

Perfumery & Beauty
Personal Care
Research & Development

Scientific Publications 2023

TEASER

Editor 2024
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dsm-firmenich

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Dear Reader,

Welcome to our 11th yearbook edition which marks the start of a new yearbook decade in our long tradition to showcase our scientific achievements in the field of personal care research.



Two outstanding events shaped the year 2023: in May, DSM and Firmenich merged and since have created a fantastic personal care network by combining both, perfumes and cosmetic actives. Scientists from both legacy companies have immediately entered an intensive exchange and jointly driven the development of new concepts and products. And finally, in December, we inaugurated our brand-new innovation campus as the future home for our global application-, biology- and chemistry teams at our global headquarters in Kaiseraugst, Switzerland.

In 2023 we were able to expand our R&D services through intensive peer-to-peer customer exchange activities. Our customers now have the choice of using well-defined service **modules for claim substantiation, such as “study design”, “study execution”, “data analysis”** or proprietary **“visualization techniques”**.

We have seen digital tools for performance imaging and simulation to be clearly on the rise. In some areas, like photoprotection, it might only be a matter of time before AI-based in-silico predictions are fully competitive or even superior to laboratory trials. With DSO-PRO™, our latest upgrade to our online sunscreen optimizer, we are now able to predict the top solutions out of trillions of possibilities to perfectly match challenging customer briefs including technical performances, cost-in-use, as well as other constraints.

Out of our senolytics (rejuvenation) light house project, Eterwell Youth™ is our first product launch. It comes with an imp

ressive claim support package and was shown to be the most effective senolytic extract when compared to bench products in several high-quality assays. On the 33rd IFSCC congress in Barcelona we were **given the great honor of presenting a podium talk entitled “next generation anti-aging with natural senolytics to remove skin zombie cells”**.

Our second presentation at the IFSCC underlined our continued efforts to gain deep insights into the interplay between the epidermis and the microbiome (EPIBIOME BEAUTY™). Here we specifically looked into the association between compositional changes of the facial skin **microbiomes and menopausal statuses. At the same time, we introduced ‘Wonder You’, a formulation line-up designed to celebrate women’s skin and scalp and make it look beautiful at any age without diminishing its natural journey. ‘Wonder You’ is backed by core ingredients such as BEL-EVEN® or SYN-UP® (skin) and ALPAFLOR® EDELWEISS CB (scalp).**

In photoprotection we were able to achieve three major milestones: there was the launch of Parsol® DHHB, a photostable, effective UVA filter that enables more eco-friendly formulations. The planned approval for Parsol® Shield in the US was progressing well, and, most importantly, we have set the course for the development of renewable UV filters!

I would like to express my sincere thanks to all our customers, partners and my team of technicians and scientists for enabling us again to make the past year a shared success!

Please enjoy reading!

Yours sincerely,

A handwritten signature in blue ink that reads "Thomas Rudolph". The signature is fluid and cursive, with a long horizontal stroke at the end.

Dr. Thomas Rudolph

Dear Reader,

This small editorial comment have the purpose to inform and guide you through our transition phase both in terms of content - last year we celebrated the 10th edition as the last volume with the contributions of our esteemed colleagues and collaborators Rainer Voegeli and Anthony Rawling – but also regarding the whole organization – beginning of the newly created dsm-firmenich company with the merge of two top companies in a unique entity that aims to Bring Progress To Life as core message.

I have been collecting the scientific publications from R&D – Personal Care for both the 10th and now 11th edition trying to match this evolution and content implementation.

Same as in the past edition, some additional elements to the Yearbook have been introduced.

In the initial chapter (Miscellaneous) more visibility has been given to events or workstreams championed by R&D – Personal Care team members to support and enrich our scientific expertise in the field. Last year we presented the Sensorial Panelists group, while this year a dedicated article to the Clinical Studies Experts is part of the book.

In the Patent Applications chapter, in order to highlight the relevant novelties and, more importantly, the products derived from these inventions, a brief summary was added for **each patent in order to have a “first glance” idea on the content of the patent itself.**

Finally, since the Global R&D – Personal Care team is not working alone, but is closely interconnected with all the Regional Teams, an additional chapter has been added to include all the relevant events and publication that were specifically held in dedicated Regions, in order to show how interconnected is our work and how important is to foster collaboration and exchange between different teams.

The 2023 Yearbook, as collection the scientific production from R&D – Personal Care, contains 12 original papers as well as 10 posters 8 congress talks, 4 congress proceedings and 23 patents.

This 11th edition is also incorporating the newly created elements of our branding dsm-firmenich and setting a milestone as first of many other Yearbooks witnessing the flourishing scientific knowledge and discovery in R&D – Personal Care department – Perfumery & Beauty.

I hope you will enjoy the reading.



Dr. Beatrice Tassone
Scientist, Personal Care

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