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











NUTRITION IS IMPORTANT

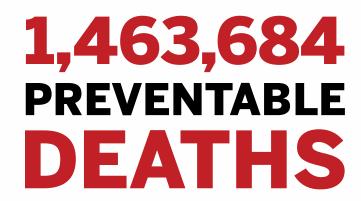
HEART DISEASE kills *614,248* Americans per year.

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.



We spend 86% of all healthcare dollars treating chronic conditions, may of which are preventable by better nutrition.

-Centers for Disease Control and Prevention

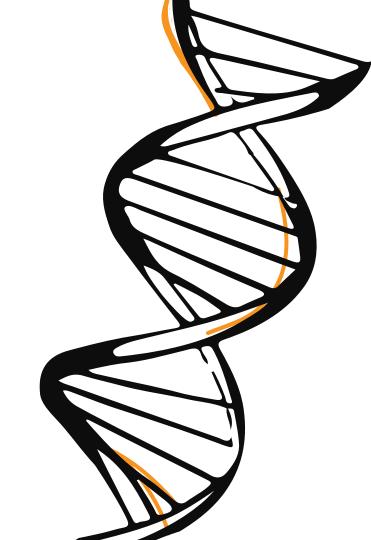
YOU ARE
UNIQUE
SO DON'T
EAT LIKE
ANYONE ELSE



NUTRIGENETICS

The science of

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





Normal nutrition is composed of many metabolic pathways that nutrients must transit.

Pathways depend on our genes.

A-Phospho-Ch-glutanate

sets-D-Glucoss A-phosphate

Some genes have naturally occurring spelling differences that cause roadblocks in metabolism.

Each of us can have as many as 50,000 of these differences.

2-Ovabulaments

8.7.3-Disydranyi-3methyliptanically

3-Methyli-2-ovohutament acad

Livaline

Livaline

5-3-Methyli-2-exepentament acad

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Microbiome The science of

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



METABOLOMICS

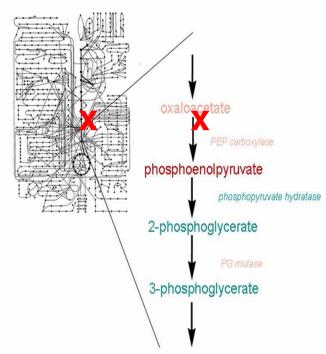
The science of

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



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.

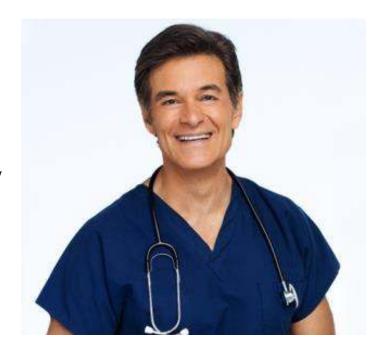




NRI LEADS FIELD IN INDIVIDUALIZED NUTRITION

"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.





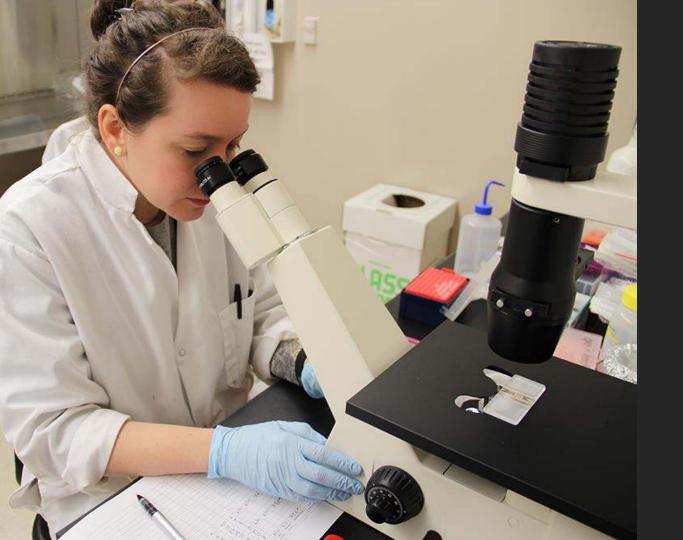
We've discovered that a choline-rich diet during pregnancy is essential for babies' healthy brain and spinal development.





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