

Eating Colorful Foods: Anti-Oxidants vs Free Radicals

Source: USA-Swimming Official Website

What are the first three foods that come to mind when we say “carbohydrate?”

1. Pasta
2. Rice
3. Bread

Each of these is excellent. But what do they have in common? They’re all white!

One of the most overlooked sources of carbohydrate is fruit. Yes, FRUIT. Fresh, canned, frozen, dried or juiced. No matter how you look at it, fruit is an excellent source of carbohydrate. Not only does fruit provide carbohydrate in the form of natural sugars (versus refined sugar), the bright colors of fruits indicate that they are also excellent sources of vitamins and minerals, including a sub-group called **anti-oxidants**.

You might recall that exercise is the stimulus that leads to training adaptations. And that adaptations to training occur ONLY if you give the body the right kinds of fuels during periods of rest.

Well, one of the side effects of exercise is the generation of “*free radicals*.” Free radicals are molecules that can actually cause damage to muscle tissue above and beyond the damage caused by exercise. The damage caused by exercise is normal. It serves as part of the stimulus for training adaptation to take place. But damage caused by free radicals is NOT a desired part of the training process. Damage caused by free radicals (aka “scavengers”) circulating in the bloodstream after workout can continue well into the recovery period. This is when the body is supposed to be adapting!

Anti-oxidants “absorb” free radicals, neutralizing their effect in the body before their damage to muscle tissue can amount to much. A diet consistently rich in fruits (and other colorful foods, such as VEGETABLES) is apt to keep the body consistently supplied with anti-oxidants, which will assist the body in keeping free radical formation to a minimum. This is a good reason to eat lots of colorful foods during the recovery time between workouts.

Colorful foods include, but are not limited to:

Apples, Strawberries, Blueberries, Bananas, Oranges, Kiwi, Watermelon, Raspberries, Grapes, Mango, Corn, Papaya, Apricots, Red Peppers, Broccoli, Squash, Carrots, Peas, Green Beans, Tomatoes

Colorful foods DO NOT include: Skittles, Jelly Beans, M&Ms, and Fruit Loops!