

nutmeg newsletter



Q4 2023

C T S C C U P C O M I N G C H A P T E R M E E T I N G

CTSCC Oktoberfest Event

October 18th, 2023

Third Place by Half Full Brewery
575 Pacific Street
Stamford, CT 06902

5PM – 8PM EST

*Only a 6-min walk from Stamford
Metro North Station!*



Registration

Online at www.ctscc.org
Email Cynthia at
cynthia.valovich@henkel.com

Chapter Meeting Cost

SCC members: \$75
Non-members: \$85
Students: \$65

Overview

Join us for our second annual Oktoberfest event! Featuring a presentation by **Christophe Toumit** from Greentech on White Biotechnology: Fermentation! Come to learn a unique science, reconnect & meet new faces, and enjoy Oktoberfest themed bites!

See page 8 for a speaker bio on Christophe Toumit!



Inside this issue:

- Letter from the Chair
 - 2023 Board
- Technical Corner: Fermentation a crossroad for cosmetic ingredients with benefits for skin defense and microbiota friendly properties
 - Trivia Question
- CTSCC Oktoberfest Speaker Bio
 - Upcoming Events
 - FREE SCC membership for undergrad students
 - FREE on-demand webinars



Letter from the Chair

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Dear CTSCC Members and Friends,

Well, autumn is finally here. Cooler nights and mornings and the smell of leaves in the air. I know I'm not alone with this being one of my favorite seasons.

Our chapter will not be hosting a CEP course this fall as we typically do. It should be back on the schedule for 2024. If there are any courses that you are interested in our Chapter hosting, please let one of us know. A list of courses can be found on the SCC website.

This Wednesday is our 2nd annual Oktoberfest event! The turnout and feedback on last year's event was so good that we've decided to make it an annual tradition. Just as with last year, it's being held in Stamford at Third Place by Half Full brewery. Carrie Trindle from Greentech USA will be presenting on White Biotechnology Fermentation.

Don't forget that the SCC annual meeting is coming up soon. It's being held in NYC, December 11-13. I hope to see many of you there.



Faith Corbo
2023 Chair, Connecticut Chapter
Society of Cosmetic Chemists



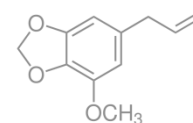
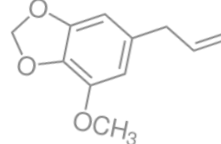
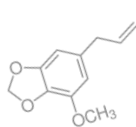
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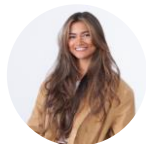


CTSCC 2023 Chapter Board

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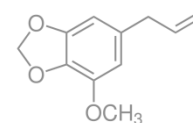
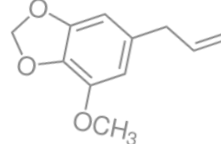
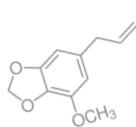


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Interested in volunteering? Reach out to any board member or ctscnews@gmail.com to learn more!

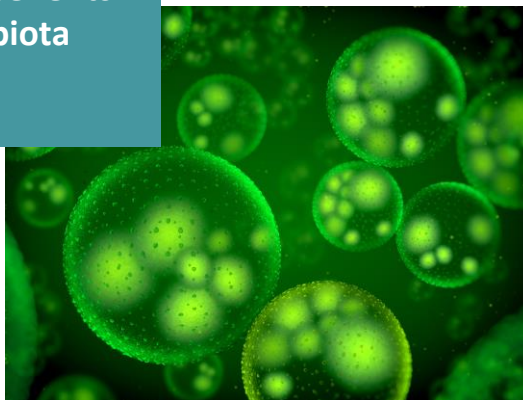


Technical Corner

Thank you to Assia Dreux-Zigha for contributing this original article for our newsletter!

Fermentation a crossroad for cosmetic ingredients with benefits for skin defense and microbiota friendly properties

Author: Assia DREUX-ZIGHA



History of fermentation

Fermentation, an age-old technique, is now attracting growing interest from consumers. A fast-growing market, fermented products are at the crossroads of many trends and consumer expectations - health, naturalness, the environment and cosmetics.

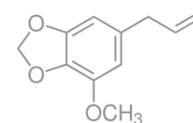
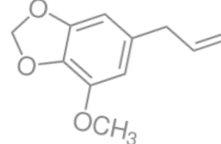
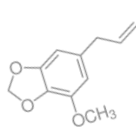
The term "fermentation" is derived from the Latin word fermentum (to ferment). The historical definition describes fermentation as the process in which chemical changes in an organic substrate occur as a result of the action of microbial enzymes.

