

## A. Jamie Cuticchia, PhD JD

(919) 747-4107

Jamie@cuticchia.com

### Summary of Professional Experience

#### Short Bio

Dr. A. Jamie Cuticchia, has over 20 years' academic and industry experience leading groups in computational biology, genomics, high-performance computing, software engineering, and genome database construction. He has raised over \$125,000,000 in research funding during his career. He has held numerous leadership positions including professorships at the Johns Hopkins University School of Medicine and the University of Toronto Faculty of Medicine. Dr. Cuticchia founded the Ontario Center for Genomic Computing, a Top 500 Supercomputing Center and the largest supercomputing center devoted solely to addressing issues of life sciences. He also held several full and part-time industrial positions including Director of Computational Biology for the MITRE Corporation, Director of Bioinformatics and Genomics for ChemGenics Pharmaceuticals, Director of Drug Discovery Information Technology for Millennium Pharmaceuticals, Consulting Vice President of Genomic Information for Ceres Genomics, and CIO for SynX Pharmaceuticals, and scientific founder of New Chemical Entities. He was Director of Bioinformatics for the Research Triangle Institute. While at Duke, Dr. Cuticchia held several concurrent bioinformatics positions within both clinical and translational research including Duke Bioinformatics Scholar. Dr. Cuticchia was ranked in 2001 as a *Genome Technology All-Star*, one of the Top 3 Bioinformaticians worldwide responsible for the success of the Human Genome Project. He has numerous publications including four books on the human genome and fifth book on microarray analysis released in 2009. In May 2009 Dr. Cuticchia was awarded a Juris Doctor degree from North Carolina Central University (*magna cum laude*) where he previously served on the *NCCU Law Review* and was Managing Editor of the *Biotechnology and Pharmaceutical Law Review*. He formed AJC Legal Services in 2009 to practice intellectual property and help entrepreneurs in the area as well as Patent Law. He holds the position of Associate Director, Research & Development at the Biotechnology and Pharmaceutical Law Institute in Durham, NC. His interest in litigation led to Dr. Cuticchia devoting time to criminal defense. He has litigated numerous cases. He continues to consult in the biotechnology area as well being a consultant to the film and television industry. His most recent book, *Genetics: a Handbook for Lawyers*, published by the ABA is a bestseller.

[www.cuticchia.com](http://www.cuticchia.com)

[www.ajclegal.com](http://www.ajclegal.com)

[http://en.wikipedia.org/wiki/A.\\_Jamie\\_Cuticchia](http://en.wikipedia.org/wiki/A._Jamie_Cuticchia)

<http://www.linkedin.com/in/jamiecuticchia>

#### ABA Books

Dr. Cuticchia's book, "Genetics: A Handbook for Lawyers," has been a best seller for the American Bar Association Publishing since its release in July 2010.

#### Education

**J.D., Doctor of Laws, *magna cum laude*,** North Carolina Central University School of Law, NC

**Ph.D., Genetics,**The University of Georgia, Athens, GA, 1992.

**B.A. Biological Sciences with Honors,**The University of Maryland, Baltimore, MD, 1987.

### Law School Honors

Staff, North Carolina Central Law Review (2007-2008, 2008-2009)  
 Staff, Biotechnology and Pharmaceutical Law Review (2007-2008)  
 Managing Editor, Biotechnology and Pharmaceutical Law Review (2008-2009)

### Cumulative Research Funding

**\$125,000,000 from 1995 – 2009 as Principal Investigator, or as a senior co-Investigator**

### Selected Research Experience (Projects)

**Cancer Clinical Trials Patient Registry** (2006)-Principal Investigator. Development of infrastructure for a national registry of cancer patients for the caBIG / NCI programs.

**Duke Comprehensive Cancer Center (2006)-Bioinformatics Core.** Provides the bioinformatics services and research for the Duke Comprehensive Cancer Center.

**Duke Center for Translational Sciences Award** (2006) – Biomedical Informatics Team. Provides strategic support for bioinformatics at Duke and as a member of National CTSA committees.

**NIDDK Central Repositories-Data** (2006)-Co-Principal Investigator. Provides scientific leadership in the area of integration of genomic and clinical trial data.

**Cancer Translation Research caTRIP** (2006)-Principal Investigator. Development of infrastructure to tackle the problems of outcomes analysis, where a clinician can access clinical, pathology, and mechanistic data from a cohort of patients to help guide the clinician in determining the best diagnostic and/or treatment modality for new patients.

**Models of Infectious Disease Agent Studies** (2004) – Co-Principle Investigator. Established a high-performance computing center for the modeling of infectious diseases.

**Genome-Proteome Database** (2003)—Project Director. Developed a new standard for the development of databases of curated biological data.

**GDB Human Genome Database** (2003)—Managing Director. Assumed management role in the maintenance of a 15 year resource for human genetic data.

