SoFlacs

Vol. 27, No. 2 South Florida Section ACS – 25th Anniversary February 2017

Section Meeting

Understanding Chemistry of Neurological Disorders

Dr. Rajeev Prabhakar

Department of Chemistry, University of Miami

5:30 PM, Friday, February 3
Florida Gulf Coast University
Seidler Hall room 115
10501 FGCU Blvd. S, Fort Myers
Refreshments at 6:30 p.m. Holmes Hall, room 406

Aggregation is a basic property of polypeptide chains and currently more than 20 proteins are known to form amyloid-like fibrils. This process is associated with several life threatening neurological disorders such as Alzheimer's disease (AD), Parkinson's disease, Huntington's disease, mad cow disease and type II diabetes. For instance, the aggregation of 40-42 amino acid residues containing amyloid beta (Aβ) peptides has been implicated as a root cause of AD. As the human population continues to age and the numbers affected by AD soar, the need for therapies that alter the disease progression becomes even more urgent. The current potential therapeutic strategies for AD include the *inhibition of Aβ production, stimulation of Aβ degradation* and *prevention of Aβ aggregation.* We have employed a plethora of computational techniques to investigate these processes. The results obtained from our studies will provide an atomic level understanding of the chemical processes occurring in AD and their outcomes will advance scientific efforts to develop effective therapeutic strategies for the treatment of this disease.

Chemical Sciences Symposium

Sunday, February 26, 2:00 to 6:30 PM

Terry/Assembly Building, Room 2100
(Steele Auditorium)
Nova Southeastern University
3200 South University Drive, Ft. Lauderdale

Theme: Protein Structure Function: From Molecular Simulations to Drug Discovery

Program details at: www.soflacs.org

Call for Abstracts

Cash prizes for best student presentations
High school, undergraduate and graduate students are encouraged to present posters on their research.
(does not have to be related to the symposium theme)

Abstract Instructions:

1. Word Count Limit: 350
2. Format: Microsoft Word, Times New Roman, font size 12
3. Submission deadline: Monday, February 20
4. Poster standard size 36" x 48"
5. Mode of Submission: email attachment to venk@nova.edu
6. For questions please contact: Dr. K.V. Venkatachalam (Dr. Venk) 954-262-1802, venk@nova.edu

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AMERICAN CHEMICAL SOCIETY
South Florida Section
Department of Chemistry
Barry University
11300 NE 2nd Ave.
Miami Shores, FL 33161