development
- Clin/Foren Education & Management
- Research & Data Analysis
- Grant Research Writing
- Group Collaboration/Facilitation
- ADME-Bio-distribution / Human/Animal Models

EDUCATION

Postdoctoral Fellowship - Pathology - Pharmacogenetic Clinical Toxicology, Therapeutic Drug Monitoring/Forensic Toxicology
Pathology Dept.- Medical College of Wisconsin, Milwaukee WI

Ph.D. Bioanalytical/Bioinorganic Chemistry - Inorganic Division Department of Chemistry - Kent State University, Kent OH

Bachelor of Science Chemistry – University of Michigan, Ann Arbor MI

PROFESSIONAL EXPERIENCE

Speckin Forensic Laboratories

Toxicologist — **Present**

Witham Health Services

Laboratory Director – Laboratory Scientific, Physician, Personnel, Development/Management/Support — **11'2017-6'2023**

LabPro Inc.

Medical Director – Laboratory Development and Physician Support — **8'2015 – 12'2019**

Indiana University School of Medicine

Laboratory Director State Department of Toxicology — **7'2008 – 5'2010***

PROFESSIONAL EXPERIENCE (CONTINUED)

New Hampshire Department of Safety - Laboratory

Assistant Laboratory Director **2004 – 7'2008***

New Hampshire Dept. Health/Human Service Public Health Laboratory

Scientific Director **2001 – 2004***

Wagner and Associates

President and CEO – Clinical/Forensic and Environmental Toxicology, Laboratory Design and LIMS Development/Design **Present**

Indiana University School of Medicine

Clinical Associate Professor Department of Pharmacology/Toxicology **7'2008 – 7'2014***

Dartmouth Medical School

Adjunct Professor Department of Pathology (Research/Fellow/Resident training) **2003 – 2008***

Medical College of Wisconsin Pathology/Milwaukee Co. Medical Examiner's Office

Postdoctoral Pathology Fellow **2000 – 2001***
Pharmacogenetics, Clinical Toxicology,
Therapeutic Drug Monitoring & Forensic Toxicology
Faculty mentor: Dr. Steve H. Wong – Past President ADLM (AACC) 2015
Dr. Jeffrey Jentzen, MD, PhD – Past President NAME

***Denotes academic**

Administrative Accomplishments:

- Comprehensive evaluation of the laboratory performance (technical, infrastructure, logistics, financial and personnel)
- Oversaw all laboratory programs to support organizational goals and objectives; identified tangible program performance goals, developed successful reporting strategies, and determined data analysis points utilized to monitor success
- Maintain vigilance relative to laboratory innovations (service, technical and personnel development)
- Developed, directed and implemented performance improvement to target laboratory mission
- Converted case management/documentation from an outdated DOS and paper-based system to a reformatted computer system with integrated documentation format supporting a LIMS system.
- Restructured and developed Quality Control/Quality Assurance at the technical and administrative level integrating recognized best practices for conducting validated analytics testing and reporting
- Developed rapid response team peer review (and standard peer review) processes for high priority cases and/or addressing backlog both internal and external stake holders
- Establishing and managing department annual budget, equipment purchases launching progressive changes in technology and laboratory dynamics
- Laboratory design (multiple sites) from concept to fully operational innovative architectural concepts such as mobile modular stations and 3-D space development that increases per square foot operational efficiency
- Counseled, instructed, and disciplined staff members while promoting both individual and team strengths
- Developed the first interagency surveillance group for the purpose of information exchange (technology, policies, patient/case interpretations, and new drug/toxin patterns) between government agencies, medical institutions, and academic facilities

Technical Accomplishments:

- Critical logistic assessments of daily operations both internal as well as interdepartmental
- Capable of identifying and assessing operational errors instituting proven problem-solving solutions
- Critical assessment of laboratory analytical procedures for drugs and toxins and directly instituted/supervised comprehensive changes in all standard operating procedures (SOP's) with complete conversion of laboratory procedures in ten months

TECHNICAL ACCOMPLISHMEMENTS (CONTINUED)

- Laboratory accreditation programs JC/CAP/CLIA/COLA/ASCLAD-LAB/ISO-17025 States: New York, California, Florida, Maryland, New Jersey, Pennsylvania, and EPA
- Recognized competing technology convergence 15 years prior to laboratory vendors/end users. Began LCMS method development integrating current analytical techniques with updated technology such as ICP/MS and LC/MS^n
- **S**ubject matter expert regarding pharmacological/toxicological and analytical findings of drugs and toxins implementing a higher order of toxicological case interpretation including pharmacogenetics
- Managing high priority RFP priced point at millions of dollars; implemented advanced evaluation criteria, bid requirements, identified providers, secured bids and purchased 250 units prior to stated deadline
- Instituted electronic data management system (in house server), integrated tailored changes and modifications to existing LIMS, designed LIMS for specialized laboratory operations, eliminated manual data reduction while minimizing laboratory errors
- LIMS instituted and establishing operational procedures such as chain of custody and case documentation
- Medical legal curriculum developed for law enforcement and judicial system as the subject matter expert
- Applied fundamental principles of absorption, distribution, metabolism and elimination in case interpretation
- Experienced in laboratory techniques such as: Immunoassay, Colorimetric, Wet chemistry extractions, SPE (manual and automated), ICP-MS, LCMS^n, GCMS^n, GC-NPD, GC-FID, ECD and TCD (biological fluids and tissues, drugs, chemical agents/toxins), RT-PCR, Electrophoresis (Micellar Capillary), NMR 1D, 2D and 3D