**NIDDK Central Repositories-Data** (2003)—Project Director. Created a warehouse for the storage of clinical data and the process to provide such data to the scientific community. Coordinated the sample tracking between the Data, Genetic Sample, and Biological Sample facilities.

**NCI Comparative Genome Viewer** (2003)—Principal Investigator, Bioinformatics. Designed a system to support comparative genome analysis for the National Cancer Institute.

**Sigma-GenoSys Bioinformatics Consultancy** (2002)—Project Director. Performed the evaluation of bioinformatics software for the development of a Sigma-GenoSys bioinformatics business.

**Bioinformatics Support Contract** (2002)—Principal Investigator, Bioinformatics. Designed a system for the integration of clinical and mechanistic life sciences data which was produced as a prototype.

**Internet Connectivity and Network Infrastructure** (2001)—Project Director. Developed a network plan for an existing building and a newly leased secondary site. Oversaw the development of a broadband Internet connectivity strategy.

**Development and Implementation of New Methodology for Differential Protein Expression Assays** (2001)—Project Director. Software which reduced computing needs 100-fold was created for target identification in diagnostics was developed.

**Evaluation of Strategic Partners** (2001)—Project Director. Provided the bioinformatics expertise needed to make sound business judgments regarding strategic alliances in the hardware and software fields.

## Professional Experience

### 2010-

North Carolina Central School of Law

Adjunct Full Professor, NCCU School of Law (teaching in the Biotech Program)

Achievements:

- Created new course in "Genetics & the Law."

### 2009-

AJC Legal Services

Managing Attorney

Provides firm leadership in addition to focusing in Intellectual Property (US Patent Attorney), Employment Law, and Criminal Defense.

Litigation experience in Criminal law including DWI, Assault, Affray, Drug Possession, Drug Paraphernalia possession, trespass, breaking and entering, and numerous larcenies.

Patent experience in drafting patents including provisional, RCE's and Continuations in areas of biotechnology and manufacturing.

Admitted to the USPTO Bar, NC Bar, Fourth Circuit for the EDNC, VA, and pro hac vice in Maryland.

### 2006 to 2010

Duke University Health System, Durham NC  
 Duke Institute for Genome Sciences & Policy  
 Duke Comprehensive Cancer Center  
 Duke Translational Medical Institute

Duke Bioinformatics Scholar and Member Duke Biomedical Informatics Committee / CTSA Biomedical Researcher. Previously - Director, Duke Bioinformatics Group / Director Duke Cancer Center Bioinformatics Unit. Responsibilities included both providing leadership in core bioinformatics facilities, implementing caBIG (Cancer Bioinformatics Grid) technologies, and independent research. Promoted to the position of Duke Bioinformatics Scholar. The role was to provide direction for large, national projects strategically aligned with the Duke Comprehensive Cancer Center coordinated with the Duke University Health System.

Achievements

- Planning and ongoing implementation of the Duke "Clinomics" project which serves as an informatics engine supporting molecular medicine and translational research.
- Principal investigator for grants under caBIG for numerous national cancer informatics projects.
- Co-organizer of CAMDA 2006 conference.
- Strategic Planning for Bioinformatics as part of the North Carolina Research Campus Core Lab.

**2002 to 2006**

RTI, Research Triangle Park, NC.

Director for Bioinformatics.

Responsibilities included the marketing and acquisition of business in genomics and bioinformatics for RTI. Worked with members of the Bioinformatics and Genomics team to develop strategic and tactical plans for increasing RTI's business and capabilities; identify research business opportunities in government and private industry; market RTI's capabilities to potential clients; prepare proposals and negotiate contracts; lead research projects and work on projects that are led by others; make presentations and prepare papers that enhance RTI's reputation in bioinformatics; identify and recruit additional staff necessary to grow the program; and mentor staff.

## Achievements

- Served a project director, principal investigator, or co-PI on \$35,000,000 of genomic or epidemiologic research.
- Established a high-performance computational center for biological research.
- Directed the GDB Human Genome Database in its transition to RTI.
- Built a group of diverse scientific expertise including computer science, modeling, bioinformatics analysis, human genetics, and plant genomics.

**2001 to 2002**

SynX Pharma, Mississauga Ontario.

Consulting Chief Information Officer.

Established IT plan for managing business and scientific objectives. Worked with consultants and full-time staff, developed a plan for managing all information technology in business, clinical, research, and development areas of the company. Performed bioinformatics strategic planning, including creating standards for database construction, implementation, and standardization across the scientific core groups.

## Achievements

- Reduced overall computational needs for diagnostic research.
- Set a plan and timeline to remove the chaos from data handling.
- Played an important role in discussions with a major pharmaceutical partner.
- Saved over \$2,000,000 in finding economies in bioinformatics software

**1998 to 2002**

University of Toronto, Department of Medical Biophysics, Toronto Ontario.

Associate Professor, Faculty of Medicine.

Founding faculty member in the Program of Proteomics and Bioinformatics.

