



INDIANA UNIVERSITY

BORKENSTEIN
COURSE

Center for Studies
of Law in Action

Curriculum Vitae
of
Bruce A. Goldberger, Ph.D., DABFT

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EDUCATION

May, 1982 B.A. degree in Zoology
Drew University
Madison, New Jersey

August, 1985 M.S. degree in Forensic Toxicology
University of Maryland School of Medicine
Department of Pathology, Division of Forensic Pathology
Baltimore, Maryland

Thesis: “*In vitro* and *in vivo* studies of the collection and delayed analysis of the alcohol content in breath.”

January, 1993 Ph.D. degree in Forensic Toxicology
University of Maryland School of Medicine
Department of Pathology, Division of Forensic Pathology
Baltimore, Maryland

Dissertation: “Measurement and interpretation of heroin, 6-acetylmorphine and morphine concentrations in biological tissues obtained from heroin users and heroin-related deaths.”

PROFESSIONAL POSITIONS

November, 2002 Clinical Associate Professor
to present Department of Psychiatry
University of Florida College of Medicine
Gainesville, Florida

July, 2001
to present
Clinical Associate Professor and Director of Toxicology
Department of Pathology, Immunology and Laboratory Medicine
University of Florida College of Medicine
Gainesville, Florida

July, 1999
to June, 2001
Clinical Assistant Professor and Director of Toxicology
Department of Pathology, Immunology and Laboratory Medicine
University of Florida College of Medicine
Gainesville, Florida

October, 1994
to June, 1999
Assistant Professor and Director of Toxicology
Department of Pathology, Immunology and Laboratory Medicine
University of Florida College of Medicine
Gainesville, Florida

September, 1987
to September, 1994
Toxicologist
National Center for Forensic Science
a division of Maryland Medical Laboratory
Baltimore, Maryland

September, 1989
to May, 1992
Assistant Toxicologist and Toxicology Laboratory Manager
Toxicology Laboratory
Office of the Chief Medical Examiner
Baltimore, Maryland

July, 1986
to September, 1989
Assistant Toxicologist
Toxicology Laboratory
Office of the Chief Medical Examiner
Baltimore, Maryland

September, 1982
to September, 1987
Laboratory Technologist
Clinical Toxicology Department
Maryland Medical Laboratory
Baltimore, Maryland

CERTIFICATIONS

Diplomate. American Board of Forensic Toxicology, Certificate Number 218 (3/1/99-6/30/04)

Clinical Laboratory Director. Board of Clinical Lab Personnel, Department of Business and Professional Regulation, State of Florida, License Number DI 0033647 (5/18/95-6/30/04)

Forensic Toxicology Specialist. American Board of Forensic Toxicology, Certificate Number 5001 (11/1/92-2/28/99)

Toxicological Chemist. National Registry of Certified Chemists (previously known as the National Registry in Clinical Chemistry), Certificate Number 2254 (1991-2003)

HONORS AND AWARDS

Educational Research Award. Society of Forensic Toxicologists, 1984 and 1986
Sunshine Award. Toxicology Section, American Academy of Forensic Sciences, 1988
Toxicology Section Scholarship. American Academy of Forensic Sciences, 1991
Outstanding Scientific Achievements by a Young Investigator Award. American Association for Clinical Chemistry, 1994

CAMPUS ACTIVITIES

Teaching

College of Medicine:

General Pathology and Immunology (BMS 5608) – Lecture in Chemical Carcinogenesis
Systemic Pathology and Laboratory Medicine (BMS 5600) – Case Study Mentor
Environmental Medicine (Topics in Pharmacology and Toxicology; GMS 7593) – Lectures in Forensic Medicine including Pathology and Toxicology
Laboratory Rotation Mentor, Interdisciplinary Graduate Program
Pathology Resident Rotation

College of Pharmacy:

Selected Topics in Pharmacy (The Role of the Pharmacist in Substance Abuse Education and Prevention; PHA 4933) – Lecture in Forensic Toxicology

Student/Fellowship Training:

