



Norah Rudin, Ph.D.

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CURRICULUM VITAE

1/1/2017

EDUCATION

1981-1987. Ph.D., Molecular biology/Genetics, Department of Biology, Brandeis University, Waltham, Massachusetts.

1975-1979. B.A., Zoology, Pomona College, Claremont, California.

PROFESSIONAL ACTIVITIES

1991-present. Forensic DNA Consultant.

1999-2002. Acting DNA Technical Leader (consultant), San Diego Sheriff's Office DNA Laboratory.

1999. Acting DNA Technical Leader (consultant), San Francisco Police Department Criminalistics Laboratory.

1997-1999. Acting DNA Technical Leader (consultant), Idaho State Department of Law Enforcement DNA Laboratory.

1997-2004. Developer, instructor of online courses with Knowledge Solutions; *Introduction to Forensic DNA, Fundamentals of Forensic Science, Arson and Explosives, Toolmarks and Firearms.*

1995-2001. Instructor, University of California at Berkeley Extension; *Survey of Forensic Sciences, Fundamentals of Forensic DNA, Careers in Forensic Science, Advanced Topics in Forensic Science.*

1991-1993. DNA Technical Leader, California State Department of Justice DNA Laboratory.

1987-1990. Post-doctoral fellow, Lawrence Berkeley Laboratory, Berkeley, California.

PROFESSIONAL ORGANIZATIONS

California Association of Criminalists (CAC)

American Academy of Forensic Science (AAFS), Fellow

American Board of Criminalistics (D-ABC), Diplomate

SOFTWARE

Principal in SCIEG, a non-profit company, housing *Lab Retriever*, a free, open-source software tool, for calculating likelihood ratios with a probability of drop-out, and training and education in probabilistic genotyping.

AWARDS, HONORS

2016. President's Council of Advisors on Science and Technology (PCAST) panel discussion of forensic science practices, Washington D.C.

- 2014-2015. National Institute of Justice Grant 2013-DN-BX-K029 2013-DN-BX-K029. Advancing probabilistic approaches to interpreting low-template DNA profiles and mixtures: Developing theory, implementing practice. (Co-PIs Kirk Lohmueller and Keith Inman)
- 2013-. The Constitution Project; Committee on DNA Collection; Co-chair
2009. Service Award, California Association of Criminalists
2007. Reviewer, United Nations Office of Drug and Crime Manual
- 2007-2011. Commonwealth of Virginia Scientific Advisory Committee
- 1983-1985. National Institute of Health genetics training grant
- 1981-1985. Goldwyn Fellowship

BOOKS AND CHAPTERS

- Inman, K. and Rudin N. *Sequential Unmasking: Minimizing Observer Effects in Forensic Science.*, Encyclopedia of Forensic Sciences 2nd Ed. Siegel, J.A., Saukko, P.J., Waltham:Academic Press, 2013.
- Rudin N. and Inman, K. *An Introduction to Forensic DNA Analysis*, CRC Press Inc., Boca Raton, FL. 1997, 2001.
- Inman, K. and Rudin, N. *Principles and Practice of Criminalistics: The Profession of Forensic Science*, CRC Press Inc., Boca Raton, FL, 2000.
- Rudin N. and Inman, K. Editors, *Protocols in Forensic Science* series, CRC Press, incl. *Scientific Protocols for Forensic Examination of Clothing*, Jane Taupin and Chesterene Cwiklik; *Scientific Protocols for Fire Investigation*, John Lentini; *Ethics in Forensic Science: Professional Standards for the Practice of Criminalistics*, Peter Barnett.
- Rudin, N. *Dictionary of Modern Biology*. Barron's Educational, Hauppauge, NY. 1997.
- Inman, K., and Rudin, N. Scientific Basis of DNA Typing and Overview of Forensic DNA Typing in *Forensic Evidence*, California District Attorneys Association 1999.
- Rudin, N. and Inman, K. DNA Based Identification in: *Biometrics: Personal Identification in Networked Society*, Kluwer Academic Publishers, 1999.
- Inman, K. and Rudin N., *DNA Demystified, Solving Crimes in the 90's; An Introduction to Forensic DNA Typing*, Self-published, 1994.

