Metabolic Profile of Inflammatory Breast Cancer: aiding diagnosis and treatment

László G. Boros, M.D. UCLA School of Medicine

Metabolic Profiling in simple terms.

<u>Ingredients</u>: 3 egg yolks / 25 cl [1 cup - 8.5 fl oz] milk / 25 cl [1 cup - 8.5 fl oz] simple cream (light cream) / 1 vanilla bean / 50 gr [1.75 oz] sugar / 60 gr [2 oz] brown sugar.

- In a salad bowl, put the egg yolks and mix them with a whisk.
- Add the sugar to the yolks and mix until the mixture gets clearer. Add the cream, then the milk, and leave for 30 minutes.

<u>Pre-heat oven at 160°C | 310°F</u> and put 1 cm (1/2 in.) high water in the oven baking tray.

Bake for about 10 minutes; the cream must get thicker but stay soft; it must not get too brown.

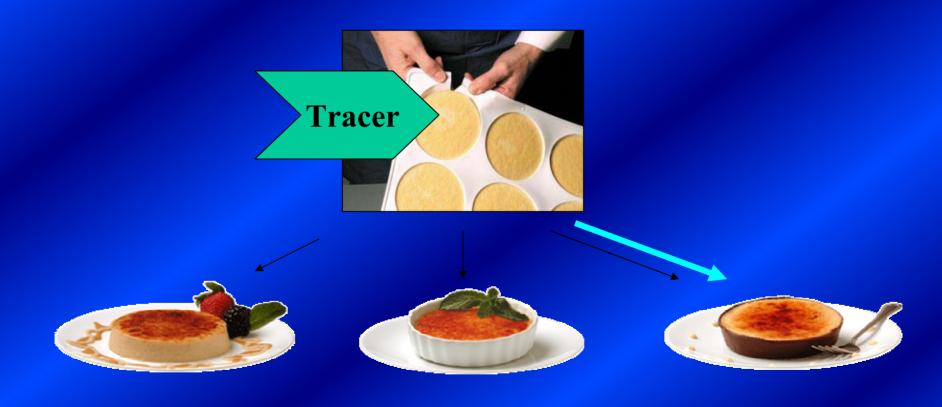
- When baked, let them get cooler, then put in fridge for at least 1 hour. Last step, the "burning" (sugar crust on top), just before serving:
- Pre-heat oven on grill position; evenly spread the brown sugar on the 4 creams then put under grill for just a few minutes (3 to 5, it is quick); the sugar will melt and get caramelized, don't let it burn!

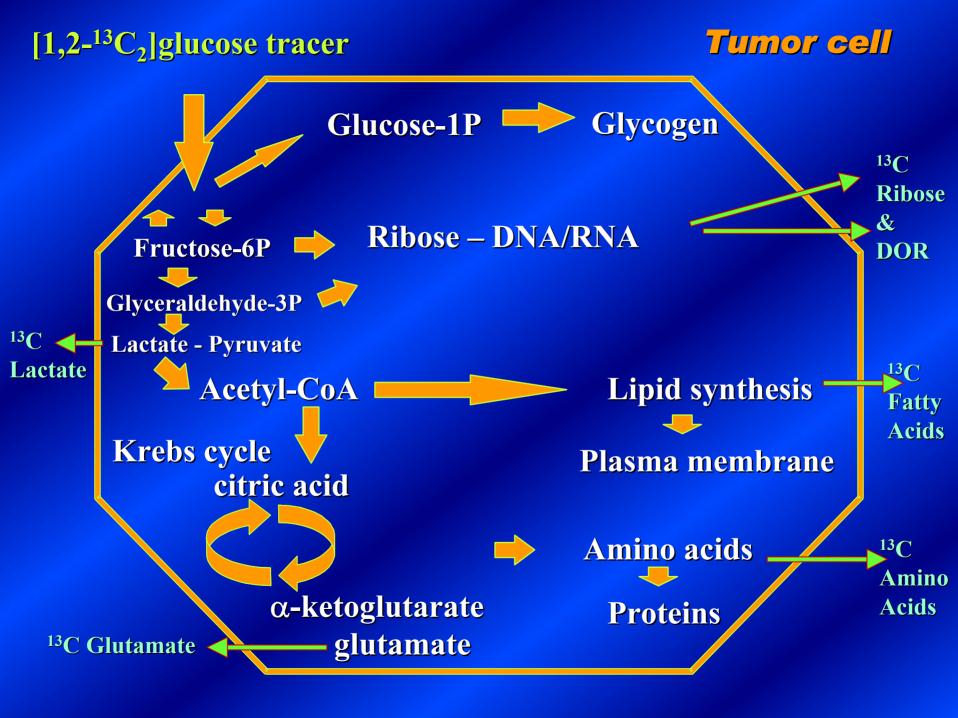
Serve right away (hot on top, cold inside).

