

BIOGRAPHICAL SKETCH

Provide the following information for the key personnel and other significant contributors in the order listed on Form Page 2.
Follow this format for each person. **DO NOT EXCEED FOUR PAGES.**

NAME Jerilyn A. Walker	POSITION TITLE Research Associate		
eRA COMMONS USER NAME (credential, e.g., agency login)			
EDUCATION/TRAINING <i>(Begin with baccalaureate or other initial professional education, such as nursing, and include postdoctoral training.)</i>			
INSTITUTION AND LOCATION	DEGREE <i>(if applicable)</i>	YEAR(s)	FIELD OF STUDY
State University of New York at Cortland	B.S.	1983-1987	Physical Education/Biology
University of Buffalo, Buffalo, NY	M.S.	1987-1990	Exercise Science

A. Positions and Honors.

Positions and Employment

- 05-2001 – Present Research Associate, Comparative Genomics-Batzer Lab, Department of Biological Sciences, Louisiana State University, Baton Rouge, LA.
- 02-2001 - 04-2001 Research Associate, Dept. of Pathology, Louisiana State University Health Sciences Center, New Orleans, LA.
- 07-1993 - 01-2001 Research Associate, Developmental Genetics Lab, Pennington Biomedical Research Center, Louisiana State University, Baton Rouge, LA.
- 09-1990 - 07-1993 Research Assistant, Muscle Function / Microcirculation Laboratory, University of Buffalo, Buffalo, NY.
- 09-1988 - 08-1990 Teaching Assistant, Dept. of Physical Therapy / Exercise Science, University of Buffalo, Buffalo, NY.

Reviewer for Scientific journals

- 2006 – Present Analytical Biochemistry
- 2007 - Present GENE
- 2009 - Present PLoS ONE

B. Selected peer-reviewed publications (in chronological order).

1. **Walker, J. A.**, F. J. Cerny, J. R. Cotter, and H. W. Burton (1992) *Attenuation of contraction-induced skeletal muscle injury by bromelain*. *Medicine and Science in Sports and Exercise* **24**: 20-25.
2. Burton, H. W. and **J. A. Walker** (1994) Delayed recovery of endothelium-dependent vasodilation in regenerating arterioles of skeletal muscle autografts. *Microvascular Research* **48**: 85-95.
3. Truett, G. E., R. J. Tempelman, and **J. A. Walker** (1995) Codominant effects of the fatty (fa) gene during early development of obesity. *American Journal of Physiology* [Endocrinol: Metab.31] **268**: E15-E20.
4. Truett, G. E., J. W. Brock, and **J. A. Walker** (1996) A rat homolog for the mouse deafness mutant jerker (je). *Mammalian Genome* **7**: 356-358.
5. **Walker, J. A.** and G. E. Truett (1997) An assay for the Cpe^{fat} obesity mutation created with a modified primer. *Mammalian Genome* **8**: 783-784.