ACADEMIC PUBLICATIONS

- Marsden, C.D., Rudin, N., Inman, K., Lohmueller, K.E., An assessment of the information content of likelihood ratios derived from complex mixtures. 2016. *Forensic Science International: Genetics*. **22**, 64-72
- Haned, H., Gill, P., Lohmueller, K., Inman, K., Rudin, N., Validation of probabilistic genotyping software for use in forensic DNA casework: definitions and illustrations. 2016. *Science and Justice*. **56**, 104-108.
- Inman, K., et al. Lab Retriever: a software tool for calculating likelihood ratios incorporating a probability of drop-out for forensic DNA profiles. 2015. *BMC Bioinformatics* **16**:298
- Lohmueller, K.E., Rudin, N., Inman, K. Analysis of allelic drop-out using the Identifiler® and PowerPlex® 16 forensic STR typing systems. 2014. *Forensic Science International: Genetics*. **12**, 1-11.

- Lohmueller, K.E., Rudin, N., Calculating the Weight of Evidence in Low-Template Forensic DNA Casework. *J. Forensic Sci.* **58** (S1) 2013. P.S243-S249
- Inman, K. and Rudin, N. The Origin of Evidence. *Forensic Science International*. 2002. **126** p. 11-16.
- Brettell, T.A., Rudin, N., Saferstein, R. 2003. Forensic Science. *Anal. Chem.* **75**, p. 2877-2890.
- Brettell, T.A., Inman, K., Rudin, N., Saferstein, R. 2001. Forensic Science. *Anal. Chem.* **73**, p. 2735-2744.
- Brettell, T.A., Inman, K., Rudin, N., Saferstein, R. 1999. Forensic Science. *Anal. Chem.* **71** p. 235R-255R.
- Rudin, N. And Inman, K. 1997. Exonerated by Science. *Jurimetrics J.* **37**, p. 319-323.
- Rudin, N. 1993. Beyond RFLP. *TIE-LINE*. Vol. 17, No. 1 p. 53-54.
- Myers, S.P., and N. Rudin. 1993. Evaluation of Centricon 100 Filtration Units on the *HaeIII* Digestion Efficiency of DNA Extracted from Bloodstains. *TIE-LINE*. Vol. 17, No. 1 p. 55.
- Dora, E.G., Rudin, N. Martell, J.R., Esposito, M.S., Ramirez, R.M. 1999. RPD3 (REC3) mutations affect mitotic recombination in *Saccharomyces cerevisiae*. *Current Genetics* **35**: 68-76.
- Fishman-Lobell, J., Rudin, N. and J. E. Haber. 1992. Two alternative pathways of double-strand break repair that are kinetically separable and independently modulated. *Mol. Cell Biol.* **12**:3 1292-1303.
- Rudin, N, E. Sugarman and J. E. Haber. 1989. Genetic and physical analysis of double-strand break repair and recombination in *Saccharomyces cerevisiae*. *Genetics* **122**: 519-534.
- Rudin, N., and J.E. Haber. 1988. Efficient repair of *HO*-induced chromosomal breaks in *Saccharomyces cerevisiae* by recombination between flanking homologous sequences. *Mol. Cell Biol.* **8**:9 3918-3928.
- Haber, J.E., R. Borts, B. Connolly, M. Lichten, N. Rudin and C. I. White. 1988. Physical monitoring of meiotic and mitotic recombination in yeast. In *Nucleic Acid Research and Molecular Biology*. Vol. 35 p. 212-262.
- Rudin, N., Cis-acting regions involved in mating type interconversion in the yeast *Saccharomyces cerevisiae*. *Ph.D. Thesis*, Brandeis University, 1988.

ABSTRACTS AND PRESENTATIONS

- Haned, H., Gill, P., Lohmueller, K., Inman, K., Rudin, N., 2017. Validation of probabilistic genotyping software for use in forensic DNA casework: definitions and illustrations, AAFS, New Orleans, LA
- Rudin, N., 2017, Complex DNA profile interpretation: stories from across the pond. Systems for Medical Decision Support and Forensic Identification, Prague, Czech Republic.
- Rudin, N., Inman, K., 2016. Complex DNA profile interpretation: Stories from across the pond, Newton Institute, Cambridge, U.K.
- Rudin, N., Inman, K., 2016. Fundamental Principles of Forensic Science: Letting go of Individualization, CAC, Los Angeles, CA.
- Panelist, Mixture Interpretation and Statistics Town Hall Meeting, AAFS, 2016, Las Vegas, NV.

