

Prof. Yibin Wang's lab, UCLA – Ramino-Bio LTD. visit Including Technology Transfer, July 15-16th, 2019

Ramino's aim is to develop a small-molecule compound (SMC) that enhances the BCAA catabolism of subjects with cardiometabolic diseases by targeting BCKDK (=BDK).

Purpose of visit: Introduction with Prof. Yibin Wang, his colleagues, his lab, as well as UCLA Technology Development group members, UCLA facilities, Discussion with other project-related members, and Perform technology transfer from Lab to Ramino-Bio including knowledge and data transfer, overview and assessment for studies and planned development program.

Attendees

University of California at Los Angeles: Prof. Yibin Wang, Principle Investigator

C.G., Ph.D., Wang's lab

A.N., CEO, and president UCLA Development Group

E.W., Ph.D, BD Technology Development Group

D.H., MD, Director UCLA Human Nutrition/Diabetes

program

O.S., MD, PhD Mitochondria Core and Metabolism Theme

director

A.N., MD, Cardiovascular Center Heart Failure director

Shanghai Jiao Tong University Dr. H.S., Principal Investigator

University of Texas Southwestern Prof. D.C., principal investigator.

Dr. R.M.W., Associate Professor, D.C.'s lab

FutuRx / Ramino-Bio LTD. L.K., CTO, Ph.D.

Dorit Cohen-Carmon, CSO, Ph.D.



AGENDA

Monday, July 15th

09:00 - 09:15	<u>Introduction</u>
	Wang's and C.D.'s Lab staff with Ramino-Bio/ FutuRx
09:15 – 10:00	Ramino-Bio Development Plan – Presentation and Q&A
	Dorit Cohen-Carmon
	Overview including Y-1 milestones, assays to be developed, Hit identification strategies
10:00 – 11:15	Wang's lab current BCAA studies – Presentation and Q&A
	Dr. H.S. and C.G from Wang's group on BCAA research
	Dr. Y.W. on Other Research Projects
11:15 – 11:30	Break
11:30 – 11:45	Lab and Animal facility tour including HMDP strains.
12:00 – 13:15	<u>Lunch</u>
	FutuRx / Ramino & lab members
13:15 – 13:45	Break
14:30 – 15:15	Director UCLA Human Nutrition/Diabetes program – clinical opportunity in cardiometabolic diseases
	Dr. Z.L., Rehab Center
15:30 – 16:00	Mitochondria Core and Metabolism Theme director – mechanisms of action in treating cardiometabolic diseases
	Dr. O.S., CHS
16:15 – 16:45	Heart failure director – Clinical opportunity of treating cardiometabolic diseases
	TBD (to be confirmed)

Tuesday, July 16th



09:00 - 12:00 V

Wang's lab tech transfer to Ramino-Bio

<u>Tech Transfer issues (see table below)</u>

- 1. Delivery of in-vitro raw data, protocols, experiments & reports
- 2. Reagents and chemicals handling, storage, processing
- 3. Delivery of In-vivo protocols and results
- 4. Discussions with relevant scientists per (1-3).

12:15 – 13:15	Lunch with Technology business group members
13:30 – 15:30	<u>Tech Transfer – continuation</u> .
15:45 – 16:30	A 1:1 meeting Ramino-Bio with Yibin Wang and Dr. H.S.
	Discussion on future Lab studies involving Ramino's milestones, especially in-vivo models. Responsibilities, facilities, protocols, materials, specifications, documentation, results, analysis – to be continued in a future meeting.

Tech Transfer detailed plan

16:30 - 17:15

It is very important to get as much information as possible for failed attempts & directions as for successes. These data are highly valuable in tech transfer from scientists who conducted the studies.

Summary, next steps, greetings and farewell

Technology Transfer from the Yibin's Lab to Ramino-Bio will include:

Task #	Task	Execution
1	Transfer In-vitro protocols, assay qualification and knowledge	Transfer knowledge, protocol guidance, methods, results, enzymatic (biochemical) and cell-based assays, cell lines, readout, including BCAA/ BCKA levels quantification in plasma and tissues.
2	Materials from the Lab to Ramino-Bio	Reagents, materials and cell lines used for in-vitro and n-vivo assays, notes for special handling, storage and preparation.
3	in-vivo results, protocols, workplan	Transfer knowledge, ethical requests, protocol guidance, disease models, results, adverse effects, changes needed for company (e.g. metabolic disease mouse models), lessons learned.
4	Studies in Lab per workplan	Discuss future plan studies together. Based on results and discussion with scientists & clinicians.