Grandma Age 101









Mediterranean
Diet reduces CV events
NEJM 2012



A True Mediterrain Style Diet





If You Exercise You Can Eat This Stuff!

Grandma's Calamari



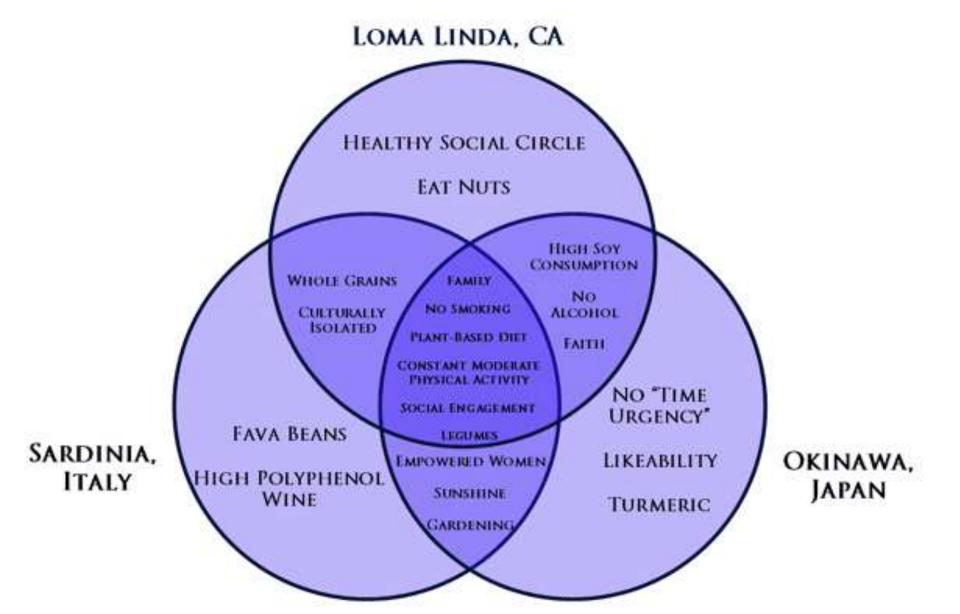
Roberta's Shrimp Scampi

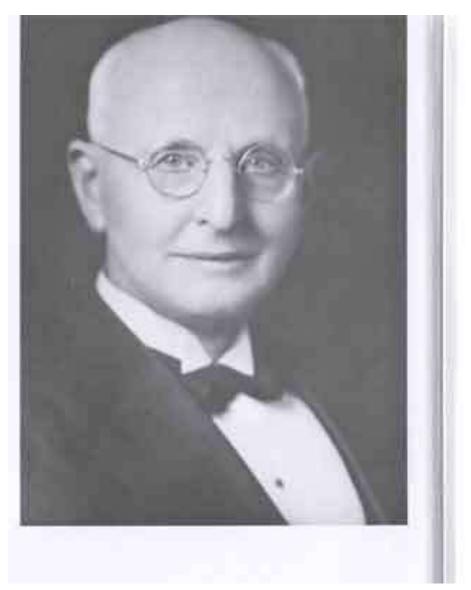


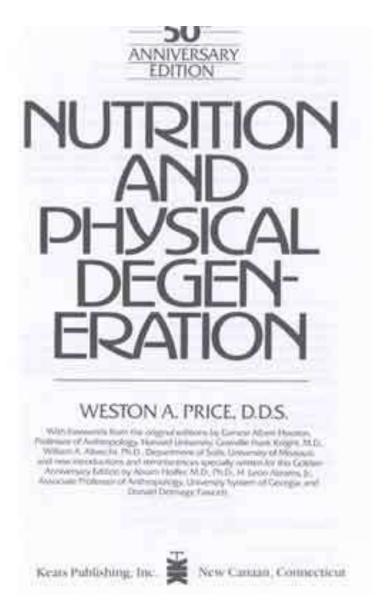
Blue Zones by Dan Beuttner



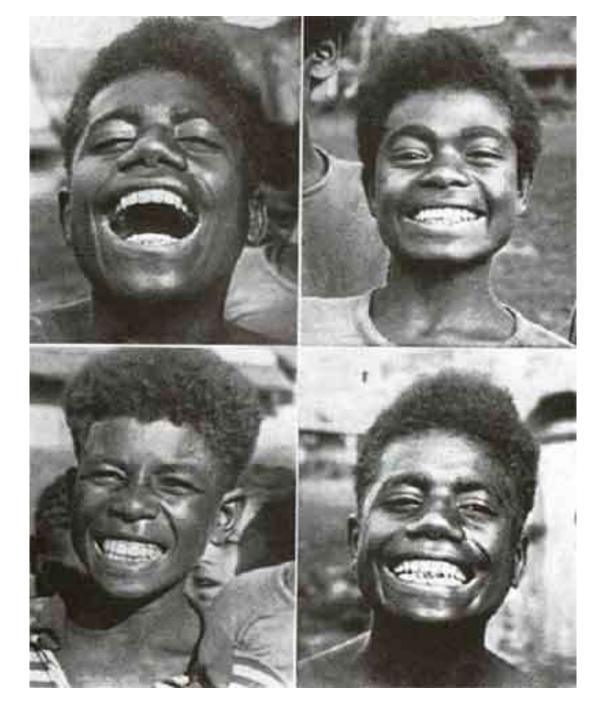
Blue Zones Common Threads

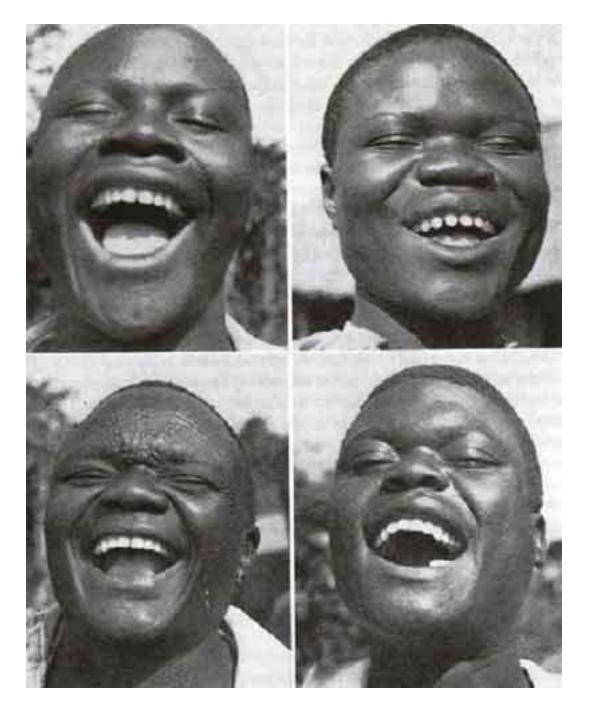


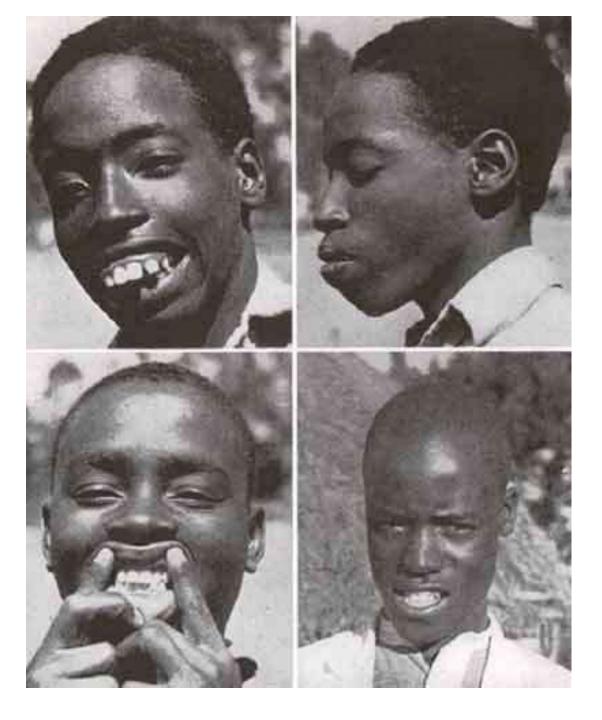




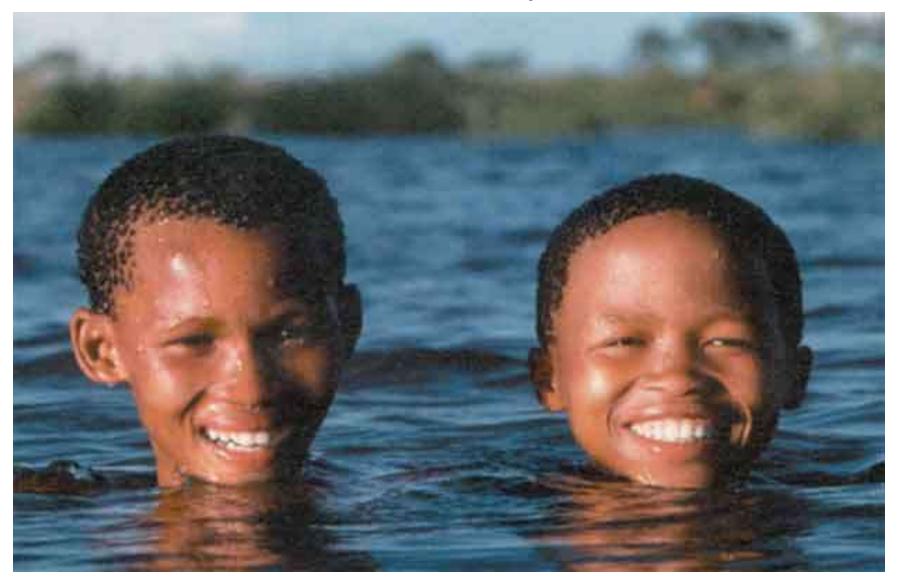