Academic, Educational and Research Accomplishments:

- Course coordinator - 4yrs (Tox I G748 IUSM) and primary lecturer graduate/medical school curriculum (history, principles ADME, toxicokinetic, mechanisms and biotransformation. Team faculty lecturer 4yrs (Tox II G754 IUSM) subject matter expert blood, respiratory and liver toxicity. Team faculty lecturer 6yrs (Tox III G755 IUSM) subject matter expert clinical/forensic toxicology. Team faculty G747 IUSM principles of pharmacology subject matter expert pharmacogenetics
- Curriculum development IUPUI - (Indiana University Purdue University) Dept. of Chemistry – 496/696 Special Topics Principle of Chemical Analysis and Toxicology (NEW) Course; Director and Lecturer. The inaugural course focused on toxicology and was offered for the department
- Lecture Investigative Science Program (FIS 20600 IUPUI) concepts science - toxicology
- Developed an on-line training program (RTI grant funded) recertifying government personnel more efficiently & cost effectively
- Multiple presentations, trainings, and workshops (electronically, video and in person) national and international conferences, universities, law enforcement, and judicial
- ECHO-OUD (Extension for Community Healthcare Outcomes – Opiate Use Disorder)- Invited Faculty - IUSM
- ECHO-AUD (Extension for Community Healthcare Outcomes – Opiate Use Disorder)-Faculty, Subject Matter Expert and Mentor – IUSM
- Fairbanks Network of Addiction Expert – Board of Advisors (2008 – 2014)-IUSM Faculty/State Toxicologist IN.
- IRB training and review
- Research Selected:
    - DNA repair molecular mechanisms by cisplatin (and other Pt analogues) efficacy and targeted proteomic analysis to resistant ovarian cancer cell models and base pair analogues (HPLC, Electrophoresis-Micellar, NMS, ICP-MS)
    - Cytochrome P450 pharmacogenetic investigation of metabolic disorders related to opiate and synthetic drugs IUSM, NIDA, Mayo and Wake Forest (RT-PCR, GCMS and LCMS^n)
    - Pharmacogenetics involving antemortem/postmortem subjects and drugs associated with CYP450– 2D6 metabolism - opiates and tricylic antidepressants IRB approval (Forensic-FMLH01-118, HRRC 213-01)
    - Bio-distribution studies in rabbit animal models and human subject evaluations of tissue distribution including alternative matrices (oral fluid) correlated with physiological measurements
    - Biomonitoring Grant (only five states awarded) as Scientific Director – DHHS/Public Health Lab – Toxicology Scientific Inter/Intra departmental state agencies/academic (Dartmouth College)

Selected Honors/Awards, Journal Review Boards, Government Appointments and Scientific Societies:

- AACC Outstanding Speaker Award 2011
- Society of Forensic Toxicology – National Meeting Chair 2012
- Fellow – American Board of Forensic Toxicology (F-ABFT certification) 2014
- Journal of Medical Toxicology Distinguished Reviewer Award 2024
- Journal of Medical Toxicology, Journal of Analytical and Biological Chemistry, Journal of Analytical Toxicology
- National Safety Council-Alcohol Drugs and Impaired Division – Section Chair Social and Behavioral Studies
- Control Substance Advisory Committee Governor's Council – IN
- AACC (American Association Clinical Chemistry), SOFT (Society of Forensic Toxicology), MATT (Midwest Association of Therapeutic Drug Monitoring and Toxicology), IADTMCT (International Association of Therapeutic Drug Monitoring and Clinical Toxicology), IACT (International Association of Chemical Testing)

ADDENDUM:

Work Experience Environmental, Academic Courses & Teachings, Invited Speaker, authored Scientific Articles, Chapters, Abstract, Presentations and Mentoring professional/academic Graduate & Undergraduate CAP Stone mentoring**)**

Employment:

11' 2017 – 6'2023 Laboratory Director Witham Health Services – Toxicology Laboratory.

Responsible for the daily operations of laboratory services. Oversee personal, technical, financial and client interactions and development. Responsible for developing and maintaining laboratory testing readiness through instrumentation purchases/installations or upgrades, compliant scientific procedures and quality control/quality assurance that meet the scientific community's standard practice(s). Develop metrics to assess pre-analytical, analytical, and post-analytical performance measures. LIMS development and implementation. Provide clinical and medical legal interpretations (Pharmacological/Toxicological and Pharmacogenetics (when applicable)). Maintain/develop new accreditation and licensure programs to enhance Witham's laboratory capabilities (Clinical and Forensic toxicology services). **Grand Round presentations**; Laboratory Science, Service and Patient Care; Renewed Therapeutic Role of Psychoactive Drugs for Major Depressive Disorder/Clinical and Forensic Toxicology Implications; A New Treatment for MDD and "DXM" a Case of Drug Induced Psychosis Homicide.

