

Mark D. Adams, Ph.D.

WORK ADDRESS

The Jackson Laboratory for Genomic Medicine
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EDUCATION:

- 1990 Ph.D., Biological Chemistry, University of Michigan, Ann Arbor, MI
Thesis Advisor: Dale L. Oxender
Dissertation: Structure/Function Studies on the Leucine-Binding Proteins of *Escherichia coli*
- 1984 B.A., Chemistry, Warren Wilson College, Swannanoa, NC

EMPLOYMENT:

- 12/2016- The Jackson Laboratory for Genomic Medicine, Farmington, CT
Deputy Director, JAX-Genomic Medicine (2019-present)
Professor (2017-present)
Director, Microbial Genomic Services (2016-2020)
Director, Clinical Diagnostic Research (2020-present)
Affiliated Professor of Genetics and Genome Sciences, University of Connecticut School of Medicine (2018-present)
- 7/11-12/2016 J. Craig Venter Institute, La Jolla, CA
Professor; Scientific Director (2011-2016); Campus Director for La Jolla (2016)
Participating Member, Moores Cancer Center, University of California, San Diego
- Developed and applied novel approaches to assessing genetic variation in multidrug-resistance pathogens to ascertain evolutionary and epidemiological patterns
 - Promoted faculty development and stimulate new programs in areas of infectious diseases, synthetic biology, and environmental microbiology
 - Directed all NGS activities and encourage new uses of sequencing assays
 - Contributed to overall strategic directions for the Institute including faculty recruitment and intellectual property evaluation
 - Oversaw Environmental Health and Safety and the Institutional Biosafety Committee
 - Coordinated two major facility moves
- 7/03-08/11 Case Western Reserve University, Cleveland, OH
Associate Professor (tenured), Department of Genetics
Member, Center for Human Genetics
Associate Professor, Center for Proteomics and Bioinformatics
Associate Member, Case Comprehensive Cancer Center
Director, Genomics Core Facility
- Identified genes responsible for hematopoietic abnormalities in ENU-mutagenized mice
 - Initiated genome-scale approaches to multidrug-resistant *Acinetobacter baumannii*
 - Supported DNA sequencing and genotyping needs of >100 investigators in twelve departments
 - Introduced Illumina sequencing to CWRU
 - Established methods for somatic mutation detection in colon cancer using targeted exome sequencing
 - Graduated two Ph.D. students; served on >30 thesis and mentoring committees

- 7/98-5/03: Celera Genomics, Rockville, MD
7/02-5/03 Vice President of Bioinformatics
7/98-6/02 Vice President for Genome Programs
- Established the largest DNA sequencing facility in the world at the time with 240 ABI sequencers and supporting automation
 - Directed sequencing and annotation of the human, mouse, and *Drosophila* genomes
 - Provided content support for Celera's subscription-based service
 - Supported informatics activities related to drug and diagnostic development
- 8/92-7/98: The Institute for Genomic Research (TIGR), Rockville, MD
1/96-7/98: Investigator and Director, Department of Eukaryotic Genomics
8/92-1/96: Assistant Investigator
8/92-7/98: DNA Sequencing Facility Director
- Led large-scale human gene discovery program
 - Contributed to sequencing of the first complete genome of a free-living organism, *Haemophilus influenzae* and other microbes
 - Recipient of one of the first NHGRI human genome sequencing grants for chromosome 16.
- 5/90-7/92: Section of Receptor Biochemistry and Molecular Biology, NINDS/NIH, Bethesda, MD
9/91-7/92 Staff Fellow
5/90-9/91 Postdoctoral Fellow (Intramural Research Training Award)
- Developed the expressed sequence tag (EST) strategy for rapid gene discovery genes.

MEMBERSHIP IN PROFESSIONAL SOCIETIES

- 2008-present Member, American Society for Microbiology
2004-2008 Member, International Society for Molecular Biology and Evolution
2003-2008 Member, International Mammalian Genome Society
2002-2006 Member, American Society of Human Genetics
1992-2003: Member, Human Genome Organization (HUGO)

HONORS & AWARDS:

- 2013 ICAAC Program Committee Award (Epidemiology of Infection)
2004 Distinguished Alumni Award, Warren Wilson College
2002 Distinguished Graduate Lecture, University of Michigan, Biological Chemistry
2001 Newcomb-Cleveland Prize "For An Outstanding Contribution To Science",
American Association for the Advancement of Science
1992 NIH Merit Award
1990 Dominic D. Dziewiatkowski Dissertation Award (UM Biological Chemistry)
1988-89 Horace Rackham Predoctoral Fellowship
1984-88 NIH Predoctoral Genetics Training Program

