

KATHLEEN CORRADO, Ph.D.
Executive Director and Professor of Practice
Forensic and National Security Sciences Institute (FNSSI)
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Education

Ph.D. in Biology, May 1992

The Univ. of Michigan Department of Cellular and Molecular Biology, Ann Arbor, MI 48109. The study of morphogenesis and cell-cycle mutants in the yeast, *Saccharomyces cerevisiae*

B.S. in Biology, May 1986

The University of Connecticut, Storrs, CT 06268

Professional Experience

Executive Director and Professor of Practice 2021-present

- Forensic and National Security Sciences Institute (FNSSI) at Syracuse University Management oversight of the institute including personnel, graduate and undergraduate academic programs, curriculum, research initiatives, public relations, and liaison with the College of Arts and Science. Also responsible for teaching, student advising, and other scholarly activities. Courses taught include FSC606 Advanced Forensic Science and FSC633 Quality Assurance and Ethics.

Director of Laboratories 2000-2020

- Onondaga County Center for Forensic Sciences Directed the overall operations of the ISO 17025/ANAB accredited Forensic Science Laboratories including oversight of Forensic Biology, Forensic Chemistry, Digital Evidence, Firearms, Latent Print Disciplines, Toxicology, Trace Evidence, and Questioned Documents. Responsible for quality assurance, scientific integrity, resource allocation and budgeting, grant management, personnel, and long-term strategic planning. Supervision exercised over professional, technical, and clerical personnel.

Technical Lead, Forensic Biology/DNA 1999-2016

- Onondaga County Center for Forensic Science Oversaw and directed the technical aspects of analysis of biological evidence, including both serology and DNA analysis. Performed analysis of evidence and provided expert witness testimony of results. Supervised and trained less experienced personnel. Maintained quality control and quality assurance aspects of the laboratory. Served as local CODIS administrator 1999-2019.

Criminalist, Serology/DNA 1996-1999

- Texas Department of Public Safety Crime Lab, Austin TX Crime scene investigation, biological fluid identification, DNA analysis including RFLP, DQ α , D1S80, and multiplex STRs, validation and implementation of STRs, training of serology/DNA analysts, expert witness testimony, local administrator of CODIS casework database.

Instructor, Introduction to Genetics 1995-1996

- University of Texas at Austin Department of Zoology
Upper division course consisting of classical genetics, human genetics, molecular biology techniques, population genetics.

Post Doctoral Research Fellow 1993-1995

- University of Texas at Austin, Department of Biochemistry
Molecular Analysis of the Giant Muscle Proteins Titin and Nebulin.

Post Doctoral Research Fellow for the Muscular Dystrophy Assoc. 1991-1993

- The University of Michigan Medical School, Department of Human Genetics.
Molecular and Transgenic Analysis of the role of dystrophin in Duchenne Muscular Dystrophy.

Professional Affiliations

Member, ANSI-Accredited US TAG to ISO TC 272 Forensic Sciences (2025-current)
Member, National Association of Forensic Science Boards (2024-current)
Member, ASCLD-MRC Committee (2024-current)
Member, NYS DNA Subcommittee (2022-current)
Member, ASCLD-FRC Committee (2022-current)
Member, ANAB Accreditation Committee (2019-2023)
Member, State of Virginia Scientific Advisory Committee (2017-current; Chair 2018-2019,2023-2024)
Affiliate Member, NIST OSAC Biology (2020-current)
Member, NIST OSAC Biology Scientific Advisory Committee (2019-2020)
Member, NIST OSAC Biological Data and Interpretation Subcommittee (2014-2019)
Member, ASCLD/LAB Board of Directors (2014-2016)
Member, New York State Commission on Forensic Science (2003-2006, 2009-2015)
Member, New York Crime Laboratory Advisory Committee (2000-2020; Chair 2003-2006 and 2009-15)
Member, Forensic Advisory Board to the Forensic and National Security Sciences Institute at Syracuse University (2012-2020)
Member, Council of Forensic Science Educators (COFSE) (2021-current)
Member, Northeast Association Forensic Science (NEAFS)(2022-curent)
Member, American Society of Crime Laboratory Directors (ASCLD) (2000-current)
Member, American Association of Forensic Scientists (AAFS) (1999-current)
Member, Onondaga County Cold Case Task Force (Co-chair 2001-2012)
ANAB assessor
ASCLD/LAB-ISO certified laboratory assessor
QAS certified laboratory assessor