## Achievements

- Co-developed one of the core courses used in the program and taken by many graduate students in Medical Biophysics and Medical Genetics
- Supervised or co-supervised 3 graduate students and 3 post-doctoral fellows.

**1997 to 2001**

Hospital for Sick Children, Toronto Ontario.

Head of Bioinformatics.

Lead the development of Bioinformatics/Computational Biology. Developed both a core facility for serving the 1,500+ research scientists while working with senior hospital officials to set academic priorities for future recruitments.

Co-Director of The Centre for Applied Genomics.

Provided the bioinformatics infrastructure, support, and direction for the genome center.

Managing Director of the GDB Human Genome Database.

Established the move from the U.S. of the second most used database for human genomic information.

Founder and Director of the Ontario Centre for Genomic Computing.

Created the largest publicly accessible Application Service Provider (ASP) for bioinformatics in the world, consistently ranked in the worldwide Top500 list of supercomputers.

## Major Projects/Achievements

- Raised over \$50,000,000 in funds to support bioinformatics through government and private organizations, setting a record for the amount of money brought in by a single investigator at the Hospital for Sick Children.
- Developed a core-facility providing bioinformatics services to over 300 researchers.
- Supervised a group of up to 50 individuals with PhDs, MDs, MSs, and BAs with advanced training in computer science, engineering, mathematics, and physics.
- Re-established the GDB Human Genome Database, noted by HUGO (The Human Genome Organization) as the most noteworthy genomic event in 1999.
- Collaborated with several companies to provide bioinformatics services through HSC.
- Played a role in the design and creation of clinical trials databases.

**1996 to 1997**

ChemGenics Pharmaceuticals / Millennium Pharmaceuticals, Cambridge, MA

Director of Genomics and Information Technology.

Responsible for leading the bioinformatics and genomics departments of a 100+ person biotechnology company. Budgetary responsibility of approximately one-third of the research and development expenditure through a matrix management system.

## Major Projects/Achievements

- Developed the "Drug Source" project which organized the 1,000,000+ natural products available for drug screening.
- Developed a high-throughput LIMS system that was used to manage the automated screening procedure and interfaced with robotics and other screening technology.
- Co-developed with Pfizer a system for prioritization of drug targets for further genomic analysis using a proprietary bioinformatics system.
- Established a core group and core technologies for bioinformatics analysis for the company.
- Played a key role in merging the bioinformatics technologies of ChemGenics with Millennium Pharmaceuticals.

### 1995 to 1996

The MITRE Corporation / MitreTEK Corporation, McLean, VA.

#### Director of Computational Biology.

Responsible for leading the use of recently unclassified US Department of Defense technology into the biotechnology and pharmaceutical sectors.

#### Major Projects/Achievements

- Built from scratch a team of individuals to employ the “think-tank” technologies of MITRE to the biotechnology and pharmaceutical sectors and taught courses in genetics, molecular biology, and bioinformatics to MITRE staff.
- Successfully negotiated and lead the first projects in this area. Unfortunately, confidentiality prevents discussion regarding the customers and the work products.
- Developed technology used in Genome Explorer for integrating biological data across multiple databases. This technology was a precursor to many of the technologies used for tools such as IBM Discoverylink or NetGenics.
- Responsible for interacting with scientists at major pharmaceutical companies as part of the MITRETEK (the commercial spin-off of MITRE) marketing plan.

### 1992 to 1995

The Johns Hopkins University School of Medicine, Baltimore, MD.

Visiting Professor, Biomedical Information Sciences (1995 to 2001),

Director of Acquisition and Curation (1992 to 1995)

Assistant Professor of Biomedical Information Sciences (1992 to 1995)

Assistant Professor of Medical Genetics and Medicine (1992 to 1995)

Responsible for coordinating the needs of human genome project researchers with informatics support available from the GDB Human Genome Data Base Project. Part of the Senior Management Team for the largest bioinformatics project devoted to the human genome program.

#### Major Projects/Achievements

- Represented GDB at over 50 scientific meetings or visits to human genome centers.
- Published in conjunction with Karger (1) and The Johns Hopkins University Press (3) four books from 1992-1996 that outlined the state of the human gene map during the period of the human genome project when most disease genes were isolated.
- Responsible for spearheading the move of GDB data from proprietary software to the WWW by working with GDB top developers.
- Founding faculty member of the Division of Biomedical Information Sciences and developer of course on the role of computation in the human genome project.
- Provided the strategic leadership for data collection procedures and interfacing with all major genome centers.
- Budgetary oversight (\$2,000,000 per year) of all data activities of project, and NIH Principal Investigator for that core.
- Coordination of two satellite curation centers (Winnipeg and Dallas).
- Developed in coordination with the US DOE and the European Community the GDB Curator program that provided personnel at major European genome centers that performed GDB curation.