6. Truett, G. E., R. J. Tempelman, **J. A. Walker**, and J. K. Wilson (1998) Misty (m) affects growth traits. *American Journal of Physiology* [Regulatory Integrative Comp. Physiol. 44] **275**: R29-R32.
7. Truett, G. E., **J. A. Walker**, J. B. Wilson, S. M. Redmann, Jr., R. T. Tulley, G. R. Eckardt, G. S. Plastow, and M. Lefevre (1998) ELISA detection of restriction site polymorphisms in the pig ryanodine receptor locus. *Mammalian Genome* **9**: 629-632.
8. Truett, G. E., **J. A. Walker**, and D. G. Baker (2000) Eradication of infection with *Helicobacter* spp. by use of neonatal transfer. *Comparative Medicine* **50**: 444-451.
9. Truett, G. E., P. Heeger, R. L. Mynatt, A. A. Truett, **J. A. Walker**, and M. L. Warman (2000) Preparation of PCR-quality mouse genomic DNA with hot sodium hydroxide and tris (HotSHOT). *Biotechniques* **29**: 52-54.
10. Truett, G. E., **J. A. Walker**, and R. B. S. Harris (2000) A developmental switch affecting growth of fatty rats. *American Journal of Physiology* [Regulatory Integrative Comp. Physiol.] **279**: R1956-R1963.
11. Hedges, D. J., **J. A. Walker**, P. A. Callinan, J. G. Shewale, S. K. Sinha and M. A. Batzer (2003) Mobile element-based assay for human gender determination. *Analytical Biochemistry* **312**: 77-79.
12. Watkins, W. S., A. R. Rogers, C. T. Ostler, M. J. Bamshad, A.-M. E. Brassington, M. L. Carroll, S. V. Nguyen, **J. A. Walker**, M. A. Batzer and L. B. Jorde (2003) Genetic variation among world populations using 100 Alu insertion polymorphisms. *Genome Research*. **13**: 1607-1618
13. **Walker, J. A.**, G. E. Kilroy, J. Xing, J. Shewale, S. Sinha, and M. A. Batzer (2003) Human DNA quantitation using Alu element based PCR. *Analytical Biochemistry* **315**: 122-128
14. **Walker, J. A.**, D. A. Hughes, B. A. Anders, J. Shewale, S. Sinha, and M. A. Batzer (2003) Quantitative intra-SINE PCR for species-specific DNA identification. *Analytical Biochemistry* **316**: 259-269
15. Vincent, B. J. , J. S. Myers, H. J. Ho, G. E. Kilroy, **J. A. Walker**, W. S. Watkins, L. B. Jorde and M. A. Batzer (2003) Following the LINEs: an Analysis of Primate Genomic Variation at Human-specific LINE-1 insertion sites. *Molecular Biology and Evolution* **20**: 1338-1348
16. Callinan, P. A.* , D. J. Hedges*, A.-H. Salem, J. Xing, **J. A. Walker**, R. K. Garber, W. S. Watkins, M. J. Bamshad, L. B. Jorde and M. A. Batzer (2003) Comprehensive analysis of Alu associated diversity on the human sex chromosomes. *Gene* **317**: 103-110
17. **Walker, J. A.**, R. K. Garber, G. E. Kilroy, D. Hedges, J. Xing and M. A. Batzer (2004) Resolution of mixed human DNA samples using mtDNA sequence variants. *Analytical Biochemistry* **325**: 171-173
18. **Walker, J. A.**, D. A. Hughes, D. J. Hedges, B. A. Anders, M. E. Laborde, J. G. Shewale, S. K. Sinha and M. A. Batzer (2004) Quantitative PCR for DNA identification based on genome specific interspersed repetitive elements. *Genomics* **83**: 518-527
19. Carter, A. B. *, A.-H. Salem,* , D. J. Hedges, C. Nguyen Keegan, B. Kimball , **J. A. Walker** , W. S. Watkins, L. B. Jorde and M. A. Batzer (2004) Genome wide analysis of the human Alu Yb lineage. *Human Genomics* **1**:167-178
20. Otieno, A. C.* , A. B. Carter * , D. J. Hedges, **J. A. Walker**, D. A. Ray, R. K. Garber, B. A. Anders, N. Stoilova, M. E. Laborde, J. D. Fowlkes, C. H. Huang, B. Perodeau and M. A. Batzer (2004) Analysis of the human Alu Ya-lineage. *Journal of Molecular Biology* **342**:109-118
21. **Walker, J. A.**, D. J. Hedges, B. P. Perodeau, K. E. Landry, N. Stoilova, M. E. Laborde, J. Shewale, S. K. Sinha and M. A. Batzer (2005) Multiplex PCR for simultaneous quantitation of human nuclear, mitochondrial, and male Y-chromosome DNA: Application in human identification. *Analytical Biochemistry* **337**:89-97
22. Ray, D. A., **J. A. Walker**, A. Hall, B. Llewellyn, J. Ballantyne, A. T. Christian, K. Turteltaub and M. A. Batzer (2005) Inference of human geographic origins using Alu insertion polymorphisms. *Forensic Science International* **153**:117-124
23. Wang, H.* , J. Xing* , D. Grover* , D. J. Hedges, K. Han, **J. A. Walker** and M. A. Batzer (2005) SVA elements: a hominid specific retroposon family. *Journal of Molecular Biology* **354**:994-1007
24. Ray D. A.* , **J. A. Walker*** and M. A. Batzer (2007) Mobile element based forensic genomics. *Mutation Research* **616**:24-33.
25. Shewale, J. G., E. Schneida, J. Wilson, **J. A. Walker**, M. A. Batzer and S. K. Sinha (2007) Human genomic DNA quantitation system, H-Quant: Development and validation for use in forensic casework. *Journal of Forensic Sciences* **52**:364-370.
26. Mikkelsen T. S., B. Aken, C. T. Amemiya, J. L. Chang, S. Duke, M. Garber, A. J. Gentles, L. Goodstadt, A. Heger, J. Jurka, M. Kamal, E. Mauceli, S. M. J. Searle, T. Sharpe, M. L. Baker, M. A. Batzer, P. V. Benos, K. Belov, M. Clamp, A. Cook, J. Cuff, R. Das, J. E. Deakin, M. Grabherr, J. M. Greally, W. Gu,