Photos from Nutrition and Physical Degeneration copyright and courtesy Price-Pottenger Nutrition Foundation



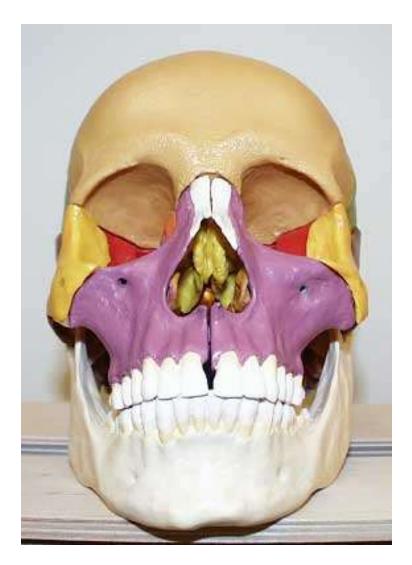


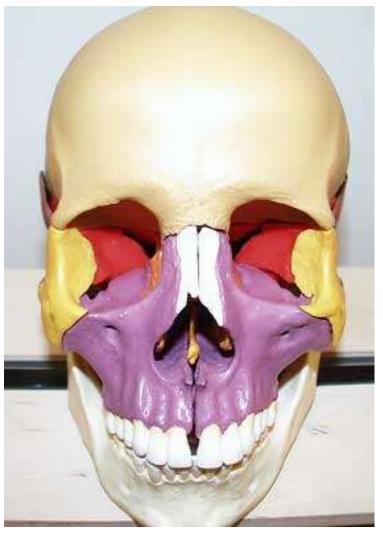


African Boys



The Facial Bones







Bill Cody's Wild West Show 1910

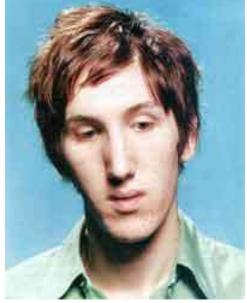


South American Children













Most modern children have thin faces and need braces to straighten their teeth



"Life in its fullness is Mother Nature obeyed." Weston A. Price, DDS



Factory foods are not Mother Nature's foods!

