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Prof. S. Murty Srinivasula
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September 29, 2021

To
Sun Pharma Science Foundation
OFFICE OF SUN PHARMA SCIENCE FOUNDATION
8C, 8th Floor, Hansalaya Building, 15-Barakhamba Road,
Connaught Place, New Delhi

Sub: Citation (Brief Summary) for Mr. Rahul Sharma for Science Scholar Award

To Whom It May Concern:

Organelle's architectural homeostasis is crucial for cellular functions and cell survival. The organelle, Golgi is very dynamic and performs diverse functions. In vertebrates, Golgi exist normally as a perinuclear ribbon and its dispersal involves reversible cisternae unstacking, lateral unlinking or vesiculation. Different Golgi morphologies are reported in several physiological processes like inflammation, cell division, cell migration and pathological processes like neurodegeneration and cancer. Our group has recently discovered that a novel ubiquitin ligase, CARP2, regulates the Golgi structure and its expression in mammalian cells result in the fragmentation of the Golgi, by down regulating the Golgi structural proteins. Interestingly, chemotherapy resistant tumours associated with high levels of CARP2 and have fragmented Golgi. We are attempting to delineate the molecule(s)/mechanism(s) underlying the development of drug resistance in cancer, so that better therapeutic strategies can be developed.

Sincerely,

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Professor
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