Conference Speaker Information

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Presentation Title	Exosome engineering for delivery of therapeutic proteins:
	principles and applications
Presentation Summary	Our group has recently developed an opto-genetically
	engineered exosome system, named 'exosomes for
	protein loading via optically reversible protein—protein
	interaction" (EXPLOR) that can deliver soluble proteins
	into the cytosol via controlled, reversible protein-protein
	interactions (PPI). By integrating a reversible PPI module
	controlled by blue light with the endogenous process of
	exosome biogenesis, cargo proteins of our interest can be
	loaded into newly generated exosomes. Protein-loaded
	EXPLORs were shown to significantly increase intracellular
	levels of cargo proteins and their function in recipient
	cells in both a time- and dose-dependent manner. In this
	presentation, I will introduce the basic principles of
	EXPLOR technology and follow-up studies for application.