- Marsden, C., Rudin, N., Inman, K., Lohmueller, K., 2015. Defining the limits of forensic DNA profile interpretation: An assessment of the information content inherent in complex mixtures., NIST International Symposium on Forensic Science Error Management, Washington D.C.
- Rudin, N., 2014 Conviction and exoneration in Cook Co., The story of a questionable Y-STR interpretation, CAC Rohnert Part.
- Marsden, C., Rudin, N., Inman, K., Lohmueller, K., 2015. Defining the limits of forensic DNA profile interpretation: An assessment of the information content inherent in complex mixtures., CAC, Ventura, CA.
- Rudin, N., 2015. Forensic DNA Statistics: DON'T PANIC!. NACDL, Las Vegas, NV.
- Rudin, N., 2015. Another questionable Y-STR profile interpretation: the story continues CAC, Ventura, CA.
- Marsden, C., Rudin, N., Inman, K., Lohmueller, K., 2015. Defining the limits of forensic DNA profile interpretation: An assessment of the information content inherent in complex mixtures, AAFS, Orlando, FL.
- Rudin, N., Conviction and exoneration in Cook Co., The story of a questionable Y-STR interpretation, CAC Rohnert Part, 2014.
- Rudin, N., Burley, L. Turns out, you CAN do PCR in a barn: Exceeding the limits of science – a case report, CAC meeting Rohnert Part, 2014.
- Marsden, C., Rudin, N., Inman, K., Lohmueller, K. Defining the limits of forensic DNA profile interpretation: An assessment of the information content inherent in complex mixtures. CAC Rohnert Part, 2014.
- Inman, K., Rudin N., Lohmueller K., 2014. *Lab Retriever*, Probabilistic Software Workshop, Promega International Symposium for Human Identity, Phoenix, AZ.
- Inman, K., Rudin N., Lohmueller K., 2014, Probabilistic Genotyping and *Lab Retriever*, CAC study group, Richmond CA, Aug 26.
- Inman, K., Rudin N., Lohmueller K., 2014, Probabilistic Genotyping and *Lab Retriever*, CAC meeting, Pasadena CA, Aug 26.
- Inman, K., Rudin N., Lohmueller K., 2013. Calculating Likelihood Ratios Incorporating a Probability of Drop-out using the free program *Lab Retriever*. ½ day Workshop, Promega International Symposium for Human Identity, Atlanta, GA.
- Lohmueller K., Rudin N., Inman, K., 2013. Analysis Of Allelic Drop-Out Using The Identifiler® And PowerPlex® Forensic STR Typing Systems II. Evaluation Of Estimated Drop-Out Probabilities, Presentation, AAFS, Washington D.C.
- Inman, K., Lohmueller K., Rudin N., 2013. Analysis of allelic drop-out using the Identifiler® and PowerPlex® 16 forensic STR typing systems I. Estimation of drop-out probabilities, Presentation, AAFS, Washington D.C.
- Inman, K., Rudin N., Lohmueller K., 2013. Calculating Likelihood Ratios Incorporating a Probability of Drop-out: Introducing *Lab Retriever*, a free and user-friendly software program. Workshop, AAFS, Washington D.C.
- Rudin, N., Inman, K., Circumstantial Evidence that Supports an Inference for the Defense: Getting the most out of your DNA profile, 2013. NACDL conference, Washington D.C.
- Inman, K., Rudin N., Lohmueller K., 2012. Calculating Likelihood Ratios Incorporating a Probability of Drop-out: A New Web-based Tool, CAC, Bakersfield, CA.