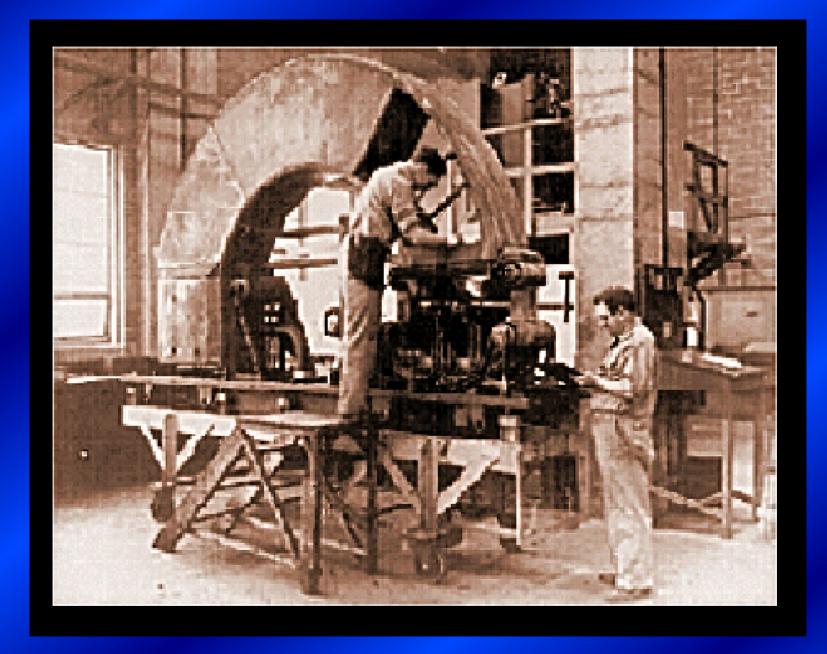
In the making

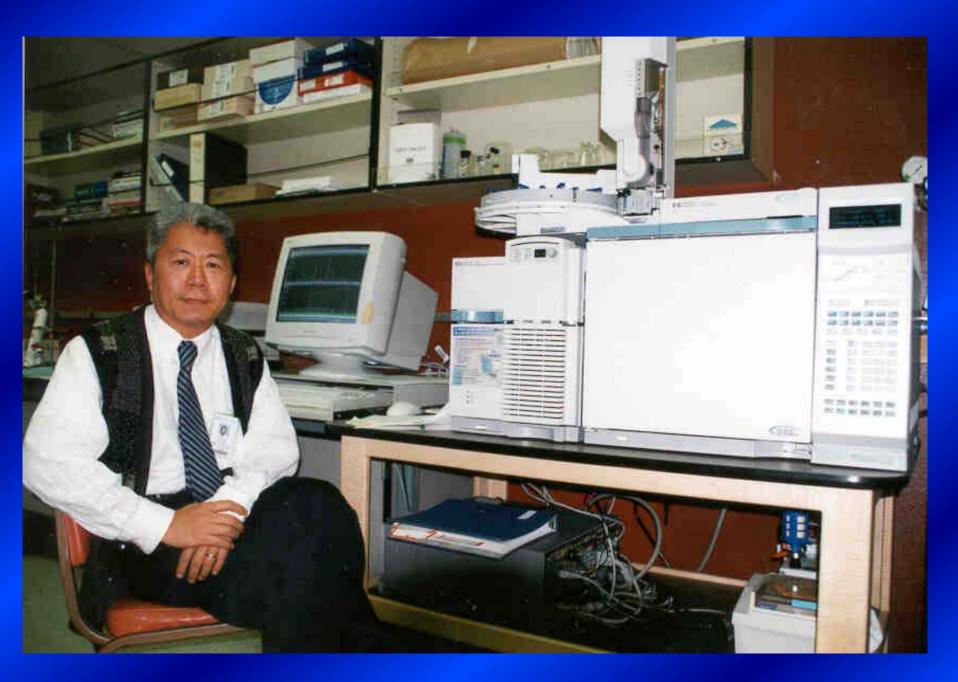


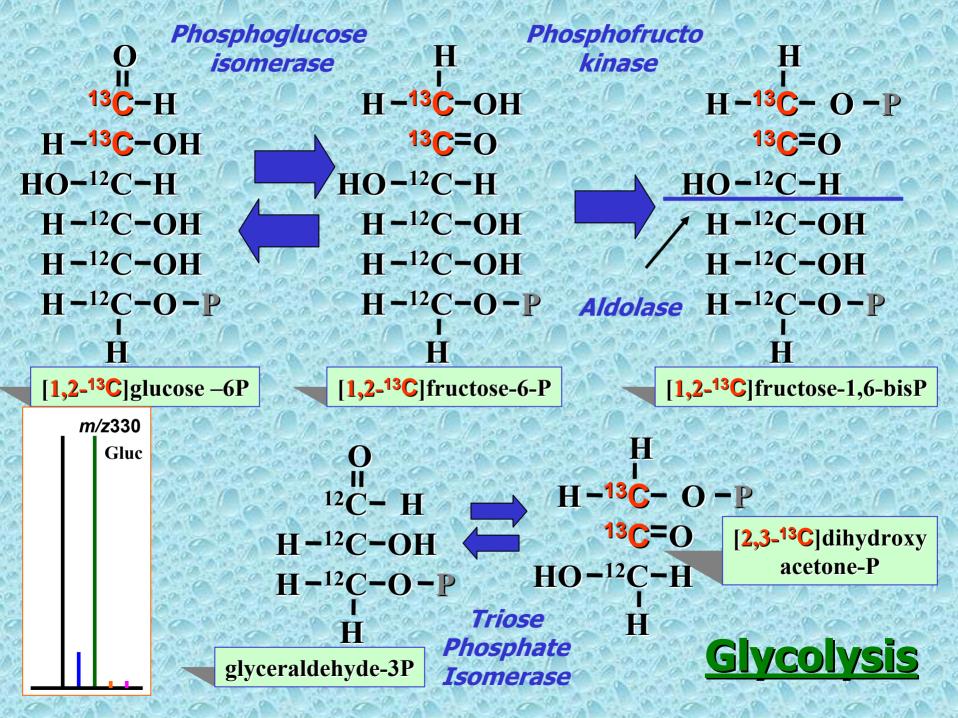
Crème Brulée

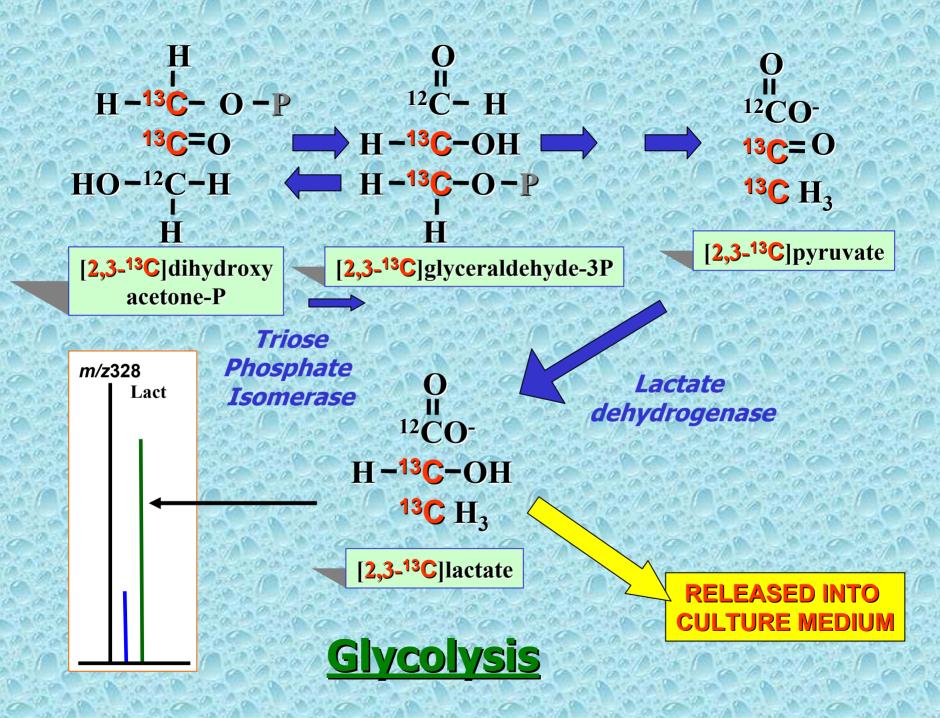










