

- f. **Signed** statement from the applicant to the effect that the research work under reference has not been given any award in the past. The applicant should also indicate the extent of the contribution of others associated with the research and he/she should clearly identify his/her achievements (not to exceed 500 words)

Myself, Prof. Satinath Mukhopadhyay, hereby declare that the research works under reference has not been given any award in the past.

Following is a statement on the extent of contribution of others associated with the research and also my own achievements:

AUTHOR CONTRIBUTIONS

Biochem J paper, 2010. NF- κ B mediates lipid-induced fetuin-A expression in hepatocytes that impairs adipocyte function effecting insulin resistance Suman Dasgupta and Sushmita Bhattacharya designed and conducted experiments, and co-wrote the paper. Anindita Biswas conducted the experiments on HFD-fed rats, Subeer Majumdar conducted experiments on db/db mice and co-wrote the paper. **Satinath Mukhopadhyay evaluated results and co-wrote the paper.** Sukanta Ray performed human adipocyte experiments. Samir Bhattacharya designed experiments, supervised the study, evaluated the results, and co-wrote the paper

Nature Medicinæ paper, 2012. Fetuin-A acts as an endogenous ligand of TLR4 to promote lipid-induced insulin resistance. Durba Pal. and Suman Dasgupta designed and performed all the experiments, analyzed the data and wrote the manuscript; Rakesh Kundu generated VMO-based *FetA* and *Tlr4* knockdown mice; Gobardhan Das performed lipid infusion study in WT and *FetAKD* mice; **Satinath Mukhopadhyay** Sukanta Roy provided nondiabetic and diabetic human blood and fat tissue; Subeer S.Majumder provided blood and tissue samples from WT and *db/db* mice; Sudipta Maitra, Gobardhan Das and **Satinath Mukhopadhyay** wrote the manuscript; Samir Bhattacharya designed and supervised this study, analyzed the data and wrote the manuscript.

JBC paper, 2013. All authors have equal contributions.

BBA- molecular basis of disease paper, 2016. All authors have equal contributions

Diabetologia paper, 2016. Both Samir Bhattacharya and **Satinath Mukhopadhyay** contributed equally, the latter was the corresponding author.

PLOS ONE paper, 2017. Conceptualization: Samir Bhattacharya MKC.

Data curation: S. Mukherjee MC Sushmita Bhattacharya PC TKM Samir Bhattacharya MKC.

Formal analysis: S. Mukherjee MC Sushmita Bhattacharya PC TKM DT **Satinath Mukhopadhyay** Samir Bhattacharya. MKC. Funding acquisition: MKC SSM Samir Bhattacharya.

Investigation: Samir Bhattacharya MKC SSM S. Mukherjee MC Sushmita Bhattacharya.

Methodology: S. Mukherjee MC Sushmita Bhattacharya PC SD TKM SH SKB DT AU BSP Samir Bhattacharya MKC SSM.

BBRC paper, 2017. A.M. and C.F. performed and designed all the experiments,

analyzed the data and wrote the manuscript. Sandip Mukherjee and C.M. analysed the data. **Satinath Mukhopadhyay**, S.B. and R.K. conceived and designed the experiments, supervised this study, analysed data and wrote the manuscript.

BBRC 2018 paper. Attenuation of macrophage accumulation and polarisation in obese diabetic mice by a small molecule significantly improved insulin sensitivity. **All authors contributed equally.**

Cellular Signaling, 2018 paper. Impairment of energy sensors, SIRT1 and AMPK, in lipid induced inflamed adipocyte is regulated by Fetuin A. **All authors had equal contributions.**

BBA- molecular basis of disease paper, 2021.

Increase in PPAR γ _inhibitory phosphorylation by Fetuin—A through the activation of Ras-MEK-ERK pathway causes insulin resistance. **All authors contributed equally.**

Satinath Mukhopadhyay