<u>Name</u>	<u>Program</u>	<u>Date</u>
Diana Garside	Post-Doctoral Fellowship in Forensic Toxicology	1994-1997
Jeri Roper-Miller	Graduate Student – Doctoral	1994-1998
Ruth Winecker	Graduate Student – Doctoral	1994-1996
Jason Byrd	Graduate Student Rotation	1996
Bart Wacek	Graduate Student Intern	1996
<u>Name</u>	<u>Program</u>	<u>Date</u>
Mary Rucker	Graduate Student – IDP Lab Rotation	1998
Richard Fox	Center for Precollegiate Education and Training	1998
Gretchen Miller	Graduate Student – Master's	1998-1999
Beth Ladlie	Graduate Student – IDP Lab Rotation	1998
Tara Sabo	Graduate Student – IDP Lab Rotation	1999
Andria Hobbs	Undergraduate Student – University Scholars Program	1999-2000
Kristofer Rau	Graduate Student – IDP Lab Rotation	1999
Jessica Walrath	Graduate Student – IDP Lab Rotation	2000
Bruno De Martinis	Visiting Scientist (Brazil)	2000-2001
Karen Vieira	Graduate Student – IDP Lab Rotation	2001
Michele Merves	Graduate Student – IDP Lab Rotation	2001

Sheng-Meng Wang	Visiting Scientist (Taiwan)	2001
María Antonia Martínez González	Visiting Scientist (Spain)	2002
Michele Merves	Graduate Student – Doctoral	2002-
Rebecca Murray	Pharmacy Student	2002

Administration

Department of Pathology, Immunology and Laboratory Medicine:

Director, William R. Maples Center for Forensic Medicine
 Unit Director of Toxicology, Diagnostic Referral Laboratories
 Member, Diagnostic Referral Laboratories Executive Committee
 Member, Diagnostic Referral Laboratories Quality Assurance Group
 Member, *ad hoc* Variable Compensation Committee
 Chairman, Biosafety Committee
 Member, Clinical Research Committee

College of Medicine Interdisciplinary Graduate Program in Medical Sciences:

Co-Director, IDP Module in Environmental Medicine

Interdisciplinary Toxicology Graduate Training Program (Center for Environmental and Human Toxicology):

Faculty Member
 Graduate Coordinator for Pathology
 Member, Toxicology Graduate Specialization Committee

University of Florida University Athletic Association:

Member, University Athletic Association Substance Abuse Committee

OTHER ACADEMIC ACTIVITIES

Adjunct Assistant Professor in Clinical Chemistry. University of Maryland School of Medicine, Department of Medical and Research Technology, Baltimore, Maryland, 1991-1992 and 1993-1994
 Thesis Advisor. College of Graduate Studies, Thomas Jefferson University, Philadelphia, Pennsylvania, 1994
 External Examiner for Sarah Kerrigan. Faculty of Graduate Studies, The University of British Columbia, Vancouver, B.C. Canada, 1997

PROFESSIONAL MEMBERSHIPS AND ACTIVITIES

American Academy of Forensic Sciences (AAFS), Fellow, 1983-present
 Academy Activities
 Program Committee, Poster Session Chairman, 1994
 Nominating Committee, 1996-1997
 Council, 1995-1997

Program Committee, Breakfast Seminars Chairman, 1997-1998
Program Committee, Poster Session Chairman, 1998-1999
Strategic Planning Committee, 1997-1998
Long Term Planning Committee, 1998-present
Board of Directors, 1999-2002
Academy-Wide Luncheons, Moderator, 2000
Program Committee, Workshop Chairman, 2000-2001
Forensic Sciences Foundation Nominating Committee, 2000-2001
Program Committee, Program Co-Chairman, 2001-2002
Program Committee, Program Chairman, 2002-2003
Policy and Procedure Committee, 2002-present

Toxicology Section Activities
Workshop Co-Chairman, 1992-1995, 1999
Program Committee, 1992-1996
Program Chairman, 1994-1995
Secretary, 1995-1996
Chairman, 1996-1997
Chairman, Nominating Committee, 1997-1998
Abstract Guidelines Committee, 1995-1996
Editor, *News and Views*, 1993-1996
Steering Committee, 1994-present
Minutes Review Committee, 1994-1999
Awards Committee, 1997-1999, 2001-present
ad hoc Membership Guidelines Committee, 1994-1999

