### THE IMPORTANCE OF PREBIOTICS AND PROBIOTICS

By Frances S. Hilliard, RN, MS Professor Emerita, Nassau Community College

This term refers to the trillions of micro-flammation or infection. organisms living inside the human body with new evidence rapidly emerging.

What foods we take in has a significant grilled chicken. role in the exact composition of intestinal acids, chemicals which seem to improve proved mood. regulation of body weight, blood sugar ence kidney function.

substances which – as noted above – have being consumed. healthful benefits. Feeding intestinal flora One instance where you might want to Damage to the intestinal lining can put allowing "bad" bacteria to grow un-

(often referred to as flora). By far, most should be consumed through diet rather can lessen the incidence and severity of of these microbes reside deep within the than by taking a supplement. Supple- antibiotic-associated diarrhea. intestinal tract, chiefly the colon (or large ments are quite costly and there is no conintestine). The resident flora of your in- crete proof that they are beneficial. Foods the FDA as foods, not as medications, so testinal tract assists with the digestive rich in prebiotics include garlic, onions, be cautious when purchasing suppleprocess, manufacture certain nutrients beans, asparagus, dandelion greens, and ments. Ask your health care provider if (including vitamin K and some of the B Jerusalem artichokes. Bananas provide taking probiotics is right for you. Some vitamins), and release substances that prebiotics only when they are not ripe. A individuals with immune system probplay a part in overall health (such as help-fiber called "resistant starch" is also sug-lems or other serious health problems ing to regulate metabolism and immune gested, and can be found in oats, potatoes, should not take them. Some relatively response). Researchers are finding a com-rice, and pasta that has been cooked and minor side effects may happen when takplex relationship between these intestinal cooled. Try making a healthy potato or ing probiotic supplements: upset stomach, microbes and most other body systems, pasta salad, or serving cold, cooked rice mild diarrhea, gas, and bloating. These over a base of greens, vegetables, and symptoms generally appear during the

flora. For instance, when these microbes live microorganisms that have been found lergic reactions can occur. feed on choline, a nutrient found in red to be good for intestinal health. Dozens of meats, fish, poultry, and eggs, a metabo- different probiotic bacteria exist, but the tute for medical advice, diagnosis, or lite called TMA is formed. TMA is then two most common groups are Lactobacilconverted by the liver to a substance lus and Bifidobacterium. Besides im-vice of a health care practitioner for any strongly associated with the formation of provement of digestive processes, these questions or concerns you may have plaque in the arteries. A more positive bacteria are being linked to decreased about your medical condition or treateffect results from eating a high fiber diet, incidence of bowel inflammation, better ment. which may enhance the growth of intesti- regulation of blood sugar levels, denal bacteria that produce short-chain fatty creased cholesterol levels, and even im- Gunnars, Kris, BSc. "Probiotics 101: A

As with prebiotics, scientists say that Newsletter, June, 2017. levels, and blood pressure. Current re- natural dietary sources of probiotics are www.healthline.com/nutrition/probioticssearch is investigating how high sodium generally better than supplements. Natu- 101 intake changes the composition of intesti- ral sources contain a greater variety of nal flora, the interaction of microbes and bacteria than found in supplements, and "Healthy Gut, Healthy Heart?", Harvard vegetables that may help relax blood ves- this diversity helps create a better bacteri- Heart Letter, Vol 28, No 10 (June, 2018). sels, and how these microbes may influ- al ecosystem in the body. Also, it is im- www.health.harvard.edu portant that these "good" bacteria are What are *prebiotics?* They are not liv- alive and well when ingested. Bacteria "Probiotics: In Depth", National Instiing organisms, but rather a form of solu- found in foods such as yogurt, kefir, sauble, fermentable fiber. The fiber found in erkraut, kombucha, and kimchi, for inprebiotics cannot be digested in the stom- stance, feed on the carbohydrates surach, which allows these nutrients to pass rounding them, helping them stay alive introduction/htm into the intestinal tract unchanged. Once until you consume them. The bacteria in there, the fiber is utilized by intestinal supplements do not have anything to feed Semeco, Arlene, MS, RD. "The 19 Best

with this fiber is vital in another way. take probiotic supplements is when you prebiotic-foods Without enough of these prebiotics, intes- have been prescribed antibiotics. Antibitinal bacteria will look elsewhere for nu- otic therapy, especially for a prolonged trients, and it is thought that they will in- period of time, destroys many of the bengest the mucous lining of the intestine. eficial bacteria, shifting the balance and

Have you heard about the microbiome? the body at greater risk for intestinal in- checked. Diarrhea is a common side effect of this process, and evidence is Experts recommend that prebiotics strong that taking probiotic supplements

> Probiotic supplements are regulated by first few days after starting supplements And now on to *probiotics*, which are and wear off with time. In rare cases, al-

> > This column is not intended as a substitreatment. You are urged to seek the ad-

### REFERENCES

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### Shopping & travel benefits designed for NYSUT members

NYSUT members and their loved ones have access to dozens of endorsed shopping, travel & personal programs available through NYSUT Member Benefits. And unlike with purchasing products available to the general public, there's no need to go it alone when Member Benefits has your back.

Member Benefits acts as your advocate for any program you participate in, and we'll do our best to quickly resolve any issues or concerns you may have. Whether you are participating in one of our shopping/entertainment/travel offerings; auto, homeowners or life insurance plans; or financial or legal services, NYSUT members have the **"Power of the Union"** behind them.

