





## JOINT TRANSNATIONAL CALL 2015:

# "Immunology and Immunotherapy of Cancer: Strengthening the Translational Aspects"

### PARTNER REQUEST/COLLABORATION OFFER

If you would like to have your profile published on our "Search for a research partner" webpage, please fill out this form and send it to 

If you have any questions about this form, please do not hesitate to contact us at 

**Note:** Fields marked with a \* are mandatory

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**\* I agree with the publication of my contact data and of this form on the TRANSCAN Website:**

YES



## SEARCH FOR A COLLABORATOR

IF YOU ARE LOOKING FOR A PARTNER IN YOUR SUGGESTED PROPOSAL, PLEASE SPECIFICY ALSO THE NEEDED EXPERTISE

Project proposal	
Project title	Immunotherapy for glioma
Provide a short project description about the project and the consortium (Max. 450 words)	
<p>Malignant glioma is the most common primary brain cancer, despite of aggressive treatments including surgical resection, radiotherapy and chemotherapy, the prognosis is still disappointing. Recently, the roles of immune modulation in tumor development have been highly addressed, and numerous strategies of immunotherapy for treat malignant glioma were reported. However, how standard chemotherapy influence patient’s immunity still unclear. On the other hand, the specialized blood brain barrier (BBB) restricts most of immune enhancer therapeutics and circulating immune cells to reach parenchyma for brain disease treatment.</p> <p>To enhance treatment effect on brain tumor, disturbing BBB may help to modulate the brain tumor microenvironment for immunotherapy. In our previous studies, local delivery of therapeutic agent had been achieved by conventional enhanced delivery (CED), which maybe able to interfere the microenvironment of brain tumor. Furthermore, locally administrated focused ultrasound (FUS) was proven to modulate the immune response against murine gliomas. However, the potential synergistic effect of CED and FUS on immune modulation is still unknown. In the present study, we would like to investigate the response of regional immunity of brain tumor following conventional chemotherapy, and modulate the brain tumor microenvironment through CED and FUS to improve immunotherapeutic effect for tumor treatment. Potential regulation mechanism will be studied in animals for further applications.</p>	

## OFFER FOR COLLABORATION

IF YOU PROPOSE YOURSELF AS A PARTNER IN A CONSORTIUM, PLEASE DETAIL YOUR EXPERTISE

Type of partner (Research institution, university, etc.)	Chang Gung memorial hospital and Chang Gung university
Provide a short description about the expertise (Max. 200 words)	
<p>Our team studied drug delivery to the brain for a long time, We have FUS and CED can increase therapeutics including antibodies in the brain lesions. We also have sound tissue bank for brain tumor samples.</p>	