

Microbiome research, nutrition and social media: A messaging muddle

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Author's statement: The author declares having no conflicts of interest in the five years prior to this submission.







Twitter: @srmarcon



Many Facebook users say they do not know the platform classifies their interests, and roughly half are not comfortable with being categorized

% of U.S. adult Facebook users who say ____ after being directed to view their Facebook 'ad preferences' page

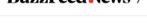
74% They did not know Facebook maintained this list of their interests and traits

51% They are **not comfortable** with Facebook compiling this information

27% The listings do not very or at all accurately represent them

Source: Survey of Facebook users conducted Sept. 4-Oct. 1, 2018. "Facebook Algorithms and Personal Data"

PEW RESEARCH CENTER



News - Posted on 19 May 2020

As The World Hopes For A **COVID-19 Vaccine, Anti-Vaxxers Are Growing Their Social Media** Influence

Social media analysis reveals a big spike in engagement on anti-vaxxer pages and accounts in the coronavirus pandemic.















BuzzFeed News has reporters across five continents bringing you trustworthy stories about the impact of the coronavirus. To help keep this news free, become a member and sign up for our newsletter, Outbreak Today.

JUNE 18, 2020

Misinformation Review

PEER REVIEWED

The causes and consequences of COVID-19 misperceptions: understanding the role of news and social media

We investigate the relationship between media consumption, misinformation, and important attitudes and behaviours during the coronavirus disease 2019 (COVID-19) pandemic. We find that comparatively more misinformation circulates on Twitter, while news media tends to reinforce public health recommendations like social distancing. We find that exposure to social media is associated with misperceptions regarding basic facts about COVID-19 while the inverse is true for news media. These misperceptions are in turn associated with lower compliance with social distancing measures. We thus draw a clear link from misinformation circulating on social media, notably Twitter, to behaviours and attitudes that potentially magnify the scale and lethality of COVID-19.

BY AENGUS BRIDGMAN

Munk School of Global Affairs and Public Policy, University of Toronto

ERIC MERKLEY

PETER JOHN LOEWEN



Teen has vaccinations after asking Reddit

() 11 February 2019



Ethan Lindenberger from Ohio asked social media site Reddit if he could have vaccines without parental consent.

His mother would not give her permission, he wrote in the post, which had thousands of reactions.

He learned he had to wait until he was 18 - which he did, and has now had five





Discussing non-invasive prenatal testing on Reddit: The benefits, the concerns, and the comradery

Alessandro R. Marcon, Vardit Ravitsky, Timothy Caulfield X

First published: 15 October 2020 | https://doi.org/10.1002/pd.5841

Go here for SFX

Funding information: Genome Canada

SECTIONS















Protecting, promoting, and supporting breastfeeding on Instagram

Alessandro R. Marcon, Mark Bieber, Meghan B. Azad X

First published: 05 August 2018 | https://doi.org/10.1111/mcn.12658 | Citations: 7

Go here for SFX

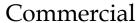
Attention economy

Keeping people creating and engaged Generating clicks and shares

Conte

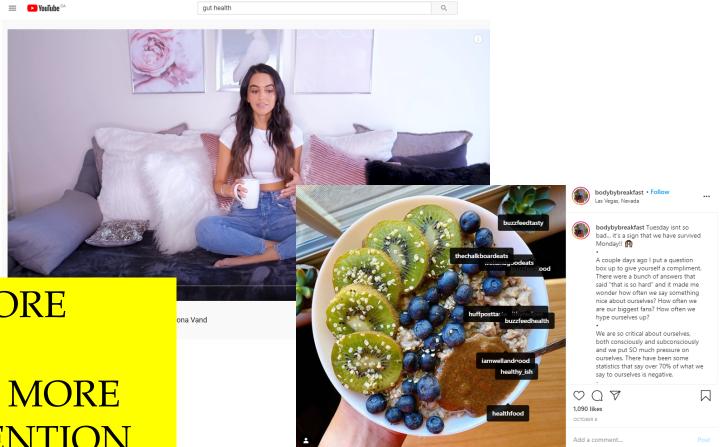
Advertising profiles

Content as product - users and corporations





Commercial? Product?



POPULARITY WINS! = MORE CLICKS AND MORE ATTENTION... LEADS TO MORE CLICKS AND MORE ATTENTION

CHILD Study awarded over \$9M through Genome Canada grant



posted in: Announcement, Grants | Q 0

The researchers will look for a way to predict which babies will go on to have asthma, based on the microorganisms living in their intestines. Knowing this, in turn, may enable the elaboration of new strategies to prevent asthma from developing in the first place.