## Honors and Awards

Elected Managing Editor, Biotechnology and Pharmaceutical Law Review  
 Member of North Carolina Central University Law Review  
 National Cancer Institute, caBIG Outstanding Achievement Award  
 Research Triangle Institute President's Award  
 Inductee, Genome Academy  
 Genome Technology All-Star  
 Recipient of SGI Endowment in Bioinformatics  
 SGI Showcased Outstanding Researcher  
 Canadian Top 40 under 40 Nominee  
 Recipient of IBM SUR Award for Bioinformatics  
 Elected to Sigma Xi Honor Society  
 University of Georgia Travel Award  
 Genetics Department-NIH Training Award  
 University of Georgia Graduate Fellow Fellowship  
 Genetics Society of America Travel Award  
 Outstanding Graduate in the Biological Sciences  
 Honors Program Graduate in addition to Cum Laude  
 American Legion Oratorical Scholarship  
 University of Maryland Baltimore County Distinguished Scholar  
 Maryland Distinguished Scholar (highest award in State academics)

## Professional Activities

Appointed to the National Association of Lawyers and Scientists  
 Managing Editor, Biotechnology and Pharmaceutical Law Journal  
 Corresponding Editor, Human Mutation  
 Board Member, Human Genome Variation Society  
 Founding Board Member, Human Genome Variation Society  
 Reviewer, NIH ad hoc panel on Brain Informatics  
 Reviewer, Wellcome Trust, Bioinformatics  
 Member, Sun Centers of Excellence  
 Member, North Carolina Genomics and Bioinformatics Consortium  
 Member, High Performance Computing Focus Group, NCGBC

## Lecture and Teaching Experience

- 2011** Professor, Genetics and the Law
- 2010** Speaker, Duke Cancer Institute
- 2009** Speaker, Duke Translational Medicine Institute  
 Speaker, Duke Biostatistics Department Seminar  
 Speaker, IGSP (Duke)
- 2008** Speaker, CHI Biomarker Summit  
 Lecturer, Genome Academy (Duke)
- 2007** Co-Organizer, Colloquium in Biotechnology and Pharmaceutical Law, North Carolina Central University school of Law
- 2006** Co-Organizer, NCCU Conference on Pharmaceutical Law  
 Speaker, University of Missouri Animal Genomics Program

- 2005** Speaker, Human Genome Variation Conference  
Seminar, Duke Institute for Genome Sciences & Policy  
Program Committee Chair, Sun Center's of Excellence in Bioinformatics Conference
- 2004** Speaker, Human Genome Variation Conference  
Speaker, North Carolina Biotech Investment Expo
- 2003** Variations Conference, Los Angeles  
Human Genome Variation Society Conference, Melbourne, Australia  
Mutation Detection and Variation Conference, Palm Cove, Australia
- 2002** Medical Biophysics 1011H, Bioinformatics Course, Toronto  
Bioinformatics Presentation, Jansen Pharmaceuticals, Antwerp
- 2001** Keynote Speaker, IBC USA Conference on Research Informatics, San Diego  
Speaker, American Society of Human Genetics, San Diego  
Keynote Speaker, Canadian Supercomputing Conference, Windsor  
MBP Student Selected Keynote Speaker, Toronto  
Presenter, Ottawa Life Sciences Conference, Ottawa  
Speaker, Canadian Microbial Conference, Waterloo  
Speaker, HUGO MDI Conference, San Diego  
Keynote Speaker, Canadian Biodiversity Conference, Ottawa  
Lecturer, High School Teachers Training in Genomics, Toronto
- 2000** Invited Lecturer for First Chinese Bioinformatics Course, Peking University, Beijing  
Invited Seminar, BioinfoTech, Cheng Du,  
Keynote Speaker, Biosilico 2000, New York  
Panelist, Pacific Symposium on Biocomputing, Honolulu  
Symposium Co-Chair, HGM 2000, Vancouver  
Speaker, Bioventure Ontario 2000, Toronto  
Workshop Instructor, Canadian Genetic Disease Network, Ottawa  
Keynote Speaker, Toronto Biotech Initiative Breakfast, Toronto  
Speaker, Cold Spring Harbor Genome Mapping Conference, Cold Spring Harbor  
Invited Seminar, Ceres Inc., Malibu
- 1999** Keynote Speaker, Roche Leaders in Oncology, Palm Springs  
Keynote Speaker, Pasteur Merieux Connaught Research Meeting, Montreal  
Keynote Speaker, Toronto Biotechnology Initiative, Toronto  
Speaker, Mutation Database Initiative Conference, San Francisco  
Organizer and Speaker, GDB Editors Conference, San Francisco  
Speaker, CAC3 High Performance Computing Conference, Kingston  
Seminar, University of Toronto Dept. of Medical Genetics, Toronto  
Electronic Presenter, Genome Sequencing and Analysis Conference, Miami  
Speaker, Ontario Ventures Conference, Toronto  
External Invited Speaker, CGDN Conference, Collingwood
- 1998** Speaker, Mutation Database Initiative Conference, Brisbane  
Seminar, Seneca College, Toronto  
Speaker, SAIM Conference, Toronto  
External Invited Speaker, CGDN Conference, Montreal  
Seminar, Emory University School of Medicine, Atlanta
- 1997** Seminar, KAIST Institute, Taejon  
Speaker, First Italian-Canadian Genomics Conference, Toronto  
Seminar, Biochemistry Division, Hospital for Sick Children, Toronto  
Seminar, Wyeth-Ayerst Pharmaceuticals, Princeton  
Seminar, Microcide Pharmaceuticals, Sunnyvale