Accreditation programs include **Joint Commission (JC)** and **College of American Pathology (CAP); Please see presentations '21-'23**

8' 2015 – 7'2019 Medical Director – LabPro Inc LLC

7444 W. Wilson Ave Harwood Heights IL 60706. Responsible for the overall operation of the lab and the competency of all laboratory personnel: Verify testing systems and methods (SOP's) provide quality laboratory services for pre- analytic, analytic, and post-analytic phases of testing including accuracy, precision, and other performance measures. Ensure that laboratory reports, case interpretations and client services meet the standard of care accepted by the scientific, forensic, and medical communities. Oversee (or designee) the hiring and internal/external professional development of the laboratory personnel, develop, and participate in proficiency testing and licensure secured and accreditation achieved: (**COLA/CLIA/CAP as well as; New York, California, Pennsylvania,** Maryland**, Florida, and** New Jersey's **Departments of Public Health**), comprehensively evaluate the laboratory performance. Continuing education of physician pain management and addiction centers.

Develop, purchase, budget and maintain the technology implemented in the laboratory, as well as new technologies integrated (Pain Management, Therapeutic Drug Monitoring, and Compliance Monitoring. Women Health/Infectious Disease and Pharmacogenetics). Analytical platforms: LCMSMS, EMIT, Quant Studio – TaqMan Gene Expression, Architect, Clinitek - Advantus, Dimension RXL, Dimension RXL Max, Microscan, Systemex CA- 500 and Systemex XS - 1000. Test volume 7 million plus test(s) conducted annually.

Guest Speaker: 2016 Bitter Pill: Rx Symposium – IN.gov "Crossroads between the Living and the Dead"

2008– July 2014 **Associate Professor - Indiana University School of Medicine, Department of Pharmacology-Toxicology and Department of Pathology Laboratory Medicine**

Research interests in the following areas: Neurological and cardiac toxicity as it relates to neurological receptors in the CNS, as well as potassium/calcium ion channel dysfunction (channelopathies) and prescription treatment for pain management - **methadone** as the drug model. The role pharmacogenetics plays in ion channel(s) formation (example the hERG gene) and CYP 450 metabolizing enzyme variants (therapeutic drugs and drugs of abuse). These linkage studies are designed to assist in determining at risk patients for cardiovascular, metabolic and/or neurological toxicity. Other areas of research involve metals (ex. Transitional and other elements) leading to tissue and neuronal damage. For example, chemotherapeutic agents such as Cisplatin and how the molecular mechanism establishes its efficacy. New research laboratory design (3D dimensional modular design incorporating ergonomics and energy efficient concepts). Thermo-ICP/MS, Thermo-LC/MS, Agilent GC/MS and LCMSMS, RT-PCR are available technologies. **Academics:** Course director and principal lecturer for Toxicology series. Curriculum topic covered **Mechanism of Toxicology, ADME of drugs and toxicants**, **biotransformation of Xenobiotics, Risk assessments**, Chemical Carcinogenesis and Genetic Toxicology.

Duties academic (service):
Providing test result interpretation(s) as requested
IRB review training/reviewer and teaching

Fairbanks Network of Addiction Expert – Board of Advisors
(2008 – 2014)

Teaching Academics:
IUSM

2009 G755 (Tox III): Clinical and Forensic Toxicology 1.5 hours
2010 G755 (Tox III): Clinical and Forensic Toxicology 1.5 hours
2011 G748, G754 and G755 (Tox I, II, and III) **Principle Coordinator**
G748 (Tox I): **Course Director and Instructor**
5-week course (8 of 10 lectures taught) 1.5 hours each
G754 (Tox II): Lecturer
5-week course (3 of 10 lectures taught) 1.5 hours each
G755 (Tox III): Lecturer
5-week course (1 of 10 lectures taught) 1.5 hours

IUPUI

2011 FIS 20600 Concepts Forensic Science: Lecturer 1 hour
2011 **496/696 Special Topics Principle of Chemical Analysis and Forensic Toxicology**: **Course Director and Lecturer (New Curriculum)**
17-week course 2.7 hours each

IUSM

2012 G748, G754 and G755 (Tox I, II, and III) **Coordinator**
G748 (Tox I): **Course Director and Instructor**
5-week course (8 of 10 lectures taught) 1.5 hours each

IUPUI

2012 FIS 20600 Concepts Forensic Science: Lecturer 1 hour
2012 **<u>496/696 Special Topics Principle of Chemical Analysis and Forensic Toxicology: NEW - Course Development, Director and Lecturer</u>**
17-week course 2.7 hours each
<u>Mentoring Capstone Program Project:</u> The detection and quantification of a neurotransmitter dopamine as it was expressed in C elegans. The goal focused on the initial stages of developing a GC/MS derivatized method that would allow for the identification and quantification of this neurotransmitter.