- R. L. Jirtle, S. Mahony, M. A. Marra, R. D. Miller, R. D. Nicholls, A. T. Papenfuss, Z. E. Parra, D. D. Pollock, D. A. Ray, J. E. Schein, T. P. Speed, J. L. VandeBerg, M. J. Wakefield, C. M. Wade, **J. A. Walker**, C. Webber, J. R. Weidman, X. Xie, M. C. Zody, Broad Institute Genome Sequencing Platform, Broad Institute Whole Genome Assembly Team, J. A. Marshall Graves, C. P. Ponting, M. Breen, P. B. Samollow, E. S. Lander and K. Lindblad-Toh (2007) Genome of the marsupial *Monodelphis domestica* reveals innovation in non-coding sequences. *Nature* **447**: 167-178 [cover article].
27. Gu, W. *, D. A. Ray*, **J. A. Walker**, E. Barnes, A. J. Gentles, P. B. Samollow, J. Jurka, M. A. Batzer† and D. D. Pollock‡ (2007) SINEs, evolution and genomic structure in the opossum. *Gene* **396**: 46-58.
28. Warren W. C., L. W. Hillier, J. A. Marshall Graves, E. Birney, C. P. Ponting, F. Grützner, K. Belov, W. Miller, L. Clarke, A. T. Chinwalla, S.-P. Yang, A. Heger, D. P. Locke, P. Miethke, P. D. Waters, F. Veyrunes, L. Fulton, B. Fulton, T. Graves, J. Wallis, X. S. Puente, C. López-Otín, G. R. Ordóñez, E. E. Eichler, L. Chen, Z. Cheng, J. E. Deakin, A. Alsop, K. Thompson, P. Kirby, A. T. Papenfuss, M. J. Wakefield, T. Olender, D. Lancet, G. A. Huttley, A. F. A. Smit, A. Pask, P. Temple-Smith, M. A. Batzer, **J. A. Walker**, M. K. Konkel, R. S. Harris, C. M. Whittington, E. S. W. Wong, N. J. Gemmell, E. Buschiazzi, I. M. Vargas Jentzsch, A. Merkel, J. Schmitz, A. Zemmann, G. Churakov, J. O. Kriegs, J. Brosius, E. P. Murchison, R. Sachidanandam, C. Smith, G. J. Hannon, E. Tsend-Ayush, D. McMillan, R. Attenborough, W. Rens, M. Ferguson-Smith, C. M. Lefèvre, J. A. Sharp, K. R. Nicholas, D. A. Ray, M. Kube, R. Reinhard, T. H. Pringle, J. Taylor, R. C. Jones, B. Nixon, J.-L. Dacheux, H. Niwa, Y. Sekita, X. Huang, A. Stark, P. Kheradpour, P. Flicek, Y. Chen, C. Webber, R. Hardison, J. Nelson, K. Hallsworth-Pepin, K. Delehaunty, C. Markovic, P. Minx, Y. Feng, C. Kremitzki, M. Mitreva, J. Glasscock, P. Wohldmann, P. Thiru, M. N. Nhan, C. S. Pohl, S. M. Smith, S. Hou, M. Nefedov, P. J. deJong, M. B. Renfree, E. R. Mardis and R. K. Wilson (2008) Genome analysis of the platypus reveals unique signatures of evolution. *Nature* **452**: 175-183 [cover article].
29. Ray, D. A., K. Han, **J. A. Walker** and M. A. Batzer (2010) Laboratory methods for the analysis of primate mobile elements. In "Methods in Molecular Biology - Genetic Variation Edition", M. R. Barnes and G. Breen (Eds.), Humana Press Inc., Totowa, NJ 628: 153-79 PMID: PMC2880178.