Historically, the science of fermentation is called zymology, and one of its pioneers was Louis Pasteur, who was the first to show that all these transformations are due to various micro-organisms (yeasts, bacteria, molds) which use the matter and energy produced by the degradation of organic substances for their development. Fermentation thus generates the production of various elements such as alcohols or acids, and thus modifies the starting matrix.

Fermentation benefits and applications

It was with the production of fermented foods (beer, cheese and dairy products, bread, wine, etc.) that the use of microorganisms for food preservation heralded the birth of biotechnology, which has served mankind since the dawn of civilization. Since then, microbial technologies have expanded thanks to developments in genetic engineering, access to microbial biodiversity through metagenomic approaches, instrumentation and miniaturization (e.g. microfluidics), and the development and growing application of synthetic biology.

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Technical Corner

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Fermentation benefits and applications (cont.)

Because sustainability goals have very diverse and complex components and requirements, microbial biotechnologies have the potential to contribute substantially at different levels and in many areas to global efforts to achieve sustainable development. Thus, the fermentation allowed to the development of innovative, sustainable products and ingredients for cosmetic market as emollients, exfoliants, polymers, solvents, and anti-oxidants.

The skin microbiota

Human skin microbiota plays an important role in the protection of our skin against the inconvenience related to its exposure, especially in the protection against pathogens. However, if the balance of the skin microbiota is impaired in its composition that may lead to a decrease in its diversity, this can have dramatic consequences on the general health of the skin. Skin disorders such as acne, atopic dermatitis, psoriasis have all been correlated with an imbalance of the skin microbiota (1).

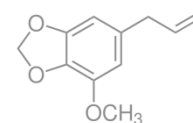
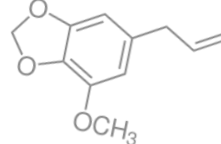
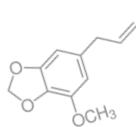
A more precise role has been established between the skin microbiota and its function in maintaining the immunity and general health of our skin. Skin-resident micro-organisms can promote the production of antimicrobial peptides (AMPs) by keratinocytes and the production of central mediators of immunity, such as complement and interleukin-1 (IL-1) by antigen-presenting cells (APCs) and/or other innate immune cells. These molecules can directly or indirectly enhance skin immunity by promoting cytokine production, increasing antimicrobial functions, promoting the recruitment of effector cells and favouring the priming of pathogen-specific T cell responses. These factors are part of innate immunity (2).

Probiotics and their beneficial effect

The probiotics are “live micro-organisms which when administered in adequate amounts confer a health benefit on the host” (definition from the World Health Organization). These micro-organisms are generally species from the genera *Lactobacillus* or *Bifidobacterium* (3).

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Technical Corner

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Use of probiotic extract: an innovative strategy to protect the skin

According to their beneficial properties against the affections of the intestinal epithelial barrier and the affections of the skin, it seems that the use of probiotics in topical application constitutes an excellent ingredient of care. The Lactobacillus ferment lysate is obtained from the fermentation a lactic bacterium of the species Lactobacillus pentosus.

The obtained active ingredient is obtained from the association of a lysate of the lactic probiotic Lactobacillus pentosus (known to stimulate gut immunity) (parabiotic fraction) and its postbiotic metabolites.

Concluding Remarks

In conclusion, the fermentation is an innovative approach for the generation of active ingredient that promotes a healthy skin. These ingredients preserve skin microbiota balance and diversity, improves skin moisturization and fortifies skin barrier function.

References:

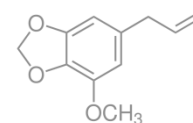
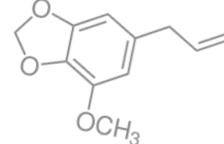
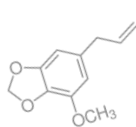
- (1) Sanford JA. and Gallo RL. (2013) Functions of the skin microbiota in health and disease. *Semin Immunol.*; 25(5): 370–377.
- (2) Belkaid Y. and Toumoutounour S. (2016) The influence of skin microorganisms on cutaneous immunity *Nature Reviews Immunology* 16, 353–366.
- (3) Marco ML., Pavan S., Kleerebezem M. (2006) Towards understanding molecular modes of probiotic action. *Curr. Opin. Biotechnol.* 17, 204–210.



