PRODUCE FOR® BETTER HEALTH FOUNDATION

FRUITS + VEGGIES = IMPROVED GUT HEALTH The Formula For Better Health & Happiness



Presented by Dr. Lara Ramdin Chief Innovation Officer Dole Sunshine Company





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ABOUT PBH

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OUR PURPOSE

The Produce for Better Health Foundation (PBH), a 501(c)3, is the only national non-profit organization 100% dedicated to helping people live happier, healthier lives by eating and enjoying more fruits and vegetables, in every form, each and every day.

PBH, along with its strategic partners, will elevate new fruit and vegetable consumption behaviors as a national priority – *accelerating growth and serving the public good*.

THE AWARD-WINNING HAVE A PLANT® MOVEMENT REACHES MILLIONS

The award-winning Have A Plant® Movement is a way to inspire lasting behavior change by tapping into the emotional connection consumers have to the fruit and vegetable eating experience.

PBH is an undeniable resource for health & wellness professionals, given its trusted third-party credibility, breadth of nutrition and behavioral research, and strong consumer, influencer and industry reach.





500 Million social media impressions 700 Million traditional media

have a

impressions

Have a Plant®: The Plant-Forward Eating Guide

Insights, Ideas & Inspirations for Plant-Passionate Professionals

Find the guide at: <u>www.fruitsandveggies.org/plantforwardguide</u>

Turnkey resources are also available to put your plans into action at: <u>www.fruitsandveggies.org/plantforwardtoolkit</u>





The 2020 PBH State Of The Plate Research Toolkit Provides Health & Wellness Professionals With Helpful Resources.

PUBLIC TOOLKIT

PBH State Of The Plate Research Toolkit with executive summary, key messages, consumer marketing and social media assets as well as activation ideas

fruitsandveggies.org/ stateoftheplatetoolkit



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Housekeeping

1 CPEU available through the Commission on Dietetic Registration (CDR) You will receive a link to the certificate of attendance, the webinar recording and PDF of the presentation within 48-72 hours.

Type your questions and/or comments into the Q&A section located at the bottom of your screen at any time during the webinar.

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TODAY'S SPEAKER

Dr. Lara Ramdin Chief Innovation Officer **Dole Sunshine Company**



Agenda

- > Gut health and it's role in overall well-being
- ➢ Plant-based diversity is KING (or Queen ☺)
- > Throw away the calorie counter





You can't change your genes, but you can modify your microbiome

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What is the microbiome?



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Good gut health starts...in the ground...







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Gut-health positive foods growing in popularity



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A word on postbiotics





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Consumer behaviors are shifting



MACRO CONSUMERS' BEHAVIOURAL SHIFTS







Personalized Nutrition High Motivation to Achieve personal health & wellness goals

Self Care & Comfort Through Permissible Indulgence

Pro Active and evergrowing concern on Immunity

Conscious Buyers Good for All Desire for Functionality Additional Benefits

CHILL

PROTECT

HU de PLAY



Consumers are taking charge of their own health through personalization







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The future is now: personalization & digital nutrition/e-health is evolving fast – it's a when not an if





Time

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The future is now: a burgeoning nutrition, health and wellness market is real



SMALL WORLD: 20+ STARTUPS TARGETING THE MICROBIOME





KNOW

STIR

RHONE



Harnessing the power of plant-based nutrition is central to overall well-being

- The American Gut Research Project gathered microbiome samples from 10,000 people (UK&US) and found those who eat around <u>30 different plants</u> / week have a greater gut microbial diversity than those who just eat ten.
- Unsurprisingly, the microbial diversity from recent antibiotic takers was drastically reduced
- Two distinct Western populations contributed to the study - significant differences in the diversity of the samples were detected; People in the UK seemed to harbor a more diverse collection of microbes
- The link between the composition of the microbiome and people with depression was confirmed. The samples provided, proved to be consistent in the US and UK populations. This shows that the microbiome and disease strongly influence each other, independent of the environment the person lives in.



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30 plants a week includes:





Plant-based nutrition - proven to be the most influential factor on the health and diversity of the microbiome







February 19, 2020 7 min read

Opinions expressed by *Entrepreneur* contributors are their own.

The following article is based on excerpts from Ben Angel's book, Unstoppable: A 90-Day Plan to Biohack Your Mind and Body for Success. Buy it now from Amazon | Barnes & Noble | iBooks | IndieBound. And be sure to order The Unstoppable Journal, the only journal of its kind based on neuroscience, psychology and biohacking to help you reach your goals.

Healthcare entrepreneurs have something in

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Healthy Town: Looking after our gut health

For most of us, looking after our gut health is relatively straightforward, but changes in your gut can be a sign that there is something going on which needs to be investigated

C Updated: Mon, Sep 24, 2018, 09:29





Sarah Noone, registered dietitian with the Irish Heart Foundation: "Our gut naturally contains trillions of bacteria to keep us healthy, however, sometimes they can be knocked out of balance for different reasons: Photograph: IStock





Unlocking the 'gut microbiome' - and its massive significance to our health

Scientists are only just discovering the enormous impact of our gut health -





A plethora of conditions, from obesity to anxiety.

