

# News Release

P318/18e  
September 18, 2018

## **BASF introduces latest scientific findings at IFSCC Congress 2018**

- **New study results on anti-pollution and sebum oxidation**
- **Latest findings in sunscreen formulation technology and UV filter research**
- **Innovation in highly active plant extract selection with 3D sebaceous gland model**

**Munich, Germany – September 18<sup>th</sup>, 2018** – [BASF](#) experts from different fields will share their latest scientific findings at this year's International Federation of Societies of Cosmetic Chemists (IFSCC) Congress, from September 18 to 21 in Munich. They will take part in speaking sessions as well as poster presentations and be available for discussions in booth E35. A strong focus will be on current topics such as anti-pollution and UV protection as well as innovations in the field of plant extracts.

### **Particulate matter: Systematic studies on the effects of formulation ingredients on adhesion**

Air pollution has become a serious threat to health and beauty. BASF will present study results conducted with a novel standardized method for the investigation of both adhesion to and removal of particulate matter from the skin. The findings were used to develop new formulations, which exhibited clear anti-adhesion and removability effects and help safeguard the skin against damage caused by particulate matter.

### **Sebum oxidation under different pollution conditions**

Preventing sebum oxidation is a growing consumer concern as it can be the initial phase of forming acne. BASF experts assessed synthetic sebum oxidation under simulated conditions of average city pollution using different test methods. Their findings provide evidence and clues for the further investigation of anti-pollution ingredients for skin and scalp.

### **New insights on UV filters and sunscreen formulations**

As the largest supplier of safe-to-use, high-performance UV filters that help protect the skin against the harmful effects of UV radiation such as sunburn, premature appearance of wrinkles and – with frequent intensive exposure – an increased risk of skin cancer, BASF will be sharing new insights on molecular aggregates in sunscreens as well as detecting spatial UV filter repartition using confocal Raman microspectroscopy.

### **3D sebaceous gland model: Determination of plant extract to treat oily skin**

Oily skin is a global concern which results in shininess, enlarged pores and imperfections. It is linked to hyperactive sebaceous glands that produce excessive sebum caused by both the individual gene pool as well as today's modern lifestyle. During poster sessions on Thursday and Friday, BASF experts will present how they selected a plant extract which reduces sebum production in the sebaceous glands using a 3D model developed by BASF.

### **Epicutaneous patch testing: New insights for test strategies**

Although epicutaneous patch testing is routinely used as a screening method for skin compatibility during the development and optimization of cosmetic formulations, it does not allow all reactions to be assessed. BASF will present the results of a study conducted together with the DGK work group on skin compatibility, indicating that simple modifications of existing test protocols can lead to important insights into immediate type skin reactions. These modifications can be used to create further building blocks in the development and optimization of test strategies for cosmetic formulations.

## BASF experts on the scientific program

Presentations	
Wednesday, Sep. 19, 2018 2.45 p.m. – 3.15 p.m.	Dr. Annette Mehling:  Doing the dirty work – systematically: <b>Anti-adhesion studies on particulate matter</b> (anti-pollution)
Wednesday, Sep. 19, 2018 4.15 p.m. – 4.45 p.m.	Prof. Dr. Bernd Herzog:  <b>Molecular Aggregates in Sunscreens</b> – from Liposomes to Particles
Poster session: Skin Biology	
Wednesday, Sep. 19, 2018 9.00 a.m. – 5.15 p.m. <b>and</b> Thursday, Sep. 20, 2018 9.00 a.m. – 5.15 p.m.	Dr. Annette Mehling:  An unexpected journey: Lessons learned from <b>epicutaneous patch testing</b>
Poster session: Modern Lifestyle	
Thursday, Sep. 20, 2018, 9.00 a.m. – 5.15 p.m. <b>and</b> Friday, Sep. 21, 2018, 9.00 a.m. – 3.45 p.m.	Dr. Zhi Rao:  Investigation of <b>the effect of city pollution model on sebum oxidation</b>
Poster session: Shielding the Skin	
Thursday, Sep. 20, 2018, 9.00 a.m. – 5.15 p.m. <b>and</b> Friday, Sep. 21, 2018, 9.00 a.m. – 3.45 p.m.	Dr. Myriam Sohn:  Use of <b>Confocal Raman Microspectroscopy technique</b> for detecting spatial UV filter repartition
Thursday, Sep. 20, 2018, 9.00 a.m. – 5.15 p.m. <b>and</b> Friday, Sep. 21, 2018, 9.00 a.m. – 3.45 p.m.	Dr. Valérie Andre-Frei:  Highly efficient plant extract against oily skin determined by <b>2-D and 3-D sebaceous models</b>

### About the Care Chemicals division at BASF

The BASF division Care Chemicals offers a broad range of ingredients for personal care, hygiene, home care, industrial & institutional cleaning, and technical applications. We are the global leading supplier for the cosmetics industry as well as the detergents and cleaners industry, and support our customers with innovative and sustainable products, solutions and concepts. The division's high-performance product portfolio includes surfactants, emulsifiers, polymers, emollients, chelating agents, cosmetic active ingredients and UV filters. Superabsorbent polymers developed for the full spectrum of hygiene applications complete the range. We have production and development sites in all regions and are expanding our presence in emerging markets. Further information is available online at [www.care-chemical.basf.com](http://www.care-chemical.basf.com).

**About BASF**

At BASF, we create chemistry for a sustainable future. We combine economic success with environmental protection and social responsibility. The more than 115,000 employees in the BASF Group work on contributing to the success of our customers in nearly all sectors and almost every country in the world. Our portfolio is organized into five segments: Chemicals, Performance Products, Functional Materials & Solutions, Agricultural Solutions and Oil & Gas. BASF generated sales of €64.5 billion in 2017. BASF shares are traded on the stock exchanges in Frankfurt (BAS), London (BFA) and Zurich (BAS). Further information at [www.basf.com](http://www.basf.com).