



22.05.2020

### +++ News Ticker Science #40 +++ Cyclic peptides +++

Insights into the secondary structures of lactam N-substituted stapled peptides IPB chemists together with collaborators from the MLU Halle and the University of Havana have taken a closer look at features of a special class of...[read more](#)

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20.05.2020

### +++ News Ticker Science #39 +++ Cell Biology

User-friendly assessment of pavement cell shape features with PaCeQuant: Novel functions and tools Scientists led by Katharina Bürstenbinder (IPB), together with bioinformaticians from the Halle University and the German...[read more](#)

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19.05.2020

### +++ News Ticker Science #38 +++ Analytical Methods +++

Optimized protocol for Fingerprinting of Rhizobial Free Fatty Acids IPB scientists, in close cooperation with Russian researchers, have published a straightforward protocol for the quantification of free fatty acids from the...[read more](#)

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18.05.2020

### +++ News Ticker Science #37 +++ Antiinfectives +++

Anthelmintic and antimicrobial compounds from Indonesian lichen *Parmelia cetrata* Ach. IPB chemists recently published an extensive phytochemical study of *Parmelia cetrata*, a foliose lichen from Indonesia. They successfully...[read more](#)

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08.05.2020

### +++ News Ticker Science #36 +++ Phytohormones +++

The auxin-prompted dance between TIR1 and AUX/IAA proteins demands a hug that helps plants to grow Plants have the astounding ability to thrive and adapt in environments that more often than not, are hostile. Signaling...[read more](#)

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09.04.2020

### +++ News Ticker Science #35 +++ CRISPR/Cas9 +++

Better Cas9 efficiency for gene knock-out in plants. A team led by Sylvestre Marillonnet recently published a preprint of a study in which they tried to optimize the Cas9 enzyme for gene editing in plants. In plants,...[read more](#)

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31.03.2020

### **+++ News Ticker Science #34 +++ Jasmonate +++**

Sulfation switch in the shade. In a recent News & Views article, Claus Wasternack highlights a study led by the Ballaré Lab from Argentina (Fernandez-Milmanda et al.) His article was published alongside the study in the...[read more](#)

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12.03.2020

### **+++ News Ticker Science #33 +++ Pollen +++**

Pollen Surface Replenished: A tapetal flavonoid transporter in Arabidopsis. IPB researchers have now identified a gene encoding for a transporter responsible for translocating flavonoid glycosides to the surface of Arabidopsis...[read more](#)

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03.03.2020

### **+++ News Ticker Science #32 +++ Plant Stress +++**

Senescence master regulator ORE1 is a direct substrate of CPK1 in Arabidopsis. Professor Tina Romeis, and her partners of the Collaborative Research Centre (CRC) 973 "Priming and Memory of Organismic Responses to Stress", have...[read more](#)

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28.02.2020

### **+++ News Ticker Science #31 +++ Synthesis +++**

Synthesis of lipidated cyclo-peptides as promising anti-phytopathogenic agents. Together with Cuban and Chilean scientists, IPB chemists have developed a multicomponent-based approach for the synthesis of cyclic polycationic...[read more](#)

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27.02.2020

### **+++ News Ticker Science #30 +++ Plant Defense +++**

Fungal higginsianin B inhibits plant immune responses. IPB scientists, in cooperation with international plant researchers, have identified a natural compound from the fungus and plant pathogen Colletotrichum higginsianum that...[read more](#)

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24.02.2020

### **+++ News Ticker Science #29 +++ Metabolomics +++**

First metabolite profiling of roasted date pits proves their suitability as a coffee substitute. IPB chemists and Egyptian scientists recently carried out first scientific investigations regarding the suitability of roasted...[read more](#)

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20.02.2020

### +++ News Ticker Science #28 +++ Bioactives +++

Detection of anthraquinones in complex mixtures. IPB chemists have recently published an efficient approach for the detection of anthraquinones in complex mixtures of compounds. For the identification of these natural...[read more](#)

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11.02.2020

### +++ News Ticker Science #27 +++ Therapeutic Targets +++

Glucagon and Glucagon-like Peptide-1 Receptors: Promising Therapeutic Targets Hidayat Hussain, guest researcher at IPB, together with partners from Oman, has published a review article on the structural diversity of glucagon...[read more](#)

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10.02.2020

### +++ News Ticker Science #26 +++ Bioactives +++

Bioactives from Ethiopian torch lilies. With the participation of the IPB, scientists have published a study on bioactives from Ethiopian torch lilies (*Kniphofia foliosa* Hochst). They analyzed the biological activity of the...[read more](#)

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05.02.2020

### +++ News Ticker Science #25 +++ Stress Research +++

Effect of drought stress on plant seeds. Scientists from the IPB, MLU, and Russia recently published a study on drought-related metabolic alterations in plant seeds. In leaves, water deficit enhances protein glycation and yields...[read more](#)

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30.01.2020

### +++ News Ticker Science #24 +++ Plant Protection +++

Foliar application of chitosan increases tomato growth. IPB scientists, in collaboration with partners from Morocco, have investigated the effect of two application modes (foliar spray or root treatment) of the bio-organic...[read more](#)

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22.01.2020

### +++ News Ticker Science #23 +++ Analytical Methods +++

Analysis of chemically labile glycation adducts in seed proteins. IPB and Russian scientists developed a progressive method for the quantification of chemically labile advanced glycation end products (AGEs). Increased glycation...[read more](#)

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19.12.2019

### +++ News Ticker Science #22 +++ Plant Defense +++

Early Pep-13-induced immune responses are SERK3A/B-dependent in potato. The co-receptors StSERK3A and StSERK3B seem to play a role in the early immune response of potatoes against *Phytophthora infestans*, the causative agent of...[read more](#)

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17.12.2019

### +++ News Ticker Science #21 +++ Mycorrhiza +++

Commentary on recent mycorrhiza study in *New Phytologist*. Prof. Hause recently lent her expertise in the field of arbuscular mycorrhiza (AM) for a commentary in *New Phytologist*. In her article, she highlights a study by Zhou et...[read more](#)

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