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## PUBLICATIONS

### Peer-reviewed Journal Publications

1. Sudo H.; Li-Sucholeiki X.-C.; Marcelino L.A.; Gruhl A.N.; Herrero-Jimenez P.; Thilly W.G., et al., Fetal-juvenile origins of point mutations in the adult human tracheal bronchial epithelium: absence of detectable effects of age, gender or smoking status. *Mutation Res.*, 2008; 646:25-40
2. Marcelino L.A., Siple M., Daly E., Fang A., Fung J., Stoyneva V., Henss J., Westneat M., Turzhitsky V., Rogers J., and Backman V. Light scattering in coral skeleton - evolutionary trends in coral bleaching and in light amplification, submitted to PNAS.
3. Stoyneva V., Rogers J., Radosevich A., Pickard K., Backman V., and Marcelino L.A., Mechanisms of multiple-scattering by reef-building coral skeletons and its enhancement of light absorption by symbiotic algae, submitted to *Marine Ecology Progress Series*.
4. Swain T., Henss J., Siple M., Westneat M., Backman V., Marcelino L.A., Global patterns of coral bleaching – Construction and analysis of a bleaching and mortality dataset, submitted to *Coral Reefs*.
5. Marcelino L.A., Backman V., Donaldson A., Steadman C., Thompson J, Pacocha S., Lien C., Veneziano D., Lim E., and Polz M.F., Accurate identification of low abundant targets in pools of similar sequences by revealing hidden correlations in oligonucleotide microarray data, *Proc Natl Acad Sci U S A*. 2006; 103(37):13629-34.
6. Sudo H., Li-Sucholeiki X.-C., Marcelino L.A., Thilly W.G., *et al.*, Mutation of nuclear genes in the branchial epithelium of smokers and non-smokers, *Mutation Res*, 2006; 596(1-2):113-1127.
7. Thompson J.R., Randa M.A., L.A Marcelino, Tomita-Mitchell A., Lim E., Polz M.F., Diversity and dynamics of a North Atlantic coastal *Vibrio* community, *Applied and Environmental Microbiology* 2004; 70(7):4103-10.
8. Acinas S.G., Marcelino L.A., Klepac-Ceraj V., Polz M.F., Divergence and redundancy of 16s rRNA sequences in genomes with multiple *rrn* operons *J. Bacteriology*, 2004; 186 (9): 2629-2635.
9. Thompson JR, Marcelino L.A., Polz MF. Heteroduplexes in mixed-template amplifications: formation, consequence and elimination by 'reconditioning PCR'. *Nucleic Acids Res.* 2002; 30(9):2083-8.

10. Tomita-Mitchell A., Kat A.G., Marcelino L.A., Li-Sucholeiki X.-C., Griffith J., and Thilly W.G., Mismatch repair deficient human cells: spontaneous and MMNG-induced mutational spectra in the HPRT gene, *Mutation Res*, 2000; 450:125-38.
11. Monteiro C, Marcelino LA, Armour JA *et al.*, Molecular methods for the detection of mutations. *Teratog Carcinog Mutagen*, 2000; 20(6): 357-86.
12. Marcelino L.A., Galvin M., Mayrand E., Proenca M.J., Martins G., Rueff J., and Monteiro C., Fast and reliable method for the routine detection of mutations in human tumors: Multiple fluorescence-based long linker arm nucleotides assay (mf- LLA), *BioTechniques*, 1999; 26, 1134-1148.
13. Marcelino L.A., and Thilly W.G., Mitochondrial mutagenesis in Human cells and tissues, *Mutat Res*, 1999; 434,177- 203.
14. Li-Sucholeiki X.-C., Khrapko K., Andre P.C., Marcelino L.A., Karger B.L., and Thilly W.G., Applications of constant denaturant capillary electrophoresis/high fidelity polymerase chain reaction to human genetic analysis, *Electrophoresis*, 1999; 20, 1224-1232.
15. Marcelino L.A., Andre P., Krapko K., Collier H.A, Griffith J. and Thilly W.G., Chemically induced mutations in mitochondrial DNA of human cells: mutational spectrum of N-methyl-N'-nitro-N-nitrosoguanidine, *Cancer Res*, 1998; 58, 2857-2862.
16. Glaser P, Kunst F, Arnaud M, Coudart MP, Gonzales W, Hullo MF, Ionescu M, Lubochinsky B, Marcelino L, Moszer I, *et al.*, *Bacillus subtilis* genome project: cloning and sequencing of the 97 kb region from 325 degrees to 333 degrees, *Mol. Microbiol*, 1993; 10 (2): 371-84.

### **Book Chapters**

17. Thompson J.R., Marcelino L.A., Polz M.F., Diversity, sources and detection of human bacterial pathogens in the environment. *Oceans and Health: Pathogens in the marine environment* (eds. Shimshon S. and Colwell R.). 29- 68 (Springer New York, 2005).
18. Weiming Z, Marcelino L.A. and Thilly W.G., Scanning low frequency point mutants in the mitochondrial genome using constant denaturant capillary electrophoresis, *Methods in Molecular Biology*, vol 197: Mitochondrial DNA; Methods and Protocols (ed. Copeland W.C.). 93-106 (Humana Press Inc, Totowa NJ, 2002).
19. Marcelino L.A., and Monteiro C.J., Update to: Multiple fluorescence-based long linker arm nucleotides assay (mf- LLA): a fast and reliable method for the routine detection of mutations in human tumors, polymorphisms- detection and analysis. *BioTechniques series*, (eds. Burczak JD and Mardis E). 378-383 (Eaton Publishing/ Natick, 2000).