IUSM

2013 G748, G754 and G755 (Tox I, II, and III) **Coordinator**
G748 (Tox I): **Course Director and Instructor**
5-week course (8 of 10 lectures taught) 1.5 hours each
G747 Principles of Pharmacology: Lecture 1.5 hours
FIS 20600 Concepts Forensic Science: Lecturer 1.5 hour

IUSM

2014 G748 and G755 (Tox I + III)
G748 (Tox I): **Course Director and Instructor**
5-week course (8 of 10 lectures taught) 1.5 hours each

G755 Clinical and Forensic Toxicology – Instructor 1.5 hrs.

2015 G748 Pharmacokinetics/Drug Metab. - Instructor 1.5 hrs.

2016 G748 Pharmacokinetics/Drug Metab. – Instructor 1.5 hrs.

2017 Addiction Psychiatry Symposia – Department of Psychiatry IUSM – The New Psychoactive Drugs Scene a Clinical and Forensic Toxicology Perspective - Lecturer 1.0 hrs.

2018 PHAR F828 Principles of Pharmaceutical Toxicology in the 21st century - Instructor 1.5 hrs.

2018 Addiction Psychiatry Symposia – Department of Psychiatry IUSM – Ecstacy: A Retrospective Look – Where We've been and Where We are Now - Lecturer 1.0 hrs.

2019 G748 Forensic Toxicology – Lecturer 1.5 hrs.

2019 Addiction Psychiatry Symposia – Department of Psychiatry IUSM – Faculty attendee 16-week semester (flex) 1.0 hrs.

2020 G748 Forensic Toxicology – Lecturer 1.5 hrs.

2020 Addiction Psychiatry Symposia – Department of Psychiatry IUSM - The Drug Induced Psychosis - Homicide – Lecturer 1.0 hrs.

2021 Addiction Psychiatry Symposia – Department of Psychiatry IUSM – Jingle Bell Tox What Lab Testing Can-Can't Tell You – with updates from the Far Side Lecturer 1.0 hrs.

2021 G748 Forensic Toxicology – Lecturer 1.5 hrs.

2022 G748 Forensic Toxicology – Lecturer 1.5 hrs.

2023 G748 Forensic Toxicology – Lecturer 3.0 hrs.

2024 G748 Forensic Toxicology – Lecturer 3.0 hrs.

2008-May 2010 **Laboratory Director - Indiana State Department of Toxicology**

Responsibilities included managing a $2.4 million dollars' annual budget, purchasing equipment and validating instrument performance, directing method development, and implementing quality control/quality assurance in all phases of the laboratory. Directed the hiring of personnel for both laboratory and administrative staff. Supervised the implementation of electronic server storage data systems to facilitate data management and enhance data reporting. Prepared the laboratory for **ABFT/ASCLD-LAB-ISO 17025 accreditation** process. Responsible for training law enforcement, attorneys, other agencies, and university personnel regarding drug toxicity/fatalities. Created **ON-LINE re-certification course/program development NIJ funded (National Institute of Justice) – 700 end users annually**

Guest Lecturer:

2009 Depauw University - Drug Facilitated Sexual Assaults

2010 University of Chicago Pathology Department
Pathology Residents Training - Lecture Alcohol and Drugs of Abuse

Laboratory instrumentation: Immunoassay – biochip array, HPLC- UV/Vis, GC-FID, GC-MS, and LC-MSMS, Data Master-IR, and Intoximeter – IR/ECD.

2004-2008 **Assistant Laboratory Director**

New Hampshire Department of Safety/Forensic Laboratory
Concord, NH.

Responsibilities: Directing of personnel in three divisions that comprise the Toxicology Unit. The three divisions are Breath, Blood, and Urine Toxicology. Direct the implementation and operation of controlled and therapeutic drug testing in biological fluids. Certifying Scientist - providing expert witness testimony. Poison Control Center Toxicology casework support. Conduct research in applied pharmacogenetics (PGx) for toxicological interpretation (see below). Conduct research in alternative matrices (oral fluids) for interpreting pharmacological- toxicological information. Participate in Drug Recognition Expert (DRE) training events. Prepare lectures for Police Standard and Training (PS&T), local law enforcement, emergency, and judicial personnel. Laboratory instrumentation: ELISA-immunoassay, GC- FID, GC/MS, and Intoxilyzer-5000EN-IR. Developed the first interagency Grand Round between the Department of Health and Human Services Public Health Laboratory (DHHS), the Department of Safety (DOS), the Office of Chief Medical Examiner (OCME), the Dartmouth-Hitchcock Poison Control Center, (DHMC-PCC) and Drug Recognition Program – Police Standards/Training (DRE- PS&T). Grant supported work in conjunction with NIDA (National Institute of Drug Abuse), Mayo Clinic, Wake Forest University and other supporting forensic agencies investigating pharmacogenetics for a molecular autopsy in methadone related fatalities.

Guest Lecturer:

2007 Mayo Clinic "Drug induced Psychosis Homicide – DXM"

2003- 2008 **Adjunct Faculty**

Department of Pathology, Dartmouth Medical School
Hanover, NH.