Invited Seminars, Panels, Media

- New York National Prosectors Training Institute, August 2025
- SU/NYSDCJS Next Generation Sequencing Training; May 2025
- Paul V Moore Forensics Career Panel; January 2025
- Bowling Green State University Δ Δ E Post-Undergrad Panel; November 2024

- National Association of Forensic Science Boards; November 2024
- Scientific American Podcast; September 2024
- ASCLD-FRC Lightning Talk; March 2024
- Keystone College; November 2023
- Paul V. Moore High School Career Center; December 2023
- Bowling Green State University $\Delta \Delta E$ Post-Undergrad Panel; November 2023
- Association of Quality Assurance Managers; October 2023
- CNN appearance; July 2023
- Paul V. Moore High School Career Center; January 2023
- Bowling Green State University $\Delta \Delta E$ Post-Undergrad Panel; November 2022
- American Academy of Professional Coders Conference; October 2022
- The Criminology Academy Podcast; March 2022
- Syracuse University Summer Teachers Workshop; July 2019
- Girls in STEM Program, Danforth Middle School; April 2019
- Onondaga County District Attorney's Office; December 2018
- 1st Annual Northeast Forensic Laboratory Probabilistic Genotyping Users Group; Meriden, CT; September 2018
- Syracuse University Summer Teachers Workshop; July 2018
- Syracuse University Summer Teachers Workshop; July 2017
- Syracuse University Undergraduate Science Program; November 2016
- Onondaga County BAR Association; May 2016
- Syracuse University Summer Teachers Workshop; July 2015
- Syracuse University Distinguished Lecture Series; May 2015
- SUNY Upstate Medical University; March 2015
- Syracuse University Undergraduate Science Program, March 2015
- Onondaga County District Attorney's Office, September 25, 2014
- Syracuse University Summer Teachers Workshop; July 2014
- Syracuse Police Department; May 2014
- Onondaga County Health Department; April 2014
- Syracuse University Forensic Science Program; March 2014
- Syracuse Police Department ET School; February 2014
- Onondaga County District Attorney's Advisory Council; November 2013
- Syracuse University Summer Teachers Workshop; June 2013
- Syracuse University Undergraduate Science Program, March 2013
- Syracuse Police Department CID; March 2013
- SUNY Upstate Medical University; March 2013
- New York State Prosecutors Training Institute, March 20, 2012
- Crouse Choices Program, March 7, 2012
- Syracuse University Forensic Science Program, March 5, 2012
- Syracuse University Law School, November 7, 2011
- Onondaga County District Attorney's Office, September 28, 2011
- Dewitt Police Dept., May 31, 2011
- New York State BAR, October, 22, 2010
- New York State Justice Task Force, January 22, 2010
- NYS Regional Cytogenetics Meeting, September 12, 2009
- Syracuse Police Department ET training, May 5, 2009
- Onondaga County District Attorney's Office, April 30, 2009
- Bard College Biology Department, April 23, 2009

