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**Undergraduate Bioinformatics Student Co-Authors Oxford University Press  
Research Manuscript with Professors**

(MAHWAH, NJ) – Junior Camille Menendez '13, of Hasbrouck Heights, New Jersey, a Bioinformatics major, co-authored a research manuscript with Associate Professor of Computer Science Scott Frees and Professor of Biology Paramjeet Bagga titled "QGRS-H Predictor: A Web Server for Predicting Homologous Quadruplex Forming G-Rich Sequence motifs in Nucleotide Sequences" for the prestigious international peer reviewed journal, *Nucleic Acids Research*, published by Oxford University Press.

*Nucleic Acids Research* publishes leading edge research concerning physical, chemical, biochemical and biological aspects of nucleic acids and proteins in nucleic acid metabolism and/or interactions. The journal publishes papers concerning in the following fields: Chemistry and synthetic biology; Computational biology; Gene regulation, chromatin and epigenetics; Genome integrity, repair and replication; Genomics; Molecular biology; Nucleic acid enzymes; RNA and Structural biology.

The manuscript discusses the significance of G-quadruplex structures in important biological processes, human disease, and as therapeutic targets. It describes the development, at Ramapo College, of a new bioinformatics computer program, the QGRS-H Predictor, that maps and analyzes evolutionarily conserved G-quadruplex gene regulatory motifs in mRNAs, ncRNAs, and genomic sequences. The manuscript's abstract cites the tool as "a unique and user-friendly application that provides many options for defining and studying G-quadruplexes." The research manuscript was first published online on May 10, 2012.

The article can be freely accessed at:

<http://nar.oxfordjournals.org/cgi/content/abstract/gks422v1?ct=ct>.

For a photo, please click on this link:

<http://www.ramapo.edu/news/pressreleases/2012/images/Bioinformatic-1.tif>

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Ranked by *U.S. News & World Report* as fifth in the Best Regional Universities North category for public institutions, Ramapo College of New Jersey is sometimes mistaken for a private college. This is, in part, due to its unique interdisciplinary academic structure, its size of approximately 6,008 students and its pastoral setting in the foothills of the Ramapo Mountains on the New Jersey/New York border.

Established in 1969, Ramapo College offers bachelor's degrees in the arts, business, humanities, social sciences and the sciences, as well as in professional studies, which

include nursing and social work. In addition, Ramapo College offers courses leading to teacher certification at the elementary and secondary levels. The College also offers five graduate programs as well as articulated programs with the University of Medicine and Dentistry of New Jersey, New York Chiropractic College, New York University College of Dentistry, SUNY State College of Optometry and New York College of Podiatric Medicine.