Duties Academic (service):

Teaching lectures: Department of Pathology

Pathology Resident Training: **Drug metabolism and Pharmacokinetics;**
Therapeutic Drug Monitoring Drugs of Abuse (Blood/Urine); Analytical Techniques
Clinical/Forensic Toxicology; Alcohol Toxicology and Detection
Pharmacogenetics and Applied Pharmacology

Pathology Resident Internship: Two-week laboratory rotations

2001-2004 **Forensic Scientific Director – Department of Health and Human Services / Public Health Laboratory – Toxicology scientific**

development (methodologies/technology, training/certification, and education), certifying scientist – expert witness testimony, chemical terrorism methods development, administration/supervision of toxicology personnel/laboratory personnel. **Inter/intra departmental state agencies and academic (Dartmouth College) Biomonitoring Grant – awarded to only five states**

1999-2001 **Postdoctoral Fellowship - Pathology - Pharmacogenetics, Clinical Toxicology, Therapeutic Drug Monitoring and Forensic Toxicology**

Medical College of Wisconsin – Pathology Dept., Wisconsin Correctional System Facility, and Milwaukee County Medical Examiner's Office Milwaukee, WI.

Advisor(s): Steven H. Wong Ph.D. (currently - Department of Pathology Wake Forest University School of Medicine) Jeffrey M. Jentzen M.D. Ph.D. (currently - University of Michigan; Michigan Medicine Dept. of Pathology)

Duties included: Conducted research in the field of Pharmacogenetics, an interdisciplinary field that combines drug metabolism, toxicology, pharmacology, and genetics. Researched the bio-distribution of antidepressants via a rabbit animal model. Provided toxicological support for various departments: Nephrology/Transplant, Pain Management, and Emergency Medicine. Received breath alcohol certification (Alco-sensor IV) for workplace drug testing. Provided forensic toxicology support to the Office of Chief Medical Examiners' (OCME). Assisted in analytical testing and interpretation for determining cause and manner of death. Performed Quality Assurance/Quality Control reviews for the clinical toxicology laboratory, as well as the correctional laboratory facility. Additional academic duties included lectures, seminars, continuing education presentations, as well as mentoring students in toxicology, applied anatomy/physiology and pharmacology research.

Present **Wagner and Associates**

President and CEO

Providing services in environmental surveys, testing and consultation, clinical and forensic toxicology case interpretation, laboratory design and LIMS development

Education Graduate:

2000-2001 **Postdoctoral Fellowship** - Pathology - **Pharmacogenetics**, Clinical Toxicology, Therapeutic Drug Monitoring and Forensic Toxicology **Medical College of Wisconsin** – Pathology Dept., Wisconsin Correctional System Facility, and **Milwaukee County Medical Examiner's Office Milwaukee**, WI.

2000 **Ph.D**. Bioanalytical/Bioinorganic Chemistry-Inorganic Division

Kent State University

Department of Chemistry - Inorganic Division

Advisor: Dr. Rathindra Bose

Dissertation: The Separation and Characterization of Dinucleotide Atropisomers formed by the **Anti-tumor Drug Cisplatin** using Micellar Electrokinetic Capillary Chromatography

Academic Training:

2000-2001 Medical College of Wisconsin:
Post-Doctoral Pathology Fellow, **Pharmacogenetics**, Clinical Toxicology, Therapeutic Drug Monitoring and Forensic Toxicology

Forensic Research:
Pharmacogenetics involving antemortem/ postmortem subjects and drugs associated with CYP450 – 2D6 metabolism - opiates and tricylic antidepressants
IRB approval (Forensic-FMLH01-118, HRRC 213-01) Bio-distribution/Postmortem redistribution animal study Opiate Assay development

Forensic Research Techniques:
Molecular: DNA: PCR, RFLP; RT-PCR-Light Cycler
Analytical: GC/MS, GC, HPLC-UV/VIS, and ELISA

Clinical Research:
Immunosuppressant Assay development (Rapamycin and Mycophenolic Acid)

Clinical Research Techniques: Analytical: HPLC-UV/VIS

Clinical Training in Therapeutic Drug Monitoring:
Measuring peak and trough blood concentrations of antiepileptic, antipsychotic/antidepressant and pain medications:

Analytical: TDx-FPIA, Hitachi, Axsym-FPIA/MEIA, IMx- MEIA, Graphite Furnace-AA

Clinical Administrative Training:
Quality Control implementation and review
Dynacare Clinical Laboratories
Wisconsin Correctional System Laboratory

CAP certification program
On call service TDM/Toxicology/Emergency Toxicology
Breath Alcohol Certification and SOP implementation

Poison Control Center Training - Medical College of Wisconsin: Case review/toxicology support (on call) and assay development

Medical College of Wisconsin Administrative:
Instructor: Milwaukee County Medical Examiner's Office (MCMEO) continuing education series
Assistant advisor/mentor – **National Environmental Health Science Training Program**
Mentoring Graduate Students:
June-August 2000 Aja Gobar, Tougalo College
June-August 2001 Beza Getachew Marquette Universit

2000 Kent State University – Doctoral Candidate

Graduate Research: Bioinorganic/bioanalytical research
Administrative Training:
Graduate Student Fellow
Graduate Teaching Assistant

