

## ***DiaComp Pilot & Feasibility Program - 2014***

There is strong evidence that diabetic complications are linked via dysregulation of common pathways. The Diabetic Complications Consortium (DiaComp) promotes communication and collaboration between research communities investigating similar pathologic mechanisms in different organs by organizing and annual scientific meeting and funding new basic and translational research activities.

The DiaComp P&F program solicits proposals that advance the mission of DiaComp and welcomes applications that are either general in nature or that target specific areas of interest.

**Applicant: CHAUDHURY, ARUN**

**Project Title: Defects in transcytosis may cause multiorgan diabetic complications**

### **INDIVIDUAL CRITERIA SCORES**

*Please provide individual scores for the following 5 review criteria. Scores should range from 1-9 with 1 being outstanding.*

- 1) Significance     **5**
- 2) Investigator(s) **3**
- 3) Innovation       **5**
- 4) Approach         **4**
- 5) Environment     **2**

**WRITTEN COMMENTS** - *please address the following points:*

- Does the proposal have high scientific merit
- Will the proposal further the mission of the DiaComp
- Will the proposal significantly advance/impact the field in the complication(s) being addressed

*This is a very interesting proposal focused on the potential role of myosin Va protein in facilitating nitrergic transmission in the enteric nervous system, insulin exocytosis in pancreatic  $\beta$  cells and glucose uptake in skeletal muscle.*

*A number of microscopic and imaging approaches will be utilized.*

*The one weakness is the absence of immediately planned experiments to test for the functional significance of the absence or decreased expression of myosin Va. The very last sentence only hints that these experiments will be done. A better integration of these experiments is appropriate.*

### **OVERALL IMPACT SCORE**

*Please provide an overall 'impact' score for the proposal (1-9). Feel free to weight the 5 individual scores as you see fit. It does NOT have to be the average of the 5 scores.*

**OVERALL IMPACT SCORE 4**