THE UNIVERSITY of NORTH CAROLINA at CHAPEL HILL

#### NUTRITION RESEARCH INSTITUTE

#### EATUNIQUELY





#### NUTRITION RESEARCH INSTITUTE FACILITIES

- 125,000 square feet
- Wet and clinical laboratories
- Clinical intake facility
- Metabolic kitchen
- Whole-room calorimeter

## LAB RESEARCH

ETHANOL

eppendorf

# **CLINICAL TRIALS**

## STUDENT TRAINING

# COURSES

#### **COMMUNITY ENGAGEMENT**

#### NUTRITION IS IMPORTANT

HEART DISEASE kills 614,248 Americans per year.
CANCER kills 591,699 Americans per year.
STROKE kills 133,103 Americans per year.
DIABETES kills 76,488 Americans per year.
KIDNEY DISEASE kills 48,146 Americans per year.

1,463,684 PREVENTABLE DEATHS

We spend 86% of all healthcare dollars treating chronic conditions, may of which are preventable by better nutrition. -Centers for Disease Control and Prevention

## YOU ARE UNIQUE SO DON'T EAT LIKE ANYONE ELSE



#### **NUTRIGENETICS** The science of

How nutrition changes the way our genes function, and How our genes change our nutrient requirements





#### Microbiome The science of

How nutrition changes our microbiome, and How our microbiome changes our nutrient requirements



#### METABOLOMICS The science of

Measuring thousands of chemicals in a small sample of blood for a more comprehensive view of a patient's metabolism than the limited glucose and cholesterol measurements that doctors now use



# THE CUTTING EDGE OF MEDICINE IS PERSonnal Z EDG

# HOW WILL PERSONALIZED NUTRITION WORK?

NRI research is helping create a "dictionary" of gene variations that change nutrition requirements. Your medical practitioner will be able to look up your unique changes to find the best interventions.





## NRI LEADS FIELD IN INDIVIDUALIZED NUTRITION

"The University of North Carolina Nutrition Research Institute is a leader in the growing field of individualized nutrition, studying what's known as nutrigenomics: the link between genes and diet. The science is a comparatively new one but early reports are tantalizing."

Oz, Dr. Mehmet. "The Oz Diet." *TIME Magazine* 12 Sept 2011: 5. Print.





We've discovered why some babies need extra essential fatty acids for better brain function.





Our research shows that a lack of choline in a diet could lead to liver and muscle damage.





We've discovered
that a choline-rich
diet during pregnancy
is essential for
babies' healthy brain
and spinal
development.





Our studies show that eating blueberries may improve mental processing speed and have a positive effect on mild cognitive decline.





We've discovered that omega-3 fatty acids together with weight loss can be very therapeutic in preventing and reducing the risks of some cancers.







#### UNC NUTRITION RESEARCH INSTITUTE

#### Thank you!

Please visit and get involved.

To make a difference and be the best in the world we need your help.

www.uncnri.org