- Lohmueller K., Rudin N., Inman, K., 2011. Approaches to Measure the Strength of DNA Evidence Exhibiting Possible Stochastic Effects. CAC, Sacramento, CA.
- Inman, K., Rudin N., Lohmueller K. 2011. A review of detection thresholds and their application to low-template DNA samples. CAC, Sacramento, CA.
- Lohmueller K., Rudin N., Inman, K. 2011. Performance of statistical approaches to measure the strength of DNA evidence exhibiting possible stochastic effects. ICFIS, Seattle, WA.
- Lohmueller, K., Rudin, N., 2011. The application of likelihood ratios using allelic drop-out to case samples, ICFIS, Seattle, WA.
- Lohmueller K., Rudin N., Inman, K. 2011. Performance of Statistical Approaches to Measure the Strength of DNA Evidence Exhibiting Possible Stochastic Effects, AAFS meeting, Chicago, IL.
- Lohmueller K., Rudin N., Inman, K. 2010. Analysis of allelic drop-out using the Identifiler STR multiplex. Promega Human Identity Symposium, San Antonio, TX.
- Rudin, N. and Inman, K., 2010. Workshop: Introduction to perception, observer effects, bias, and expectation in forensic science, AAFS, Seattle, WA.
- Rudin, N., 2010, Defining the science in forensic science, part of a symposium “Just science, how scientists can reform the criminal justice system,” AAAS, San Diego, CA
- Lohmueller K., Rudin N., Inman, K. 2010, Tools for estimating the weight of evidence for difficult profiles. CAC, Oakland, CA.
- Rudin, N., and Inman, K., 2008. The Role of Forensic Science in the Innocence Movement, CAC, Sacramento, CA.
- Rudin, N., 2008. The Consequence of Keg Stands. CAC, Sacramento, CA.
- Rudin, N., 2005. Y-STRs Come of Age: A disputed interpretation. CAC, Oakland, CA.
- Rudin, N., 2003. It Takes a Criminalist to see the Forest for the Trees. CAC, San Diego, CA.
- Rudin, N. 2002. Houston, We Have a Problem. CAC, Huntington Beach, CA.
- Rudin, N. 2002. The Database Hit that Missed the Mark. CAC, San Francisco, CA.
- Rudin, N. 2002. Biological Evidence as Transfer Evidence. CAC, San Francisco, CA.
- Rudin, N. and Inman, K. 1999. The Origin of Evidence. CAC, Oakland, CA.
- Rudin, N. 1999. Case Review. CAC, Oakland, CA.
- Rudin, N. 1998. DNA Case Review. CAC, Monterey, CA.
- Rudin, N. and Inman K. 1993. Development of Mini-satellite Variant Repeat (MVR) Analysis for Forensic Samples. Promega Human Identity Symposium, Scottsdale, AZ.
- Barcellos, L., and Rudin, N. 1993. The Case of the Laundered Results. CAC, Berkeley, CA.
- Rudin, N., and Inman, K. 1993. Development of Mini-satellite Variant Repeat for Forensic Analysis. CAC, Berkeley, CA.
- Rudin, N., 1993. Evaluation of Methods involving PCR Amplification of Additional DNA Sequence and Length Polymorphisms for Forensic Typing. AAFS, Boston, MA
- Rudin, N.R., Konzak, K., Gima, L., Brewer, L., Buoncristiani, M., Horne, M., Inman, K., Ma, M., Pierson, M., Sims, G., Bashinski, J. 1992. A Systematic Study of the Effect of Various Environmental Abuses on RFLP and PCR Analysis of Forensic Samples. Promega Human Identity Symposium, Scottsdale, AZ.
- Rudin, N.R., Konzak, K., Gima, L., Brewer, L., Buoncristiani, M., Horne, M., Inman, K., Ma, M., Pierson, M., Sims, G., Bashinski, J. 1992. A Systematic Study of the Effect of