Administrative Committees:
President of the Chemistry Graduate Student Organization
Graduate Student Senator & Senator By- Laws-Committee

Instrumentation/Software Training: Varian 500 Oxford-NMR/UNIX Bruker 400-NMR/UNIX
Applied Biosystem (Perkin Elmer) – Capillary Electrophoresis/Turbochrom
Waters 515 HPLC/DOS

Academic Appointment:

2014 – Present Faculty IUPUI Department of Chemistry and Lecture IUSM Department of Pharmacology and Toxicology

2008 – July 2014 Associate Professor Department of Pharmacology and Toxicology and Department of Pathology and Laboratory Medicine – Indiana University School of Medicine (IUSM) – Indianapolis

2014 – Present Faculty Indiana University Purdue University and IUSM Lecturer

2003 – 2008 Adjunct Faculty Department of Pathology, Dartmouth Medical School - Hanover, NH

1997-1998 Wheeling Jesuit University
Instructor/visiting faculty: Analytical, Environmental, Instrumental Analysis, and General Chemistry
Administrative Training:
Curriculum development for environmental toxicology and implementation into the chemistry core curriculum

Government Appointments:

2008 – 2010 Controlled Substance Advisory Committee Governor's Council - Indiana
2008 – 2010 Indiana Criminal Justice Institute - CODES
Crash Outcome Data Evaluation Systems
2008 – 2010 Indiana Criminal Justice Institute – TRCC
Traffic Records Coordinating Committee
2023 National Safety Council – Alcohol Drugs and Impaired Division – Section Chair: Sociological and Behavioral Factors

Honors and Awards:

2024	**Journal of Medical Toxicology – Distinguished Reviewer**
2023	Society of Forensic Toxicology – Workshop(s) Co-Chair
2022	Medical Association of Forensic Science – Workshop Chair
2018	MATT Meeting Host Chair Committee - Indianapolis
2012	**AACC Outstanding Speaker Award 2011**
2012	**Society of Forensic Toxicology - National Meeting host chair**
2006–2007, '16	Society of Forensic Toxicology – Workshop(s) Co-Chair
2000	Society of Forensic Toxicology- Workshop Co-Chair

Journal Review Boards/Annual Meetings Abstract Review

2011 – Present	Journal of Medical Toxicology
2009 – Present	Journal of Analytical and Bioanalytical Chemistry
2008 – Present	Journal of Analytical Toxicology
2009 – Present	Clinical and Forensic News – Editorial Board Chairman
2009 – Present	American Association of Clinical Chemistry - AACC annual reviews – abstract
2008 – Present	Society of Forensic Toxicology – SOFT review – abstracts

Scientific Societies:

American Chemical Society
Midwest Association of Toxicology and Therapeutic Drug Monitoring
Society of Forensic Toxicology – Full member
Joint AAFS/SOFT Drugs and Driving Committee
National Safety Council Committee on Alcohol Drugs and Impaired Division (NSC-ADID)
International Association of Chemical Testing (IACT)
American Association of Clinical Chemistry
American Association of Forensic Science

Society Activities:

International Association of Therapeutic Drug Monitoring and Clinical Toxicology (IATDMCT)
7th International Congress of Therapeutic Drug Monitoring and Clinical Toxicology September 1-6, 2001
Invited Faculty – "Designer/Rave Party Drugs Workshop" Midwest Association of Therapeutic Drug Monitoring and Clinical Toxicology (MATT) 2001; 2015-2018
sMatterings Assistant Editor – newsletter
Society of Forensic Toxicology (SOFT) Annual Meeting
2000 - present
Co-chairman/Presenter Workshop
Scientific Review Board
Executive Organization Committee
Chairman-Accent Credit Committee
Chairman-Student Grant Committee
International Association of Chemical Testing (IACT)
Initiating a new breath test instrument State Department Breath Testing Program Dallas April 18th-22nd, 2010

Mentoring:

Program (Professional) participant names confidential:
SOFT (Society of Forensic Toxicology) Members 2020-2021:

X.X. B.Sc., D-ABFT-FT Toxicologist III Supervisor
X.X. Ph.D (MS/BS), D-ABFT-FT Assistant Professor;
former laboratory supervisor.
Topics: Technical topics regarding methods, method developments, integrating and organizing production vs development (forecasting), budgeting/financial, personnel evaluations, administrative integration, personnel development, and conflict resolution

Testimony: ~150-200 events including court room and depositions. Case contents ranged from driving intoxication, dram cases, medical malpractice, employment compliance, probation compliance, medical device misuse, medical malpractice, drug facilitated sexual assault, excessive force law enforcement, and drug induce psychosis homicide.

Bibliography: Book Chapter(s)

Pharmacogenomics and Proteomics Enabling the Practice of Personalized Medicine, Wong SHY, Linder MW, Valdes R Jr editors, American Association of Clinical Chemistry Inc. (ACC press) 2006, Chapter 30 Pharmacogenomics as an Aspect of Molecular Autopsy for Forensic Pathology/Toxicology pg. 311

Scientific Articles

1. Fang F, Munck J, Tang J, Taverna P, Wang Y, Miller DF, Pilrose J, Choy G, Azab M, Pawelczak KS, Vander Vere-Carozza P, Wagner M, Lyons J, Matei D, Turchi JJ, Nephew KP The novel, small-molecule DNA methylation inhibitor SGI-110 as an ovarian cancer chemosensitizer. Clin Cancer Res. 2014 Dec 15;20 (24):6504-16. doi: 10.1158/1078-0432.CCR-14-1553. Epub 2014 Oct 14.