American Association for Clinical Chemistry (AACCC), Member, 1984-present
TDM/Tox LIP Committee, 1991-1996; Chairman, 1995-1996
FUDT/LIP Committee, 1997-present; Chairman, 1999
Toxicology News Committee, Chairman, 2000-2001
Workshop Leader, 1993-1994
TDM and Clinical Toxicology Division, representative to the Joint Committee on Education and Training in Toxicology, 1993-1996

American Board of Forensic Toxicology (ABFT)
Board of Directors, 2000-present
Treasurer, 2002-present
Promotion Committee, 1998-present
Examination Committee, 1999-present
Finance Committee, 2002-present

California Association of Toxicologists (CAT), Associate Member, 1993-present
Council of Science Editors, 2001-present
International Association for Chemical Testing (IACT), Member, 1999-present
National Committee for Clinical Laboratory Standards, Member, 1993-present
Gas Chromatography/Mass Spectrometry (GC/MS) Confirmation of Drugs Committee

National Registry of Certified Chemists (NRCC)
Board of Directors, 2001-present
Examination Committee, 2001-present

National Safety Council, Committee on Alcohol and Other Drugs, Member, 1988-present
Education and Training, Subcommittee Co-Chairman, 1990-1991
Education and Training, Subcommittee Chairman, 1992-1997
Executive Board, 1992-present

Action Programs Technical Subcommittee, 1998-present
Society of Forensic Toxicologists (SOFT), Member, 1984-present
Advisory Committee on Hair Analysis, 1991-1992
Annual Meeting Program Committee, 1993-2000
Chairman, SOFT Web-site Committee, 1997-present
Chairman, SOFT Logo Redesign Committee, 1997
Board of Directors, 1998-2000
Special Issue Editor, Journal of Analytical Toxicology, 1999
The International Association of Forensic Toxicologists (TIAFT), Member, 1991-present

EDITORIAL TASKS

Clinica Chim Acta – Member, Editorial Board, 1999-present
Clinical and Forensic Toxicology News (AACC Newsletter) – Chairman, Editorial Advisory Board, 1999-2001
Forensic Science Review – Member, Board of Editors, 2002 - present
Journal of Analytical Toxicology –
Editor-in-Chief, 2001-present
Member, Editorial Advisory Board, 1997-2000
Invited Reviewer, 1995-1996
Society of Forensic Toxicologists Special Issue Editor, October, 1999
Journal of Forensic Sciences – Member, Editorial Board, 1997-present
Therapeutic Drug Monitoring and Toxicology (AACC In-Service Training and Continuing Education Publication) – Chairman, Editorial Board, 1995-1996
Clarke's Isolation and Identification of Drugs (3rd Edition), Pharmaceutical Press – Member, Editorial Board, 2000-present

CONSULTANT AND OTHER RELATED ACTIVITIES

Expert Witness/Consultant in Forensic Toxicology. Qualified as an Expert in Forensic Toxicology in Federal, State of Florida, and Military Courts of Law
Laboratory Inspector. National Laboratory Certification Program, Substance Abuse and Mental Health Services Administration, DHHS, 1989-2000
Chairman. Florida Department of Law Enforcement/Institute of Police Technology and Management Implied Consent Rules Committee, 1999-2000
Chairman. Substance Abuse Committee, Athletic Programs, Santa Fe Community College, 1997-present

REVIEW OF GRANTS AND CONTRACTS

Consultant. Counterdrug Technology Assessment Center Demand Reduction Advisory Board, Office of National Drug Control Policy, Executive Office of the President, 1993
Consultant. Maternal Lifestyle Study, National Institute of Child Health and Human Development, National Institutes of Health, 1992-1993
Consultant. Measurement of Caffeine, Paraxanthine and Osmolality in Serum from the Collaborative Perinatal Project, National Institute of Child Health and Human Development, National Institutes of Health, 1996
ad hoc Committee Member. Molecular, Cellular and Chemical Neurobiology Research Review Subcommittee [NIDA/B], National Institute on Drug Abuse Initial Review Group, National Institutes of Health, 1996-1997

