

HAROLD RAY (Skip) GARNER, Jr.

HOME ADDRESS/PHONE:

4100 Post Oak
Flower Mound, TX 75022
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OFFICE ADDRESS/PHONE:

UT Southwestern Medical Center
5323 Harry Hines Blvd.
Dallas, TX 75235-8591
(214) 648-1661 Office
(214) 648-1445 FAX
Harold.Garner@UTSouthwestern.edu

PROFESSION: Experimental Research Physicist and Biomedical Researcher.

BIRTHDATE: February 5, 1954

SECURITY CLEARANCE: DoD Secret (no longer active)
DOE 'Q' (no longer active)

MARITAL STATUS: Married to Kim Menier, Brand Planner and Executive

EDUCATION:

B.S. (Nuclear Engineering) University of Missouri, Rolla (1976)
M.S. (Nuclear Engineering) University of Wisconsin, Madison (1978)
Ph.D. (Plasma Physics) University of Wisconsin, Madison (1982)
P.E. (Nuclear Engineering, honorary) University of Missouri, Rolla (1994)

PhD. THESIS TOPIC:

"Low-Frequency Turbulence, Particle and Heat Transport in the Wisconsin Levitated Octupole"
written under the direction of Professor R.S. Post.

WORK EXPERIENCE:

1974 to 1976 - Announcer/Technician at KMNR FM Radio, Rolla, Missouri
1976 - Nuclear Engineer, INSITE Program at Argonne National Laboratory, Chicago, Illinois
1976 to 1982 - Research Assistant in Plasma Physics at University of Wisconsin
1979 to 1980 - Technical Advisor/Consultant for LaFollette, Anderson, Sinkin, and Munson Law Firm, Madison, Wisconsin
1982 to 1986 - Senior Scientist for Fusion Division at General Atomics in San Diego
1986 to 1994 - Appointed to the Institute for Development & Application of Advanced Technology at General Atomics
1990 to 1994 - Scientific Advisor and founder of HELIX, biotech spinout of General Atomics
1991 to 1993 - Principle Scientist and founder of the Biosciences Division, General Atomics
1993 to 1994 - Senior Staff Scientist for the Biosciences Division, General Atomics
1994 to 1998 - Associate Director, Genome Science and Technology Center, UTSW
1999 to 2002 - Program Chair, Biomedical Engineering, UTSW/UTA
1999 to 2006 - Founding member of the Center for Biomedical Inventions, UTSW
1994 to present - P. O'B Montgomery Distinguished Chair in Developmental Biology, Professor of Biochemistry and Internal Medicine, McDermott Center for Human Growth & Development, UTSW
2006 to present - Founding member of the Division of Translational Research, Internal Medicine Department, UTSW

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ORGANIZATIONS (past and present):

Biophysical Society, American Physical Society, HUGO, IEEE, The Cousteau Society, Fusion Power Associates, Japan Karate Association, Planetary Society, San Diego Zoological Society, Tau Beta Pi, Who's Who, Who's Who of California, Fine Woodworkers Association, Sigma Xi, American Association of Cancer Researchers, American Institute for Medical and Biological Engineering (AIMBE), American Cancer Society, Society for Genome Biology and Technology, International Society of Computational Biology

HONORS/PROFESSIONAL ACTIVITIES:

