

Entrepreneurial ID

«Academy-Industry Training Camp» 2016



Name: Sakthikumar Ragupathy
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University: University of Geneva
Project/ Company name: PKZ-01
Short description: a simple and efficient way to improve therapeutic efficiency
Web site: -
Industry: Pharma/Biotech

Status of project/science: <i>Patent preparation in process</i>		Company / team size: 3
Technology/science: <i>We have designed a molecule in-house (PKZ-01) which when used as a pharmaceutical composition increases the accessibility of therapeutic molecules to increase their therapeutic efficacy (Patent preparation in process).</i>		
Problem / Solution: <i>Several anti-cancer drugs fail or underperform due to the problem of tumor recurrence. One of the major causes of tumor recurrence is the inability of the anticancer drug to penetrate to the core of the tumor and hence less efficacious. Likewise, many therapeutic proteins like vaccines and other macromolecular drugs underperform due to permeability/ accessibility issues.</i> <i>PZI-01 facilitates 1) the <u>anticancer drugs</u> to significantly reduce the tumor size. 2) Significantly increases the immunogenicity of <u>mucosal vaccine</u> candidates. 3) Permeabilize very high <u>molecular weight macromolecular drugs</u>. It serves a simple and efficient way to improve the activity of the given pharmaceutical ingredient at a given dose.</i>		
Market Opportunity / Target customers: <i>(Pharma/Biotech companies)</i> <i>1)Lung adenocarcinoma market 2)Mucosal adjuvant market 3) Protein drug delivery market 4) Extending the life cycle of the drugs that are going off-patent in 2020</i>		
Competition and competitive advantage: <i>PKZ-01 is a safe, effective drug permeability enhancer with a known mechanism of action. On the other hand, the permeation enhancers and drug delivery systems that are currently available are either toxic, irreversible effect or mechanism of action is unknown.</i>		
Team : <i>Sakthikumar Ragupathy 2) Dr. Omar Sakr 3) Prof. Gerrit Borchard</i>		
AIT Camp objectives: <i>Identify and establish potential collaborators; To study the landscape of business in the target market</i>		