- ad hoc Reviewer. Clinical Protocols, Addiction Research Center, National Institute on Drug Abuse, National Institutes of Health, 1998
- ad hoc Committee Member. Epidemiology and Prevention Review Committee [NIDA/G], National Institute on Drug Abuse Initial Review Group, National Institutes of Health, 1998
- ad hoc Reviewer. NIDA/INVEST Research Fellowship Program, National Institute on Drug Abuse, National Institutes of Health, 2000

INVITED LECTURES

- The Use of Quality Control by Forensic Urine Drug Testing Laboratories. Hewlett-Packard Clinical/Forensic Seminar, Rockville, Maryland, April, 1989.
- Principles of Forensic Toxicology. Forensic Toxicology Workshop, Department of Health and Rehabilitation Services, State of Florida, Orlando, Florida, April, 1990.
- Drug Testing in the 1990s. 1991 Hewlett-Packard User's Group Meeting, American Society of Mass Spectrometry, Nashville, Tennessee, May, 1991.
- Optimization of GC/MS. Hewlett-Packard User's Group Meeting, Baltimore, Maryland, October, 1991.
- FPDT: Forensic Pelage Drug Testing (Breakfast Seminar). American Academy of Forensic Sciences, New Orleans, Louisiana, February, 1992.
- Optimization of GC/MS. Forensic and Clinical Drug Analysis by GC/MS. Hewlett-Packard Sponsored Workshop, American Association for Clinical Chemistry, Chicago, Illinois, July, 1992.
- Confirmation. Preparing for the NIDA NLCP Inspections: Problems Commonly Encountered by Inspectors. Society of Forensic Toxicologists, Cromwell, Connecticut, October, 1992.
- Hair Testing: The Growing Way to Test for Drugs of Abuse. The Pittsburgh Conference, Atlanta, Georgia, March, 1993.
- Disposition of Heroin and 6-Acetylmorphine in Hair. Clinical Pharmacology/Toxicology Forum, Baltimore, Maryland, March, 1993.
- Testing for Abused Drugs in Human Hair. 1993 Hewlett-Packard User's Group Meeting, American Society of Mass Spectrometry, San Francisco, California, May, 1993.
- Hair. Drug Analysis of Unusual Biological Tissues. American Association for Clinical Chemistry, New York, New York, July, 1993.
- Heroin and Metabolites in Biological Tissues Obtained from Heroin Users and Heroin-Related Deaths. Roche Diagnostics Seminar, Branchburg, New Jersey, August, 1993.
- Seminar: Measurement and Interpretation of Heroin, 6-Acetylmorphine and Morphine Concentrations in Biological Tissues. Department of Medical and Research Technology, University of Maryland School of Medicine, Baltimore, Maryland, September, 1993.
- Study of the Effect of "UrinAid" on HHS Regulated Urine Specimens. Drug Testing Advisory Board, Division of Workplace Programs, Substance Abuse and Mental Health Services Administration, Bethesda, Maryland, September, 1993.
- Current Status of Hair Drug Testing. Capital Section, American Association for Clinical Chemistry, Baltimore, Maryland, November, 1993.
- Optimization Techniques for GC/MS. The In's and Out's of Capillary Gas Chromatography: Routinely Utilized Inlet and Detector Systems. American Academy of Forensic Sciences, San Antonio, Texas, February, 1994.
- Opiates. Forensic Toxicology. Armed Forces Institute of Pathology, Vienna, Virginia, April, 1994.
- Adulteration Issues-Laboratory Checks and Balances. Substance Abuse Workshop. Department of Energy, Alexandria, Virginia, May, 1994.
- Hair. Drug Analysis of Unusual Biological Tissues. American Association for Clinical Chemistry, New Orleans, Louisiana, July, 1994.

Pharmacology of Heroin and Related Opiates in Hair. SOFT Conference on Drug Testing in Hair, Tampa, Florida, October, 1994.

Opiates. Fundamentals of Forensic Toxicology: A Basic Course. Society of Forensic Toxicologists, Baltimore, Maryland, October, 1995.

Testing for Drugs in Hair. Seminar. Departments of Pharmacodynamics and Pharmaceutics, University of Florida College of Pharmacy, Gainesville, Florida, October, 1995.

Postmortem Toxicology. Advances in Alcohol and Drug Testing-Significance for Legal Proceedings. Toxicology Consultants Forensic Science CLE Seminar Series. Fort Lauderdale, Florida, December, 1995.