30. Warren, W. C., D. F. Clayton, H. Ellegren, A. P. Arnold, L. W. Hillier, A. Kunstner, S. Searle, S. White, A. J. Vilella, S. Fairley, A. Heger, L. Kong, C. P. Ponting, E. Jarvis, C. V. Mello, P. Minx, S.-P. Yang, P. Lovell, T. A. F. Velho, M. Ferris, C. N. Balakrishnan, S. Sinha, C. Blatti, S. E. London, Y. Li, Y.-C. Lin, J. George, J. Sweedler, B. Southey, P. Gunaratne, M. Watson, K. Nam, N. Backstrom, L. Smeds, B. Nabholz, Y. Itoh, J. Howard, A. R. Pfenning, O. Whitney, M. Völker, B. M. Skinner, D. K. Griffin, L. Ye, P. Flicek, V. Quesada, G. Velasco, C. Lopez-Otin, X. S. Puente, T. Olender, D. Lancet, A. F. A. Smit, R. Hubley, M. K. Konkel, **J. A. Walker**, M. A. Batzer, W. Gu, D. D. Pollock, L. Chen, Z. Cheng, E. E. Eichler, J. Stapley, J. Slate, R. Ekblom, T. Birkhead, T. Burke, D. Burt, C. Scharff, I. Adam, H. Richard, M. Sultan, A. Soldatov, H. Lehrach, S. Edwards, S.-P. Yang, T. Graves, L. Fulton, J. Nelson, A. Chinwalla, S. Hou, E. R. Mardis and R. K. Wilson (2010) The genome of a songbird. *Nature* **464**: 757-762.
31. Jazwinski, S. M., S. Kim, J. Dai1, L. Li, X. Bi, J. C. Jiang, J. Arnold, M. A. Batzer, **J. A. Walker**, D. A. Welsh, C. M. Lefante, J. Volaufova, L. Myers, L. J. Su, D. B. Hausman, M. V. Miceli, E. Ravussin, L. W. Poon, K. E. Cherry and M. A. Welsch for the Georgia Centenarian Study and the Louisiana Healthy Aging Study (2010) Interaction of three genes is associated with exceptional longevity and healthy ageing. *Aging Cell*. **9**: 698-708.
32. The 1000 Genomes Project Consortium (2010) A map of human genome variation from population scale sequencing. *Nature* **467**: 1061-1073 [cover article]
33. Konkel, M. K., **J. A. Walker** and M. A. Batzer (2010) LINEs and SINEs of primate evolution. *Evolutionary Anthropology*. **19** (6): 236-249.
34. Locke, D. P., L. W. Hillier, W. C. Warren, K. C. Worley, L. V. Nazareth, D. M. Muzny, S.-P. Yang, Z. Wang, A. T. Chinwalla, P. Minx, M. Mitreva, L. Cook, K. D. Delehaunty, C. Fronick, L. A. Fulton, R. S. Fulton, J. O. Nelson, V. Magrini, S. D. McGrath, C. Pohl, T. A. Graves, C. Markovic, A. Cree, H. H. Dinh, J. Hume, C. L. Kovar, G. R. Fowler, G. Lunter, S. Meader., A. Heger, C. P. Ponting, T. Marques-Bonet, C. Alkan, L. Chen, Z. Cheng, J. M. Kidd, E. E. Eichler, S. White, S. Searle, A. J. Vilella, P. Flicek, E. Birney, J. Ma, B. Raney, B. Suh, R. Burhans, J. Herrero, D. Haussler, R. Faria, O. Fernando, F. Darré, D. Farré, E. Gazave, M. Oliva, A. Navarro, R. Roberto, O. Capozzi, N. Archidiacono, G. D. Valle, S. Purgato, M. Rocchi, M. K. Konkel, **J. A. Walker**, B. Ullmer, M. A. Batzer, A. F. A. Smit, R. Hubley, C. Casola, D. R. Schrider, M. W. Hahn, V. Quesada, X. S. Puente, G. R. Ordoñez, C. López-Otín, T. Vinar,