Restorative Nutrition vs. Medicine....the Ancient History

- 2000 BC: "Here, eat this plant, especially the root. The root's Nutritional properties are best to restore health."
- 1000 BC: "That root is heathen, say a prayer."
- 1840: "That prayer is superstitious, drink this potion."
- 1940: "That potion is snake oil, swallow this pill."
- 1985: "That pill is ineffective, take this antibiotic."

Restorative Nutrition vs. Medicine....the Current Thinking

 2014: "That antibiotic is artificial, here eat this plant, especially the root. This will help the body restore its health."



Beneficial Bacteria

OLD PARADIGM: Healthy human body is sterile and microbes attack it, making us sick.

NEW PARADIGM: Healthy human body lives in symbiotic relationship with microorganisms.

SIX POUNDS of healthy bacteria in our digestive tract

Digest our food

Assist in assimilation

Create nutrients

Protect us against toxins

Help us feel good

Without good bacteria, we are dead!

"In my next life I'm going to study the Microbiome" Amby Burfoot 1968 Boston Marathon champ

A6 MONDAY, JUNE 5, 2006

SCIENCE

THE WASHINGTON POST

Legion of Little Helpers in the Gut Keeps Us Alive

By Rick Weiss Washington Fron Staff Writer

So you think you are the self-reliant type. A rugged individualist.

Well, give it up. You'd be nothing without the trillions of microbial minious toilling in your large intestine, performing crucial physiological functions that your highfulutin human cells wouldn't have a clue how to do.

That's one of the humbling truths emerging from the most thorough census yet of the bacterial tenants homesteading in our bodies. The new view, made possible by out-ting-edge DNA screening methods, shows that the vaunted humas genome — all the genes in our cells — is but a fraction of what it takes to make a human.

In fact, it's time to stop thinking of yourself as a single living thing at all, say the scientists behind the new work. Better to see yourself as a "super-organism," they say: a hybrid creature consisting of about 10 percent human cells and 90 percent bacterial cells.

"The numbers might strike fear into people, but the over-all concept is one we have to understand and adjust to," said Steven Gill, a microbial geneticist who helped lead the study at the lastitute for Genomic Research in Rockwille.

A better understanding of the bacteria colonizing our bodies could have far reaching medical implications. In the not-too-distant inture, Gill and others predicted, doctors will test for subtle changes in the numbers and kinds of microbes in people's gats as early indicators of disease. Doctors may prescribe live bacterial supplements to being certain physiological measures back into normal range. And drug companies will invent compounds that minnic or amplify the actions of helpful bacteria.

These microbes are master physiological chemista," said Jeffrey I. Gordon of Washington University in St. Louis, another team member. "Understanding their biosynthetic capabilities and following the pullways by which they operate could be the starting point for a 21st-century pharmacopocia."

Scientists have long recognized that the number of human cells in the body is dwarfed by the 100 trillion or so bacteria living in and on it. It's a daunting reality obscured by the fact that human cells are much bigger than bacterial cells. For all their numbers, bacteria account for only about three pounds of the average cerson's

are, however, has been difficult to appreciate until now. Most becteria are too finicky to grow in laboratory dishes. As a result, little was known about who these majority shareholders really are and what, exactly, they are doing to and for us.

The new study, described in last week's issue of the journal Science, took a novel approach. Rather than stranggling to grow the body's myriad microbes and testing their ability to perform various biochemical reactions—the methods scientists traditionally use to classify bacteria—the team used tiny molecular probes resembling DNA Velcro to retrieve tens of thousands of suppets of bacterial DNA from smidgeous of the intestinal output of two volunteers.

By comparing the DNA sequences of those snippets with those of previously studied bacteria, the team was able to sort many of the invisible bugs into known families.

Hundreds of others, it became clear, belong to microbial families unknown to science until now.

But the team members went further. By comparing the genetic puzzle pieces with similar sequences stored in databases, they were able to determine what biological functions many of these microbes are performing in the gut. And, as it turns out, no small number of those functions are crucial to human servival.

Some of the bacteria have the genetic machinery to make essential vitamins that are not found in the diet and that human cells can barely manufacture, including several B vitamins. Others make enzymes that can break the chemical boads in plant fibers, or polysaccharides, where a plant's nutritional energy is stored.

"We have very few of those linkagebusting enzymes escoded in our own genone, but these microbial genomes have a whole arsenal of gene products to degrade plant polysaccharides to energy," Gordon

Some bacteria in the gut break down flavonoids and other chemicals made by plants that could cause cancer or other illnesses if they were not seutralized in the intestines.

Others have the genetic capacity to scaveage hydrogen gas from the gat — a byproduct of digestion that can kill helpful bacteria — and convert it into methane. That makes the intestines a more biologicalby friendly place, while contributing in sometimes embarrassing moments to

Earth's accumulation of greenhouse gases.

And in one especially touching example

tion of butyryl coenzyme A, a fatty acid that is a favorite food of the cells that line the co-

"We provide them a great place to live," study author David A. Relman of Stanford University said of the bacterial cells, "and they are feeding the lining of our gut."