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Plant-based nutrition is key to nurturing the gut brain axis



So what is the gut brain axis?



Diet is now officially recognised as a modifiable risk factor and treatment target for mental illness in the 2020 Australian Productivity Commission Mental Health Report



Depression. Can our microbes help?



The influence of the maternal microbiome





"The maternal microbiota is not a one-trick pony; it does more to shape the offspring's immune system than induce the production of antibodies that are shared with the newborn. By breaking down the food we eat, and molecules secreted by other resident microbes, intestinal microbes produce a wealth of metabolites with wideranging immune-modulatory functions. At least some of these are passed from parent to child during gestation and breastfeeding"

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Menopause and the microbiome

- During and post menopause, women experience a decline in oestrogen levels, which along with the normal ageing process alters the gut microbiome and reduces not only its diversity, but also that of the estrobolome.
- As we age our hormone levels change and this can affect our risk for disease, particularly during and after menopause.
- A fall in oestrogen levels is also associated with an increased risk of changes to metabolism, weight gain, cancer (e.g. breast cancer) and other chronic disease states including heart disease and diabetes.

https://www.symprove.com/blogs/community/the-oestrogen-gutaxis-and-menopause#_ednref5

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oestrogen levels





digestion

SIOWS

mass

the gut during

diet



changes to microbiota





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Forget caloric restriction, nurture the microbiome



"The actual calorific content of a meal can deviate 200 percent from the number on the menu"

Spoon-Fed

Myth

Nutritional guidelines and diet plans apply to everyone



Myth Gluten is dangerous



Myth Calories accurately measure how fattening a food is



Exercise will make you thin





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Diet is meaningless....if we don't get enough sleep



If you do one thing for your health today, go to bed earlier.

The key findings



Lead to raised blood

sugar levels

Poor sleep quality and

later bedtime routines



Which are worsened by sugary breakfasts

What does this mean for your health?

Choosing a nutritious breakfast after a poor night's sleep can minimise the impact on your blood sugar



If you go to bed late, sleeping in might not help your blood sugar response



Going to bed earlier is a totally free way to improve your blood sugar response the next day

Tsereteli, N., Vallat, R., Fernandez-Tajes, J. et al. Impact of insufficient sleep on dysregulated blood glucose control under standardised meal conditions. Diabetologia (2021). https://doi.org/10.1007/s00125-021-05608-y--



"Treat food as medicine that can have as much power to heal as drugs"

"It's a lot cheaper to put someone on three months of statins [to lower their cholesterol] than to figure out how to get them to eat a healthy diet," says Eric Rimm, a professor of epidemiology and nutrition at the Harvard T.H. Chan School of Public Health. But drugs are expensive—the average American spends \$1,400 a year on medications—and if people can't afford them, they go without, increasing the likelihood that they'll develop complications as they progress to severe stages of their illness, which in turn forces them to require more-and costly-health care."



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HELP SUPPORT FRUIT & VEGGIE CONSUMPTION!

If you enjoyed today's Health & Wellness webinar and would like to support our overall mission of increasing fruit and vegetable consumption, we encourage you to make a **tax-deductible donation** today.

As a 501(c)3 non-profit organization, your donation helps us deliver programing, including our monthly health and wellness webinars, actionable research, future-focused education, a comprehensive digital ecosystem, and inspirational resources that helps millions discover the joy of eating fruit and vegetables each and every day. **TOGETHER – with your support – we are creating happier, healthier lives!**

To donate, add the Donations app to Zoom: https://pldg.to/RiLcYw

Or donate with your phone: Text HAVEAPLANT to 707070 (US only)



JOIN THE MOVEMENT



Show your support by taking and sharing the Have A Plant[®] pledge at fruitsandveggies.org. While you're there, check out the useful resources to equip you with the tools you need to enhance your nutrition knowledge and empower consumers to enjoy more fruits and vegetables every day.

Follow PBH's social channels to keep up to date on all the insights and inspiration. #haveaplant





@fruits_veggies

@fruitsandveggies



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September is National Fruits & Veggies Month and each year we celebrate Have A Plant[®] during this monumental moment.

2022 is just around the corner, start planning now!

Find inspiration for keeping the celebration going with our 2021 National Fruits & Veggies Month Toolkit!



https://fruitsandveggies.org/nfvmtoolkit

A catalog of PBH's past webinars is available at <u>fruitsandveggies.org/expert-professionals/webinars</u>.

Continuing professional education units (CPEU) are available for live and pre-recorded webinars.





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THANK YOU

We live at the center of produce, partnership and passion.

WE ARE SO HAPPY YOU'RE WITH US!