- B. Brejova, A. Ratan, R. S. Harris, W. Miller, K. Prüfer, J. Kelso, B. Nickel, S. Pääbo, C. Kosiol, H. A. Lawson, V. Taliwal, A. L. Martins, A. Siepel, A. RoyChoudhury, X. Ma, J. Degenhardt, C. D. Bustamante, R. N. Gutenkunst, T. Mailund, J. Y. Dutheil, A. Hobolth, M. H. Schierup, L. Chemnick, O. A. Ryder, Y. Yoshinaga, P. J. de Jong, G. M. Weinstock, J. Rogers, E. R. Mardis, R. A. Gibbs and R. K. Wilson (2011) Comparative and demographic analysis of orangutan genomes. *Nature*. **469**: 529-533 [cover article]
35. Mills, R. E., K. Walter, D. A. Stewart, R. Handsaker, K. Chen, C. Alkan, A. Abyzov, S. C. Yoon, R. K. Cheetham, A. Chinwalla, D. F. Conrad, Y. Fu, F. Grubert., I. Hajirasouliha, F. Hormozdiari, Z. Iqbal, J. M. Kidd, M. K. Konkel, J. Korn, E. Khurana, D. Kura, H. J. K. Lam, J. Leng, R. Li, Y. Li, C.-Y. Lin, R. Luo, X. J. Mu, J. Nemes, H. E. Peckham, T. Rausch, A. Scally, X. Shi, M. P. Stromberg, A. M. Stutz, A. E. Urban, **J. A. Walker**, J. Wu, Y. Zhang, Z. Zhang, M. A. Batzer, L. Ding, G. T. Marth, G. McVean, J. Sebat, M. Snyder, J. Wang, K. Ye, K. Ye, E. E. Eichler, M. B. Gerstein, M. E. Hurles, C. Lee, S. A. McCarroll and J. O. Korbel on behalf of the 1000 Genomes Project (2011) Mapping structural variation at fine-scale by population-scale genome sequencing. *Nature*. **470**: 59-65.
36. Stewart, C.* , D. Kural*, M. P. Stromberg*, W.-P. Lee, **J. A. Walker**, M. K. Konkel, A. M. Stutz, A. E. Urban, F. Grubert, H. Y. K. Lam, C Huff, J. Xing, L. B. Jorde, M. A. Batzer, J. O. Korbel, G. T. Marth and the 1000 Genomes Project (2011) A comprehensive map of mobile element insertion polymorphisms in humans. *PLoS Genetics* **7**: e1002236. PMID: 21876680.
37. Cook, G. W., M. K. Konkel, J. D. Major III, **J. A. Walker**, K. Han and M. A. Batzer (2011) *Alu* pair exclusions in the human genome. *Mobile DNA* **2**: 10. PMID: 21943335.
38. **Walker, J. A.***, M. K. Konkel*, B. Ullmer, C. P. Monceaux, O. A. Ryder, R. Hubley, A. F. A. Smit and M. A. Batzer (2012) Orangutan *Alu* quiescence reveals possible source element: support for ancient backseat drivers. *Mobile DNA* **3**:8.
39. Carbone, L., R. A. Harris, A. R. Mootnick, A. Milosavljevic, D. I. K. Martin, M. Rocchi, O. Capozzi, N. Archidiacono, M. K. Konkel, **J. A. Walker**, M. A. Batzer and P. J. de Jong (2012) Centromere remodeling in *Hoolock leuconedys* (*Hylobatidae*) uncovers a new transposable element unique to the gibbons. *Genome Biology and Evolution* **4**: 648-658 [cover article].
