



Did You Know?

Anti-microbial Peptides from Human Microbiome

The human body houses a rich diversity of microbes. A variety of microorganisms including bacteria, archaea, viruses, fungi and mites reside in different areas of the human body. Currently, products produced by probiotic bacteria are employed as supplements owing to their importance in maintenance of the healthy microbiome.

- Human mouth has a rich microbial diversity, and there is a constant competition of the microbial residents to shape its community. Streptococcus mutans is one of the dominant naturally occurring bacterial populations, responsible for causing dental caries and also secreting compounds to inhibit gram-positive microorganisms.

- Nasal commensals can survive in a low nutrient environment. Study showed that Staphylococcus epidermidis produced a representative bacteriocins which had a strong antimicrobial activity against various pathogens.

- The human gut is home to trillions of microbes. They are involved in digestion of indigestible foods. Out of 70 bacteriocin produced from Lactobacillus strains isolated from human feces, for example gassericin produced from Lactobacillus gasseri was the most effective against the studied gram-positive pathogenic strains such as Listeria monocytogenes, Bacillus cereus and Staphylococcus aureus.

The human microbiome represents a vast resource of untapped microbes capable of producing antimicrobial peptides. The discovery of small biomolecules and peptides from the human microbiome may mark the next era of antimicrobial drug discovery.

Reference:

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3564958/>

Event

February 2021

Date Event/Website

- | | |
|-------|---|
| 3-5 | MeatEx Canada@Toronto, Canada
http://meatexcanada.com/ |
| 3-5 | The 29 th Gourmet& Diningstyle Show Spring 2021@ Tokyo, Japan
https://www.gourmetdiningstyleshow.com/english/ |
| 5 | Makeup Trends Webinar@ Chemico Asia Pacific (M)Sdn. Bhd., Malaysia |
| 8-9 | Beautyworld Japan Fukuoka@Fukuoka, Japan
https://beautyworld-japan-fukuoka.jp.messefrankfurt.com/ |
| 11-12 | HPCI Exhibition@Mumbai, India
http://www.hpci-india.com/home |
| 17-20 | BioFach Nuremberg@Nuremberg, Germany
https://www.biofach.de/en |
| 20-21 | Professional Beauty GCC@Dubai, UAE
https://professionalbeauty.ae/e/pb/site/Home |
| 20-23 | Foodmech Asia 2021@Surat, India
https://www.xpobuzz.com/foodmech-asia |
| 21-25 | Gulfood 2021@Dubai, UAE
http://www.gulfood.com/ |
| 22-23 | Signature Event by Cosmoprof India@Mumbai, India
https://cosmoprofindia.com/signature-event |
| 23-25 | Cosmetics and Hair Exhibition Nigeria@Lagos, Nigeria
https://cosmeticsandhairexhibition.com/ |
| 24-26 | Interphex Week Osaka 2021@Osaka, Japan
https://www.interphex-osaka.jp/en-gb.html |



Regulations

Thai Regulation for Use of Amino Acids as Active ingredients in Food Supplements (Part 7)

The annex of active ingredients as amino acids in food supplements is as follows. This regulation came into force on October 19, 2006.

No.	Name of variety of amino acids and their forms	Maximum level for recommended daily intake (mg)
12	L-cystine	NMT 650 ¹ (calculated as L-cystine) or combined use with methionine group total amount shall not be more than 650 ¹ (calculated as combination of L-cystine and L-methionine) or combined use with cysteine group total amount shall not be more than 500 ² (calculated as combination of L-cystine and L-cysteine) or combined use of cysteine group with methionine group and cystine group total amount shall not be more than 500 ² (calculated as combination of L-methionine and L-cystine and L-cysteine)

Source: ¹ World Health Organization, Technical Report Series 724 Energy and Protein Requirement. Report of a joint FAO/WHO/UNU Expert Consultation. Geneva 1985: 64-6.

² Maximum allowance level in food supplements.

News



Momentive Webinar, Malaysia

Momentive Performance Materials Inc. together with Chemico Asia Pacific (M) Sdn. Bhd., Malaysia held a webinar under the topic "Lip Care Market Trends" on December 15th, 2020. About 35 customers attended the webinar, where the latest market trends for lip care products and

Momentive's solution to match the trends were introduced. Formulations along with prototypes developed by Chemico Malaysia Application Center were also presented and distributed to the customers.



Respharma Webinar, Malaysia

Respharma Innovative Ingredients together with Chemico Asia Pacific (M) Sdn. Bhd., Malaysia held a webinar under the topic "Draw Your Texture with Emulpharma" on December 16th, 2020. The webinar presented emulsifiers and solubilizers which complied with COSMOS,

PEG-free and more towards green technologies to match with global needs.