- 1996** Seminar, ChemGenics Pharmaceuticals, Cambridge  
Seminar, The Genetics Institute, Cambridge  
Seminar, Astra Research Center Boston, Cambridge  
Seminar, Allelix Pharmaceuticals, Mississauga
- 1995** Seminar, The University of Toronto and the Hospital for Sick Children, Toronto  
Seminar, Allelix Pharmaceuticals, Mississauga  
Speaker, Fourth International Chromosome 9 Workshop, Williamsburg  
Instructor, Neuroscience Course, Johns Hopkins, Baltimore  
Speaker, International Chromosome 18 Workshop, Philadelphia  
Speaker and Co-organizer, GDB Remote Node Consortium Meeting, Paris  
Speaker and Organizer, First International Editorial Assistant Summit, Paris
- 1994** Speaker, Second Chromosome 7 Workshop, Toronto  
Speaker, Second Human Chromosome 8 Workshop, Oxford  
Speaker, Third International Chromosome 22 Workshop, Cambridge  
Speaker, Human Chromosome 2 Workshop, Aarhus  
Speaker, Chromosome 12 Workshop, New Haven  
Speaker, European Society of Human Genetics, Paris  
Seminar, Georgia Institute of Technology, Atlanta  
Seminar, Emory Medical School Invited Seminar, Atlanta  
Seminar, Mercer Univ. and Medical School, Macon  
Speaker, Third International Chromosome 9 Workshop, Cambridge  
Speaker, First Chromosome Y Workshop, Cambridge  
Instructor, Neuroscience course, Johns Hopkins, Baltimore  
Instructor, Medical Genetics, Johns Hopkins, Baltimore  
Speaker, International Chromosome 1 Workshop, Bethesda  
Presenter, 25th Annual March of Dimes Conference, Orlando  
Presenter, First Annual ACMG Conference, Orlando  
Opening Speaker, International Chromosome 15 Workshop, Oxford
- 1993** Panelist, Human Gene Mapping Meeting 93, Kobe  
Distinguished Speaker, Chromosome Coordinating Meeting 1993, Tsukuba  
Guest Instructor, George Mason University, Fairfax  
Presenter, American Society of Human Genetics Meeting, New Orleans  
Speaker, International Chromosome 6 Workshop, Berlin  
Presenter, International Congress of Genetics, Birmingham  
Instructor, Bar Harbor Short Course on Medical Genetics, Bar Harbor  
Speaker, European Genome Database Conference, London  
Presenter, Clinical Investigations 1993, Washington, DC  
Instructor, Neuroscience course, Johns Hopkins, Baltimore  
Speaker, International Chromosome 4 Workshop, Stanford  
Speaker, International Chromosome 14 Workshop, Toronto  
Speaker, Second International Chromosome 9 Workshop, Cape Cod
- 1992** Speaker, Chromosome Coordinating Meeting 1992, Baltimore  
Panelist, DOE meeting of Genome Centers, Berkeley  
Panelist and Speaker, International Scientific Advisory Council, Baltimore  
Speaker, International Chromosome 22 Workshop, Philadelphia  
Seminar, Baylor College of Medicine, Houston  
Speaker, Hilton Head Conference on Genome Mapping and Sequencing, Hilton Head

- 1991** Speaker, ASA Summer Research Conference on Statistics, Melbourne Beach  
**to** Speaker, Genetics Society of Georgia Annual Meeting, Atlanta  
**1988** Seminar, Emory University, Atlanta  
 Organizer, Athens Computer Symposia, Athens  
 Poster Presenter, Genetics Society of America Annual Meeting, San Francisco  
 Presenter, 1990 Genetics Society of America Annual Meeting, Atlanta  
 Speaker, 1989 and 1989 Genetics Society of Georgia Annual Meeting, Atlanta  
 Poster Presenter, International Congress of Genetics, Toronto