Microbiome ————— Healthy Gut (#guthealth) ————

Marketing tool for products

What's an Unhealthy Gut? How Gut Health Affects You

Signs and symptoms | Treatment | Foods | The takeaway

Food Fix: Beat the Bloat

healthline

A rhetorical product that can be used by almost anyone

How to Nurture Your Gut Bacteria to Improve Your Mood and Health

Learn how your gut bacteria is linked to your overall mood and well-being. By David Perlmutter, MD, FACN, ABIHM



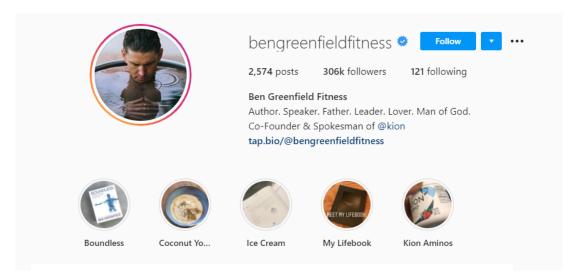












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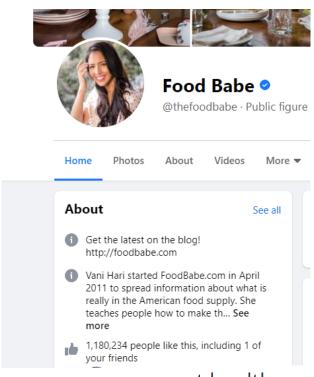


Healthy Gut, Healthy You: The Personalized Plan to Transform Your Health from the Inside Out Affiliate Disclosure



The Shocking Truth About Vaccinations: Everything You Need To Know About Vaccines And Your Health.

Affiliate Disclosure



gut health

Introducing Truvani's Glorious Gut Probiotic Supplement

By Food Babe







I'm a big believer that your overall (mind and body) health starts in the gut. After experiencing a health crisis and changing my diet, I found an incredible health practitioner who recommended I start taking a probiotic. They explained to me that this would help to restore healthy bacteria in my gut, which has a ... Read More >

The Importance Of Gut Bacteria In Pregnancy (and how we destroy it with modern practices!)

By Food Babe

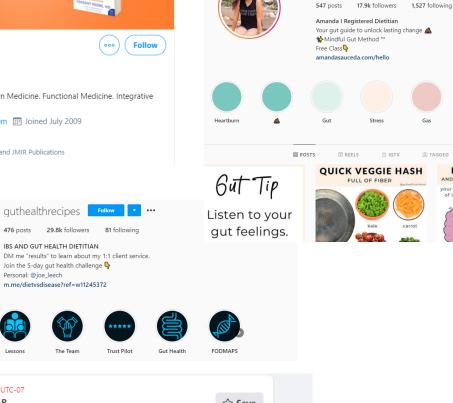


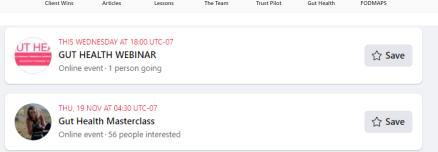


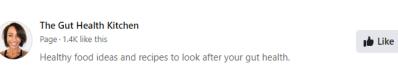


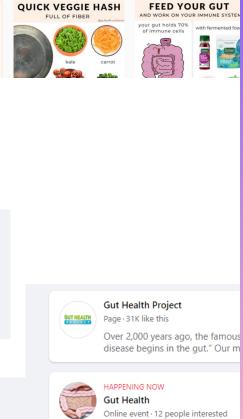










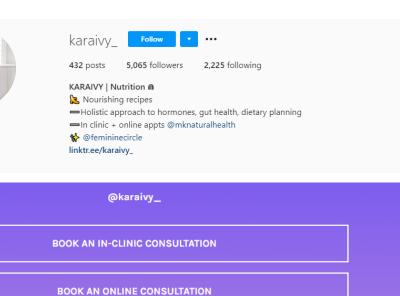


guthealth.nutritionist Follow ...

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REELS







BOTANIKA BLENDS PROTEIN POWDER DISCOUNT \$

BLOG: PCOS & ANXIETY

Get started NOW by Purchasing a meal plan

BLOG: Birth Control And Acne

Public health Original research

COVID-19 and 'immune boosting' on the internet: a content analysis of Google search results 8



Author affiliations +

We included the microbiome or gut health within our coding framework as it was frequently mentioned in relation to immune boosting. Over 30% (n=70) of webpages mentioned the microbiome or gut health, which was generally intertwined within the narrative of immune boosting, and emphasised its importance for overall health. For example, one webpage states, "Yoghurt is considered a probiotic that is essential to your immune system's health. It directly affects your gut, helping the good bacteria to thrive. Your gut health is directly associated with your immune system. Therefore, a healthy gut means a healthy immune system."

CONCERNS

- Commercialization of products and programs lacking evidence
- Weakening of scientific understanding
- Contribution to media noise that drowns out helpful information
- Weakening of the role of experts and expertise

October 18, 2019

Neglecting Major Health Problems and Broadcasting Minor, Uncertain Issues in Lifestyle Science

John P. A. Ioannidis, MD, DSc¹



What to do:

- Monitor online information critically
- Be aware of the specific bunk on specific topics in particular contexts
- Need engagement from experts!
- Help people be aware of misinformation
- Guide people towards better information
- Continual education
- Help counter misinformation (debunking information that is





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Effective Debunking:

- 1) Provide the science (yes, this works!)
- 2) Use clear & shareable content
- 3) Ref trustworthy & independent sources
- If possible, note scientific consensus (and that science evolves!)
- 5) Be nice, authentic, empathetic & humble
- 6) Consider a narrative (creativity wins!)
- 7) Highlight gaps in logic & rhetorical tricks
- 8) Make facts the hook (not the misinformation)
- 9) Remember the general public is the audience (not the hardcore denier!)



THANK YOU!