

HAROLD RAY (Skip) GARNER, JR.

PUBLICATIONS:

Books:

1. Kevin P. Rosenblatt, Michael Huebschman, and Harold R. Garner, Construction and Hyperspectral Imaging of Quantum Dot Protein Arrays, a chapter in Molecular Profiling, editors Virginia Espina and Lance Liotta, Molecular Profiling, Methods in Molecular Biology, Springer-Verlag, 2012, Volume 823, 311-324
2. Michael L. Huebschman, Roger A. Schultz, and Harold R. Garner, Hyperspectral Imaging, Review chapter, Encyclopedia of Modern Optics, Academic Press, 2004
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4. K. J. Luebke, R. P. Balog, D. Mittelman and H.R. Garner, Digital Optical Chemistry: A Novel System for the Rapid Fabrication of Custom Oligonucleotide Arrays, a chapter in Microfabricated Sensors, Application of Optical Technology for DNA Analysis, Richard Kordal, Author Usmani and Wai Tak Law, editors, American Chemical Society Publications, 2002. (the book cover featured one of our arrays)
5. G. Miller J. Jacklevic, and H.R. Garner, chapter in Instrumentation for the Genome Project, Annual Reviews of Biomedical Engineering, Joe Jacklevic, editor, 1999.
6. H.R. Garner, "Custom Hardware and Software for Genome Center Operations: From Robotic Control to Databases," included in Automated Technologies for Genome Characterization, edited by Dr. Tony J. Beugelsdijk, 1997.
7. H.R. Garner, "Automating the PCR Process," Chapter 16 in The Polymerase Chain Reaction, K. Mullis, F. Ferre, R. Gibbs editors, March 1994.
8. S. Clark, G. Evans and H.R. Garner, "Informatics and Automation used in the Physical Mapping of the Genome," Chapter 2 and D.W. Smith, J. Jorgensen, J. P. Greenberg, J. Keller, J. Rogers, H.R. Garner and L. T. Eyck, "Supercomputers, Parallel Processing, and Genome Projects," Chapter 3 in Biocomputing: Informatics and Genome Projects, D. Smith (UCSD) editor, December 1993.
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10. Contributions to Chapter 3 of KARATE, Synchronization of Body and Mind, by S. Sugiyama and his students. (1980)

Refereed Journals:

1. Fonville NC, Velmurugan KR, Tae H, Vaksman Z, McIver LJ, Garner HR. Genomic leftovers: identifying novel microsatellites, over-represented motifs and functional elements in the human genome. *Nature Sci Rep.* 2016 Jun 9;6:27722. PMID: 27278669
2. Lin Kang, Robert Settlege, Wyatt McMahan, Katarzyna Michalak, Hongseok Tae, Harold R. Garner, Elizabeth Stacy, Donald K. Price & Pawel Michalak, Genomic Signatures of Speciation in Sympatric and Allopatric Hawaiian Picture-winged *Drosophila*, *Genome Biol Evol.* 2016 May 30;8(5):1482-8. PMID: 27189993
3. Patidar PL, Motea EA, Fattah FJ, Zhou Y, Morales JC, Xie Y, Garner HR, Boothman DA. The Kub5-Hera/RPRD1B interactome: a novel role in preserving genetic stability by regulating DNA mismatch repair, *The Kub5-Hera/RPRD1B interactome: a novel role in preserving genetic stability by regulating DNA mismatch repair*, *Nucleic Acids Res.* 2016 Jan 26. pii: gkv1492. PMID: 26819409
4. Michalak, Katarzyna; Maciak, Sebastian; Kim, Young; Santopietro, Graciela; Oh, Jung; Garner, Harold; Michalak, Pawel, Nucleolar dominance and maternal control of 45S rDNA expression, *Proc Biol Sci.* 2015 Dec 7;282(1820):20152201. doi: 10.1098/rspb.2015.2201. PMID: 26645200
5. Enusha Karunasena, Lauren J. McIver, Jasmin H. Bavarva, Xiaowei Wu, Hongxiao Zhu, Harold R. Garner, 'Cut from the Same Cloth': Shared Microsatellite Variants among Cancers Link Origins to the Neural Crest, *Oncotarget.* 2015 Sep 8;6(26):22038-47. PMID: 26246470
6. Zalman Vaksman, Harold R. Garner, Somatic microsatellite variability as a predictive marker for colorectal cancer and liver cancer progression, *Oncotarget.* 2015 Jan 21. PMID: 25691061
7. Natalie C. Fonville, Zalman Vaksman, Lauren J. McIver and Harold R. Garner, Population analysis of microsatellite genotypes reveals a signature associated with Ovarian Cancer, *OncoTarget* 2015 Mar 4. PMID: 25779658
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9. Zalman Vaksman, Harold R. Garner, Exome-wide somatic microsatellite variation is altered in cells with DNA repair deficiencies, *PLOS ONE*, October, 2014, PMID: 25402475
10. Harold R. Garner, Michael B. Waitzkin, Jasmin H. Bavarva, What do the changes in the aging genome mean for pharmacogenomics?, *Pharmacogenomics*, 2014, 15(14) 725-1728, PMID: 25493565
11. Harold Garner and Ashwin Puthige, BioFlow: A web based workflow management software for design and execution of genomics pipelines, *Source Code for Biology and Medicine*, September 5, 2014
12. Tae H, Karunasena E, Bavarva JH, McIver LJ, Garner HR. Large scale comparison of non-human sequences in human sequencing data. *Genomics.* 2014 Aug 27. PMID: 25173571
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 19. Harold R. Garner, "The Case of the Stolen Words", *Scientific American*, March, 2014
 20. Jasmin H Bavarva, Hongseok Tae, Pawel Michalak, Harold R Garner Life cycle of an n-globin pseudogene microsatellite locus, *Frontiers in Evolutionary and Population Genetics*, 2013, *Front Genet*. 2013 Dec 4;4:267. PMID: 24363661
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28. Shamira J Shallom, Jenni N Weeks, Cristi L Galindo, Lauren McIver, Zhaohui Sun, John McCormick, L G Adams and Harold R Garner, A species independent universal bio-detection microarray for pathogen forensics and phylogenetic classification of unknown microorganisms, BMC Microbiology 2011, 11:132 doi:10.1186/1471-2180-11-132
29. Shamira J Shallom, Ph.D.; Hongseok Tae, Ph.D.; Luciana Sarmento; Dale Preston; Lauren McIver; Christopher Franck, Ph.D.; Allan Dickerman, Ph.D.; Leslie G Adams, Ph.D.; Harold Garner, Ph.D, Comparison of genome diversity of Brucella spp. field isolates using Universal Bio-signature Detection Array and whole genome sequencing reveals limitations of current diagnostic methods, Gene. 2012 Nov 1;509(1):142-8. doi: 10.1016/j.gene.2012.07.073. Epub 2012 Aug 8. PMID: 22967710
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214. H.R. Garner, Fred Hutchinson Cancer Center, Seattle, Aug. 2009, Characterizing Publication Integrity
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217. H.R. Garner, Foreign Animal Zoonotic Disease Center, College Station, July, 2009, UBDA Universal Bio-Signature Detection Array
218. H.R. Garner, Keynote speaker, International Conference on Biomedical Ontology, Buffalo, NY, July, 2009, Identifying Relations in Text: Applications to Generating and Verifying Hypotheses in Drug Discovery
219. H.R. Garner, Council of Scientific Editors Annual Meeting, Pittsburgh, May, 2009, Déjà vu: A study of plagiarism and duplicate publication in biomedicine
220. H.R. Garner, A Study of Highly Similar and Duplicate Citations via Computer-based Text Mining and Manual Verification, HHS Office of Research Integrity Annual Conference, Buffalo, NY, May, 2009
221. H.R. Garner, Defense Threat Reduction Agency, Washington, D.C., Medical Technology Overview, May, 2009
222. H.R. Garner, American Society for Investigative Pathology, New Orleans, April, 2009, Quantitative ImmunoFluorescence enabled by highly multiplexed hyperspectral imaging microscopy, custom reagents and advanced software
223. H.R. Garner, Society of Women Engineers, UT Dallas, April, 2009, Trail to Invention
224. H.R. Garner, Biotech 101, Annual Meeting of Cosmetic Chemists, Dallas, March, 2009
225. H.R. Garner, US Oncology, Ft. Worth, March, 2009, Driving oncology services business with text data mining