Fellow of the American Institute for Medical and Biological Engineering
Charter member of the Academy of the School of Mines and Metallurgy and Order of the Golden Shillelagh, University of Missouri - Rolla
Advisor and program reviewer (current or previously) for: Drosophila Genome Center Advisory Committee, Berkeley, CA; Program reviewer for the National Institutes of Health, National Center for Human Genome Research, National Cancer Institute, SBIR program, Sequencing Advisory Group, NIH MIDAS steering committee; Program reviewer for the Department of Energy, Office of Health and Environmental Research, DOE Human Genome Subcommittee, BERAC; Steering Committee on Analytical Instrumentation for the National Science Foundation, reviewer for National Science Foundation; reviewer for NASA Mars Rover and Scout Missions; advisor to the National Research Council; Advisory Board, North Texas Life Science Society; reviewer for Genome Canada, a non-profit corporation, reviewer for State of South Carolina, U.S. Department of State, NIH Director's New Innovator Awards.
Ex-member of the NIH/NCI Cancer Biomarkers (CBSS) study section.
Chair of study section for Susan G. Komen Breast Cancer Foundation
Chair of the NASA ASTID review group, 2009
Journal reviewer for: Genomics, Nature Biotechnology, BioTechniques, Review of Scientific Instruments, IEEE Spectrum, Nature Genetics, Oncology, Bioinformatics, Biomed Central Genomics, Nucleic Acids Research, Royal Society of Chemistry Journals.
Associate Editor for IEEE Engineering in Medicine and Biology, Scientific Computing and Automation, IEEE Transactions on Automation Science and Engineering, Editorial Board of the Journal of the Society for Experimental Biology and Medicine
Scientific Advisory Board for Stratagene (no longer active), TissueGen (no longer active), MWG (Germany, no longer active), GeneTraks (Australia, no longer active), Vitruvius Biosciences (no longer active), The Texas Japan Genomics Corporation (Japan, no longer active), BioAutomation, Nimblegen, Inc. (no longer active), Vindauga Ventures, BioCemi
Founder of Light Biology (acquired by Nimblegen, now Roche), Xanapath, LLC; HelioText, LLC Board of Directors; Deltateq Instruments, Inc;
Founder of United Community Bank (<http://www.unitedcommunity.com/>)
University Committees on Internet Security, BME JGSC, REISSCO (electronic resources advisory committee), Clinical Registry
External Advisory Committee, Carolina Center for Genome Sciences, UNC
Advisory Council, Green Center for Systems Biology Science, UTD
Advisory Board of the Hong Kong – Europe New Life Science Seed Capital Fund
Invited Lecturer, King's College Summer School, London – “Bioinformatics for Geneticists”
Finalist, 2008 Tech Titan Awards, Metroplex Technology Business Council
Postdoctoral Mentor of the Year, 2008
Advisor, Department of Health and Human Services, 2009

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Reviewer, Singapore Biomedical Research Council, 2009

Finalist, 2009 Tech Titan Awards, Metroplex Technology Business Council

OTHER PROFESSIONAL ACTIVITIES (past and current):

Organizer of the Human Genome Automation Special Interest Group, with Glen Evans (Salk) and Jeff Quint (Beckman Instruments).

Outreach Coordinator for Biosciences Division at General Atomics.

Executive Advisory Committee for the Small Manufacturers Automation Resource and Training Center at the St. Louis Community College.

Chairman of the Advisory Board for Kid Lab, a Science Program for Young People in San Diego, California.

Lecturer in High Temperature Superconductivity, Advanced Materials and Biotechnology for Kid Lab in San Diego, California.

RESEARCH SPECIALTIES:

Plasma Physics - International Cooperation and Program Principle Investigator in Mirror Confinement Systems, ICRF and ECRF Heating, Plasma Diagnostics, Tokamak Edge Physics, Pump Limiters and Divertors, Advanced Fuel experiments on Levitated Octupole, Stellarators, Mirror Cusp Experiments, Plasma-Acoustic Interactions, Plasma Based Low Energy Neutral Sources, Transport, Tandem Mirror Physics

Biotechnology - Microwave Spectroscopy of Macromolecules (DNA, Proteins, etc.), Microwave and Spectroscopic Diagnostic Development, Resonant Acoustic Damping in DNA, Recombinant DNA, PCR Amplification, Optical Diagnostic Development/Commercialization, Bioreactors, YACs, Superfluorescence, DNA Sequence Analysis/Informatics, Automation/Robotics, Protocol/Methods development, STM/AFM, Hyperspectral Imaging, Biological Arrays, Biomedical Text Data-Mining, Pharmaceutical Development, Evolution, Proteomics, Tissue Engineering, Drug Discovery

Genetics/Genomics – High throughput sequencing, microarray development and analysis, cancer biomarker discovery and pursuit, pathogen/host forensics

Computer Science - Expert Systems Application/Knowledge Base writer, Data Acquisition, Fortran, Assembler, C, ADA, Operating system use from Macintosh to Linux Clusters, Registered Macintosh and Hewlett Packard product developer, Parallel processing using transporter arrays and superparallel computers and clusters, Data Mining

Optics – Hyperspectral Imaging, Holographic Projection/3D TV, spectrophometric instrumentation, Variable Spectrum Sources, UV image projection

Accelerator Physics - Design/Construction/Testing of IXRS, a new Microwave driven electron cyclotron

Acoustics - Acoustic Levitation, Particle Agglomeration, Acoustic modes in solids, Acoustic Enhanced Plasma Breakdown, SAWs, Chromosome Sorting

High Temperature Superconductivity - Solid State NMR and wire coating

Electronics - High and Low Frequency Analog, Digital, High Voltage, High Power, Pulsed, 3rd Class Radio Telephone Operator

Microwaves - High Power Plasma Heating and Diagnostics to 140 GHz, Homodyne and Heterodyne Systems, component development

Lasers - Pulsed and CW lasers for plasma diagnostics, Excimer laser development

Reactor Physics - Reactor Operations and Fermi Chopper design/construction/use at University of Missouri Research Reactor