The new work does not purport to be a complete survey of all microbes in the human gut. And it did not even take a stab at the body's other pockets of microbial diversity — primarily the nose and mouth, the vagina, and the skin. But it denton-strates that the DNA-based approach has the potential to reveal at last the metabolic details of our many mini-mes, said Claire M. Praser-Liggett, president and director of the Institute for Genomic Research.

With the technology improving and getting cheaper, she said, it won't be long before it is easy to monitor a person's microbicia changes from day to day — or compare bacterial population structures among individuals who have different diets or health histories.

"One question we need to tackle is: Is there such a thing as a core microbiome, a set of organisms or bacterial genes you find in most or all individuals? Praser-Liggett said. "It may be that microbes are very stable and diet doesn't play a huge role. Or it may be that this is a snapshor in time reflecting something they are in their last

with that kind of information in hand, doctors could think about prescribing particular 'probiotic' foods or supplements to change a patient's microbiome in healthful ways, or adjusting a patient's diet to make a better fit with the bugs that the potient is

"To ignore our microbial side would be to ignore an important contributor to our health and our biology," Gordon said.

Edward DeLong, a professor at the Massachusetts Institute of Technology who has seed similar techniques to study marine microbial diversity, said he was not completely comfortable with the idea that people are super-organisms. Tim not sure where the super-organism ends and the environment begins," he said.

But he said he appreciated the focus on the positive side of bacteria.

"We typically think of microbes as being associated with human disease," DeLong said. "But they are always with us and are associated most of the time with human

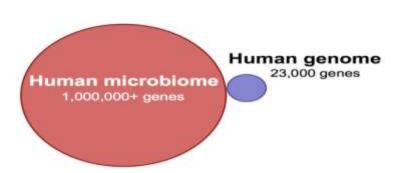


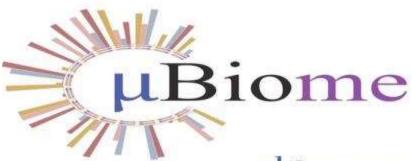
A STRUCKS HATTON TARK - THE WARRANT AREA FACTOR

Gut Bacteria: Our Essential Assistants

Five ways that intestinal microbes keep us alive, by doing what we can't:

- Vitamin synthesis, including several 8 vitamins.
- Breakdown of complex plant sugars to extract energy.
- Fermentation of dietary fiber.
 Conservice of budgeness are to methan.



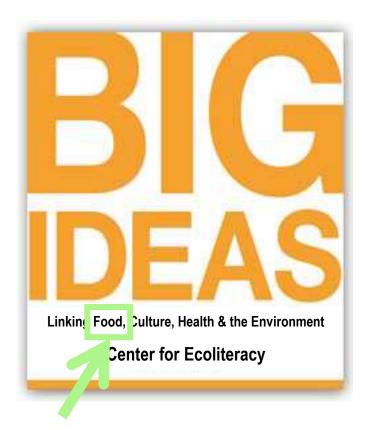




- When we eat, we feed ourselves and our microbiome
 - Up to 1000 distinct bacterial species in our distal GI tracts- outnumbering our own cells 10:1 & our genes at least 50:1
 - A crucial heritable ecosystem for human health
- The Standard American Diet (SAD) selects for organisms poised to metabolize simple sugars
 - Linked to chronic disease, obesity and mental health
- "Real Food" selects for organisms that thrive on resistant starch and complex carbs
 - Linked to better immunity, weight regulation, stress resilience

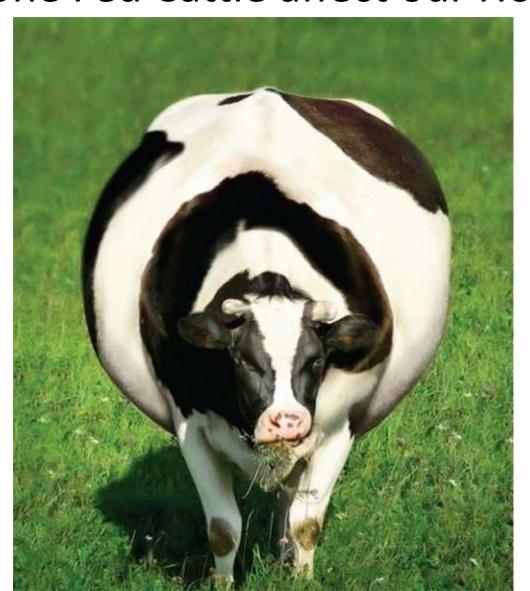






- 1. Food is essential for survival- know who & where it comes from
- 2. Food is more than nourishment it also reflects our culture
- 3. What and how we eat *provides or* saps our health & strength
- Every living thing on earth is linked by food energy
 - good stewardship is a good idea

The Obesity Microbiome Do Hormone Fed Cattle affect our Hormones?





WEAPONS OF MASS DESTRUCTION



I want to Be Beyonce!



Heart Healthy Counseling Brought to you by



Share with a Colleague

A Resource for Professionals

REGISTER NOW! NEW FREE CPE WEBINAR FEBRUARY 27, 2013

Continuing Education for RNs, NPs, RDs and DTRs



Heart Healthy Lifestyle Counseling: Making the Clinical Encounter More Efficient and Effective

With presenters Jane Nelson-Worel, MS, APRN-BC, APNP, and Lynne T. Braun, PhD, CNP, FAHA, FAAN, and moderator Catherine Christie, PhD, RD, LD/N, FADA

Wednesday, February 27, 2013 1:00 - 2:00 pm ET

Making and sustaining lifestyle changes are integral components of reducing cardiovascular disease risk. Yet, providing support to patients in a brief clinical encounter can pose a difficult challenge for health professionals. Join Dr. Lynne T. Braun, Rush College of Nursing, and adult nurse practitioner Jane Nelson-Worel, Meriter Medical Group, as they explore common challenges, practical solutions, and new tools and resources to support your work and your patients' efforts.