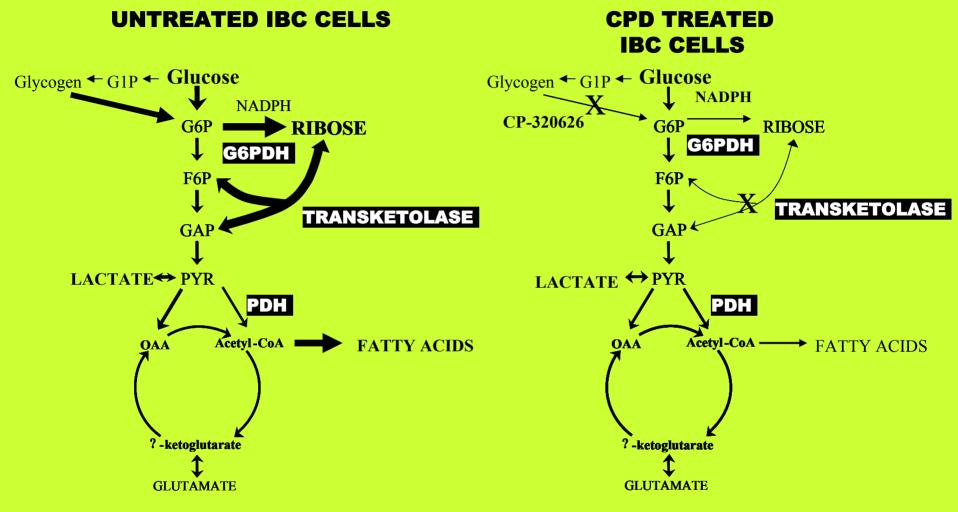


DRUG TREATMENTS

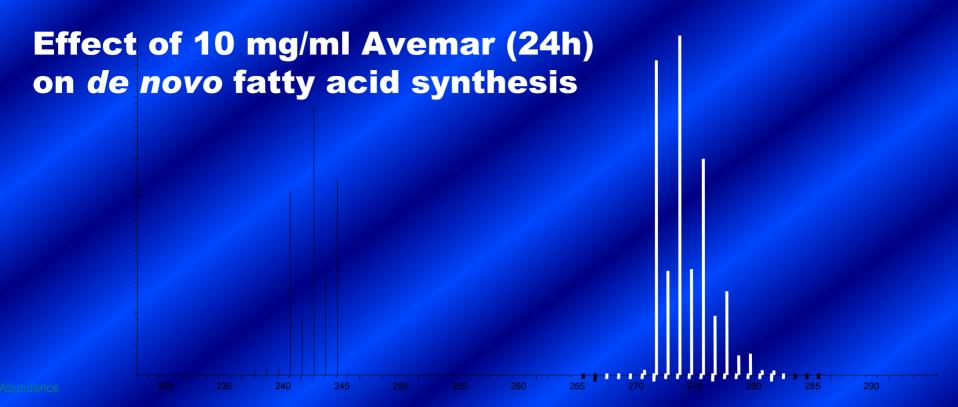
AVEMAR

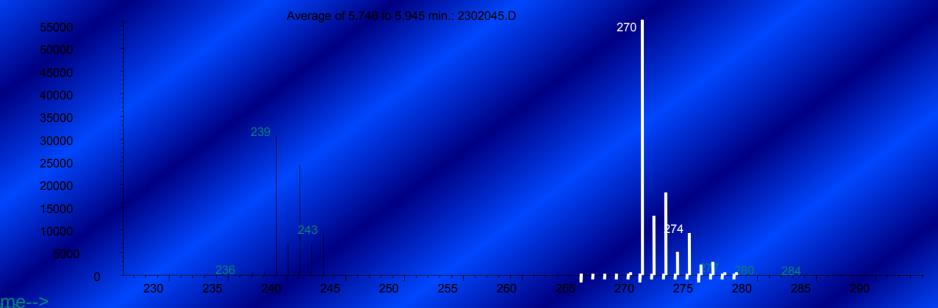
GLYCOGEN PHOSPHORYLASE INHIBITOR