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Radiation Shielding/Monitoring - Instructor for a laboratory class at University of Wisconsin, Madison
Submarine Stealth and Communications, Thermonuclear Weapons, SDI –
Nanotechnology – Nanopatterning driven cell response, Nanotube vectors, QD applications
Forensics and Paternity – Expert witness, consultant
Patent Novelty Assessment – Expert, consulting
Scientific Publication Ethics -

PUBLICATIONS:

My publications list includes books, papers in refereed journals, invited talks, non-refereed journal papers, internal reports at General Atomics, Institute of Plasma Physics at the University of Nagoya-Japan, the University of Wisconsin, and conference abstracts.

PATENTS:

Global germ line and tumor microsatellite patterns are cancer biomarkers, US UTSD-2177
Method and composition for the treatment of cardiac hypertrophy (with Mounir Errami) –
US 2008/0305186 A1
A computer-based method for creating collections of sequences from a dataset of sequence identifiers corresponding to natural complex biopolymer sequences and linked to corresponding annotations – to issue ~May, 2006
Computer Program products, Systems and Methods for Information Discovery and Relational Analyses – Filed, Japan
Holographic Projector- Filed
Informational Discovery and Relational Analysis using the IRIDESCENT system –
Filed in US, Japan and Australia
Prediction of disease-causing alleles from sequence context – Filed
A program for Microarray Design and Analysis – 7,065,451
Digital Micromirror Holographic Projector – 6,646,773
eTBLAST, a text search tool – Filed
Identification of Chemically Modified Polymers – Filed
Devices, Methods and Systems for High-resolution High-throughput Genetic Analysis –
Filed
Optical Correlator using Spatial Light Modulation Illumination (with R. Gale, TI) – 6,819,807
Variable Spectrum Synthesizer – 6,657,758
Polymorphic Repeats in Human Genes – 6,472,154
Hyperspectral Imaging Microscope – 6,337,472
Digital Optical Chemistry Micromirror Imager – 6,295,153
Digital Optical Chemistry Micromirror Imager – Divisional Filed
Digital Optical Chemistry Micromirror Imager – Conversion Filed
Hyperspectral Slide Reader – 6,160,618
Automatic Sequencer/Genotyper Having Extended Spectral Response - 5,871,628 and
6,427,126
Micropipette Adaptor for Spectrophotometers - No. 4,991,958 and NI-48394 Taiwan
Coaxial Microwave Absorption Diagnostic - No. 4,990,858
Spectrophotometer to Fluorometer Converter (with L. Peranich) - No. 5,094,531
Micropipette Adaptor for Spectrophotometers with Temperature Control - No. 5,092,674
Micropipette Adaptor for Spectrofluorometers - No. 5,104,218
Assembly for converting a Spectrophotometer to a Fluorometer - No. 5,166,743

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Micropipette Adaptor with Temperature Control for PCR Amplification - No. 5,241,363
Micropipette Adaptor for Spectrofluorometers having an Integrated Optical System -
Coated Capillary Tube for Controlled Release of Reagents (with O. Tuason, L. Peranich) –
No.5387526
Automated Method for Determining the Base Sequence of a Nucleic Acid Chain - (with M.
Alringer and G. Shephard) -
Multi-Well Microtiter Tray (with G. Shephard) - US patent to issue, No. 0922905
(France) and No. M 90 03 555.8 (Germany)

RESEARCH FUNDING HISTORY:

1983 - 1988, DoE contract for International (Japan) Plasma Physics Studies,
initially \$150k/year to ~\$650k/year.
1992 - 1994, NIH grant, High-Throughput Screening of YAC Libraries, as part
of the program project grant, Glen Evans (The Salk Institute), director,
~180k/year.
1992 - 1995, NIH grant, High-Throughput HGP Automation System, ~\$588k
(3 year).
1994 - 1998, co - PI with Glen Evans, NIH GESTEC grant, UT - Southwestern
Genome Center, ~\$16M, (4 year).
1995 - 1997, PI “ Optoelectronic Hybridization Microsensor”, Whitaker
Foundation, ~800k\$, (4 year).
1996 - 1997, co - PI with Glen Evans, DoE grant, A PAC end-sequence
Database for Human Genomic Sequencing.
1996 - 1997, PI, Texas Instruments grant, Optical Hybridization Microsensor
and Beyond.
1997 - 2000, co - PI with Ron Butow, NIH/NCI grant, The Large-scale
Functional Analysis of the Yeast Genome.
1998 - 2000, PI on a Developmental Grant as part of UTSW/MDA cancer
SPORE, John Minna, PI on SPORE grant, ~\$100k/year
1998 - 2002, PI on sponsored research agreement with Beckman Instruments
1998 - 2000, PI on DOE grant, Technology Support for JGI and SPF, \$493k,
(2 years)
1999-2001, Investigator on Reynold’s Foundation Cardiac Disease Center grant,
\$24M (4 years)
1999 – 2004, PI on Software and Instrumentation for the Identification of
Cancer Genes, NIH/NCI grant, \$625k/year (3 years)
1999 – 2001, PI on SNooP-A directed search for genetic variation, State of
Texas Advanced Research Projects grant, \$198k (2 years)
1999 - 2001, Co-PI on Hyperspectral Microscopic Imaging, State of Texas
Advanced Research Program, \$142,750/year (2 years)
2000 – 2004, PI Genomics and proteomics of cell injury and inflammation,
NIH/NHGRI program project grant, \$811k/year (3 years)
2001 – 2003, PI Phase-controlled Imaging with Digital Light Processing,
Texas Advanced Research Projects grant, \$125,000/year (2 years)
2002 – present, PI, NIH/NCI Lung SPORE Bioinformatics Core, ~\$90k/year
(5 years, renewal submitted for next 5 years)
2002 – present, PI, NIH/NHGRI Proteomics Center, ~\$400k/year (7 years)
2002 – present, Hudson Foundation, \$40k (year 1), \$60k (year 2)
2002 – 2005, Investigator, BioThreat Center, UT Austin, Steven Kornguth, PI., \$20k/year

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- 2003 – 2006, PI for NIH R01 grant, Microsatellites and their role in cancer, \$200k/year (3 years)
- 2003 – present, PI for Computational Biology Core for Midwest Regional Center of Excellence, NIH/NIAID, \$350k/year
- 2006 – 2007, Phase I NASA SBIR with Lynntech, Monitoring stress on high altitude balloon materials using hyperspectral imaging
- 2007 - present, NIH/NLM R01 grant, Duplicate and Plagiarized Articles in Medline
- 2007 – 2008, Three Phase I SBIRs with Lynntech, Monitoring stress on parachute materials using hyperspectral imaging (NASA), and Protein ligand discovery process (US Army), NIH/NCI Ligand production for cancer research
- 2007 – present, Project leader, Foreign Animal Zoonotic Disease Center, Texas A&M (Department of Homeland Security funded)
- 2008 – present, Phase II SBIR with Lynntech, Protein ligand discovery process, US Army

STUDENTS MENTORED:

- Kari Kukanskis - M.S., BME 1998, Molecular Staging
- Jeff Zavaleta - UT Austin Undergraduate Thesis Reader, 1998, UTSW Med School
- Ashwine Pande Patil - M.S., BME 1999, Biosciences Dept., Univ. of Osaka
- Greg Miller - Ph.D. BME 1999, Cumbre, Inc.
- Varshal Dave – MS, Cell and Molecular Biology, 1000, Axon, Inc.
- Robert Balog - Ph.D., BME and Cell and Molecular Biology, 2003, US Army Active
- Amit Kulkarni – M.S., BME, 2002, Rosetta Informatics/Merck, Inc
- Trey Fondon - Ph.D., Biophysics, 2003, post-doc, independent fellow, UTSW
- Jonathan Wren - Ph.D., Cell and Molecular Biology, 2003, Univ. of Oklahoma
- Elizabeth Cronin – Ph.D. BME, 2003 (with Kevin Nelson), new mother
- Monica Hovarth – Ph.D. 2004, Cell and Molecular Biology, UTSW, NIEHS
- Steve Crozier – Ph.D., Biophysics, UTSW (dropped out to start company)
- Ryan Weil - Ph.D. 2006, Cell and Molecular Biology, UTSW, Roche
- Nishanth Marthandan – M.S. 2006, BME, UTSW, bioinformaticist
- Jose Cabrera – M.S., 2006, Biomedical Communications, UTSW, free-lance in Dallas
- Dipanjana Bhattacharya – Ph.D., Biophysics, UTSW
- Robert Longnecker – M.S., BME, UTA (changed to non-thesis, 2007)
- Vinayak Kulkarni – M.S. 2007., BME, UTSW
- Amruta Joshi – M.S., BME, UTA
- Sasidhar Katari – M.S., BME, UTA
- Dipen Rana - M.S., BME, UTA
- Sandhya Mitnala - M.S., BME, UTA

POST DOCTORAL FELLOWS MENTORED:

- John “Trey” Fondon – Post-doc, Bioinformatics/Genetics (now, UTA faculty)
- Yuri Belosludtsev – Post-doc, Chemistry (now CEO of Vitriiviouis Biosciences)
- Simon Rayner – Post-doc, Instrumentation (now CSO of BioAutomation)
- Ping Li – Post-doc, Bioinformatics (current association unknown)
- Kevin O’Brien – Post-doc, Instrumentation (now at Merck, Inc.)
- Jim Yan – Post-doc, Bioinformatics (now at Almac Diagnostics)
- Shawn Roach – Post-doc, Chemistry (now at EyeTech)
- Alex Pertsemlidis – Post-doc, Bioinformatics (now Research Faculty, UTSW)
- Kevin Tang – Post-doc, Bioinformatics (now at the CDC)
- Jing Shen – Post-doc, Bioinformatics (now at UTSW microarray core)

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Yun Lian – Post-doc (MD), Bioinformatics (now independent consultant, Dallas)
Tracy Xu – Post-doc, Bioinformatics (now at PA school at UTSW)
Evgeni Poliakov – Post-doc, Instrumentation (now at Redstone Arsenal)
Elizabeth “Lena” Flood – Post-doc, Molecular Biology (now at Nomadics)
My-Hanh Nguyen – Post-doc, Bioinformatics and Genomics (now at Roche)
Ellen King – Post-doc (MD), Bioinformatics and Drug discovery (pathology resident, UTSW)
Mike Huebschman – Post-doc, Instrumentation (UTSW/Xanapath staff)
Wayne Fisher – Post-doc, Bioinformatics (UTSW, Research Scientist UTSW)
Mounir Errami – Post-doc, Bioinformatics (now, instructor at UTSW)
Cristi Galindo – Post-doc, Genomic data interpretation
Jenni Weeks – Post-doc, Genomic data analysis and pathogen detection (now, St Jude
Childrens Research Hospital)

TEACHING and LECTURING:

UTSW:

Div. of Cell and Molecular Biology Core Course – Bioinformatics
Human Genetics – Bioinformatics
Introduction to Biomedical Engineering – Biocomputing and Technology
Lab Principles in Biomedical Engineering – Bioinformatics
Ethics
Proteomics Special Course
Experimental Approaches to Human Biology and Disease (UTSW MD/PhDs)
Summer Workshop for Div. of Cell and Molecular Biology – Microarrays
UTSW Library course – Text data searching and mining

Other:

Invited Lecturer, 2007 and 2009, King’s College Summer School, London: “Bioinformatics for Geneticists”, typically teaching 5 one-hour sections in a week.

HOBBIES:

Karate (Shotokan - presently 1st degree Black Belt and Instructor), Aikido, Running, Woodworking, Photography, Camping, SCUBA Diving, Surfing, Snowboarding, Bicycling, Oil Painting, Dog and Horse Rescue.

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PUBLICATIONS:

Books:

1. Kevin P. Rosenblatt, Michael Huebschman, and Harold R. Garner, Construction and Hyperspectral Imaging of Quantum Dot Protein Arrays, in *Methods in Molecular Biology*, Humana Press, 2009
2. Michael L. Huebschman, Roger A. Schultz, and Harold R. Garner, Hyperspectral Imaging, Review chapter, *Encyclopedia of Modern Optics*, Academic Press, 2004
3. H.R. Garner, Software and enhancements to gel-based sequencers, *BioComputing*, a book in the BioFocus Update Series, 2002.
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.
9. H.R. Garner and L. S. Peranich, Chapters 6 and 7 titled "Radial Transport Issues" and "RF Tandem Mirror Modes", of the book *Radio Frequency and Cusp Confinement* edited by T. Sato, and K. Takayama, I.P.P. - Nagoya, publishers, 1989.
10. Contributions to Chapter 3 of *KARATE, Synchronization of Body and Mind*, by S. Sugiyama and his students. (1980)

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Refereed Journals:

1. Sasidhar C Katari, Matthew N Wallack, Michael Huebschman, Paul Pantano, and Harold R Garner, Fabrication and Evaluation of a Near Infrared Hyperspectral Imaging System, in press, *Journal of Microscopy*
2. Carlos A Rossetti, Cristi L Galindo, Sara D Lawhon, Harold R Garner and L Garry Adams, *Brucella melitensis* global gene expression study provides novel information on growth phase-specific gene regulation with potential insights for understanding *Brucella*:host initial interaction, *BMC Microbiology* 2009, May 6;9:81 PMID: 19419566
3. Niclas C Tan, Wayne G Fisher, Kevin P Rosenblatt and Harold R Garner, Application of multiple statistical tests to enhance mass spectrometry-based biomarker discovery. *BMC Bioinformatics*. 2009 May 14;10:144. PMID: 19442303
4. Harold R. Garner, Amruta Joshi, Michael L. Huebschman, Surya Shandy, Sandhya N. Mitnala, Brandi Wallek, Season Wong, Dynamic high-resolution patterning for biomedical, materials, and semiconductor research (Invited Paper), *SPIE Bios09*, Jan. 28, 2009, #7210-1
5. Michael L. Huebschman, Kevin P. Rosenblatt, and Harold R. Garner, Hyperspectral microscopy imaging to analyze pathology samples with multi-colors reduces time and cost, *SPIE Bios09*, Jan. 28, 2009, #7182-50
6. Tara C. Long, Mounir Errami, Angela C. George, Zhaohui Sun & Harold R. Garner, Scientific Integrity: Responding to Possible Plagiarism, *Science*, Vol. 323, 1293-1294, March 6, 2009, PMID: 19265004
7. Errami M, Sun Z, Long TC, George AC and Garner HR, Déjà vu: a Database of Duplicate Citations in the Scientific Literature, *Nucleic Acids Res.* 2009 Jan;37(Database issue):D921-4. PMID: 18757888.
8. Miller D, Joshi, A and Garner HR, Cells have high resolution light sensing capability that can be used to control aspects of their behavior. *IEEE Engineering in Biology and Medicine*. January/February, 2009
9. SG, Roth J, Correa A, Broom B, Coombes K, Almeida JS. Data Driven Semantic Integration of Translational Lung Cancer Research at MDAnderson Cancer Center. *AMIA Annu Symp Proc*. 2008 Nov 6:927. PMID: 18999102
10. Kulkarni V, Errami M, Barber R, Garner HR. Exhaustive prediction of disease susceptibility to coding base changes in the human genome. *BMC Bioinformatics*. 2008 Aug 12;9 Suppl 9:S3. PMID: 18793467
11. Bosnakovski D, Xu Z, Jiang E, Galindo CL, Liu M, Simsek T, Garner HR, Agha-Mohammadi S, Belayew A, Perlingeiro R, and Kyba M, Comparative functional analysis of FSHD candidate genes identifies DUX4-mediated disease-related molecular pathologies. *EMBO J*. 2008 Oct 2. PMID: 18833193
12. Deus HF, Stanislaus R, Veiga DF, Behrens C, Wistuba II, Minna JD, Garner HR, Swisher SG, Roth JA, Correa AM, Broom B, Coombes K, Chang A, Vogel LH, Almeida JS, A Semantic Web management model for integrative biomedical informatics, *PLoS ONE*. 2008 Aug 13;3(8):e2946. PMID: 18698353
13. Loadman JA, Garner HR, Drummond GB, Towards the elimination of plagiarism and redundancy in Anaesthesia and Intensive Care, *Anaesth Intensive Care*. 2008 Sep;36(5):643-5. PMID: 18853580
14. Wagner M, Li L, Morales J, Galindo C, Garner H, Bornmann W, and Boothman D, Role of c-Abl kinase in MMR-dependent G2 cell cycle checkpoint arrest responses, *JBC*, 2008 May; PMID 18480061