The Analysis of Anabolic Agents in Sports. Amateur Athletic Drug Testing – Substance Abuse Policy. American Academy of Forensic Sciences, Nashville, Tennessee, February, 1996.

Drugs of Abuse Testing. Boehringer Mannheim Corporation 1996 Preferred Partners Meeting and Product Fair. Orlando, Florida, March, 1996.

Drug Free Workplace Seminar - Lab Procedures. Gainesville Area Chamber of Commerce, Gainesville, Florida, May, 1996.

Testing for Cocaine in Hair: New Clinical and Forensic Applications. Department of Pathology and Laboratory Medicine, University of Florida College of Medicine, Gainesville, Florida, June, 1996.

Drug Testing for Drug Courts: Components of Reliability. Gaining Momentum: Drug Courts in Florida. Supreme Court of the State of Florida, Office of the State Courts Administrator, Naples, Florida, June, 1996.

Rohypnol and Rape Prevention. Rape & Crime Victim Advocate Program, Alachua County Department of Community Services, Gainesville, Florida, July, 1996.

Medical Examiner Toxicology, Analysis of Unusual Biological Tissues, and Forensic Chemistry. Introduction to Forensic Toxicology. American Association for Clinical Chemistry, Chicago, Illinois, July, 1996.

High Sensitivity CEDIA Benzodiazepine DAU: New Solutions for the Nineties. Boehringer Mannheim Corporation 1996 Industry Workshop at the AACCC Annual Meeting. Chicago, Illinois, July, 1996.

Forensic Toxicology. 1996 Clinical Chemistry and Toxicology Audioconference Series - Teleconference Network of Texas. Gainesville, Florida, August, 1996.

Forensic Toxicology Sites on the World Wide Web. Forensic Toxicology and the Internet. Society of Forensic Toxicologists, Denver, Colorado, October, 1996.

Drug Free Workplace Seminar – Lab Procedures. Gainesville Area Chamber of Commerce, Gainesville, Florida, October, 1996.

Forensic Science: A Living Science – Amniotic Fluid and Breast Milk. American Academy of Forensic Sciences, New York City, New York, February, 1997.

Forensic Toxicology: QA/QC Considerations. NFSTC Forensic Toxicology Workshop, Gainesville, Florida, August, 1997.

Implementation of a PT Program for Hair Testing in Florida. HHS Drug Testing Advisory Board, Scientific Meeting on Drug Testing of Alternative Specimens and Technologies, Arlington, Virginia, September, 1997.

Signs of Impairment & Physiology and Pharmacology, Breath Test Instructor Course, Institute of Police Technology and Management, University of North Florida, Jacksonville, Florida, January, 1998.

Cocaine Analyses in Breast Milk and Nails. Seminar. Department of Pharmaceutics and Pharmacodynamics, College of Pharmacy, University of Illinois at Chicago, Chicago, Illinois, March, 1998.

Hewlett-Packard Seminar on Drug Testing and Forensic Analyses. Wilmington, Rockville, Atlanta, and Tampa, March, 1998.

Results from the First Round of the State of Florida Hair Proficiency Testing Program. Drug Testing Advisory Board, Division of Workplace Programs, Substance Abuse and Mental Health Services Administration, Bethesda, Maryland, June, 1999.

Physical Effects of Abuse. The GHB, GBL and 1,4 Butanediol Working Group Meeting. Sponsored by Orphan Medical Group, National Forensic Science Technology Center, St. Petersburg, Florida, July, 1999.

Case Studies in Forensic Toxicology. Seminar in the Department of Pathology, Immunology and Laboratory Medicine, University of Florida College of Medicine, Gainesville, Florida, August, 1999.

Forensic Toxicology. Microbiology and Cell Science Student Organization. University of Florida, Gainesville, Florida, September, 1999.

Hewlett-Packard Seminar on Drug Testing. Fundamental and Critical Procedures Used in the Analysis of Drugs of Abuse in Urine by GC/MS. Mexico City, Mexico, November, 1999.

Leading Edge Seminar – The Future of Forensic Medicine at the University of Florida, University of Florida Department of Conferences and Seminars, Division of Continuing Education, Gainesville, Florida, February, 2000.