- SUNY Upstate Medical University; March 10, 2009
- New York Prosecutors Training Institute; August 6, 2008
- Onondaga County Fiscal Officers; June 12, 2008
- SUNY Upstate Medical University; March 6, 2008
- District Attorney's Advisory Council; December 5, 2007
- Dewitt Police Department Awards Dinner; May 17, 2007
- SUNY Upstate Medical University; March 8, 2007
- Syracuse Police Dept. Evidence Technician School; December 13, 2006
- Onondaga County Health Department Luncheon; May 3, 2006
- SUNY Upstate Medical University; February 23, 2006
- Onondaga County District Attorney's Office; May 25, 2005
- Niagara Mohawk Luncheon Club; November 17, 2004
- Onondaga County Evidence Technician School; October 14, 2004
- ASHI Regional Education Workshop; May 21, 2004
- SECME; May 6, 2004
- Technology Alliance of Central New York; March 29, 2004
- Syracuse University Law School; March 12, 2004
- Onondaga County District Attorney's Office; September 11, 2003
- Eighth Annual Alliance Program Child Abuse Conference; April 9, 2003
- New York Prosecutors Training Institute Homicide Conference; February 24, 2003
- Dewitt Police Department; December 4, 2002
- US Attorney's Office-NDNY; November 7, 2002
- Onondaga County District Attorney's Office; October 9, 2002
- NYS Regional Cytogenetics Meeting; September, 2002
- Upstate Medical University, Summer Workshop in Molecular Genetics; June, 2002
- Onondaga County District Attorney's Office; January 11, 2002
- Syracuse Police Dept. Criminal Investigations Division; November 2001
- SUNY Dept. of Pathology; October 2001
- Onondaga County Abused Persons Unit; June 2001
- Onondaga County Evidence Technician School; April 2001
- Sexual Assault Nurse Examiners (SANE) training course; December 2000
- Onondaga County Law Enforcement; May 2000
- Onondaga County Evidence Technician School; April 2000
- New York Prosecutors Training Institute; August, 1999
- The Texas Youth Commission Investigator Training Course; January, 1999
- The Texas State Trooper Cadet Academy Training Course; December, 1998
- Undergraduate course Biology for non-majors at the University of Texas; April, 1998
- The Premedical Student Society at the University of Texas; March, 1998
- The Texas District Attorney's Investigators Association; February, 1998

Continuing Education

- CFSRE Forensic Ethics Unveiled: From Concept to Action webinar; June 2025.
- American Academy of Forensic Sciences; February 2025
- Sequencing 101 Workshop; February 2025
- Rapid DNA Nationwide Webinar; January 2025
- National Forensic Science Boards Annual Conference; November 2024
- FERPA training; June 2024

- Trauma Informed Teaching Symposium; April 2024
- NEAFS Annual Conference; Mystic CT; November 2023
- Collaborative High-Impact Activities in Natural Science Education (CHANcE) workshop; Syracuse University; Syracuse NY
- American Academy of Forensic Sciences; Orlando, FL; February 2023
- Focus on Teaching and Learning-Telling the Story of your course; Syracuse, NY; February 2023
- Inclusive Search and Faculty Hiring course; Syracuse, NY; January 2023
- FARO Laser Scanner and Scene Software Certification Course; Syracuse, NY; June 2022
- The 2021 Annual ASCLD Symposium; Boston, MA; August 2021
- Assessment Leadership Institute Syracuse University; Syracuse, NY; June 2021
- American Academy of Forensic Sciences; Virtual; February 2021
- 2020 QAS Quality Assurance Standards (QAS) Auditor Assessment; December 2020
- STRmix Refresher Training Workshop; Syracuse, NY; December 2018
- Forensic ISO/IEC 17025:2017 Assessor Training Course, Buffalo, NY; November 2018
- 1st Annual Northeast Forensic Laboratory Probabilistic Genotyping Users Group Meeting; Meriden, CT; September 2018
- FRStat Software Training; Albany, NY; September 2017
- The Latent Cause Experience; Albany, NY March 2017
- Probabilistic DNA Interpretation Workshop; New York, NY; March 2017
- STRmix Refresher Training; New York, NY; August 2016
- The 43rd Annual ASCLD Symposium; Bellevue, WA; April 2016
- Critical Competencies for Successful Laboratory Management; Saratoga Springs, NY; March 2016
- The 21st Annual CODIS Conference and Technical Leader Summit; Norman, OK; November 2015
- USACIL Advanced DNA Mixture Interpretation Workshop; Albany, NY; August 2015
- The 42nd Annual ASCLD Symposium; Washington, DC; April 2015
- STRmix Training Workshop; Syracuse, NY; November 2014
- Understanding Likelihood Ratios; Albany, NY; June 2014
- The 41st Annual ASCLD Symposium; Phoenix, AZ; May 2014
- Root Cause Analysis Training; Albany, NY; June 2013
- A View of New DNA Technologies workshop; Durham, NC; May 2013
- The 40th Annual ASCLD Symposium; Durham, NC; May 2013
- American Academy of Forensic Sciences; Washington, DC; February 2013
- Advanced Y-STR Analysis Workshop; Albany, NY; April 2012
- Forensic Laboratory and Trial Practice for the Scientist and Prosecutor; Syracuse NY; March 2012
- The 39th Annual ASCLD Symposium; Denver CO; September, 2011
- The Lean Lab Forensic Laboratory Efficiency Workshop; Denver CO; September, 2011
- PlexorHY, Identifiler Plus, Genemapper ID-X training-Sorenson Forensics; Syracuse NY, March 2011
- 16th Annual National CODIS Conference; Salt Lake City, UT; November, 2010
- The NIJ Conference 2010; Washington, DC; June, 2010
- Forensic Y-STR Training-Sorenson Genetics; Syracuse NY; April 2010