Register Now

Space is Limited!



American Dietetics Assn Annual Meeting



Monday, September 30, 2013

11:30 a.m. - 1:45 p.m. Remarks begin at noon sharp Toronto Region Board of Trade Downtown Centre



Ontario's Healthy Kids Strategy: Assurance of a Strong Future



Kate Manson-Smith Assistant Deputy Minister, Health Promotion Division, Ministry of Health and Long Term Care



Alex Munter President and Chief Executive Officer, Children's Hospital of Eastern Ontario



Kelly Murumets President & CEO, ParticipACTION

In order to secure a healthy and productive future for Ontario, it is important that all sectors, both public and private promote children's well-being through regulation of the food environment and community activities.

Join leading industry experts as they discuss:

- The government's mandate for the strategy and the goals to be achieved by 2018
- The process and priorities that public and private organizations are taking to achieve the provincial goal of reducing childhood obesity by 20% over five years
- The initiatives that businesses are taking to promote well-being in children

Supporting Sponsor:

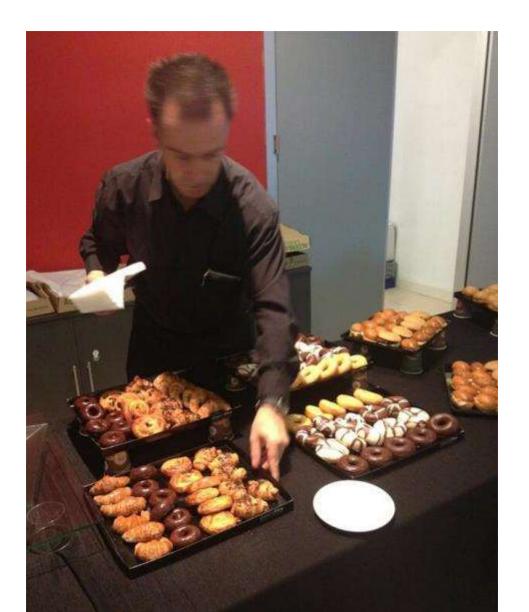


\$79 for individual members (\$99 for non-members). Tables of 8 are available.

Register Now:

Visit bot.com/events or call 416.862.4500

Food Break at the Medical Conference





Advice to McDs Employees



This is Real







Best Advice Ever!

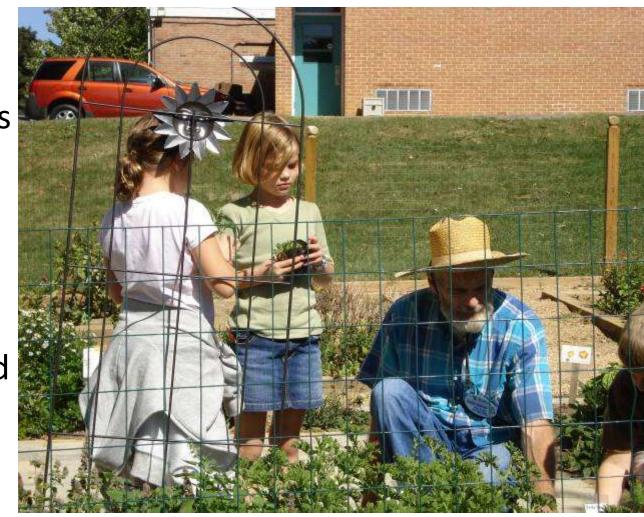
Insert Caption......



The Promise of Place Based Learning

"To say this is my home and I care enough about it is the essence of citizenship"

Peter Forbes
Trust for Public Land



TRYTHIS Encourage food preservation

 Every year, Margo Davis of Rock Cave preserves a cellar full of vegetables, fruits, and meats. "Most of our greatgrandmas knew how to do it all,"



TRYTHIS Grocery stores: Feature

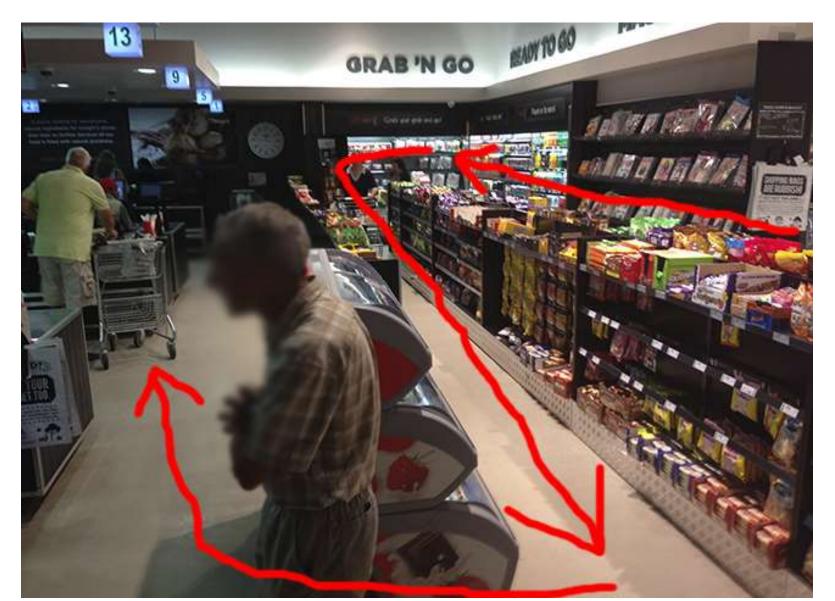
healthy items

 "I never expected it to be this successful, but I love it that it is," said Parkersburg Foodland manager Dave Worst of the healthy checkout aisle in his store





