

LIST OF PUBLICATIONS

1. Shikha RT, Navyasree KV, Anjitha AB, Qathoon N, Mohanty S, Swain RK, **Umasankar PK***. Allosteric feed-forward activation of AP-2 via FCHO-BMP2K axis promotes clathrin-mediated endocytosis. *bioRxiv* doi.org/10.1101/870899 (***Corresponding author**): *Manuscript under revised submission in eLife*
2. Ma L*, **Umasankar PK***, Wrobel AG*, Lyman A, McCoy AJ, Holkar SS, Jha A, Pradhan-Sundt T, Watkins SC, Owen DJ, Traub LM. Transient Fcho1/2.Eps15/R.AP-2 Nanoclusters Prime the AP-2 Clathrin Adaptor for Cargo Binding. *Developmental Cell*. 2016, 37(5):428-443. (* Co-first author)
[Previews: Prosser DC & Wendland B. DePFth Perception in Clathrin-Mediated Endocytosis. *Developmental Cell*. 2016, 37(5):387-388].
3. **Umasankar PK**, Ma L, Thieman JR, Jha A, Doray B, Watkins SC, Traub LM. A clathrin coat assembly role for the muniscin protein central linker revealed by TALEN- mediated gene editing. *eLife*. 2014, 10.7554/eLife.04137.
4. Chakraborty S, **Umasankar PK**, Preston GM, Khandelwal P, Apodaca G, Watkins SC, Traub LM. A phosphotyrosine switch for cargo sequestration at clathrin-coated buds. *Journal of Biological Chemistry*. 2014, 289:17497-17514.
5. **Umasankar PK**, Sanker S, Thieman JR, Chakraborty S, Wendland B, Tsang M, Traub LM. Distinct and separable activities of the endocytic clathrin-coat components Fcho1/2 and AP-2 in developmental patterning. *Nature Cell Biology*. 2012, 14:488-501.
(*Comment in News and views*: Merrifield CJ. Fishing for clathrin-coated pit nucleators. *Nature Cell Biology*. 2012, 14:452-454).
6. Feng X, Feistel T, Buffalo C, McCormack A, Kravand E, Rodriguez-Contreras D, Akopyants NS, **Umasankar PK**, David L, Jardim A, Beverley SM, Landfear SM. Remodeling of protein and mRNA expression in *Leishmaniamexicana* induced by deletion of glucose transporter genes. *Molecular and Biochemical Parasitology*. 2011, 175:39-48.
7. Vathipadiekal V, **Umasankar PK**, Patole MS, Rao M. Molecular cloning, over expression, and activity studies of a peptidic HIV-1 protease inhibitor: designed synthetic gene to functional recombinant peptide. *Peptides*. 2010, 31:16-21.
8. Edeling MA, Sanker S, Shima T, **Umasankar PK**, Höning S, Kim HY, Davidson LA, Watkins SC, Tsang M, Owen DJ, Traub LM. Structural requirements for PACSIN/Syndapin operation during zebrafish embryonic notochord development. *PLoS One*. 2009,4(12).
9. Kulkarni MJ, Vinod VP, **Umasankar PK**, Patole MS, Rao M. Intact cell matrix-assisted laser desorption/ionization mass spectrometry as a tool to screen drugs *in vivo* for

regulation of protein expression. *Rapid Communications in Mass Spectrometry*. 2006, 20:2769-2772.

10. **Umasankar PK**, Jayakumar PC, Shouche YS, Patole MS. Molecular characterization of the hexokinase gene from *Leishmania major*. *Journal of Parasitology*. 2005, 91:1504-1509.