## Books and Book Chapters

- Cuticchia, A.J. (2010) *Genetics: A Handbook for Lawyers*. Chicago: American Bar Association Press (**#1 Best Seller since June 2010**).
- McConnell, P., Lin, S., and A.J. Cuticchia (Eds.) (2009) *Expression Analysis: Results from the 2006 CAMDA Conference*. Seattle: CreateSpace Publishing.
- Cuticchia, A.J. *Bioinformatics for Personalized Medicine*. (2008) In Willard, H. and G. Ginsburg (Eds.) *Genomics and Personalized Medicine, Two-Vol Set, 1-2*. New York: Elsevier / Academic Press.
- Cuticchia, A.J., M.A. Chipperfield, and P.A. Foster (Eds.) (1996). *Human Gene Mapping 1995, A Compendium*. Baltimore: Johns Hopkins University Press.
- Cuticchia, A.J. (1995). *Human Mapping Databases*. In Dracopoli, N., J. Haines, B. Korf, et al. (Eds.), *Current Protocols in Human Genetics*. New York: John Wiley and Sons.
- Cuticchia, A.J. (Ed.) (1995). *Human Gene Mapping 1994, A Compendium*. Baltimore: Johns Hopkins University Press.
- Cuticchia, A.J. (1995). *The Production of Human Gene Mapping 1994*. In Cuticchia, A.J. (Ed.), *Human Gene Mapping 1994, A Compendium*. Baltimore: Johns Hopkins University Press, pp. 2-3.
- Porter, C.J., M.A. Chipperfield, C.C. Talbot Jr., J. Campbell, and A.J. Cuticchia (1995). *The Growth of Data in the Genome Data Base and Methods of Access*. In Cuticchia, A.J. (Ed.), *Human Gene Mapping, 1994 A Compendium*. Baltimore, MD: Johns Hopkins University Press, pp. 4-6.
- Cuticchia, A.J. and P.L. Pearson (Eds.) (1994). *Human Gene Mapping 1993, A Compendium*. Baltimore, MD: Johns Hopkins University Press.
- Cuticchia, A.J. and P.L. Pearson (1994). *The Production of Human Gene Mapping 1993*. In Cuticchia A.J., and P.L. Pearson (Eds.), *Human Gene Mapping 1993, A Compendium*. Baltimore, MD: Johns Hopkins University Press, p. 2.
- Chipperfield, M.A., Porter, C.J, Talbot, C.C, Campbell, J., Agnastopoulos, A., and Cuticchia, A.J. (1994). *The Growth of Data Since Ccm92*. In Cuticchia, A.J. and P.L. Pearson (Eds.), *Human Gene Mapping Reports 1993, a Compendium*. Baltimore, MD: Johns Hopkins University Press, pp. 3-6.
- Cuticchia, A.J. (1994). *A Primer for Relational Databases*. In Adams, M.D., C. Fields, and J.C. Venter (Eds.), *Automated DNA Sequencing and Analysis*. London: Academic Press, pp. 346-349.
- Cuticchia, J. and J. McDonald (1994). *A Genetic Model for the Maintenance of RLE Mediated Regulatory Variants in Natural Populations*. In McDonald, J. (Ed.), *Transposable Elements and Evolution*. Amsterdam: Kluwer Press, pp. 40-50.
- Cuticchia, A.J., P.L. Pearson, and H.P. Klinger (1993). *Chromosome Coordinating Meeting (1992)*. In Cuticchia, A.J., P.L. Pearson, and H.P. Klinger (Eds.), *Genome Priority Reports*, Vol. 1. Basel: Karger.

Cuticchia, A.J. and P.L. Pearson (1993). The Making of the CCM92 Report. Chromosome Coordinating Meeting (1992). In Cuticchia, A.J., P.L. Pearson, and H.P. Klinger (Eds.), Genome Priority Reports, Vol. 1. Basel: Karger.

Cuticchia, A.J., M.A. Chipperfield, B.L. Maidak, and P.L. Pearson (1993). PCR Polymorphic Loci Listing of Human. In O'Brien, S.J. (Ed.), Genetic Maps. Cold Spring Harbor Laboratory Press, pp. 5.128-5.151.

Cuticchia, A.J., M.A. Chipperfield, B.L. Maidak, and P.L. Pearson (1993). PCR Polymorphic Loci Listing of Human. In O'Brien, S.J. (Ed.), Human Genetic Maps. Cold Spring Harbor Laboratory Press, pp. 128-151.

### Peer-Reviewed Journal Articles

Cuticchia, A.J. (2009). Death with Dignity Revisited: Gonzales v. Oregon. *US-China L. Review*.

Cuticchia, A.J. (2009). Dissecting the Genomics and Personalized Medicine Act of 2007, *Biotech. Pharm. L. J.*

McConnell, P., Dash, R.C., Chilukuri, R., Pietrobon, R., Johnson, K., Annecharico, R., and A.J. Cuticchia. (2008) The Cancer Translational Research Informatics Platform. *BMC Medical Informatics and Decision Making*, Vol. 8:60.

Cuticchia, A.J. (2008). Existing Ethical Principles and their Application to Personal Medicine. (2008). *The Open Ethics Journal Vol 2:(5)*, pp. 29-33.

Cuticchia, A.J. The Legal Treatment of the Parental Rights and Obligations of Sperm Donors. (2008). *The Open Law Journal*, Vol. 7, pp. 16-22.