### The following is just a small sampling of the endorsed programs available to the NYSUT membership.

### **Purchasing Power Member Shopping Program**

Are you looking to purchase a new laptop computer, washer/dryer or refrigerator? The Purchasing Power Member Shopping Program allows NYSUT members to purchase products such as these and many more while paying for them through the ease of payroll deduction or ACH withdrawals. NYSUT members save 20% on their first order with Purchasing Power.

### **Abenity Discounts**

Seeking exclusive member discounts on tickets to the latest blockbuster movies or theater events, the hottest concerts & sporting events, or the coolest theme parks & attractions? NYSUT members have access to thousands of nationwide and local discounts with the Abenity Discounts program. Abenity also offers an app for iPhone or Android smartphones available at no charge.

### **Grand Circle Travel**

The Grand Circle Cruise Line & Grand Circle Travel program is committed to providing international travel, adventure and discovery opportunities that offer impactful and intercultural experiences. This program offers NYSUT members and their loved ones the opportunity to save \$100 per person on tours or receive a discounted rate on specific trips if acting as a group organizer.

### **Cambridge Credit Counseling**

NYSUT members are eligible to receive free, noobligation debt and student loan consultations with one of Cambridge's certified counselors. Cambridge also offers a unique web portal available at a reduced rate that can help explain the various options when paying down student debt, including student loan forgiveness programs, income-based repayment options and more.

### The Power of the Union

To learn more about Member Benefits-endorsed programs & services, visit *memberbenefits.nysut.org* or call **800-626-8101**.



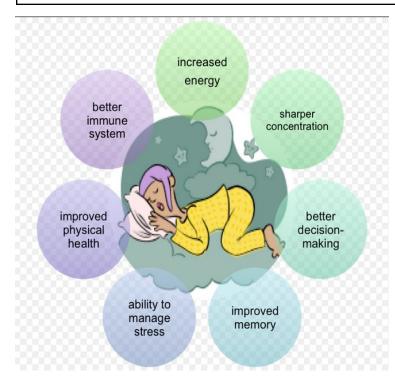
For information about contractual endorsement arrangements with providers of endorsed programs, please contact NYSUT Member Benefits.

Nov./Dec. 2018

### **RC39** Website

Check out RC39 website http://rc39.ny.aft.org/ where you can read recent NYSUT RC39 newsletters in color, AFT and NYSUT news releases, and much more.





### YOUR HEALTH CONNECTION

By Frances S. Hilliard, RN, MS Professor Emerita, Nassau Community College

As we age, "a good night's sleep" may become more difficult to achieve. And not getting enough sleep is proven to have significant negative effects on health. For example, if you don't sleep well, there is a rise in the hormone *ghrelin*, which makes you hungrier, while the hormone *leptin*, which signals when you're full, tends to drop. These changes not only alter your hunger cues and eating patterns, but may also slow your metabolism.

Sleep can't be stockpiled, so spending extra time in bed on weekends does not help. Most technological devices emit a blue light that suppresses melatonin and makes you less sleepy. Shut off your electronics at least thirty minutes before bedtime. Try to maintain a consistent bedtime each day, and start a routine to help you relax before then. Reading, meditation, or a warm bath often work.

### A more secure retirement

Union workers are more likely to have employer-provided pensions than non-union workers. Meanwhile, in 2012, 77 percent of union members were covered by defined-benefit pensions, as compared to less than 20 percent of non-union workers.

Information provided by the Center for American Progress, the Bureau of Labor Statistics, UC Berkeley Labor Center, Labor Project for Working Families, the Center for Economic and Policy Research and Employee Benefits Research Institute.



### RC39 needs member participation

RC39 President Pete Herron

The RC39 newsletter is by and for its members. All members are encouraged to submit (email preferred) an article. The article can be a creative writing piece, something on a retiree issue (union, health insurance, pending legislation, etc.), travel, hobbies, volunteer activities, or whatever you think would be of interest to RC39 members.

RC39 needs new leadership. All RC39 deliberations are done by email. Members can request to be placed on the RC39 officer email list. Everyone on the list will be able to participate in all email discussions. Only elected officers will be able to vote. This is a great way to learn what is involved in being a RC39 officer.

You can contact me at <u>rc39pete@optonline.net</u>, or 98 Rocky Point Landing Rd., Rocky Point, NY 11778. Looking forward to hearing from you.

### **Retiree Council 39 Board of Directors**

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Send your comments, suggestions, and inquiries to NYSUT RC39 Officers, 98 Rocky Point Landing Rd., Rocky

Point, NY 11778 or rc39pete@optonline.net.

# RC39 Newsletter is looking for comments, suggestions and articles from its members.



Send your comments, suggestions, or article to Peter Herron at rc39pete@optonline.net or mail to 98 Rocky Point Landing Road, Rocky Point, NY 11778. Your article will be published when space is available. RC39, NYSUT, and AFT news will be given priority.

## Address Change

FLORIDA OR BUST

Do not let a new address keep you from receiving NYSUT RC39 newsletters. There are three ways to update your address. Contact NY-SUT Member Records at 1-800-342-9810 ext. 6224. Send written changes to: NYSUT Member Records, 800 Troy-Schenectady Road, Latham, NY 12110, or e-mail changes to memberec@nysutmail.org. If you are a snowbird, give Member Records a few weeks notice to change its address records each way.

### Have you paid your voluntary RC39 contribution for 2018?

If you have not sent in your voluntary NYSUT RC39 annual contribution, now is as good a time as ever. Just send your check along with the form below to the RC39 treasurer. It is your contributions that enable RC39 officers and delegates to represent you at NYSUT conferences and meetings.

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