40. The 1000 Genomes Project Consortium (2012) An integrated map of genetic variation from 1,092 human genomes. *Nature* **491**: 56-65 PMID: 23128226.
41. Cook, G. W., M. K. Konkel, **J. A. Walker**, M. G. Bourgeois, M. L. Fullerton, J. T. Fussell, H. D. Herbold and M. A. Batzer (2013) A comparison of 100 human genes using an *Alu* element-based instability model. *PLoS ONE* **8**: e65188.
42. Hormozdiari, F., M. K. Konkel, J. Prado-Martinez, G. Chiatante, I. H. Herraiez, **J. A. Walker**, B. Nelson, C. Alkan, P. H. Sudmant, J. Huddleston, C. R. Catacchio, A. Ko, M. Malig, C. Baker, the Great Ape Genome Project, T. Marques-Bonet, M. Ventura, M. A. Batzer and E. E. Eichler (2013) Rates and patterns of great ape retrotransposition. *Proceedings of the National Academy of Sciences, USA* **110**:13457-13462. PMID: 23884656.
43. Worley, K. C., et al. **The Marmoset Genome Sequencing and Analysis Consortium** (2014) The common marmoset genome provides insight into primate biology and evolution. *Nature Genetics* **46**: 850-857.
44. Carbone, L., R. A. Harris, S. Gnerre, K. R. Veeramah, B. Lorente-Galdos, J. Huddleston, T. J. Meyer, J. Herrero, C. Roos, B. Aken, F. Anaclerio, N. Archidiacono, C. Baker, D. Barrell, M. A. Batzer, K. Bea, A. Blancher, C. L. Bohrsen, M. Brameier, M. S. Campbell, O. Capozzi, C. Casola, G. Chiatante, A. Cree, A. Damert, P. J. de Jong, L. Dumas, M. Fernandez-Callejo, P. Flicek, N. V. Fuchs, M. Gut, I. Gut, M. W. Hahn, J. Hernández-Rodríguez, L. Hillier, R. Hubley, B. Ianc, Z. Izsvák, N. G. Jablonski, L. Johnstone, A. Karimpour-Fard, M. K. Konkel, D. Kostka, N. H. Lazar, S. L. Lee, L. R. Lewis, Y. Liu, D. P. Locke, S. Mallick, F. L. Mendez, M. Muffato, L. Nazareth, K. A. Nevonen, M. O'Bleness, T. K. O'Connor, C. Ochis, D. T. Odom, K. S. Pollard, J. Quilez, D. Reich, M. Rocchi, G. G. Schumann, S. Searle, J. M. Sikela, G. Skollar, A. Smit, K. Sonmez, B. T. Hallers, E. Terhune, G. W.C. Thomas, B. Ullmer, M. Ventura, **J. A. Walker**, J. D. Wall, L. Walter, M. C. Ward, S. Wheelan, C. Whelan, L. J. Wilhelm, S. White, A. E. Woerner, M. Yandell, B. Zhu, M. Hammer, T. Marques-Bonet, E. E. Eichler, L. Fulton, C. Fronick, D. M. Muzny, W. C. Warren, K. C. Worley, J. Rogers, R. K. Wilson & R. A. Gibbs (2014) Gibbon genome and the fast karyotype evolution of small apes. *Nature* **513**: 195-201 [cover article].