- Various Environmental Abuses on RFLP and PCR Analysis of Forensic Samples. AAFS, New Orleans, LA
- Rudin, N.R., Konzak, K., Gima, L., Brewer, L., Buoncristiani, M., Horne, M., Inman, K., Ma, M., Pierson, M., Sims, G., Bashinski, J. 1991. A Systematic Study of the Effect of Various Environmental Abuses on RFLP and PCR Analysis of Forensic Samples. CAC, Ontario, CA.
- Rudin, N., H.W. Moise, J.T. Brown and M.S. Esposito. 1990. The *REC3* gene of *S. cerevisiae*: molecular cloning, disruption and DNA sequencing. *Yeast*: (Spec Iss.)
- Moise, H.W., Rudin, N. J.T. Brown and M.S. Esposito. 1990. The *REC1* DNA strand-transfer protein of *Saccharomyces cerevisiae* is required for recombination, X-ray damage repair, mating-type switching and meiosis. In abstracts of papers presented at the 1990 meeting on yeast genetics and molecular biology, The Hague, The Netherlands.
- Fishman-Lobell, J., N. Rudin and J. Haber. 1990. Increasing the distance between direct repeats slows the kinetics of double-strand break induced recombination. In abstracts of papers presented at the 1990 meeting on yeast genetics and molecular biology, The Hague, The Netherlands.
- Rudin, N., H. Moise, J.T., Brown and M.S. Esposito. 1989. The *REC1*, *REC3* AND *REC4* genes of *Saccharomyces cerevisiae*; *in vivo* and *in vitro* phenotypes of conditional hyporecombination mutants. Abstracts of FASEB conference on genetic recombination and genome rearrangements, July 9-14, 1989, p.48.
- Brown, J. T., N. Rudin and M.S. Esposito. 1989. The *REC1*, *REC3* AND *REC4* genes of *Saccharomyces cerevisiae*. AAAS annual meeting, San Francisco, CA. Abs. 428.
- Esposito, M.S., N. Rudin and G.T. Thomson. 1989. Novel YAC vectors and *Saccharomyces cerevisiae* recipients for study of human DNA recombination and ordering of YAC human genomic libraries. Abstracts of papers presented at the 1989 Cold Spring Harbor meeting on genome mapping and sequencing, April 26-30, 1989, p.74.
- Esposito, M.S., J.T. Brown, and N. Rudin. 1988. The *REC1* gene of *Saccharomyces cerevisiae* is required for spontaneous mitotic gene conversion, intragenic recombination, intergenic recombination, genomic stability, and sporulation *In vivo* and *in vitro* properties of the temperature sensitive mutation *REC1-1*. *Yeast* 4: s308 (Spec. Iss.).
- Rudin, N, E. Sugarman and J.E. Haber. 1988. *HO*-endonuclease-induced recombination in yeast. *Yeast* 4: s309 (Spec. Iss.).
- Esposito, M.S., J.T. Brown, and N. Rudin. 1988. The *REC1* gene of *S. cerevisiae* is required for spontaneous mitotic gene conversion, intra- and intergenic recombination, genomic stability, repair of X-ray damage and sporulation. In abstracts of papers presented at the 1988 meeting on Intermediates in Genetic Recombination. Cold Spring Harbor Laboratory, Cold Spring Harbor, New York. p.194.
- Rudin, N, E. Sugarman and J.E. Haber. 1988. *HO*-endonuclease-induced recombination in yeast. In abstracts of papers presented at the 1988 meeting on Intermediates in Genetic Recombination. Cold Spring Harbor Laboratory, Cold Spring Harbor, New York. p.193.
- Rudin, N., E. Sugarman, and J.E. Haber. *HO*-induced recombination events in a *LACZ* duplication system. In Abstracts of papers presented at the 1987 meeting on yeast genetics and molecular biology, San Francisco California. p. 398.

- Rudin, N., S. Stewart, and J.E. Haber. Cis-acting sequences in mating-type switching. In abstracts of papers presented at the 1987 meeting on Yeast genetics and molecular biology, San Francisco, California. p. 176.
- Rudin, N., S. Stewart and J. E. Haber. 1986. Homologous and non-homologous sequences involved in mating type switching. *Yeast* **2**: s330 (suppl).
- Rudin, N. and J. E. Haber. 1985. Effect of Interchromosomal Mating-type Switching in *S. cerevisiae*. *Genetics* **110**: s60 (suppl).
- Rudin, N., B. Connolly, M. Kluznik and J. E. Haber. 1985. Effects of interchromosomal mating type switching in *S. cerevisiae*. In abstracts of papers presented at the 1985 meeting on Molecular Biology of Yeast. Cold Spring Harbor Laboratory, Cold Spring Harbor, New York. p. 122.