Forensic Toxicology of Opiate Alkaloids and Synthetic Analgesics – Metabolism of Opioids. American Academy of Forensic Sciences, Reno, Nevada, February, 2000.

Post-Mortem Forensic Toxicology (Part 1), Shands Hospital Laboratories Continuing Education Program, Gainesville, Florida, March, 2000.

Drug Testing: An Important Element in Substance Abuse Prevention – Today’s Drugs, Beating the Test and Other Myths. American Alliance for Health, Physical Education, Recreation and Dance, Orlando, Florida, March, 2000.

Contemporary Practice in Clinical Toxicology – Opiates. American Association for Clinical Chemistry, Alexandria, Virginia, June, 2000.

Assessment of Alternative Specimens in Forensic Toxicology. Society of Forensic Toxicologists, Milwaukee, Wisconsin, 2000.

Post-Mortem Forensic Toxicology (Part 2), Shands Hospital Laboratories Continuing Education Program, Gainesville, Florida, November, 2000.

The Drunk and Drugged Driver: Understanding Toxicology, Advanced DUI Seminar, Florida Prosecuting Attorneys Association, Ocala, Florida, March, 2001.

Effects on the Body, Florida Statewide Conference on Designer Drugs, Florida Department of Law Enforcement, Orlando, Florida, April, 2001.

Club Drugs, Florida Association of Medical Examiners, Daytona Beach, Florida, November, 2001.

Forensic Toxicology, Florida Homicide Investigators Association, Gainesville, Florida, November, 2001.

Chemical Agents, Community Bioterrorism Summit, Shands HealthCare, Gainesville, Florida, November, 2001.

Analytical Toxicology Considerations in Drugs and Driving Cases, Robert F. Borkestein Course on Drugs: The Effects of Drugs on Human Performance and Behavior, Center for Studies of Law in Action, Indiana University, Bloomington, Indiana, March, 2002.

Chemical Agents of Terrorists, The Challenge of Bioterrorism, Florida League for Nursing, University of Florida, Gainesville, Florida, April 2002.

Chemical Agents, Shands Hospital Laboratories Continuing Education Program, Gainesville, Florida, August, 2002.

Club Drugs. Microbiology and Cellular Science Student Organization. University of Florida, Gainesville, Florida, September, 2002.

STATE AND NATIONAL MEDIA APPEARANCES

In Search of Jesse James, A&E and History Channel, 1996
Party Drug, Fatal Drug, 48 Hours, CBS News, 2001
PMA, Channel One News, 2001
Addicted: An OxyContin Tragedy, 48 Hours, and CBS News, 2002
Ecstasy – Nothing to Rave About, Florida’s News Channel, 2002
Hooked On Club Drugs, VH1, 2002

PUBLICATIONS

Books

1. Liu RH and Goldberger BA (eds). Handbook of Workplace Drug Testing. AACC Press, 1995 (380 pages) [second printing 1996 – 396 pages; Chinese translation 1997 – 448 pages].
2. Jenkins AJ and Goldberger BA (eds). On-Site Drug Testing. Humana Press, 2002 (276 pages).

Chapters

1. Goldberger BA and Cone EJ: Heroin. *in* Encyclopedia of Analytical Science. Academic Press, 1995 (pp. 3861-3866).
2. Inoue T, Seta S and Goldberger BA: Analysis of drugs in unconventional samples. *in* Handbook of Workplace Drug Testing. AACC Press, 1995 (pp. 131-158).
3. Garside D and Goldberger BA: Determination of cocaine and opioids in hair. *in* Drug Testing in Hair. CRC Press, Inc., 1996 (pp. 151-180).
4. Winecker RE and Goldberger BA: Urine specimen suitability for drug testing. *in* Drug Abuse Handbook. CRC Press Inc., 1998 (pp. 764-772).
5. Goldberger BA and Jenkins AJ: Drug Toxicology. *in* Sourcebook on Substance Abuse: Etiology, Epidemiology, Assessment, and Treatment. Allyn & Bacon, 1999 (pp. 184-196).
6. Kerrigan S and Goldberger BA: Opioids. *in* Principles of Forensic Toxicology. AACC Press, 1999 (pp. 202-220).
7. Magura S, Laudet A and Goldberger BA: Improving the validity of behavioral drug abuse research through drug testing. *in* Drug Testing Technology: Assessment of Field Applications. CRC Press, 1999 (pp. 215-233).
8. Garside D and Goldberger BA: Forensic and Medicolegal Issues. *in* Atlas of Hair and Nails. Churchill Livingstone, 1999 (pp. 227-232).
9. Kerrigan S and Goldberger BA: Drugs of Abuse - Body Fluids. *in* Encyclopedia of Forensic Sciences. Academic Press, 2000 (pp. 616-626).
10. Roper JD and Goldberger BA. Opioids. *in* The Clinical Toxicology Laboratory - Contemporary Practice in Clinical Toxicology. AACC Press, 2001 (pp. 73-96).
11. Kerrigan S and Goldberger BA: Forensic Toxicology. *in* Forensic Nursing. Aspen Publishing (in press).