45. Wu, J., W.-P. Lee, A. Ward, E. Garrison, **J. A. Walker**, M. K. Konkel, M. A. Batzer and G. T. Marth (2014) Tangram: A comprehensive toolbox for mobile element insertion detection. *BMC Genomics*. **15**: 795.
46. Sudmant, P. H., T. Rausch, E. J. Gardner, R. E. Handsaker, A. Abyzov, J. Huddleston, Y. Zhang, K. Ye, G. Jun, M. H.-Y. Fritz, M. K. Konkel, A. Malhotra, A. M. Stütz, X. Shi, F. P. Casale, J. Chen, F. Hormozdiari, G. Dayama, K. Chen, M. Malig, M. J. P. Chaisson, K. Walter, S. Meiers, S. Kashin, E. Garrison, C. Alkan, D. Antaki, T. Bae, P. Chines, Z. Chong, L. Clarke, E. Dal, L. Ding, S. Emery, X. Fan, M. Gujral, F. Kahveci, J. M. Kidd, H. Y. K. Lam, S. McCarthy, P. Flicek, R. A. Gibbs, G. Marth, A. Menelaou, X. J. Mu, D. M. Muzny, B. Nelson, A. Noor, N. F. Parrish, A. Quitadamo, B. Raeder, E. Schadt, A. Schlattl, A. Shabalina, A. Untergasser, E.-W. Lameijer, **J. A. Walker**, M. Wang, F. Yu, C. Zhang, J. Zhang, X. Zheng-Bradley, W. Zhou, T. Zichner, J. Sebat, M. A. Batzer, S. A. McCarroll, The 1000 Genomes Project Consortium, R. E. Mills, M. B. Gerstein, A. Bashir, O. Stegle, S. E. Devine, C. Lee, E. E. Eichler and J. O. Korbel (2015) An integrated map of structural variation in 2,504 human genomes. *Nature* **526**: 75-81 [Cover Article].
47. **The 1000 Genomes Project Consortium** (2015) A global reference for human genetic variation. *Nature* **526**: 68-74 [Cover Article].
48. Konkel, M. K.¹, **J. A. Walker**¹, A. B. Hotard, M. C. Ranck, C. C. Fontenot, J. Storer, C. Stewart, G. T. Marth, the 1000 Genomes Consortium and M. A. Batzer (2015) Sequence analysis and characterization of active human *Alu* subfamilies based on the 1000 Genomes pilot project. *Genome Biology and Evolution* **7**: 2608.
¹ These authors contributed equally to this work.
49. **Walker, J. A.**, V. E. Jordan, C. J. Steely, T. O. Beckstrom, C. L. McDaniel, C. P. St. Romain, E. C. Bennett, A. Robichaux, B. N. Clement, M. K. Konkel, The Baboon Genome Analysis Consortium, M. A. Batzer. (2017) *Papio* baboon species indicative *Alu* elements. *Genome Biology and Evolution* **9** (6): 1788-1796. PMID: 28854642
50. Baker, J. B., **J. A. Walker**, J. A. Vanchiere, K. R. Phillippe, C. P. St. Romain, P. Gonzalez-Quiroga, M. W. Denham, J. R. Mierl, M. K. Konkel, and M. A. Batzer (2017) Evolution of *Alu* subfamily structure in the *Saimiri* lineage of New World Monkeys. *Genome Biology and Evolution* **9** (9): 2365-2376. PMID: 28957461
51. Steely, C. J., **J. A. Walker**, V. E. Jordan, T. O. Beckstrom, C. L. McDaniel, C. P. St. Romain, E. C. Bennett, A. Robichaux, B. N. Clement, M. Raveendran, The Baboon Genome Analysis Consortium, K. C. Worley, J. Phillips-Conroy, C. J. Jolly, J. Rogers, M. K. Konkel, and M. A. Batzer. (2017) *Alu* insertion polymorphisms as evidence for population structure in baboons. *Genome Biology and Evolution* **9** (9): 2418-2427. PMID: 28957465
52. Baker, J. N.⁺, **J. A. Walker**⁺, M. W. Denham, C. D. Loupe III, and M. A. Batzer. (2018) Recently integrated *Alu* insertions in the squirrel monkey (*Saimiri*) lineage and application for population analyses. *Mobile DNA*. **9** (9): PMID: 29449901
⁺ These authors contributed equally to this work.
53. Steely^{*}, C. J., J. N. Baker^{*}, **J. A. Walker**, C. D. Loupe III, The Baboon Genome Analysis Consortium, and M. A. Batzer. (2018). Analysis of lineage-specific *Alu* subfamilies in the genome of the olive baboon, *Papio anubis*. *Mobile DNA*. **9** (10): PMID: 29560044
^{*}These authors contributed equally to this work.
54. Jordan, V. E., **J. A. Walker**, T. O. Beckstrom, C. J. Steely, C. L. McDaniel, C. P. St. Romain, K. C. Worley, The Baboon Genome Analysis Consortium, J. Phillips-Conroy, C. J. Jolly, J. Rogers, M. K. Konkel, and M. A. Batzer. (2018). A computational reconstruction of *Papio* phylogeny using *Alu* insertion polymorphisms. *Mobile DNA*. **9** (13): PMID: 29632618
55. Rogers, J., The Baboon Genome Analysis Consortium (2019) The comparative genomics and complex population history of *Papio baboons*. *Sci. Adv.* **5**, eaau6947. PMID: 30854422
56. Storer, J. M., J. R. Mierl, S. A. Brantley, B. Threton, Y. Sukharutski, L. C. Rewerts, C. P. St. Romain, M. M. Foreman, J. N. Baker, **J. A. Walker**, J. D. Orkin, A. D. Melin, K. A. Phillips, M. K. Konkel, and M. A. Batzer. (2019). Amplification Dynamics of Platy-1 retrotransposons in the Cebidae Platyrrhine lineage. *Genome Biology and Evolution*. **11**:1105-1116. PMID: 30888417
57. **Walker**^{*}, **J. A.**, V. E. Jordan⁺, J. M. Storer, C. J. Steely, P. Gonzalez-Quiroga, T. O. Beckstrom, L. C. Rewerts, C. P. St. Romain, C. E. Rockwell, J. Rogers, C. J. Jolly, M. K. Konkel, The Baboon Genome Analysis Consortium and M. A. Batzer. (2019). *Alu* insertion polymorphisms shared by *Papio* baboons