Cuticchia, A.J., Cooley, P.C., Hall, R.D., and Y. Qin. (2006) NIDDK Data Repository: A Central Collection for Clinical Trial Data. *BMC Medical Informatics and Decision Making*, Vol. 6:19.

Cuticchia, A.J., Kulkarni R.D., Parris W.E., Cooley P.C., Hall R.D., and Silk, G.W. Inconsistencies between human genetic cytoloactions and those derived using genomic sequence. *Cytogenet Genome Res.* 11(1-2):1-5. 2006.

Matise, T.C., C.J. Porter, S. Buyske, A.J. Cuticchia, E.P. Sulman, and P.S. White (2002). "Systematic Evaluation of Map Quality: Human Chromosome 22." *American Journal of Human Genetics*, Vol. 70, No. 6, pp. 1398-1410.

Teebi, A.S., S.A. Teebi, C.J. Porter, and A.J. Cuticchia (2002). "Arab Genetic Disease Database (Agddb): A Population Specific Clinical Genetic Database." *Human Mutation*, Vol. 19, No. 6, pp. 615-621.

Teebi, S.A., A.J. Cuticchia, and R.G. Cotton (2001). "10<sup>th</sup> International Hugo Mutation Database Initiative Meeting." *Human Mutation*, Vol. 18, No. 4, pp. 352-354.

Qi, D., and A.J. Cuticchia (2001). "Compositional Symmetries in Complete Genomes." *Bioinformatics*, Vol. 17, No. 6, pp. 557-559.

Fadiel, A., S. Lithwick, S.Q. Wanas, and A.J. Cuticchia (2001). "Influence of Intercodon and Base Frequencies on Codon Usage in Filarial Parasites." *Genomics*, Vol. 74, No. 2, pp. 197-210.

Deber, C.M., C. Wang, L-P. Liu, A.S. Prior, S. Agrawal, B.L. Muskat, and A.J. Cuticchia (2001). "TM Finder: A Prediction Program for Transmembrane Protein Segments Using a Combination of Hydrophobicity and Nonpolar Phase Helicity Scales." *Protein Science*, Vol. 10, pp. 212-219.

Cuticchia, A.J. (2000). "High Performance Computing and Medical Research." *Canadian Medical Association Journal*, Vol. 162, No. 8, pp. 1148-1149.

Cuticchia, A.J., (2000). "Bioinformatics and the Expanding Role of Computing in the Medical Research Environment." *Journal of Cutaneous Medicine and Surgery*.

Cuticchia, A.J. (2000). "Future Vision of the GDB Human Genome Database." *Human Mutation*, Vol. 15, pp. 62-67.