On your way to check out



TRYTHIS Healthy cooking classes

 Karin Kozlowski, **WVU Extension Nutrition Outreach** worker, helped design a month-long course at a food pantry, teaching people how to cook fresh food on a food stamp budget



TRYTHIS Teach people to read labels

 Kanawha County WIC employees conducting tour or a local Kroger store, helping participants learn to read labels and compare similarly-priced brands



12 oz Cola (or Juice/Sports Drink)= 10 tsp sugar



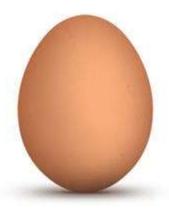
ALL AMERICAN SUB WHOLE SANDWICH

Packed On		
A Company of the Comp		Sall By
Sep. 19.12@11:32		Sep.20.12
Quantity	Unit Price \$/Pcs	Total Price
-1	6.9900	d con
		\$ 0.99

ENRICHED UNBLEACHED WHEAT FLOUR (WHEAT FLOUR, MALTED BARLEY FLOUR, NIACIN, IRON, THIAMIN MONONITRATE, RIBOFLAVIN, FOLIC ACID). WATER, BEEF, WATER, SALT, POTASSIUM LACTATE, DEXTROSE, SOY PROTEIN CONCENTRATE, SALT, POTASSIUM LACTATE, SODIUM PHOSPHATE, NATURAL FLAVORING, SODIUM DIACETATE. RUBBED WITH: SALT, DEXTROSE, CARAMEL COLOR, HYDROLYZED SOY PROTEIN, ONION & GARLIC POWDER. EXTRACTIVES OF SPICES.HAM.CURED WITH: WATER.DEXTROSE.SALT. SODIUM PHOSPHATES, SODIUM ERYTHORBATE, SODIUM NITRITE, TURKEY BREAST MEAT, TURKEY BROTH, MODIFIED FOOD STARCH, SALT, SODIUM PHOSPHATE, CARRAGEENAN, FLAVORING, TOMATOES, SOYBEAN OIL, EGG YOLKS, WHOLE EGG, WATER, DISTILLED VINEGAR, SUGAR, SALT, LEMON JUICE CONCENTRATE, CALCIUM DISDOUM, NATURAL FLAVORS. LETTUCE, AMERICAN CHEESE (MILK, CHEESE CULTURE, SALT, ENZYMES), WATER, DRY CREAM. MILKFAT, SODIUM PHOSPHATES, SALT, SORBIC ACID, ANNATTO, DLEGRESIN PAPRIKA COLOR, AMERICAN CHEESE (MILK, CHEESE CULTURE, SALT & ENZYMES), WATER, DRY CREAM, MILKFAT, SOCIUM PHOSPHRTES, SALT, SORBIC SALT, MUSTARD BRAN, TURMERIC, NATURAL FLAVOR, PAPAIKR, FRENCH BASE DIGLYCERIDES (DATEM), ENZYMES, SOVERN DIL ASCORBIC ACID SALT.