2. Jessica Neal, Seiji Sugiman-Marangos, Pamela VanderVere-Carozza, Michael A. (Mike) Wagner, John Turchi, Susan Lees-Miller, Murray Junop, and Katheryn Meek "Unraveling the complexities of DNA-PK autophosphorylation." Molecular and Cellular Biology. MCB01554-13_Mol Cell Biol. 2014 Jun;34(12):2162-75. doi: 10.1128/MCB.01554-13. Epub 2014 Mar 31.

3. Wagner MA, Moran JH, and Patton AL Acetyl Fentanyl "New Heroin" Leads to Opiate Fatalities Clinical and Forensic Toxicology News June (2013) 1-6.

4. Wagner MA, and Fredrick DL Continuing Education Professional Organizations Offer Convenient Online Opportunities Clinical and Forensic Toxicology News June (2013) 9-10.

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Abstracts:

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7. M.A. Wagner and S. Sakallah, Multiplexed CYP 2D6 *3, *4, and *5 Polymorphism – Real Time PCR for Application in Forensic Pathology/Toxicology Methamphetamine -MDMA Cases SOFT- 2003 Annual Meeting October Portland OR

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9. M.A. Wagner and S. Sakallah, The Potential for a Molecular Autopsy Multiplexed CYP450 2D6 *3, *4, *6, SOFT – 2002 Annual Meeting October Detroit, MI

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14. J. M. Jentzen, S. H. Wong, and M.A. Wagner, Pharmacogenomics for Forensic Pathology/Toxicology-Genotyping CYP450 2D6 as an adjunct for certifying methadone toxicity in 22 of 39 Medical Examiner's Cases – NAME Annual Meeting Oct.13th-17th 2001 Richmond, VA

15. J.M. Bjerke, L.J. Hubbard, M.A. Wagner, and S.H. Wong, Genotyping CYP*2D6 with long PCR and a designer proofreading enzyme that incorporates dUTP (2001) Ther Drug Monit. 23:492

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Non-Peer Reviewed Publications:

1. M.A. Wagner (2000) Conference Updates – *smatterings*
2. P. Sampson, M.A. Wagner, Laboratory Manual for Chemistry 10960H/10961H Honors General Chemistry - KSU (contributions)

Presentations:

1. M.A. Wagner (Ph.D.); Thomas C. Kupiec, (Ph.D.), R. Andrew Chambers, (M.D.), Jessica Megan Ross, (PhD), Jesse D. Hinckley, (MD/PhD) The Human Brain and Factors Affecting the Neurobiological Development from Adolescent to Adult- hood Exploring the Intersection of Mental Illness, Addiction, and the Role of Laboratory Science. SOFT Annual Meeting October 29th- November 3rd Denver CO 2023

2. M.A. Wagner (PhD); Niciu, Mark (MD); Spirk, Michelle (MS) Therapeutic role of Ketamine in the treatment of Psychiatric Illnesses and related significance to Forensic Toxicology. MAFS Annual Meeting September 12th-16th Des Moines IA 2022

3. M.A. Wagner (PhD); Zabriskie, Eric (MD); Oakley, Ryan (MD); Patel, Sachin (MD); Spirk, Michelle (MS); Gordon, Ann Marie (MS); Booher, Leslie (JD); Two-Faced Therapeutics: PK/PD Insights into "Bad Drugs" Repositioning: Setting the Stage: Anxiety, Depression, PTSD & Pain (Clinical Overview of disorders/conditions and related pharmacological challenges. SOFT Annual Meeting September 26th- October 1st Nashville TN 2021

4. M.A. Wagner Applied Statistics for the Forensic Scientist – Does the data say what it means and means what it says. SOFT Annual Meeting October 16th-21st Dallas TX 2016

5. M.A. Wagner Finding the balance Quality Assurance/Quality Control SOFT Annual Meeting October 18th-23rd Atlanta GA 2015

6. M.A. Wagner Drug induced psychosis homicide a case report: Chicago Local Section Fall Seminar COLLEGE OF MEDICINE, UIC – Invited guest speaker by Chapter President Jerry Yeo Ph.D. DABCC, FACB Professor of Pathology Director, Clinical Chemistry Laboratories University of Chicago 2014

7. M.A. Wagner Marijuana Pharmacology, Endocannabinoids Systems, and Cannabimimetics SOFT Annual Meeting October 17th – 22nd Richmond VA 2010

8. M.A. Wagner Opiate Withdrawal and Adulterated CNS Depressant Drug Impaired Driving. A Case Interpretation and Overcoming Motions to Suppress AAFS Annual Meeting February 16th-21st Denver CO 2009