Monographs

1. Goldberger BA: Acetaminophen, Caffeine, Chloramphenicol, Lithium and Procainamide Drug Monographs. *in* Drug Monitoring Data Pocket Guide II. AACC Press, 1994.
2. Goldberger BA: Opiates. Abused Drugs Monograph Series. Abbott Diagnostics, 1994.
3. Goldberger BA, Ropero-Miller JD, Zawta B and Jackson R: Drugs of abuse testing. Questions and Answers. Boehringer Mannheim Corporation, 1998. {revised and reprinted by Roche Diagnostics in 1999}
4. Hammett-Stabler C, Goldberger BA and Ropero-Miller JD: Abused drugs. *in* Medical Toxicology Self Study. American Association for Clinical Chemistry, 1998.
5. Ropero JD, Garside D and Goldberger BA. Opiates. *in* Contemporary Practice in Clinical Toxicology. American Association for Clinical Chemistry, 1998. {second edition, 2000}
6. Goldberger BA (ed.): Hair Analysis: Drugs of Abuse, Therapeutic Drugs, and Steroids {reprints of selected articles from the Journal of Analytical Toxicology}, 2001.

Journal Articles (Refereed)

1. Black DL, Goldberger BA, Isenschmid DS, White SM and Caplan YH: Urine cannabinoid analysis: An integrated multi-method approach. *J. Analyt. Toxicol.* 8: 224-227, 1984.
2. Goldberger BA and Caplan YH: Infrared quantitative evidential breath-alcohol analyzers: *In vitro* accuracy and precision studies. *J. Forensic Sci.* 31: 16-19, 1986.
3. Goldberger BA, Caplan YH and Zettl JR: A long-term field experience with breath ethanol collection employing silica gel. *J. Analyt. Toxicol.* 10: 194-197, 1986.
4. Goldberger BA and Caplan YH: *In vitro* accuracy and precision studies comparing direct and delayed analysis of the ethanol content of vapor. *J. Forensic Sci.* 32: 48-54, 1987.
5. Black DL, Goldberger BA and Caplan YH: Enzyme immunoassay method for comprehensive drug screening in micro-samples of urine. *Clin. Chem.* 33: 367-371, 1987.
6. Caplan YH, Levine B and Goldberger B: Fluorescence polarization immunoassay evaluated for screening for amphetamine and methamphetamine in urine. *Clin. Chem.* 33: 1200-1202, 1987.
7. Levine B, Goldberger BA and Caplan YH: Evaluation of the Coat-A-Count radioimmunoassay for phencyclidine. *Clin. Chem.* 34: 429, 1988.
8. McMullen NT, Goldberger B, Suter CM and Glaser EM: Neonatal deafening alters nonpyramidal dendrite orientation in auditory cortex: A computer microscope study in the rabbit. *J. Comp. Neurology* 267: 92-106, 1988.
9. McMullen NT, Goldberger B and Glaser EM: Postnatal development of lamina III/IV nonpyramidal neurons in rabbit auditory cortex: Quantitative and spatial analyses of golgi-impregnated material. *J. Comp. Neurology* 278: 139-155, 1988.
10. Jenkins AJ and Goldberger BA: Forensic chemistry: The analysis of controlled substances. Therapeutic Drug Monitoring and Toxicology In-Service Training and Continuing Education Program, American Association for Clinical Chemistry 13(1): 7-15, 1991.
11. Goldberger BA, Caplan YH, Maguire T and Cone EJ: Testing human hair for drugs of abuse. III. Identification of heroin and 6-acetylmorphine as indicators of heroin use. *J. Analyt. Toxicol.* 15: 226-231, 1991.
12. Levine BS, Wu SC, Goldberger BA and Caplan YH: Two fatalities involving haloperidol. *J. Analyt. Toxicol.* 15: 282-284, 1991.