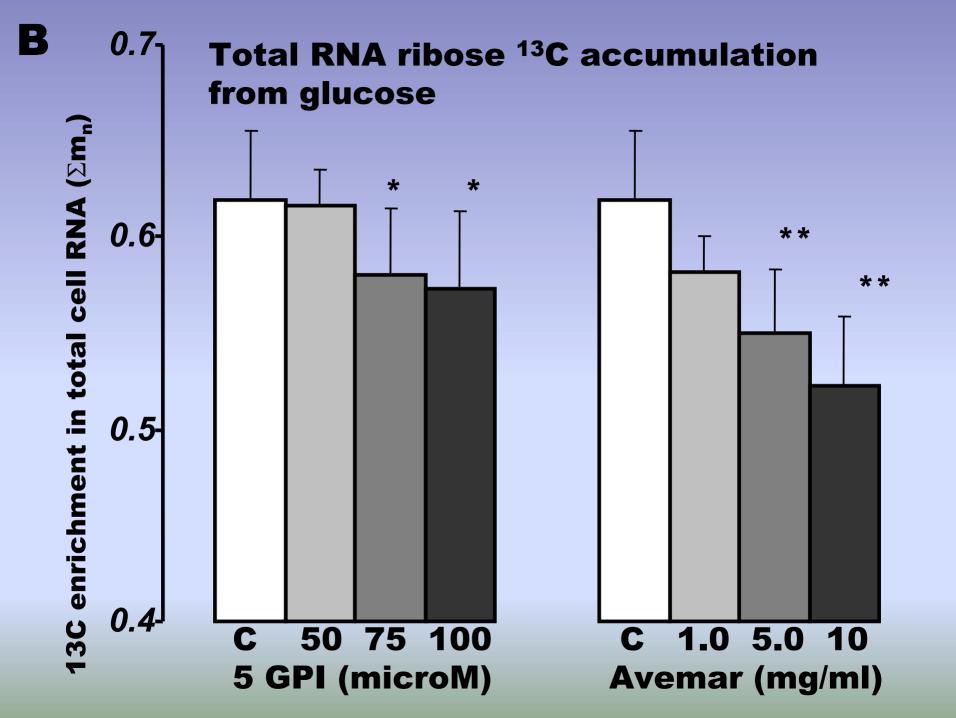
2-DEOXY-D GLUCOSE

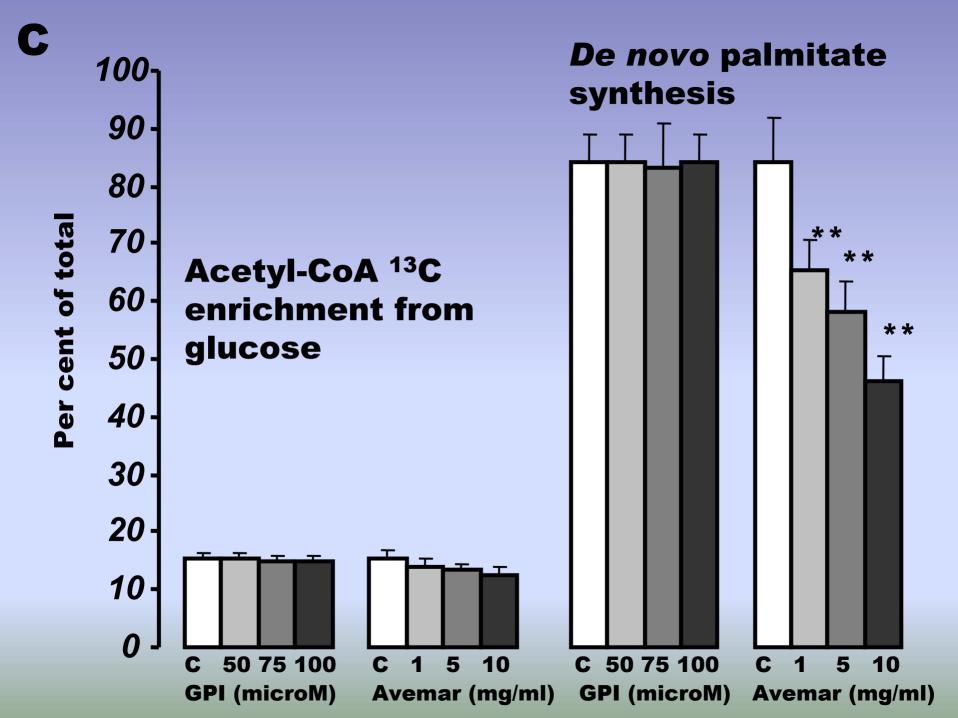


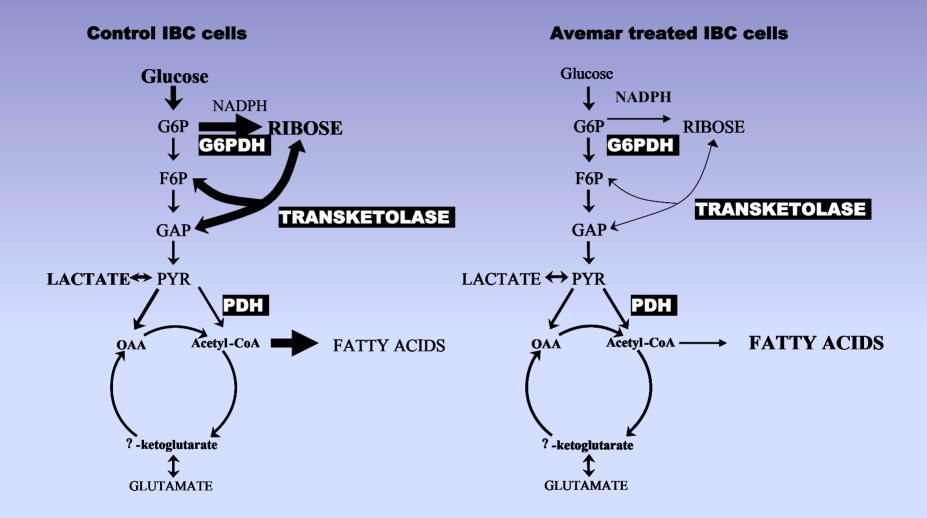
Apoptosis / IBC cell death





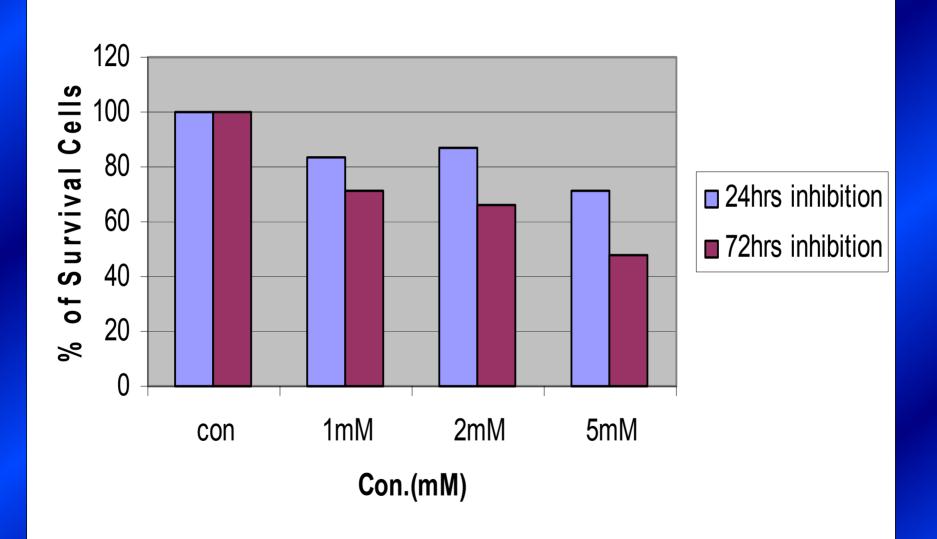






Decreased proliferation

Deoxyglucose Inhibition On IBC



STUDY RESULT SUMMARY

• IBC cells have a very unique metabolic profile.

 They are sensitive to DOG and Avemar treatment

AGENDA

• DIAGNOSTIC TEST BASED ON METABOLIC PROFILE AND TRACER TECHNIQUE

• NEW TREATMENT TARGETING
UNIQUE METABOLIC ENZYMES

THANKS TO

IBC RESEARCH FOUNDATION

• HARBOR UCLA RESEARCH FACILITIES