- 15th Annual National CODIS Conference; Washington DC; November 2009
- American Academy of Forensic Sciences; Denver CO; February 2009
- 14th Annual National CODIS Conference; Washington DC; November 2008
- Professionalism in the Forensic Sciences; White Plains, NY; April 2008
- Genetic Privacy Symposium; Washington DC; March, 2008
- ASCLD/LAB International Assessor Training Course; Albany, NY; July, 2007
- 8-hour Introduction to ISO/IEC 17025:2005; Albany, NY; July, 2007
- Integrity, Character and Ethics in Forensic Science; Syracuse, NY; June, 2007
- The 59th Annual Meeting of the American Academy of Forensic Sciences; San Antonio, TX; February, 2007
- National CODIS Meeting; Washington, DC; October, 2006
- DNA Auditor Training; Albany, NY; October, 2006
- Forensic Kinship Analysis; Albany, NY; May, 2006
- 34th Annual Crime Laboratory Development Symposium; Atlanta, GA; May, 2006
- ASCLD 33rd Annual Crime Laboratory Directors Symposium; Phoenix, AZ; October, 2005
- Forensic DNA Mixture Statistics Workshop; Albany, NY; July, 2005
- Path to Resiliency-A model for supervisor wellness; Syracuse, NY; May, 2005
- Interpersonal Skills During Tense Times-Management class; Syracuse, NY; December, 2004
- American Academy of Forensic Sciences Annual Meeting; Dallas, TX; February, 2004
- National CODIS Conference; Fairfax, VA; October, 2003
- Time Management for Supervisors; Syracuse, NY; October, 2003
- Uncertainty and Measurement Assurance for Accredited Labs; Albany, NY; September, 2003
- Incident Command System Orientation; Syracuse, NY; January, 2003
- The 30th Annual Symposium on Crime Laboratory Development; St. Petersburg, FL; October, 2002
- Third Annual NIJ DNA Grantees Workshop; Washington, DC, June, 2002
- Promoting Safety in the Workplace Through the Prevention of Sexual Harassment; Syracuse, NY; June 2002
- ASCLD/LAB Inspector Training Class; Albany NY; April, 2002
- The 29th Annual Symposium on Crime Laboratory Development; Phoenix, AZ; December, 2001
- Use of the DNA Audit Document; Concord, New Hampshire; November 2001
- Second Annual NIJ DNA Grantees Workshop; Washington, DC; June, 2001
- Short Tandem Repeat Analysis Data: Processing, Interpretation, and Storage workshop; Seattle, WA; February, 2001
- The 53rd Annual Meeting of the American Academy of Forensic Sciences; Seattle, WA; February, 2001
- DAB Audit Seminar, Albany NY ; October 2000
- The 28th Annual Symposium on Crime Laboratory Development, Buffalo, NY; September, 2000
- Management Course "Lessons in Leadership", Syracuse, NY; August, 2000
- Forensic DNA Statistics Workshop, Rochester, NY; June, 2000
- Management Course "Confrontation Avoidance"; Syracuse, NY; June, 2000
- The 52nd Annual Meeting of the American Academy of Forensic Sciences; Reno, NV; February, 2000

- NIJ Investigative and Forensic Sciences Division DNA Grantees' Workshop; Washington, DC; March 2000
- Third Annual DNA Forensics meeting sponsored by Cambridge Healthtech Institute; MacLean, VA, June 1999
- The Ninth International Symposium on Human Identification sponsored by Promega Corporation; Orlando, FL; October, 1998
- An Advanced Training course in the use of the ABI Prism 310 Genetic Analyzer sponsored by Perkin Elmer Applied Biosystems; Austin, TX; July, 1998
- An STR Analysis Workshop presented by the FBI at a SWGDAM (Southwestern Group of DNA Analysis Working Methods) conference; Austin, TX; May, 1998
- A basic bloodstain pattern analysis course that consisted of 40 hours of classroom instruction and practical coursework; Georgetown, TX; February, 1998
- The DNA Databank and Repositories meeting sponsored by the Armed Forces Institute of Pathology; Chicago, IL; December, 1997
- The Third Annual Forensics Workshop sponsored by the United States Air Force Office of Special Investigations; San Antonio, TX; October, 1997
- Specialized CODIS Training School at the SAIC headquarters; Vienna, VA.; August, 1997