9. M.A. Wagner DUID updates Marijuana SOFT Continuing Education May 2008

10. M.A. Wagner **Pharmacogenomics for Dummies** Co – Chair and lecture. Faculty: L. Langman and D. O'Kane – Mayo Clinic; **Wendell Weber – University of Michigan;** S. H. Wong – Wake Forest; B. Budowle Univ. North Texas SOFT Annual Meeting October 25th – November 1st Pheonix AZ 2008

11. M.A. Wagner, Clinical and Forensic Toxicology a Cross Road for Interpretation; Benzodiazepines updates and Drug-Drug Interactions and Phramacogenetics, SOFT Annual Meeting October 2nd – 7th Raleigh/Durham NC 2007

12. M.A. Wagner, Marijuana DUID Interpretation Forensic Toxicology Review, Society of Forensic Toxicology Continuing Education Faculty member. New York State Police May 22nd 2007

13. M.A. Wagner, Oral Fluid Research and Application, Department of Laboratory Medicine and Pathology Division of Clinical Biochemistry and Immunology, CBI Seminar **– Mayo Clinic Rochester MN** 2006

14. S.H. Wong, M.A. Wagner, T Andrew et al. Molecular Autopsy with Pharmacogenetics – A Multi-Center Study for Certifying Methadone Deaths: Preliminary Findings of Data Acquisition and Multiplex Genotyping *CYP* 450 2D6, 2C9, 3A4, and 3A5 by Pyrosequencing™ SOFT Annual Meeting October Nashville TN 2005

15. M.A. Wagner, C. Scarneo et al. Oral Fluid Research and Applications NEAFS Annual Meeting November Newport RI 2005

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17. M.A. Wagner, and S. Sakallah, Multiplexed CYP 2D6 *3, *4, and *5 Polymorphism – Real Time PCR for Application in Forensic Pathology/Toxicology Methamphetamine/MDMA Cases SOFT Annual Meeting October Portland OR 2003

18. M.A. Wagner and T. Andrew, A Fatality from Phytolacca Americana (Pokeweed) Root Ingestion – Special Session "Pediatric Fatalities" AAFS Annual Meeting February, Chicago, IL 2003

19. M.A. Wagner, and S. Sakallah, The Potential for a Molecular Autopsy Multiplexed CYP450 2D6 *3, *4, *6, SOFT Annual Meeting October Detroit, MI

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22. J.M. Bjerke, L.J. Hubbard, M.A. Wagner, and S.H. Wong, Genotyping CYP*2D6 with long PCR and a designer proofreading enzyme that incorporates dUTP (ICTDMCT – Washington DC September 1-6, 2001)

23. M.A. Wagner, S.B. Gock, J.M. Jentzen, Naproxen "Copycat" Overdose; IATDMCT (Sept. 1-6, 2001)

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25. M.A. Wagner, and S.H. Wong Designer and Rave Party Drugs Workshop – Update on the Epidemiology of Designer and Rave Drugs of Abuse in the US and Europe; International Congress of Therapeutic Drug Monitoring and Clinical Toxicology (ICTDMCT – Washington DC September 1-6, 2001)

26. S.H. Wong, J. Bjerke, B.C. Schur, M.A.Wagner, J. Chang, N. Bratanow; Optimization for genotyping 2D6 by conventional and real-time PCR, American Association of Clinical Chemistry (AACC) Conference – Chicago July 2001

27. M.A. Wagner, and S.H. Wong Pharmacogenetics Workshop - applications in therapeutic drug monitoring and forensic toxicology; Midwest Association of Therapeutic Drug Monitoring and Clinical Toxicology (MATT) Conference Beaumont Hospital, Royal Oak Michigan March 3-4th 2001

28. M.A. WagnerOpiates a forensic perspective with the potential for pharmacogenetics Pathology Review and Updates Medical College of Wisconsin March 2001

29. M.A. Wagner 13th Annual Forensic Science Seminar sponsored by the Milwaukee County Medical Examiner's Office, Milwaukee WI. October 2000 – Workshop: Latest in Alcohol Testing

30. M.A. Wagner, and S.H. Wong Co-Chairman and presenter-Pharmacology Review Workshop: Selected Cardiovascular Drug Toxicology and Cardiogenomics SOFT Annual meeting Milwaukee WI October 2000

31. M.A. Wagner, M. Mainland, S.B. Gock, S.H.Y. Wong, Quetiapine J. Anal. Tox. SOFT 2000

32. M.A. Wagner, N. Nuwayhid, S.H.Y Wong, V.A. Skrinska, S.B. Gock, J.M. Jentzen, J.M. Wilson, J. Lai, Postmortem nortriptyline distribution using a rabbit animal model; J. Anal. Tox. SOFT-2000

33. A. Gobar, M.A. Wagner, M. Elias, A. Wu, S.H.Y. Wong, Oxycodone Monitoring in Pain Management; J. Anal. Tox. SOFT-2000

INTERESTS, HOBBIES & SIGNIFICANT COMMUNITY SERVICE ACHIEVEMENTS

Family & Travel • Outdoor Activities/Sports • Reading • Youth Athletic Program Director and Coach • Arts (Concert Dance Programs/Companies)