### **Abstracts and Conference Proceedings**

20. Marcelino LA, Henss J, Turzhitsky V, Fang A, Fung J, Siple M, Wolfman H, Marks KW, Stoyneva V, Westneat M, Rogers J and Backman V "The role of coral skeleton in enhancing light absorption by symbiont algae—implications for coral bleaching." *American Society of Microbiology 110<sup>th</sup> General Meeting*, San Diego, CA, USA, May 23-27, 2010.

21. Turzhitsky, V.; Fang, A.; Fung, J.; Henss, J.; Siple, M.; Stoyneva, V.; Rogers, J. D; Wolfman, H.; Radosevich, A.; Backman, V.; Marcelino, L. A. "Optical characterization of coral skeleton with low-coherence enhanced backscattering spectroscopy." *Optical Society of America: Biomedical Optics*, Miami, FL, USA, April 11-14, 2010.
22. A. Fang, J. Fung, E. Daly, J. Henss, M. Siple, V. Stoyneva, V. Turzhitsky, J. Rogers, M. Westneat, V. Backman, L. Marcelino (November, 2008), Characterization of optical properties of reef-building corals and its implications on bleaching susceptibility, 19<sup>th</sup>. Annual Argonne Symposium for Undergraduates in Science, Engineering and Mathematics, Argonne, IL
23. Backman V., Siple M., Daly E., Fang A., Fung J., Stoyneva V., Henss J., Westneat M., Turzhitsky V., Rogers J., Marcelino L.A. (July 2008) Novel Optical Technique for characterization of light absorption and distribution in reef-building corals, 11<sup>th</sup> International Coral Reef Symposium. Fort-Lauderdale, Florida
24. Backman V., Siple M., Daly E., Fang A., Fung J., Stoyneva V., Henss J., Westneat M., Turzhitsky V., Rogers J., Marcelino L.A. (July 2008) Characterization of optical properties of reef-building coral skeletons, 11<sup>th</sup> International Coral Reef Symposium. Fort-Lauderdale, Florida
25. Thompson J.R., Acinas S.G., Klepac-Ceraj V., Pacocha S., Pharino C., Hunt D.E., Marcelino L.A., Benoit J., Rupavtarm-Sarma R., Distel D.L., and Polz M.P. (February 2005) Environmental bacterial diversity from communities to genomes, Genomes to Life, Department of Energy. Washington DC
26. Marcelino L.A., Lien C., Pacocha S., Bouzo B. Polz M.F., (May 2004), A DNA microarray approach to identifying specific bacterial strains, based on microarray fingerprinting, American Society of Microbiology. Washington Convention Center, Washington DC.
27. Sudo H., Li-Sucholeiki X.-C., Marcelino L.A., Gruhl A., Zarbl H., Willey J.C. and Thilly W.G., (July 2004) The effect of cigarette smoking on point mutations in human lung epithelium. The Nineteenth Aspen Cancer Conference: Mechanisms of toxicity, carcinogenesis, cancer prevention and cancer therapy 2004, Aspen CO.
28. Marcelino L.A., Lien C., Polz M.F., (May 2003) Optimization and evaluation of direct and indirect incorporation of fluorescent dyes into ribosomal RNA for microarray analysis of naturally occurring bacteria. American Society of Microbiology. Washington Convention Center, Washington DC.
29. Khrapko, K, Coller, H.A, Hanekamp, J.S., Marcelino L. A., and Thilly, W.G.(1998) capillary hybridization for identification of mutations. Bioengineering: building the future of biology and medicine. National Institute of Health. Bethesda, Maryland.
30. Marcelino, L.A., and Thilly (1997) Mutational spectrum of N-methyl-N'-nitro-N-nitrosoguanidine (MNNG) in human cell mitochondrial DNA. Gordon Research Conferences, New London, New Hampshire.
31. Marcelino L.A., M. Galvin, E. Mayrand, and C. Monteiro (1995) Multiple Color Fluorescence Based Long Linker Arm (LLA) Analysis: A rapid method for the detection of point mutations.

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32. Moreira, A , da Costa, J. D., Santos, R.N., Monteiro, M.J., Matias, D., Marcelino, L.A., Martins, G., Almeida, M.R., Rueff, J.A., and Monteiro, C.(1995). Loss of heterozygosity in the MCC Gene in Human lung squamous cell carcinoma using microsatellites and fluorescence-based semi-automated genotyping, *Medizinische Genetik*, 2: 138: abs.
33. Moreira A, da Costa J. D., Santos R.N., Marcelino L. A., Martins G, Almeida M.R, Matias D, Rueff, J.A., Monteiro C. (1994). Loss of heterosigosity in the MCC locus in human squamous lung cancer using (CA)<sub>n</sub> and fluorescent DNA technology. *Annals of Oncology*, 5:8 :abs.
34. Albergaria I, Martins G, Marcelino L.A., Rueff, J., Monteiro C.J. (1993). The Use Of Glycerol in G/C-rich DNA amplification - *g6dp* gene as an example, *American Journal of Human Genetics* 1993: 53 (3): 1605: Suppl.
35. Monteiro C.J., Santos, R.N., Martins, G., Marcelino, L.A., Almeida, M.R., Martins, A.P., Ramos, S., Rueff, J., Melo, J. (1993). Di-nucleotide individual profiles as a tool to identify the origin of homograph cells (in non- and immunosupressed patients), *American Journal of Human Genetics* :53:1742: Suppl.
36. Monteiro, C.J., Albergaria, I., Almeida, M.R.,. Martins, G, Marcelino, L.A., Rueff, J. (1993). The use of glycerol in G/C-rich DNA amplification: *g6dp* gene as an example, *American Journal of Human Genetics*, 53: 1605: abs.