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15. Weil MR, Galindo C, and Garner H, A high resolution survey of the effects of 5 Aza dC treatment on the chromatin state of MCF7 breast cancer cells, in press, IEEE Eng Med Biol Mag.
16. Zhang F, Sha J, Wood TG, Galindo CL, Garner HR, Burkart MF, Suarez G, Sierra JC, Agar SL, Peterson JW, and Chopra AK, Alteration in the activation state of new inflammation-associated targets by phospholipase A2-activating protein (PLAA), Cell Signal. 2008 May;20(5):844-61 PMID: 18291623
17. Moen AT, Yeager LA, Lawrence WS, Ponce C, Galindo CL, Garner HR, Baze WB, Suarez G, Peterson JW, Chopra AK, Transcriptional profiling of murine organ genes in response to infection with Bacillus anthracis Ames spores, Microbial Pathogenesis, 2008 Apr;44(4):293-310. PMID: 18037264
18. Errami M, Galindo CL, Tassa AT, DiMaio JM, Hill JA, and Garner HR, Doxycycline Attenuates Isoproterenol- and Transverse Aortic Banding- induced Cardiac Hypertrophy in Mice, J Pharmacol Exp Ther. 2008 Mar;324(3):1196-203 PMID: 18089841
19. Marthandan N, Klyza S, Li S, Kodadek T, and Garner HR, Construction and Evaluation of an Automated Light Directed Protein-Detecting Microarray Synthesizer, IEEE Trans Nanobioscience. 2008 Mar;7(1):20-7 PMID:18334452
20. Errami M and Garner HR, A tale of two citations, Nature 2008 Jan 24;452(7177):397-9 PMID 18216832
21. Errami M, Hicks JM, Fisher W, Trusty D, Wren JD, Long TC and Garner HR, Deja vu A Study of Duplicate Citations in Medline, Bioinformatics. 2008 Jan 15;24(2):243-9. PMID 18056062
22. Cabrera JA, Hoggatt-Krumwiede K, Calver L, Garner HR, Expanding Researchers' Understanding of Effective Corporate Identity Design for Company Spin Outs, JBC 2007 33(3) E62-E67
23. Ragucci TJ, Cisar A, Huebschman ML and Garner HR, Film Strain Measurement through Hyperspectral Polarimetry, Proceedings of American Institute of Aeronautics and Astronautics, 2007
24. Sierra JC, Suarez G, Sha J, Foltz SM, Popov VL, Galindo CL, Garner HR, Chopra AK., Biological characterization of a new type III secretion system effector from a clinical isolate of Aeromonas hydrophila-part II, Microb Pathog. 2007 Oct;43(4):147-60. PMID: 17368824
25. German DC, Gurnani P, Nandi A, Garner HR, Fisher W, Diaz-Arrastia R, O'Suilleabhain P, Rosenblatt KP, Serum biomarkers for Alzheimer's disease: proteomic discovery, Biomed Pharmacother. 2007 Aug;61(7):383-9. PMID: 17614251
26. Shah JK, Garner HR, White MA, Shames DA, Minna JD, sIR: siRNA Information Resource, a web-based tool for siRNA sequence design and analysis and an open source siRNA database, BMC Bioinformatics. 2007 May 31;8:178. PMID: 17540034
27. Burkart MF, Wren JD, Herschkowitz JI, Perou CM and Garner HR, Clustering of Microarray-Derived Gene Lists through Implicit Literature Connections, Bioinformatics. 2007 Aug 1;23(15):1995-2003. PMID: 17537751
28. Fisher WG, Rosenblatt KP, Fishman DA, Whiteley GR, Mikulskis A, Kuzdzal SA, Lopez MF, and Garner HR, A Robust Biomarker Discovery Pipeline for High Performance Mass Spectrometry Data, J Bioinform Comput Biol. 2007 Oct;5(5):1023-45. PMID: 17933009
29. Ng KW and Garner HR Nome della Proteina: A protein identification resolution database, IEEE Eng Med Biol Mag. 2007 Jul-Aug;26(4):70-2. PMID: 17672234
30. Errami M, Wren JD, Hicks JM and Garner HR, eTBLAST: A web server to identify expert reviewers, appropriate journals and similar publications, Nucleic Acids Res. 2007 Jul;35(Web Server issue):W12-5. PMID: 17452348

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170. 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
171. H.R. Garner, Fred Hutchinson Cancer Center, Seattle, Aug. 2009, Characterizing Publication Integrity
172. H.R. Garner, Fred Hutchinson Cancer Center, Seattle, Aug. 2009, Global Microsatellite Survey: discovery of a polymorphic AAAG repeat in Estrogen Related Receptor g gene that may correlate with heritable cancers.

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173. H.R. Garner, University of Washington, Seattle, Aug. 2009, Characterizing Publication Integrity
174. H.R. Garner, Foreign Animal Zoonotic Disease Center, College Station, July, 2009, UBDA Universal Bio-Signature Detection Array
175. H.R. Garner, Council of Scientific Editors Annual Meeting, Pittsburgh, May, 2009, Déjà vu: A study of plagiarism and duplicate publication in biomedicine
176. 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
177. H.R. Garner, Defense Threat Reduction Agency, Washington, D.C., Medical Technology Overview, May, 2009
178. 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
179. H.R. Garner, Society of Women Engineers, UT Dallas, April, 2009, Trail to Invention
180. H.R. Garner, Biotech 101, Annual Meeting of Cosmetic Chemists, Dallas, March, 2009
181. H.R. Garner, US Oncology, Ft. Worth, March, 2009, Driving oncology services business with text data mining
182. H.R. Garner, Applied computational biology: Some examples and a promising future, UCLA, March, 2009
183. H.R. Garner, Trends in Psychiatric Genetics Meeting, Breckenridge, Feb. 2009, Whole-genome microsatellite scans of primates are revealing of neurological genes
184. H.R. Garner, SPIE Photonics West 2009, Jan. 2009, Dynamic high-resolution patterning for biomedical, materials, and semiconductor research
185. H.R. Garner, Texas Instruments, MEMS Symposium, Dallas, Nov. 2008, Dynamic high resolution patterning for biomedical, materials and semiconductor research
186. H.R. Garner, Psychiatric Genetics Conference, St. Petersburg, Russia, 2 talks, Microsatellite Genomics and Plagiarism and multiple manuscript publication, May, 2008
187. H.R. Garner, Biotech Educators Conference “Translating Genomic Research into Medical Applications”, May, 2008
188. 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
189. H.R. Garner, Breast Cancer Summit in Washington DC, Oct. 2007, Microsatellites and Breast Cancer
190. H.R. Garner, The Livingston Group Investor-Stakeholder Forum, NYC, Sept., 2009, Data Mining Driven Drug Discovery
191. H.R. Garner, UNC Genetics Department, Dec. 2008, Applied computational biology: Some examples and a promising future
192. H.R. Garner, Keynote Speaker, 8th annual Biotech Educators Conference, Collin County Community College, June, 2008, Translating Genomic Research into Medical Applications
193. H.R. Garner, MAGPI Forum, Internet Video Conference, Collaborative Approaches for Biomedical Research and Homeland Security, Oct. 2007
194. H.R. Garner, Cogentus, San Francisco, Data mining driven drug discovery, August, 2007
195. 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
196. H.R. Garner, Nimblegen, Inc. Madison, Wisc., Array based measurements of microsatellite instability, April, 2007