13. LoDico CP, Levine BS, Goldberger BA and Caplan YH: Distribution of isoniazid in an overdose death. *J. Analyt. Toxicol.* 16: 57-59, 1992.
14. Goldberger BA and Jenkins AJ: Testing of abused drugs in urine by immunological techniques. *Therapeutic Drug Monitoring and Toxicology In-Service Training and Continuing Education Program, American Association for Clinical Chemistry* 13(8): 7-18, 1992.
15. Heller PF, Goldberger BA and Caplan YH: Chloral hydrate overdose: Trichloroethanol detection by gas chromatography/mass spectrometry. *Forensic Sci. International* 52: 231-234, 1992.
16. Ripple MG, Goldberger BA, Caplan YH, Blitzer MG and Schwartz S: Detection of cocaine and its metabolites in human amniotic fluid. *J. Analyt. Toxicol.* 16: 328-331, 1992.
17. Ramcharitar V, Levine BS, Goldberger BA and Caplan YH: Bupropion and alcohol fatal intoxication: Case report. *Forensic Sci. International* 56: 151-156, 1992.
18. Goldberger BA, Darwin WD, Grant TM, Allen AC, Caplan YH and Cone EJ: Measurement of heroin and its metabolites by isotope-dilution electron-impact mass spectrometry. *Clin. Chem.* 39: 670-675, 1993.
19. Klette KL, Levine B, Dreka C, Smith ML and Goldberger BA: Cholinesterase activity in postmortem blood as a screening test for organophosphate/chemical weapon exposure. *J. Forensic Sci.* 38: 950-955, 1993.
20. Cone EJ, Holicky BA, Grant TM, Darwin WD and Goldberger BA: Pharmacokinetics and pharmacodynamics of intranasal "snorted" heroin. *J. Analyt. Toxicol.* 17: 327-337, 1993.
21. Goldberger BA, Cone EJ, Grant TM, Caplan YH, Levine BS and Smialek JE: Disposition of heroin and its metabolites in heroin-related deaths. *J. Analyt. Toxicol.* 18: 22-28, 1994.
22. Jenkins AJ and Goldberger BA: New antidepressants. *Therapeutic Drug Monitoring and Toxicology In-Service Training and Continuing Education Program, American Association for Clinical Chemistry* 15: 79-87, 1994.
23. Goldberger BA and Caplan YH: Letter. The effect of glutaraldehyde (UrinAid) on the detection of abused drugs by immunoassay. *Clin. Chem.* 40: 1605-1606, 1994.
24. Goldberger BA and Cone EJ: Review. Confirmatory tests for drugs in the workplace by GC/MS. *J. Chromatogr. A* 674: 73-86, 1994.
25. Goldberger BA, Watts VW and Simonick TF: Analysis of volatiles by headspace gas chromatography. *Therapeutic Drug Monitoring and Toxicology In-Service Training and Continuing Education Program, American Association for Clinical Chemistry* 15: 231-236, 1994.
26. Goldberger BA, Loewenthal B, Darwin WD and Cone EJ: Technical brief. Intrasubject variation of creatinine and specific gravity measurements in consecutive urine specimens of heroin users. *Clin. Chem.* 41: 116-117, 1995.
27. Goldberger BA, Cone EJ and Kadehjian L: Letter to the editor. Unsuspected ethanol ingestion through soft drinks and flavored beverages. *J. Analyt. Toxicol.* 20: 332-333, 1996.
28. Ropero JD, Garside D and Goldberger BA: Synthetic and semisynthetic opioid analgesics. *Therapeutic Drug Monitoring and Toxicology In-Service Training and Continuing Education Program, American Association for Clinical Chemistry* 17: 261-271, 1996.
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