PROFESSIONAL SERVICE

- 2018-2020 Scientific Advisory Board, Concentric Ag
2015-present Department of Energy Joint Genome Institute Scientific Advisory Committee
2013-present Editorial Board, *Antimicrobial Agents and Chemotherapy*
2008-2016 Faculty of 1000
2008-2011 Member, Scientific Advisory Board, Mouse Genome Informatics
2008-2011 Editorial Board, *Mammalian Genome*
2006-2011 Advisory Committee, Great Lakes Science Center BioMedTech Exhibit
2006-2009 Research Advisory Board, Case Research Institute
2004-2008 Genomics, Computational Biology, and Technology Study Section, NIH
2003-2013 Associate Editor, *Genomics*

2003-2006 Member, Advisory Board of RavGen, Inc.
2003-2007 Member, Department of Energy Joint Genome Institute Scientific Advisory Board
1999-2001: Member, Scientific Advisory Council of Paracel, Inc.
1993-1997: Advisory Committee, Montgomery College Biotechnology Program

PEER REVIEWED PUBLICATIONS (148):

Scopus Metrics (as of 11/30/20):

54,994 total citations

h-index: 68

A full list of publications is available at:

<http://www.ncbi.nlm.nih.gov/myncbi/browse/collection/40351834/?sort=date&direction=descending>

- Adams, M.D.**, Wagner, L., Gibson, A., Graddis, T.J., Clarke, R., Antonucci, T.K., Oxender, D.L. 1990. Nucleotide sequence and genetic characterization reveal six essential genes for the LIV-I and LS transport systems of *Escherichia coli*. *J. Biol. Chem.* 265:11436-43.
- Guo, C.-W., **Adams, M.D.**, Su, T.-Z., and Oxender, D.L. 1990. The fusion of signal peptide region of leucine-specific binding protein gene to the α -galactosidase gene in *Escherichia coli*. *Acta Biochim. et Biophys. Sinica* 22(4).
- Adams, M.D.**, Maguire, D.J., and Oxender, D.L. 1991. Altering the binding activity and specificity of the leucine-binding proteins of *Escherichia coli*, *J. Biol. Chem.* 266:6209-14.
- Adams, M.D.**, Kelley, J.M., Gocayne, J.D., Dubnick, M., Polymeropoulos, M.H., Xiao, H., Merril, C.R., Wu, A., Olde, B., Moreno, R.F., Kerlavage, A.R., McCombie, W.R., and Venter, J.C. 1991. Complementary DNA sequencing: Expressed sequence tags and human genome project, *Science*, 252:1651-56.
- Adams, M.D.** and Oxender, D.L. 1991. Secretion of mutant leucine-specific binding proteins with internal deletions in *Escherichia coli*, *J. Cell. Biochem.*, 46:321-30.
- Polymeropoulos, M.H., Xiao, H., Glodek, A., Gorski, M., **Adams, M.D.**, Moreno, R.F., FitzGerald, M.G., Venter, J.C., and Merril, C.R. 1992. Chromosomal assignment of 46 brain cDNAs, *Genomics*, 12:492-6.
- Adams, M.D.**, Dubnick, M., Kerlavage, A.R., Moreno, R., Kelley, J.M., Utterback, T.R., Nagle, J.W., Fields, C., and Venter, J.C. 1992. Sequence identification of 2,375 human brain genes. *Nature*, 355:632-4.
- McCombie, W.R., **Adams, M.D.**, Kelley, J.K., FitzGerald, M.G., Utterback, T.R., Khan, M., Dubnick, M., Kerlavage, A.R., Venter, J.C., and Fields, C. 1992. *Caenorhabditis elegans* expressed sequence tags identify gene families and potential disease gene homologues. *Nature Genetics*, 1:124-31.
- White, O., Dunning, T., Sutton, G., **Adams, M.D.**, Venter, J.C., and Fields, C. 1993. A quality control algorithm for DNA sequencing projects. *Nucl. Acids Res.*, 21:3829-3838.
- Polymeropoulos, M.H., Xiao, H., Torres, R., Sikela, J., **Adams, M.D.**, Venter, J.C., and Merril, C.R. 1993. Chromosomal distribution of 320 genes from a brain cDNA library. *Nature Genet.*, 4:381-386.
- Adams, M.D.**, Kerlavage, A.R., Fields, C., and Venter, J.C. 1993. 3400 Expressed Sequence Tags identify diversity of transcripts from human brain. *Nature Genet.*, 4, 256-267.
- Adams, M.D.**, Soares, M.B., Kerlavage, A.R., Fields, C.F., and Venter, J.C. 1993. Rapid cDNA sequencing (expressed sequence tags) from a directionally cloned human infant brain cDNA library. *Nature Genet.*, 4:373-380.
- Fields, C., and **Adams, M.D.** 1994. Expressed sequence tags identify a human isolog of the SUI1 translation initiation factor. *BBRC*, 198:288-291.
- Papadopoulos, N., Nicolaides, N.C., Wei, Y-F., Ruben, S.R., Carter, K.C., Rosen, C.A., Haseltine, W.A., Fleischmann, R.D., Fraser, C.M., **Adams, M.D.**, Venter, J.C., Hamilton, S.R., Peterson, G.M., Watson, P., Lynch, H.T., Peltomäke, P., Mecklin, J.-P., de la Chapelle, A., Kinzler, K.W., and Vogelstein, B. 1994. Mutation of a *mutL* homolog associated with hereditary colon cancer. *Science* 263:1625-1629.