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197. H.R. Garner, UTSW Statistics Department, Déjà vu – A study of Plagiarism and Duplication in Medline, Feb. 2007
198. H.R. Garner and Jim Miller (InSors), Internet 2 talk, Enabling a Collaborative Approach for Biomedical Research and Homeland Security, December, 2006
199. H.R. Garner, UT Arlington Physics Department, Development of a Holographic Visualization System, November, 2006
200. H.R. Garner, Microsat 2006 meeting, Budapest, Hungary, VNTRs in bioinformatics and evolution, Sept. 2006
201. H.R. Garner, Mark Kay Cosmetics, Dallas, Texas, Discovery of new cosmetic compounds with data mining, July, 2006
202. H.R. Garner, Joint Institute for Laboratory Astrophysics, Boulder, Holographic Visualization, April, 2006
203. H.R. Garner, University of Missouri, Development of a 3D visualization system, Feb. 2006
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206. H.R. Garner, keynote talk at the NSF EPSCoR Functional Genomics conference, Stillwater, OK, May 19, 2005
207. H.R. Garner (delivered by Michael Huebschman), San Francisco, 2005
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211. H.R. Garner, "Prototype Automated Instrumentation for the Human Genome Project," Scientific Computing & Automation conference, October 14, 1992, Washington D.C.
212. H.R. Garner, "Information Processing and the Demands of Molecular Biology," 1993 Clinical Chemistry Conference on Advanced Analytical Concepts for the Clinical Laboratory, Oak Ridge, TN, April 22, 1993.
213. H.R. Garner, "Advanced Instrumentation, Automation and Informatics for the Human Genome Project, General Biology and Medicine," Fusion Power Associates - Technology Transfer Symposium, Oar Ridge, TN, October 5 -7, 1993.
214. H.R. Garner, "Lab Automation in the Human Genome Project," Scientific Computing & Automation Conference, Washington, D.C., October 11-13, 1993.
215. 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.
216. H.R. Garner, "Advances in Automated DNA Sequencing," Human Genome Project: Commercial Implications, February 28, 1994.
217. 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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245. G. Evans¹, D. McElligott¹, S. Clark¹, H. Garner², L. Selleri¹, J. Hutchinson¹, Y. Wei¹, A. Churukian¹, M. Peterson¹, K. Diggle¹, J. Quackenbush¹, A. Romo¹, N. Nowak³, S. Quin³, T. Shows³, and M. W. Smith¹, ¹Human Genome Center, The Salk Institute for Biological Studies, San Diego, CA, ²Institute for Advanced Technologies, General Atomics Corporation, San Diego, CA, ³Roswell Park Cancer Institute, Buffalo N.Y., Cold Spring Harbor Mapping and Sequencing meeting, May, 1993.

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246. 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.
247. 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.
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249. H.R. Garner¹, 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, "Prototype Automated Instrumentation for the Human Genome Project," DoE Contractor-Grantee Workshop III, Sant Fe, NM, February 7-10, 1993.
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251. H.R. Garner, M.A. Alringer, "The Macintosh Autorad Sequence System," AIP Conference on Computational Physics, June, 1991.
252. H.R. Garner, O. Tuason, R.L. Lee, "Oligonucleotide Properties Measured with Fluorescence," The Fifth San Diego Conference, Nucleic Acids: New Frontiers, American Association of Clinical Chemistry, 11/14-16/90
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