1132

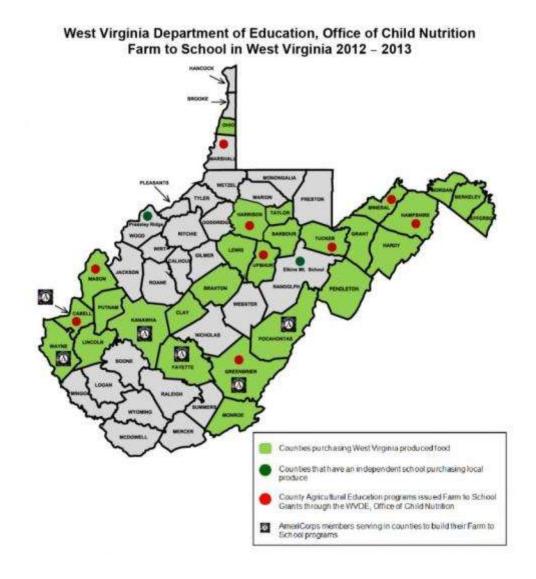
INGREDIENTS OF AN ALL-NATURAL EGG



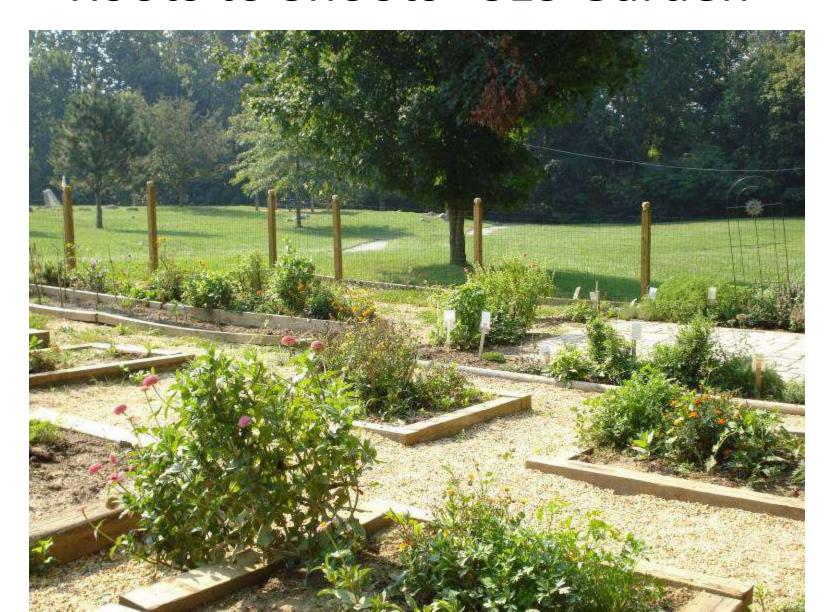
INGREDIENTS: AQUA (75.8%), AMINO ACIDS (12.6%) (GLUTAMIC ACID (14%), ASPARTIC ACID (11%), VALINE (9%), ARGININE (8%), LEUCINE (8%), LYSINE (7%), SERINE (7%), PHENYLALANINE (6%), ALANINE (5%), ISOLEUCINE (5%), PROLINE (4%), TYROSINE (3%), THREONINE (3%), GLYCINE (3%), HISTIDINE (2%), METHIONINE (3%), CYSTINE (2%), TRYPTOPHAN (1%)); FATTY ACIDS (9.9%) (OCTADECENOIC ACID (45%), HEXADECANOIC ACID (32%), OCTADECANOIC ACID (12%). EICOSATETRAENOIC ACID (3%), EICOSANOIC ACID (2%), DOCOSANOIC ACID (1%), TETRACOSANOIC ACID (1%), OCTANOIC ACID (<1%), DECANOIC ACID (<1%), DODECANOIC ACID (<1%), TETRADECANOIC ACID (<1%), PENTADECANOIC ACID (<1%), HEPTADECANOIC ACID (<1%), TETRADECENOIC ACID (<1%), HEXADECENOIC ACID (<1%), EICOSENOIC ACID (<1%), DOCOSENOIC ACID (<1%), OMEGA-6 FATTY ACID: OCTADECADIENOIC ACID (12%), OMEGA-3 FATTY ACID: OCTADECATRIENOIC ACID (<1%), EICOSAPENTAENOIC ACID (EPA) (<1%), OMEGA-3 FATTY ACID: DOCOSAHEXAENOIC ACID (DHA) (<1%)); SUGARS (0.8%) (GLUCOSE (30%), SUCROSE (15%), FRUCTOSE (15%), LACTOSE (15%), MALTOSE (15%), GALACTOSE (15%)); COLOUR (£160c, E160a), E306, E101; FLAVOURS (PHENYLACETALDEHYDE, DODECA-2-ENAL, HEPTA-2-ENAL, HEXADECANAL, OCTADECANAL, PENTAN-2-ONE, BUTAN-2-ONE, ACETALDEHYDE, FORMALDEHYDE, ACETONE); SHELL (E170), ALSO CONTAINS BENZENE & BENZENE DERIVATIVES, ESTERS, FURANS, SULFUR-CONTAINING COMPOUNDS AND TERPENES.

TRYTHIS Expand Farm to School program

- West Virginia schools spend more than \$80 million each year on school meals
- If the schools bought a tenth of that locally, West Virginia farmers would make \$8 million



"Roots to Shoots" SES Garden



Building the Fitness Trail-Page Jackson Elementary School

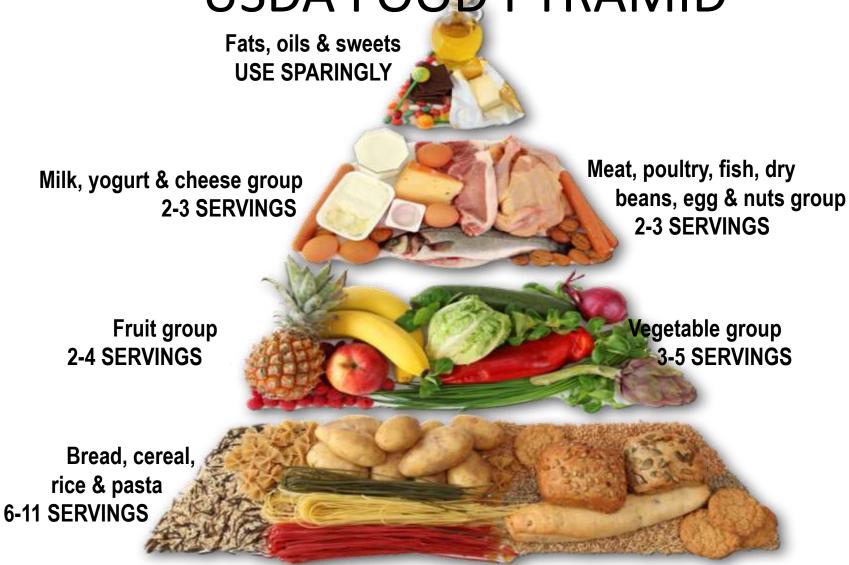


TRYTHIS Check your food pantry offerings

 Jefferson County Community Ministries community garden keeps volunteers busy growing food for the food pantry boxes and cooking classes



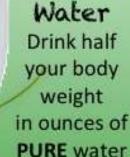






The Ideal Meal





daily.

Vegetables

- All Leafy greens
- Brussel Sprouts
- Broccoli
- Cauliflower
- Onions/Garlic
- Bell Peppers
- Asparagus
- Eggplant
- Cucumber
- Cabbages
 Choose local/organic
 whenever possible

Proteins

- Wild Salmon
- Wild Seafood
- Eggs
- Chicken
- Turkey
- Beef
- Venison
- Bison
 Choose pasture
 raised/organic
 whenever
 possible.

- Eat every 3-4 hours to keep your metabolism going and to avoid blood sugar ups and downs.
- Eat carbs early in the day when you will be able to burn them off.
- Eat a balance of protein, healthy fats and generous serving of non-starchy veggies at every meal for maximum energy.