- Cavanaugh, M.M., Breiner, M., Schurmann, A., Rosenwald, A.G., Terui, T., Zhang, C.-j., Randazzo, P., **Adams, M.D.**, Joost, H.G., and Kahn, R.A. 1994. ADP-ribosylation factor (ARF)-like 3, a new member of the ARF family of GTP-binding proteins cloned from human and rat tissues. *J. Biol. Chem.*, 269:18937-18942.
- Nicolaides, N.C., Papadopoulos, N., Ruben, S.R., Carter, K.C., Rosen, C.A., Haseltine, W.A., Fleischmann, R.D., Fraser, C.M., **Adams, M.D.**, Venter, J.C., Dunlop, M., Hamilton, S.R., Peterson, G.M., de la Chapelle, A., Vogelstein, B., and Kinzler, K.W. 1994. Mutations of two PMS homologues in hereditary nonpolyposis colon cancer. *Nature*, 371:75-80.
- Franco, G.R., **Adams, M.D.**, Soares, M.B., Simpson, A.J.G., Venter, J.C., and Pena, S.D.J. 1995. Identification of new *Schistosoma mansoni* genes by the EST strategy using a directional cDNA library. *Gene*, 152:141-147.
- Fleischmann, R.D., **Adams, M.D.**, White, O., Clayton, R. A., Kirkness, E. F., Kerlavage, A. R., C. J. Bult, J.-F. Tomb, B. A. Dougherty, J. M. Merrick, K. McKenney, G. Sutton, W. FitzHugh, C. Fields, J. D. Gocayne, J. Scott, R. Shirley, L.-I. Liu, A. Glodek, J. M. Kelley, J. F. Weidman, C. A. Phillips, T. Spriggs, E. Hedblom, M. D. Cotton, T. R. Utterback, M. C. Hanna, D. T. Nguyen, D. M. Saudek, R. C. Brandon, L. D. Fine, J. L. Fritchman, J. L. Fuhrmann, N. S. M. Geoghagen, C. L. Gnehm, L. A. McDonald, K. V. Small, C. M. Fraser, H. O. Smith, J. C. Venter. Whole-genome random shotgun sequencing and assembly of *Haemophilus influenzae* Rd. 1995. *Science*, 269:496-512.
- McDonald, L.A., Kelley, J.M., Brandon, R.C., and **Adams, M.D.** 1995. Optimization of Applied Biosystems 373 Sequencer Stretch Modification. *BioTechniques*, 19:464-471.
- Sutton, G.G., White, O., **Adams, M.D.**, and Kerlavage, A.R. 1995. TIGR Assembler: A new tool for assembling large shotgun sequencing projects. *Genome Science and Technology*, 1:9-19.
- Lee, N.H., Weinstock, K.G., Kirkness, E.F., Earle-Hughes, J.A., Fuldner, R.A., Marmaros, S., Glodek, A., Gocayne, J.D., **Adams, M.D.**, Kerlavage, A.R., Fraser, C.M., and Venter, J.C. 1995. Comparative expressed-sequence-tag analysis of differential gene expression profiles in PC-12 cells before and after nerve growth factor treatment. *Proc. Natl. Acad. Sci. USA*, 92:8303-8307.
- Adams, M.D.**, Kerlavage, A.R., Fleischmann, R.D., Fuldner, R.A., Bult, C.J., Lee, N.H., Kirkness, E.F., Weinstock, K.G., Gocayne, J.D., White, O., Sutton, G., Blake, J.A., Brandon, R.C., Chiu, M.W., Clayton, R.A., Cline, R.T., Cotton, M.D., Earle-Hughes, J., Fine, L.D., FitzGerald, L.M., FitzHugh, W.M., Fritchman, J.L., Geoghagen, N.S.M., Glodek, A., Gnehm, C.L., Hanna, M.C., Hedblom, E., Hinkle, P.S. Jr, Kelley, J.M., Klimek, K.M., Kelley, J.C., Liu, L.-I., Marmaros, S.M., Merrick, J.M., Moreno-Palanques, R.F., McDonald, L.A., Nguyen, D.T, Pellegrino, S.M., Phillips, C.A., Ryder, S.E., Scott, J.L., Saudek, D.M., Shirley, R., Small, K.V., Spriggs, T.A., Utterback, T.R., Weidman, J.F., Li, Y., Bednarik, D.P., Cao, L., Cepeda, M.A., Coleman, T.A., Collins, E.-J., Dimke, D., Feng, P., Ferrie, A., Fischer, C., Hastings, G.A., He, W.-W., Hu, J.-S., Greene, J.M., Gruber, J., Hudson, P., Kim, A., Kozak, D.L., Kunsch, C., Ji, H., Li, H., Meissner, P.S., Olsen, H., Raymond, L., Wei, Y.-F., Wing, J., Xu, C., Yu, G.-L., Ruben, S.M., Dillon, P.J., Fannon, M.R., Rosen, C.A., Haseltine, W.A., Fields, C., Fraser, C.M. and Venter, J.C. 1995. Initial assessment of human gene diversity and expression patterns based upon 83 million nucleotides of cDNA sequence. *Nature*, 377S:3-174.