226. H.R. Garner, Applied computational biology: Some examples and a promising future, UCLA, March, 2009
227. H.R. Garner, Trends in Psychiatric Genetics Meeting, Breckenridge, Feb. 2009, Whole-genome microsatellite scans of primates are revealing of neurological genes
228. H.R. Garner, SPIE Photonics West 2009, Jan. 2009, Dynamic high-resolution patterning for biomedical, materials, and semiconductor research
229. H.R. Garner, Texas Instruments, MEMS Symposium, Dallas, Nov. 2008, Dynamic high resolution patterning for biomedical, materials and semiconductor research
230. H.R. Garner, Psychiatric Genetics Conference, St. Petersburg, Russia, 2 talks, Microsatellite Genomics and Plagiarism and multiple manuscript publication, May, 2008
231. H.R. Garner, Biotech Educators Conference “Translating Genomic Research into Medical Applications”, May, 2008
232. H.R. Garner, The Livingston Group Investor-Stakeholder Forum, NYC, Sept., 2008, Data Mining Driven Drug Discovery
233. H.R. Garner, UNC Genetics Department, Dec. 2008, Applied computational biology: Some examples and a promising future
234. H.R. Garner, Keynote Speaker, 8th annual Biotech Educators Conference, Collin County Community College, June, 2008, Translating Genomic Research into Medical Applications
235. H.R. Garner, National Library of Medicine, NIH, Text similarity searching and data mining of Medline: from studies in ethics to drug discovery, Dec. 2007
236. H.R. Garner, Breast Cancer Summit in Washington DC, Oct. 2007, Microsatellites and Breast Cancer
237. H.R. Garner, MAGPI Forum, Internet Video Conference, Collaborative Approaches for Biomedical Research and Homeland Security, Oct. 2007
238. H.R. Garner, Cogentus, San Francisco, Data mining driven drug discovery, August, 2007
239. H.R. Garner, EU Microsatellite meeting, London, 3 talks, Role of microsatellite instability in cancer, The design, analysis and interpretation of custom microarrays, Publication Ethics, July 2007
240. H.R. Garner, Nimblegen, Inc. Madison, Wisc., Array based measurements of microsatellite instability, April, 2007
241. H.R. Garner, UTSW Statistics Department, Déjà vu – A study of Plagiarism and Duplication in Medline, Feb. 2007
242. H.R. Garner and Jim Miller (InSors), Internet 2 talk, Enabling a Collaborative Approach for Biomedical Research and Homeland Security, December, 2006
243. H.R. Garner, UT Arlington Physics Department, Development of a Holographic Visualization System, November, 2006
244. H.R. Garner, Microsat 2006 meeting, Budapest, Hungary, VNTRs in bioinformatics and evolution, Sept. 2006
245. H.R. Garner, Mark Kay Cosmetics, Dallas, Texas, Discovery of new cosmetic compounds with data mining, July, 2006
246. H.R. Garner, Joint Institute for Laboratory Astrophysics, Boulder, Holographic Visualization, April, 2006

247. H.R. Garner, University of Missouri, Development of a 3D visualization system, Feb. 2006
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250. H.R. Garner, keynote talk at the NSF EPSCoR Functional Genomics conference, Stillwater, OK, May 19, 2005
251. H.R. Garner (delivered by Michael Huebschman), San Francisco, 2005
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257. H.R. Garner, "Advanced Instrumentation, Automation and Informatics for the Human Genome Project, General Biology and Medicine," Fusion Power Associates - Technology Transfer Symposium, Oak Ridge, TN, October 5 -7, 1993.
258. H.R. Garner, "Lab Automation in the Human Genome Project," Scientific Computing & Automation Conference, Washington, D.C., October 11-13, 1993.
259. H.R. Garner, "Coordinating Robotics and Informatics in the Industrial and Research Laboratory," 3rd International Conference on Automation, Robotics and Artificial Intelligence applied to Analytical Chemistry and Laboratory Medicine, January 25-28, 1994.
260. H.R. Garner, "Advances in Automated DNA Sequencing," Human Genome Project: Commercial Implications, February 28, 1994.
261. H.R. Garner, "Instrumentation and Informatics Tools for Rapid Genomic or Diagnostic Analysis via PCR," PCR and Alternative Amplification Technologies for Diagnostics, Intercontinental Hotel, San Francisco, CA, April 20-22, 1994.

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290. H. Garner¹ and G. Evans², ¹Institute for Advanced Technologies, General Atomics, San Diego, CA; ²Salk Institute, San Diego, CA., "Custom, high-throughput automation for the human genome project," Cold Spring Harbor Mapping and Sequencing meeting, May, 1993.
291. H. Garner¹, B. Armstrong¹, D. Kramarsky¹, K. Snider², and G.A. Evans², ¹Institute for Advanced Technologies, General Atomics Corporation, San Diego, CA; ²Human Genome Center, The Salk Institute for Biological Studies, San Diego, CA, "Development and application of new, high-throughput automation for large scale physical mapping of human chromosomes," Cold Spring Harbor Mapping and Sequencing meeting, May, 1993.
292. H. Garner¹, M. Alringer¹, R. Matson², and J. Quint², ¹Institute for Advanced Technologies, General Atomics Corporation, San Diego, CA; ²Beckman Instruments, Fullerton, CA, "Advances in automation of amplification and high density gridding," Cold Spring Harbor Mapping and Sequencing meeting, May, 1993.
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301. H.R. Garner, H.D. Price, "Azimuthal Nonuniformities induced by ECH and ICH in the RFC-XX mirror plasma," GA-A17588, 10/1/84
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303. H.R. Garner, T. Aoki, "Pulse discharge cleaning for open-ended systems," GA-A17852, 1/1/85
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