



Details of the Collaborative Activity

Name of the Collaborating Institute: CSIR – Indian Institute of Chemical Technology, Hyderabad (IICT).

Name of collaborating department from YDU: Yenepoya Research Centre

Student exchange and facility usage for research:

- Mr. Utsav Sen, Research Scholar, Yenepoya Research Centre, had training on molecular transfection experiments on cancer stem cells using liposomal gene delivery system, designed in Dr. Rajkumar Banerjee's Laboratory, at Applied Biology Division, IICT from 10th February to 6th March 2020 as a part of Joint Research including part of his PhD Study.
- Ongoing intellectual support from Dr. Rajkumar Banerjee to Ms. Shanooja Shanavas for her PhD project on Colon cancer stem cells therapeutics.

ATTESTED

Dr. Gangadhara Somayaji K S
Registrar
Yenepoya (Deemed to be University)
University Road, Dandakutte
Mangalore 575 018, Karnataka.



Dr Bipasha Bose <bipasha.bose@gmail.com>

Request for training in in-vitro gene manipulation technology using ongoing methods in the laboratory

6 messages

Utsav Sen <utsavsen.bio@gmail.com>

Tue, Jul 9, 2019 at 9:31 AM

To: banerjee@iict.res.in

Cc: Bipasha Bose <bipasha.bose@gmail.com>, sudhir shenoy <shenoy2000@yahoo.com>

Dear Sir,

Good morning!!

As my 4th objective in my Ph.D. project involves the validation of upregulated gene expression using RNAi approach, I require training in techniques for gene downregulation using RNAi approach. Currently, my home laboratory does not have suitable reagents and expertise to carry out the same. Moreover, as your esteemed laboratory has designed/established lipid delivery systems for nucleic acids under in-vitro systems, I would like to learn the same with the RNAi available in your laboratory. As of now, I wish to carry out the gene downregulation in triple negative breast cancer stem cells (CD44⁺/24⁻) isolated from two triple negative breast cancer cell lines, namely MDA-MB-231 and MDA-MB-468, and their parent cell types.

Regarding the cell lines/cancer stem cells, we have ample quantities isolated and characterized for purity in our laboratory. I will bring the cancer stem cells (CD44⁺/24⁻) isolated from two triple negative breast cancer cell lines, namely MDA-MB-231 and MDA-MB-468, and their parent cell types from my home institution laboratory.

Hence, I will be thankful to you if you could allow me for the same.

Thanking you,
Sincerely,
Utsav Sen.

Rajkumar Banerjee <banerjee@iict.res.in>

Tue, Jul 9, 2019 at 9:58 AM

To: utsavsen bio <utsavsen.bio@gmail.com>

Cc: bipasha bose <bipasha.bose@gmail.com>, shenoy2000@yahoo.com

Thanks Utsav, for your mail.

You are welcome to our lab and use our facility toward learning lipid-based genetic material delivery techniques. However, it is not clear though what do you want to down-regulate using RNAi approach. We have some targets but it may not be useful for your systems. Because you are bringing TNB CSCs, you would wish to use the RNAi of your choice directly. In that way, you will not only learn but also directly get your data that you intend to have.

Just a thought, contemplate and let me know.

Best wishes,

Rajkumar Banerjee

Rajkumar Banerjee, Ph.D.
Senior Principal Scientist
Associate Professor, Academy of Scientific & Innovative Research (AcSIR)
Applied Biology Division,
Centre for Chemical Biology Building
CSIR-Indian Institute of Chemical Technology
Uppal Road, Tarnaka
Hyderabad
Telangana 500 007

12/6/21, 3:15 PM

Gmail - Request for training in in-vitro gene manipulation technology using ongoing methods in the laboratory

Associate Professor, Academy of Scientific & Innovative Research (AcSIR)
Applied Biology Division,
Centre for Chemical Biology Building
CSIR-Indian Institute of Chemical Technology
Uppal Road, Tamaka
Hyderabad
Telangana 500 007
INDIA
91-40-2719-1859 (office)
Alternate emails:
rkbanerjee@yahoo.com
rkbanerjee.iict@gmail.com
<https://iictindia.org/People/view?id=89>

From: "bipasha bose" <bipasha.bose@gmail.com>
To: "Rajkumar Banerjee" <banerjee@iict.res.in>
Cc: "utsavsen bio" <utsavsen.bio@gmail.com>, shenoy2000@yahoo.com
Sent: Tuesday, July 9, 2019 10:32:26 AM
Subject: Re: Request for training in in-vitro gene manipulation technology using ongoing methods in the laboratory
[Quoted text hidden]

Utsav Sen <utsavsen.bio@gmail.com> Tue, Jul 9, 2019 at 10:54 AM
To: Bipasha <bipasha.bose@gmail.com>
Cc: Rajkumar Banerjee <banerjee@iict.res.in>, sudhir shenoy <shenoy2000@yahoo.com>

Dear Sir and Madam,

Thank you so much for your reply.

Soon I will get back to you with my journey date and travel plan, also the work plan too.

Thanks and regards,
Utsav
Mr Utsav Sen
ICMR-Senior Research Fellow/PhD Scholar
Stem Cells and Regenerative Medicine Centre
Yenepoya Research Center
Yenepoya University
Mangalore-575018
India.

[Quoted text hidden]

Bipasha <bipasha.bose@gmail.com> Tue, Jul 9, 2019 at 3:10 PM
To: Rajkumar Banerjee <banerjee@iict.res.in>
Cc: utsavsen bio <utsavsen.bio@gmail.com>, sudhir shenoy <shenoy2000@yahoo.com>

Thank you, Rajkumar. Utsav will soon update his plan and inform you.

Regards,

[Quoted text hidden]

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