OPINION AND EDITORIAL ARTICLES

- Rudin, N., and Inman K., Fundamental principles in forensic science: Letting go of individualization, *CACNews*, 4th Quarter, 2016
- Rudin, N., and Inman K., Could your lab be next: A sentinel event in the profession of forensic science, *CACNews*, 4th Quarter, 2015
- Rudin, N., and Inman K., Causes of wrongful conviction (Don't believe everything you think), *CACNews*, 1st Quarter, 2014
- Rudin, N., and Inman K., What science could (and should) do for justice, *CACNews*, 4th Quarter, 2013
- Rudin, N., and Inman K., Can we talk?, *CACNews*, 3rd Quarter, 2013
- Rudin, N., and Inman K., We're probably thinking About probabilistic approaches to weighting evidence, *CACNews*, 2nd Quarter, 2013
- Rudin, N., and Inman K., Journey to the Red Planet: Curiosity meets Forensic Science *CACNews*, 1st Quarter, 2013
- Rudin, N., and Inman K., The Proceedings of Dinner: Bridging the Generations *CACNews*, 4th Quarter, 2012
- Rudin, N., and Inman K., Lake Errbegon "... where the evidence is unambiguous, the analyses robust, and all the criminalists are above average. " *CACNews*, 3rd Quarter, 2012
- Rudin, N., and Inman K., A Decade of the Proceedings of Lunch – Thinking Allowed, and thinking aloud *CACNews*, 2nd Quarter, 2012
- Rudin, N., and Inman K., The discomfort of thought – a discussion with John Butler *CACNews*, 1st Quarter, 2012
- Rudin, N., and Inman K., To err is human and inevitable, *CACNews*, 4th Quarter, 2011
- Rudin, N., and Inman K., Why politics is worse for science than the law, *CACNews*, 2nd Quarter, 2011
- Rudin, N., and Inman K., That's not what we meant: Sequential Unmasking revisited, *CACNews*, 1st Quarter, 2011
- Rudin, N., and Inman K., How low can you go? The experience fallacy: Quothe the raven "In my experience," never more! *CACNews*, 4th Quarter, 2010
- Rudin, N., and Inman K., How low can you go? Should you just say no? *CACNews*, 3rd Quarter, 2010

- Rudin, N., and Inman K., 'tis the Season: The NAS "one year later" Commemorative edition, 2nd Quarter, 2010
- Rudin, N., and Inman K., Dining with a Founder: A conversation with Jay Siegel, *CACNews*, 1st Quarter, 2010
- Thompson., *et al.*, Commentary on: Thornton JI., Letter to the editor – a rejection of "working blind" as a cure for contextual bias. *J Forensic Sci*, 55(6), 2011
- Krane, D., *et al.*, Commentary on: Budowle B., *et al.* A perspective on errors, bias, and interpretation in the forensic sciences and direction for continuing advancement. *J Forensic Sci*, 55(1), 2010.
- Krane, D., *et al.*, Time for DNA Disclosure, *Science*, 326, 2009.
- Rudin, N., and Inman K., Dining with a Founder, A conversation with Jay Siegel, *CACNews*, 1st Quarter, 2010.
- Rudin, N., and Inman K., How much should the analyst know and when should she know it, *CACNews*, 4th Quarter, 2009.
- Rudin, N., and Inman K., Challenging the canon, *CACNews*, 3rd Quarter, 2009
- Rudin, N., and Inman K., Stakes, steaks and stakeholders, *CACNews*, 2nd Quarter, 2009
- Krane, D., *et al.*, Authors' response to Ostrum B., Commentary on: sequential unmasking: a means of minimizing observer effects in forensic DNA interpretation. *J Forensic Sci* 54(6), 2009.
- Krane, D., *et al.*, Authors' response to Wells, J.D., Commentary on: sequential unmasking: a means of minimizing observer effects in forensic DNA interpretation. *J Forensic Sci* 54(2), 2009.
- Murphy, E., and Thompson, W.C., *et al.*, Brief of 20 Scholars of Forensic Evidence as *Amici Curiae* Supporting Respondents, *On Writ of Certiorari to the United States Court of Appeals for the Ninth Circuit, McDaniel v. Brown*, in the Supreme Court of the United States, July 24, 2009.
- Krane, D., *et al.*, Sequential Unmasking, A Means of Minimizing Observer Effects in Forensic DNA Interpretation, *J. Forensic Sci*, 53(4), 2008.
- Rudin, N., and Inman K., Administer this!, *CACNews*, 1st Quarter, 2009.
- Rudin, N., and Inman K., Who speaks for forensic science, *CACNews*, 4th Quarter, 2008.
- Rudin, N., and Inman K., The forensic disadvantage suffered by forensic scientists, *CACNews*, 3rd Quarter, 2008.
- Rudin N., and Inman K., Genetic Witness: Through the Lens of a Social Scientist, *CACNews*, 2nd Quarter, 2008.
- Rudin N., and Inman K., Keith and Norah's Top 10: Areas in which forensic science could improve, *CACNews*, 1st Quarter, 2008.
- Rudin N., and Inman K., The Flodbit Problem: What are we Doing?, *CACNews*, 4th Quarter, 2007.
- Rudin N., and Inman K., The Urban Myths and Conventional Wisdom of Transfer: DNA as Trace Evidence, *CACNews*, 3rd Quarter, 2007.
- Rudin N., and Inman K., Know the Code, *CACNews*, 2nd Quarter, 2007.
- Rudin N., and Inman K., A frosty debate: The chilling effect of a cold hit in a DNA database, *CACNews*, 1st Quarter, 2007.