- Porter, C.J., C.C. Talbot, and A.J. Cuticchia (2000). "Central Databases—A Review." *Human Mutation*, Vol. 15, pp. 36-44.
- Cuticchia J. (1999). "The Right Stuff: Do You Have What It Takes to Be a Bioinformatician?" *Biotech Focus*, Vol. 2, No. 2, pp 16-18.
- Talbot, C.C. Jr. and A.J. Cuticchia (1999). "Human Mapping Databases—An Update." *Current Protocols in Human Genetics*. New York: John Wiley and Sons, Inc., pp. 1.13.1-1.13.12.
- Pang, M.G., S.F. Hoegerman, A.J. Cuticchia, S.Y. Moon, G.F. Doncel, A.A. Acosta, and W.G. Kearns (1999). "Detection of Aneuploidy for Chromosomes 4, 6, 7, 8, 9, 10, 11, 12, 13, 17, 18, 21, X and Y by Fluorescence In-situ Hybridization in Spermatozoa from Nine Patients with Oligoasthenoteratozoospermia Undergoing Intracytoplasmic Sperm Injection." *Human Reproduction*, Vol. 14, No. 5, pp. 1266-1273.
- Porter, C.J., C.C. Talbot Jr., J. Snoddy, E. Uberbacher, and A.J. Cuticchia (1999). "Continuation of the Genome Database Project." *DOE Human Genome Program Contractor-Grantee Workshop VII*.
- Talbot C.C. and A.J. Cuticchia (1998). "Human Mapping Databases." In Dracopoli, N., J. Haines, B. Korf, et. al (Eds.), *Current Protocols in Human Genetics*. New York: John Wiley and Sons.
- Cuticchia, A.J. (1995). "Kwikstat 4: Statistical Data Analysis Program" (review). *Biotechnology Software Journal*.
- Pang, M.G., J.L. Zackowski, S.F. Hoegerman, E. Friedman, S.Y. Moon, A.J. Cuticchia, A.A. Acosta, and W.G. Kearns (1995). "Detection by Fluorescence in Situ Hybridization of Chromosomes 4,6,7,8,9,10,11,12,13,17,18,21,x, and Y Aneuploidy in Sperm from Oligo-astheno-terato-zoospermic Patients of an in Vitro Fertilization Program"(abstract). *American Journal of Human Genetics*, Vol. 57. No. 4, p. A121.
- Shimizu, N., S.E. Antonarakis, C. Van Broeckhovem, D. Patterson,, K. Gardiner, D. Nizetic, N. Creau, J.-M. Delabar, J. Korenberg, R. Reeves, J. Doering, A. Chakravarti, S. Minoshima, O. Ritter, and J. Cuticchia (1995). "Report of the Fifth International Workshop on Human Chromosome 21 Mapping 1994." *Cytogenetics and Cell Genetics*, Vol. 70, pp. 148-182.
- Fasman, K.H., A.J. Cuticchia, and D.T. Kingsbury (1994). "The Genome Data Base Anno 1994." *Nucleic Acids Research*, Vol. 22, No. 17, pp. 3462-3469.
- Chang, Y.C., W.G. Kearns, H.-M. Fang, V. Jaswaney, A.J. Cuticchia, G. Stetten, G.J. Dover, P.L. Pearson, and K.D. Smith (1993). "The Physical Mapping of Subtelomeric Xp22.2 Markers by Fluorescent in Situ Hybridization (Fish) and Pulsed Field Gel Electrophoresis (PFGE)" (abstract). *American Journal of Human Genetics*, Vol. 53, No. 3, p. 1773.
- Cuticchia, A.J., M.A. Chipperfield, C.J. Porter, W. Kearns, and P.L. Pearson (1993). "Managing All Those Bytes: the Human Genome Project." *Science*, Vol. 162, pp. 47-48.
- Cuticchia, A.J., K.H. Fasman, D.T. Kingsbury, R.J. Robbins, and P.L. Pearson (1993). "The Genome Data Base Anno 1993." *Nucleic Acids Research*, Vol. 21, No. 13, pp. 3003-3006.
- Cuticchia, A.J., J. Arnold, and W.E. Timberlake (1993). "PCAP: Probe Choice and Analysis Package, A Set of Programs to Aid in Choosing Synthetic Oligomers for Contig Mapping." *Computer Applications in the Biosciences*, Vol. 9, No. 2, pp. 201-203.
- Cuticchia, A.J., J. Arnold, and W.E. Timberlake (1993). "ODS: Ordering DNA Sequences, A Program for Chromosome Reconstruction Based on Binary Scoring." *Computer Applications in the Biosciences*, Vol. 9, No. 2, pp. 215-219.
- Cuticchia, A.J., J. Arnold, H. Brody, and W.E. Timberlake (1992). "CMAP: Contig Mapping and Analysis Package: A Relational Database for Chromosome Reconstruction." *Computer Applications in the Biosciences*, Vol.8, No. 5, pp. 467-474.
- Cuticchia, A.J., J. Arnold, and W.E. Timberlake (1992). "The Use of Simulated Annealing in Chromosome Reconstruction Experiments Based on Binary Scoring." *Genetics*, Vol. 132, pp. 591-601.
- Cuticchia, A.J., R. Ivarie, and J. Arnold (1992). "The Application of Markov Chain Analysis to Oligonucleotide Frequency Prediction and Physical Mapping of *D. Melanogaster*." *Nucleic Acids Research*, Vol. 20, No. 14, pp. 3651-3657.

- Miller, J.A., J. Arnold, K.J. Kochut, A.J. Cuticchia, and W.D. Potter (1991). "Query Driven Simulation as a Tool for Genetic Engineers." *Proceedings of the International Conference on Simulation in Engineering Education*, Newport Beach, CA, pp. 67-72.
- Brody, H., J. Griffith, A.J. Cuticchia, J. Arnold, and W. Timberlake (1991). "Chromosome-specific Recombinant DNA Libraries from the Fungus *Aspergillus Nidulans*." *Nucleic Acids Research*, Vol. 19, No. 11, pp. 3105-3109.
- MacDonald, J., A. Csink, and A.J. Cuticchia (1991). "Retroviral-like Elements as Mediators of Regulatory Change, an Evolutionary Model." *Keystone Symposium*.
- Cuticchia, A.J., and J. Arnold (1989). "The Markov Chain: Its Applications to Genome Analysis" (abstract). *Genetics*, Vol. 122, No. 2, p. s23.
- Arnold, J., A.J. Cuticchia, D.A. Newsome, W.W. Jennings, and R. Ivarie (1988). "Mono- Through Hexanucleotide Analysis of the Sense Strand of Yeast DNA: A Markov Analysis" (abstract). *Genome*, Vol. 30, p. 232.
- Arnold, J., A.J. Cuticchia, D.A. Newsome, W.W. Jennings, and R. Ivarie, R. (1988). "Mono- Through Hexanucleotide Analysis of the Sense Strand of Yeast DNA: A Markov Chain Analysis." *Nucleic Acids Research*, Vol. 16, No. 14, pp. 7145-7158.
- Lou, J.K., M. Wu, C.H. Chang, and A.J. Cuticchia (1987). "Localization of a R-protein Within the Chloroplast." *Current Genetics*, Vol. 11, No. 6-7, pp. 537-541.