

Thursday August 30, 11:10 – 12:10
(Demetra, Amathus Beach Hotel)

“Computational Statistics in Support of
Translational Research”

by

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Abstract

New biomedical discoveries require the collaboration of biostatisticians and informaticists with multi-disciplinary investigators in conducting translational research. Multi-disciplinary collaborations lead not only to creating new knowledge that has biomedical, clinical and public health importance, but also to developing new biostatistical methodology. Examples that will be presented include: 1) translational research in cardiovascular disease leading to drug development; 2) population based studies in cardiovascular disease leading to the development of improved screening strategies; 3) population-based studies in ocular disease in multi-ethnic cohorts and its impact on public health; and 4) health promotion and its improvement on quality of life in the aging population. The presentation also includes a discussion of 1) the challenges associated with training the next generation of statisticians in translational research; 2) developing quality clinical databases using informatics technology; and 3) examples of data mining databases which provide opportunities for junior faculty, post-doctoral fellows and graduate students to identify interesting findings leading to new screening tools, and identification of treatment-induced biological markers impacting clinical outcomes. Robust procedures for optimizing outcomes will also be discussed.

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