Rudin N., and Inman K., Seeing DeForest AND the Trees, *CACNews*, 4th Quarter 2006.

Rudin N., and Inman K., The Pen is Mightier than the Pipette, *CACNews*, 2nd Quarter, 2006.

Rudin N., and Inman, K., The Shifty Paradigm, Part II: Errors and Lies and Fraud, Oh My! *CACNews* 1st Quarter 2006.

Rudin N., and Inman, K., The Shifty Paradigm, Part I: Who Gets to Define the Practice of Forensic Science? *CACNews* 4th Quarter 2005.

Rudin N., and Inman, K., A Hitchhiker's Guide to Accreditation, *CACNews* 3rd Quarter 2005.

Rudin N., and Inman, K., Fingerprints in Print, The Sequel: The continuing saga of a latent print misidentification in the Madrid bombing case, *CACNews* 2nd Quarter 2005.

Rudin N., and Inman, K., Fingerprints in Print: The apparent misidentification of a latent print in the Madrid bombing case, *CACNews* 4th Quarter 2004.

Rudin N., and Inman, K., Myth or Aphorism: Sayings by which we live (The Dogma of forensic science), *CACNews* 3rd Quarter 2004.

Rudin N., and Inman, K., The Culture of Bias - Part II, *CACNews* 2nd Quarter 2004.

Rudin N., and Inman, K., The Culture of Bias - Part I, *CACNews* 1st Quarter 2004.

Rudin N. and Inman, K. Which Came First, the Blood or the Print? The Rest of the Story. *CACNews* 4th Quarter 2003.

Rudin N. and Inman, K. Which Came First, the Blood or the Print? The Role of Experimentation in Forensic Casework *CACNews* 3rd Quarter, 2003.

Rudin N. and Inman, K. Experts on experts. What is the role of the scientist in assisting an attorney with an opposing expert? *CACNews* 2nd Quarter, 2003.

Rudin N. and Inman, K. Articulating Hypotheses – the null hypothesis and beyond. *CACNews* 1st Quarter, 2003.

Rudin N. and Inman, K. Biological Evidence as Trace Evidence: The Forensic Science of DNA Typing, *CACNews*, 4th Quarter, 2002.

Rudin N. and Inman, K. The Transfer of Evidence and Back Again. *CACNews*, 3rd Quarter, 2002.

Rudin N. and Inman, K. How Far Should an Analyst Go? *CACNews*, 2nd Quarter, 2002.

Rudin N. and Inman, K. Specialist vs. Generalist. *CACNews*, 1st Quarter, 2002.

Rudin N. and Inman, K. Divisible Matter. *CACNews*, 4th Quarter, 2001.

Inman, K. and Rudin N. How much should the analyst know? *CAC News*, Fall, 1997

Rudin, N., DNA Untwisted, *San Francisco Daily Journal*, April, 1995.

TRAINING PROVIDED

1-day training on forensic statistics, likelihood ratios incorporating a probability of drop-out, SWAFS, Sept. 29, 2016

1-day training on forensic statistics, likelihood ratios incorporating a probability of drop-out, AFDA Summer workshop, June 15, 2016

2-day training on forensic statistics, likelihood ratios incorporating a probability of drop-out, Allegheny Co. PA, June 11-12, 2016

3-day training on forensic statistics, likelihood ratios incorporating a probability of drop-out, Lab Retriever statistical software, Johnson Co., KS, June 28-30, 2016

1-day training on forensic statistics, likelihood ratios incorporating a probability of drop-out, Lab Retriever statistical software, AFDA Winter workshop, Jan. 21, 2015

3-day training on forensic statistics, likelihood ratios incorporating a probability of drop-out, Lab Retriever statistical software, Cayman Islands Health Authority Forensic DNA laboratory, Mar 23-25, 2015.

