In 2012, 98% of US spring and durum wheat were treated with glyphosate: its antibiotic action appears to explain how glyphosate enters the bloodstream causing celiac disease and gluten sensitivity. 1-3

FOODS with GMOs and GLYPHOSATE:

• GMOs: over 90% of USA corn, soy, canola, sugar beets and cotton. Also alfalfa, some potato, apple and tobacco; aspartame; yeast in wine (soon beer) and veggie burgers; many food flavorings and other additives; growth hormones in much of cows’ milk, dairy foods and some salmon. 8

• Often glyphosate-sprayed pre-harvest: wheat, barley, oats, sweet potatoes, cane sugar, beans, lentils, chickpeas, sunflower seeds, fruits, nuts. 6-8,12

• Derivative products such as high fructose corn syrup (in sodas, power drinks, candy, baked goods); ‘fake’ meats, food extenders, soy infant formula, pet food, organic protein, lecitin; bread, cereal, crackers, pasta; cotton products, tampons; corn-soy-canola-cotton seed vegetable oils, etc. 9,13,14

• Most sugar from non-organic sources.

• Most products of farm animals raised or finished on non-organic feeds.

WHY NOT RETURN TO TRADITIONAL, SAFE AND LOCAL FOODS

• The kitchen and the lunchbox. (For goodness sake).

• Diverse food gardens everywhere. (Mowing to Hoeing).

• Frozen and fermented food. (Share root cellar & freezer space).

• Backyard heritage chickens. (Fresh eggs, meat, plus tick control).

• Community gardens, greenhouses, buying clubs, CSA’s (Neighbors).

• Real family farm economy of the past. (Goodbye, factory “farms”).

• Most products of farm animals raised or finished on non-organic feeds.

WHY NOT PROMOTE THESE FOOD BUSINESSES

• Heritage, organic, sourdough wheat bakeries (Homegrown & ground).

• 100% grass-fed organic yogurt, kefir, cheese (Ferment milk).

• Fermented vegetables, apple cider vinegar (Yes, beneficial bacteria).

• Probiotics & mineral solutions for honeybee & pollinator health.

• Real farm feed for real farm animals.

• Most products of farm animals raised or finished on non-organic feeds.

• Small, bio-diverse family farms using ecological methods can feed the world.

• Probiotics & mineral solutions for honeybee & pollinator health.

• Most products of farm animals raised or finished on non-organic feeds.
Of all herbicides, Roundup’s glyphosate is the:

**MOST BROAD-SPECTRUM**
- Glyphosate poisons by immobilizing 11 minerals, such as calcium and iron, which, in turn, prevents the uptake of other minerals. 1, 2, 2a
- Sprayed crops eaten by farm animals and humans are mineral deficient. 1, 2, 2a
- As an antibiotic, glyphosate preferentially kills beneficial bacteria as those used in fermenting vegetables, yoghurt, beer, and wine. 1, 3
- This antibiotic action slowly leads to “nutrient deficiency, chronic intestinal diseases, inflammation, and autoimmune diseases.” 10
- Glyphosate went off patent in 2000 and there are now many glyphosate-based herbicides besides Roundup®.

**MOST PERSISTENT**
- Glyphosate is a systemic poison, so can’t be washed off. It moves throughout the entire plant and into the soil through its roots. It is found in:
  - Surface and well water, rain, air, soil, sprayed foods. 1, 4
  - GMO crops, and many non-GMO crops sprayed beforehand. 3 (2007)
  - Most farm animal feed and products (meat, eggs, dairy, gelatin). 1, 2
  - Gelatin dessert, protein powder, both children’s vitamins and painkiller containing gelatin from animal cartilage/bones. 1 (Pathways to Disease)
  - Vaccines incubated in gelatin, as MMR (measles) & others. 2 (Pathways to Disease)
  - Animal manure used as fertilizer on organic & conventional crops. 1
  - Honey and in the tissues of honeybees. 10, 10 (p 143)
  - Infant formula, breast milk, baby cereal, and cotton (tampons, sterile gauze). 1, 3

**MOST UNTESTED**
- The USDA, FDA, and EPA accept Monsanto’s own unpublished, confidential safety testing on glyphosate and GMO tests for over 40 years. 6, 10
- EPA has oxygenated glyphosate from annual compliance tests for over 40 years. 6, 10
- Other ingredients in Roundup® greatly increase its toxicity. 10 (p 142)
- EPA does not test mixtures of chemicals for combined effects. 6
- FDA increased levels of glyphosate allowable in foods in 2013. 1, 3

**FALSE PROMISES of GMOs**
- GMOs were claimed to be the same as traditional plant breeding and traditional food. They would increase yields, reduce pesticide use, deliver useful traits, and feed the world. But...
  - Traditional crossing of like plants is not the same as insertion of multiple foreign genes (transgenes) from non-plants. 3
  - GMO, conventional, and organic soy are different regarding vitamin, fat, protein, and mineral content. 10, 10 (p 143)
  - Sprayed crops eaten by farm animals and humans are mineral deficient. 1, 2, 2a
  - Honey and in the tissues of honeybees. 10, 10 (p 143)
  - The GM Bt toxin crop itself is a pesticide, registered as such by the EPA. 1b
  - 99% of GMOs have two traits: Roundup Ready (absorbs the herbicide) and Bt toxin (contains an insecticide). Com can have both traits, “stacked”.
  - New GMO traits to tolerate the poisons Diacamba and 2,4-D (in addition to Roundup®) are used to combat new super-weeds. 2,4-D (in Agent Orange) contains potent dioxins, like TCDD. 9b, 78
  - Small ecological farms worldwide can best feed the world. 10, 10 (p 126, 15)

**FLAWED SCIENCE of GMOs**
- This technology is based on the false premise that one gene controls one trait. But one gene controls many traits, interacting with minerals, enzymes, and environmental factors like stress, poisons. 3
- Research is needed into potential hazards of adding transgenes to food (virus, bacteria and antibiotic-resistant transgenes, as well as trait transgenes for Roundup® tolerance and for Bt insecticide). 12b, 13b
- No safety studies have yet been completed on GMO foods and humans. 10, 10 (p 111, 114)
- Proof of falsified industry studies and hidden risks re GMOs and glyphosate is public (30+ years of Monsanto emails to the EPA, et al, were released via lawsuit by cancer victims; ~4000 lawsuits pending in US). 6, 14

**KNOladen POTENTIAL RISKS of GMOs**
- Both GMOs & glyphosate are toxic to the kidneys and liver. 1, 2, 2d, 10, 10 (p 142), 8b, p7
- Inflamed stomachs (pigs) and gaps in stomach lining (rats) that can cause leaky gut, infections and allergies. 4
- The virus transgene has been found in the DNA of rats fed GMOs. 12
- The antibiotic-resistant transgene has been found in polluted water. 13a, p31
- GMO transgenes have been found in human feces. 13a
- Potential hazards include: uncontrollable mutations, new viruses and allergies, and spreading antibiotic resistance. 13a, 13b
- New apple, potato and mushroom varieties have “silenced” or “edited” genes to preventewing. There is evidence that this latest gene-altering process survives digestion in animals and humans. 10, 10 (p 129, 138)