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- Earle-Hughes, J.A., Lee, N.H., Weinstock, K.G., Kirkness, E.F., Fuldner, R.A., Cline, R.T., Glodek, A., Sutton, G.G., **Adams, M.D.**, Fraser, C.M., and Venter, J.C. (1996) Differential gene expression profiles in G1 and S phase synchronized Jurkat T-cell leukemia cells: investigation using an expressed sequence tag analysis. 1996. *Genome Sci. and Technol.* 1:89-128.
- Bult, C.J., White, O., Olsen, G.J., Zhou, L., Fleischmann, R.D., Sutton, G.G., Blake, J.A., FitzGerald, L.M., Clayton, R.A., Gocayne, J.D., Kerlavage, A.R., Dougherty, B.A., Tomb, J.-F., **Adams, M.D.**, Reich, C.I., Overbeek, R., Kirkness, E.F., Weinstock, K.G., Merrick, J.M., Glodek, A., Scott, J.L., Geoghagen, N.S.M., Weidman, J.F., Fuhrman, J.L., Nguyen, D., Utterback, T.R., Kelley, J.M., Peterson, J.D., Sadow, P.W., Hanna, M.C., Cotton, M.D., Roberts, K.M., Hurst, M.A., Kaine, B.P., Borodovsky, M., Klenk, H.-P., Fraser, C.M., Smith, H.O., Woese, C.R., and Venter, J.C. (1996) Complete genome sequence of the methanogenic Archaeon, *Methanococcus jannaschii*. *Science*, 273:1058-1073.
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- Schuler, G.D., M.S. Boguski, E.A. Stewart, L.D. Stein, G. Gyapay, K. Rice, R.E. White, P. Rodriguez-Tome, A. Aggarwal, E. Bajorek, S. Bentolila, B.B. Birren, A. Butler, A.B. Castle, N. Chiannikulchai, A. Chu, C. Clee, S. Cowles, P.J.R. Day, T. Dibling, N. Drouot, I. Dunham, S. Duprat, C. East, C. Edwards, J.-B. Fan, N. Fang, C. Fizames, C. Garrett, L. Green, D. Hadley, M. Harris, P. Harrison, S. Brady, A. Hicks, E. Holloway, L. Hui, S. Hussain, C. Louis-Dit-Sully, J. Ma, A. MacGilvery, C. Mader, A. Maratukulam, T.C. Matise, K.B. McKusick, J. Morissette, A. Mungall, D. Muselet, H.C. Nusbaum, D.C. Page, A. Peck, S. Perkins, M. Piercy, F. Qin, J. Quackenbush, S. Ranby, T. Reif, S. Rozen, C. Sanders, X. She, J. Silva, D.K. Slonim, C. Soderlund, W.-L. Sun, P. Tabar, T. Thangarajah, N. Vega-Czarny, D. Vollrath, S. Voyticky, T. Wilmer, X. Wu, **Adams, M.D.**, C. Auffray, N.A.R. Walter, R. Brandon, A. Dehejia, P.N. Goodfellow, R. Houlgatte, J.R. Hudson Jr., S.E. Ide, K.R. Iorio, W.Y. Lee, N. Seki, T. Nagase, K. Ishikawa, N. Nomura, C. Phillips, M.H. Polymeropoulos, M. Sandusky, K. Schmitt, R. Berry, K. Swanson, R. Torres, J.C. Venter, J.M. Sikela, J.S. Beckmann, J. Weissenbach, R.M. Myers, D.R. Cox, M.R. James, D. Bentley, P. Deloukas, E.S. Lander, and T.J. Hudson. 1996. A gene map of the human genome. *Science* 274:540-546.

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- Kramer, J.A., **Adams, M.D.**, Singh, G.B., Doggett, N.A., and Krawetz, S.A. 1998. Extended analysis of the region encompassing the PRM1→PrM2→TNP2 domain: genomic organization, evolution and gene identification, *J. Exp. Zool.* 282:245-253.
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