Select Funded Research

- Deployable and Trackable Sexual Assault Evidence Kits; Department of the Air Force Small Business Innovation Research (AFX Phase I SBIR); Co-PI, 2023
- A novel method for improved separation of metagenomic sample for preservation and identification; National Institute of Health, Co-PI, 2021-2022
- Single Cell Capture for Identification and Attribution of Biological Weapons; CUSE grant, Co-PI, 2021-2023

Publications

- Bright, J.A, Richards, R., Kruijver, M. Kelly H., McGovern C., Magee A., McWhorter A., Ciecko, A., Peck B., Baumgartner C., Buettner, C., McWilliams, S., McKenna, C., Gallacher C., Mallinder, B., Wright, D. Johnson, D., Catella, D., Lien, E., O'Conner, C., Duncan, G., Bundy, J., Echard, J., Lowe, J., Stewart, J., Corrado, K., Gentile, S., Kaplan, M., Hassler, M.,McDonals, N. Hulme, P., Oefelein, R.H., Montpetit, S., Strong, M., Noel, S., Malsom, S., Myers, S., Welti, S., Moretti, T., McMahan, T., Grill, T., Kalafut, T., Greer-Ritzheimer, M., Beamer, V., Taylor, D.A., Buckleton, J.S. Internal Validation of STRmix-A multi laboratory response to PCAST. *Forensic Science International: Genetics*. Vol 34, 11-24, 2018.

- Stephen J. Grimme, Xiang-Dong Gao, Paul S. Martin, Kim Tu, Serguei E. Tcheperegine, Kathleen Corrado, Anne E. Farewell, Peter Orlean, and Erfei Bi. Deficiencies in the Endoplasmic Reticulum (ER)-Membrane Protein Gab1p Perturb Transfer of Glycosylphosphatidylinositol to Proteins and Cause Perinuclear ER-associated Actin Bar Formation. *Mol. Biol. Cell. Vol. 15, Issue 6, 2758-2770, June 2004.*
- Chamberlain, J.S., K. Corrado, J.A. Rafael, G.A. Cox, M. Hauser, and C. Lumeng. Interactions between dystrophin and the sarcolemma membrane. *Soc. Gen. Physiol. Ser. 52, 19-29, 1997.*
- Corrado, K., J.R. Rafael, P.L. Mills, N.M. Cole, J.A. Faulkner, K. Wang, and J.S. Chamberlain. Transgenic *mdx* mice expressing dystrophin with a deletion in the actin-binding domain display a "mild Becker" phenotype. *J. Cell Biol. 134, 873-884, 1996.*
- Rafael, J.A., G.A. Cox, K. Corrado, D. Jung, K.P. Campbell, and J.S. Chamberlain. Forced expression of dystrophin deletion constructs reveals structure-function correlations. *J. Cell Biol. 134, 93-102, 1996.*
- Pringle, J.R., E. Bi, H.A. Harkins, J.E. Zahner, C. De Virgilio, J. Chant, K. Corrado, and H. Fares. Establishment of cell polarity in yeast. *Cold Spring Harbor Symp. Quant. Biol. 60, 729-744, 1995.*
- Corrado, K., P.L. Mills, and J.S. Chamberlain. Analysis of the actin-binding domain of dystrophin. *FEBS Lett. 344, 255-260, 344.*
- Chenevert, J., K. Corrado, A. Bender, J.R. Pringle, and I. Herskowitz. *BEM1*, a yeast gene necessary for cell polarization whose product contains two SH3 domains. *Nature. 356, 77-79, 1992.*
- Chant, J., K. Corrado, J.R. Pringle, and I. Herskowitz. The yeast *BUD5* gene, which encodes a putative GDP-GTP exchange factor, is necessary for bud-site selection and interacts with bud-formation gene *BEM1*. *Cell. 65, 1213-1224, 1991.*