1-day training on forensic statistics, likelihood ratios incorporating a probability of drop-out, Lab Retriever statistical software, San Francisco forensic DNA laboratory, Nov. 6, 2014

1-day training on forensic statistics, likelihood ratios incorporating a probability of drop-out, Lab Retriever statistical software, SWAFS, Sept. 25, 2014

3-day training on forensic statistics, likelihood ratios incorporating a probability of drop-out, Lab Retriever statistical software, Jefferson Co. Regional Crime laboratory, Sept. 9-11, 2014

3-day training on forensic statistics, likelihood ratios incorporating a probability of drop-out, Lab Retriever statistical software, Oregon State Police forensic DNA laboratory, July 22-24, 2014

2-day training on Advanced Topics in Forensic DNA Profiling, Cook County Public Defender Office, June 26-27, 2014

1-day training on forensic statistics, likelihood ratios incorporating a probability of drop-out, Lab Retriever statistical software, MAFS, June 9, 2014

1.5-day training on forensic statistics, likelihood ratios incorporating a probability of drop-out, Lab Retriever statistical software, NEAFS, May 21-22, 2014

½ day training on forensic statistics, likelihood ratios incorporating a probability of drop-out, Lab Retriever statistical software, MAAFS, May 20, 2014

3-day training on forensic statistics, likelihood ratios incorporating a probability of drop-out, Lab Retriever statistical software, Denver PD forensic DNA laboratory, July 15-17, 2013.

SELECTED INVITED SPEAKING ENGAGEMENTS

2014. Invited Speaker, Forensic DNA 101; Know the Code, Virginia Indigent Defender Conference, Sept. 16-17, 2014, Newport News, VA.

2010. Invited Speaker, The Science and Fiction of Forensic Science, *Pomona College Alumni Association*, Palo Alto, CA.

2009. Invited Speaker, What's an Allele Between Friends and other Y-STR topics, *DePaul University Law School Conference on Science and the Law*, Chicago, IL.

2008. Invited Speaker, Sequential Unmasking, *DePaul University Law School Conference on Science and the Law*, Chicago, IL.

2007. Invited Speaker, Debunking CSI, *University of Santa Clara Law School*, Santa Clara, CA, 2007

2007. Invited Speaker, DNA Transfer, *DNA boot camp, organized by the Minnesota Public Defender Office*, Brainerd, MN.

2007. Invited Speaker, Forensic DNA: The Science and Fiction of Forensic Science, *American Chemical Society*, Berkeley, CA.

2007. Invited Speaker, Literature Review of Transfer, *DePaul University Law School Conference on Science and the Law*, Chicago, IL.

2006. Invited Speaker. Mitochondrial DNA in GA v. Vaughn: a Case Example. *The Science of DNA Profiling*, Dayton, OH.

2006. Invited Speaker, The Science of Individualization, or is it?, *European Academy of Forensic Sciences*, Helsinki, Finland.
2006. Invited Speaker, The Threshold Effect, *DePaul University Law School Conference on Science and the Law*, Chicago, IL.
2005. Invited Speaker, How to work with a DNA expert, *California Public Defender's Association*, Monterey, CA.
2005. Faculty, DNA Cross Examination College, national trial skills conference organized by the *Public Defender Service of the District of Columbia*, Washington, D.C.
2004. Invited Speaker, European Circuit Conference, USAF, Garmish, Germany.
2002. Invited Speaker, Death Penalty Defense Seminar, *California Association for Criminal Justice/California Public Defender's Association*, Monterey, CA.
2001. Invited Speaker, Forensic DNA and the Law conference, *The Cyril H. Wecht Institute for Forensic Science and Law*, Duquesne University, Pittsburgh, PA.
2001. Invited Lecturer, *Institut de police scientifique et de criminologie*, University of Lausanne, Switzerland.
1998. Invited Speaker, Introduction to Forensic DNA Analysis; Technical issues in forensic DNA casework. *VIII Simposio Internacional de Criminalistica*, Cartagena, Colombia.