SWISS EXPERTISE

RAHN

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Technical Corner

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About the Author



Assia DREUX-ZIGHA is a biological engineer. She obtained her PhD in 2007 in Molecular Microbiology. Assia was employed at Greencell/Greentech from 2019 as R&D Manager in the areas of innovative product development, new cosmetic raw materials, technology transfer, and technology acquisition.

From 2007 to 2013, she was researcher at Metabolic Explorer, a company specialized in bacterial biochemistry to create alternatives to petrochemistry. From 2013 to 2019, she worked on the identification of new antimicrobial molecules at Deinove company.

Assia may be reached by e-mail (assiadreux@greentech.com) or telephone (+33 (04 73 33 44 55)).




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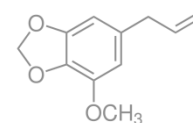
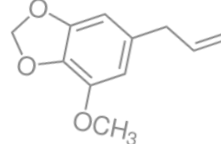
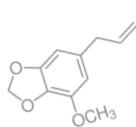
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Trivia Question

Pantone 219 C is a color that is uplifting and inspires confidence, courage, vigor, and vibrancy. What is this color also known as?

- A. Bonbon
- B. Barbie Pink
- C. Rose Violet
- D. Pink Panther Pink

Check page 10 for the correct answer!

CTSCC Oktoberfest Speaker Bio

Christophe TOUMIT is president of GREENTECH for North America and joined the GREENTECH group in 2019.

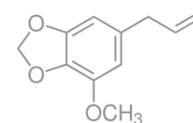
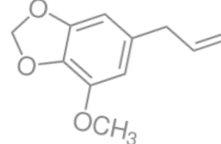
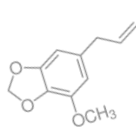
For more than 20 years, Christophe built a robust experience in developing and implementing business growth strategies for leading international brands across the fast-moving consumer goods industry, more specifically within the personal care industry, regionally and globally. He brings a unique vantage point, as his career encompasses both B2C and B2B for company leaders in the beauty space.

Originally from France, Christophe has been living in the US for the past 18 years where he has held various marketing and management roles for cosmetic ingredient suppliers.

Christophe is a graduate of the Université de Technologie de Compiègne (France) with a BS/ Engineer degree in Biotechnology and postgraduate of IGIA (France) with a Master degree of Science in Applied Economics and Management.

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Tel: 207-653-3289





Upcoming Events

CTSCC 2nd Annual Oktoberfest
October 18, 2023

NYSCC Chapter: Top Trending Ingredients and Formulas in 2023
November 2, 2023
Webinar at 11AM

NYSCC Chapter: Strategies for Fragrance Eco-Conception
November 8, 2023

NYSCC Chapter: US-China Symposium of Beauty Market Trends
December 11, 2023

NYSCC Supports Education Night
December 12, 2023

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Save the Date

SCC77th Annual Scientific Meeting & Showcase

December 12-13, 2023
Sheraton NY Times Square
New York City

NEW YORK CHEMISTS SUPPLIERS' DAY

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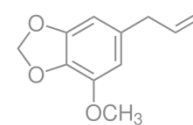
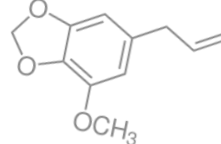
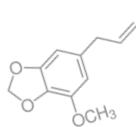
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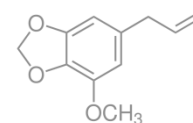
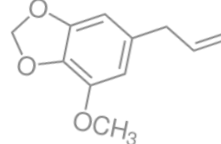
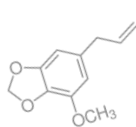
Example topics include natural product formulation, microbiome, professional development, and more!

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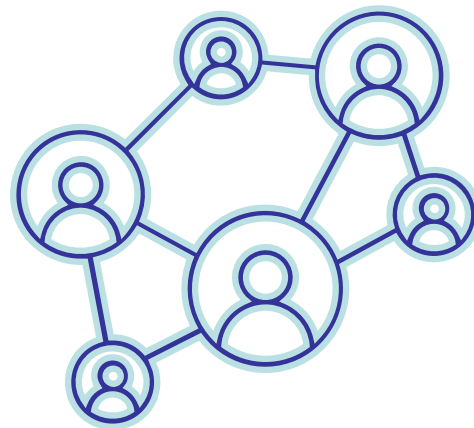
Is there a **technical article**, raw material insight, relevant writing, or other piece you'd like to share with the community?

Have you captured **photos** at CTSCC events?

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(keti.vaso@henkel.com)

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Photo of Hartford by Ilirjan rrumbullaku (Flickr)

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