and *Theropithecus gelada* reveal an intertwined common ancestry. *Mobile DNA*. **10** (46): PMID: 31788036

+ These authors contributed equally to this work.

58. Storer, J. M., **J. A. Walker**, V. E. Jordan and M. A. Batzer (2020). Sensitivity of the polyDetect computational pipeline for phylogenetic analyses. *Analytical Biochemistry*. PMID: 31794702
59. Warren, W. C., et al. **Genome Sequencing and Analysis Consortium** (2020) Sequence diversity analyses of an improved rhesus macaque genome enhances its biomedical utility. *Science*. 370(6523):eabc6617 PMID: 33335035
60. **The bonobo genome sequencing and analysis consortium** (2021) A high-quality bonobo genome refines the analysis of hominid evolution. *Nature*. Published online May 5, 2021 PMID:

Patents

Patents in the United States Patent and Trademark Office:

- 1) Title: MULTIPLEX PCR FOR SIMULTANEOUS QUANTITATION OF HUMAN NUCLEAR, MITOCHONDRIAL, AND MALE Y-CHROMOSOME DNA
Authors: **Jerilyn A. Walker**, Dale J. Hedges, Jaiprakash G. Shewale, Sudhir K. Sinha and Mark A. Batzer
Patent Number: 7,405,044 Issued July 29, 2008. Licensed to Life Genetics Lab, LLC.
- 2) Title: ASSAY FOR QUANTITATION OF HUMAN DNA USING *Alu* ELEMENTS
Authors: Sudhir K. Sinha, Mark A. Batzer, **Jerilyn A. Walker**
Patent Number: 7,537,889 b2 Issued May 26, 2009. Licensed to Life Genetics Lab, LLC.
- 3) Title: ASSAY FOR SPECIES SOURCES
Authors: Sudhir K. Sinha, Jaiprakash G. Shewale, Mark A. Batzer, **Jerilyn A. Walker**
Patent Number: 7,582,452 Issued September 1, 2009. Licensed to Life Genetics Lab, LLC.
- 4) Title: ASSAY FOR SPECIES SOURCES (part II)
Authors: Sudhir K. Sinha, Jaiprakash G. Shewale, Mark A. Batzer, **Jerilyn A. Walker**
Patent Number: 7,927,841 Issued April 19, 2011. Licensed to Life Genetics Lab, LLC.