Fats

- Animal fats
- Coconut oil
- Free range eggs
- Butter
- Avocado
- Nuts & Seeds
- Nut butters
- · Olives & Olive Oil

Carbs

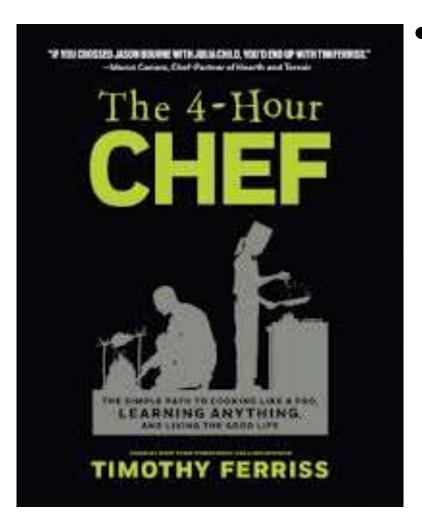
- Fruits
- Potato's
- Sweet potatoes
- Brown Rice
- Properly prepared grains
- NON GMO corn

Harpers Ferry Massage and Wellness.com

Safe Dessert- DARK Chocolate



you lose *pounds* in the *kitchen* and *ounces* at the *gym*



 A generation is being raised that does not know how to cook



WVU MedCHEFS



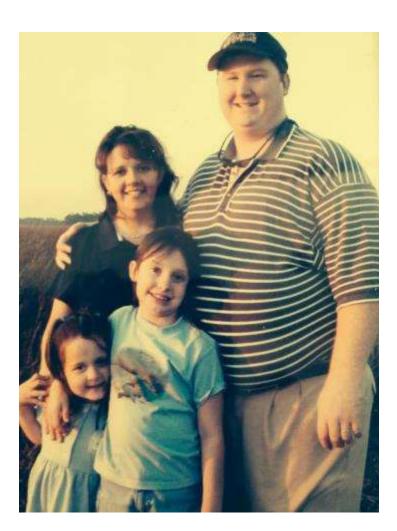
Join Them After the Show



Learning the Art Lily age 8 with Grandma Age 86



Dr James Murray- My Hero





Where Do We Go From Here?

EAT REAL FOOD MOVE MORF DO IT LOCAL

This is You Change Agents

"Never doubt that a small group of thoughtful committed citizens can change the world. Indeed, it's the only thing that ever has."

Margaret Mead



Our Kids and Future Depend on Us





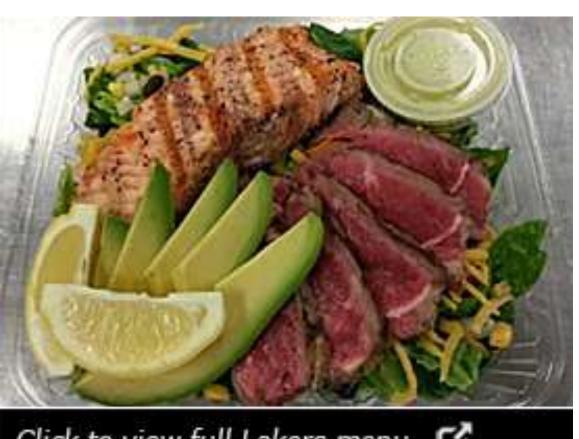
MLK Jr (Apr 3 1968: his last speech)

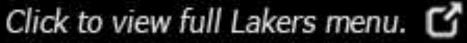
"Like anybody, I would like to live a long life. Longevity has its place. But I'm not concerned about that now. I just want to do God's will, and He's allowed me to go up to the mountain. And I've looked over. And I've seen the promised land."

https://www.youtube.com/watch?v=lcAl4evw
 K3o

- https://www.youtube.com/watch?v=aCUbvO wwfWM
- https://www.youtube.com/watch?v=8EeYTBa G3Oc

LA Lakers and Grass Fed Tim

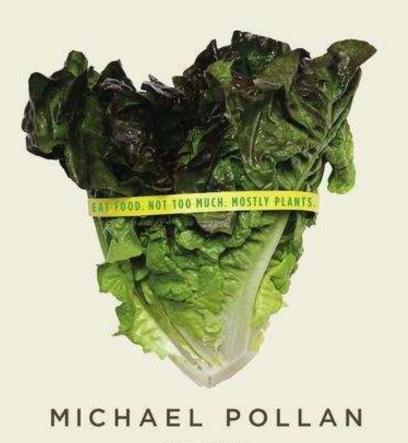






OF FOOD

AN EATER'S MANIFESTO



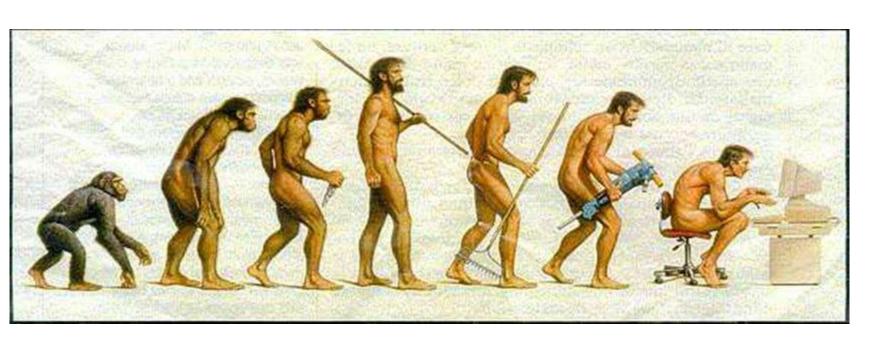
AUTHOR OF
THE OMNIVORE'S DILEMMA

- Become a Locavore!
- Farmer's Markets
- CSA
- Local Grocers

"Let thy food be thy medicine and thy medicine be thy food" Hippocrates, 480 B.C



Don't Sit on your @#\$ and be passive



The Body is Like A Grandfather Clockgot to wind it up every day Walter Bortz MD

