



News Ticker Science

29.06.2023

+++ News Ticker Science #150 +++ Cell biology +++

Plant cell division processes reviewed. IPB scientists Katharina Bürstenbinder and Pradeep Dahiya have recently published a review article on specific processes in plant cell division. In contrast to algae and animal cells,...[read more](#)

15.06.2023

+++ News Ticker Science #149 +++ Bioactives +++

New anti-HIV compound from African St. John's wort species. IPB scientists and partners from Sardinia have isolated the coumarin substance bichromol from the bark of *Hypericum roeperianum* in their search for antiviral agents...[read more](#)

13.06.2023

+++ News Ticker Science #148 +++ Phytohormones +++

Ethylene plays a role in nutrient deficiency. Ethylene, as a volatile phytohormone, controls many facets of plant growth, especially under stress conditions. In *Medicago truncatula*, the protein MtEIN2 plays an important role in...[read more](#)

09.06.2023

+++ News Ticker Science #147 +++ Multicomponentreaction +++

Synthesis of peptide double rings with new multicomponent strategies. IPB scientists and partners from Havana have developed two novel synthesis strategies for the successful assembly of bicyclic peptides that exhibit...[read more](#)

02.06.2023

+++ News Ticker Science #146 +++ Plant Defense +++

Receptor kinase sets the switch from growth to defense. In collaboration with IPB scientists, an international team has recently provided evidence that the Arabidopsis ABCG36 exporter transports not only the auxin precursor...[read more](#)

31.05.2023



+++ News Ticker Science #145 +++ Metabolomics +++

Metabolomics reveals drought-tolerant eucalyptus. Eucalyptus trees are an important source of wood, bioenergy and pulp for the paper industry. For this purpose, the trees, originally native to Australia and Southeast Asia, are...[read more](#)

12.05.2023

+++ News Ticker Science #144 +++ Bioactives +++

Structure of complex natural product elucidated. IPB chemists, together with partners from Germany and Indonesia, have elucidated the structure of the previously undescribed natural compound lumnizeralactone. This ellagic acid...[read more](#)

11.05.2023

+++ News Ticker Science #143 +++ Phytohormones +++

Modulating auxin response stabilizes tomato fruit set. Successful pollination of tomato plants is highly dependent on the weather. In cool temperatures, pollination of the flowers is inefficient and results in yield losses. The...[read more](#)

05.05.2023

+++ News Ticker Science #142 +++ Bioactives +++

Anti-inflammatory bitter substance from chicory. The root chicory (*Cichorium intybus* L.) was already used in the Middle Ages to treat all kinds of digestive discomforts. In particular, the bitter substances contained in the...[read more](#)

04.05.2023

+++ News Ticker Science #141 +++ Plant Stress +++

Roots grow deeper in the heat. Scientists of MLU in a team with partners from IPB, Cologne and Switzerland have found out that not only the above-ground plant parts but also the roots react to elevated temperatures. According to...[read more](#)

05.04.2023

+++ News Ticker Science #140 +++ Metabolomics +++

Comparison of tomato varieties. IPB scientists, together with researchers from China and Egypt, have now once again proven that tomatoes are very healthy. In their study in Food Chemistry, the team examined the primary and...[read more](#)

22.03.2023



+++ News Ticker Science #139 +++ Multi-Omics +++

Multi-Omics: More flavor for cocoa and chocolate. Complex fermentation and roasting processes of harvested cocoa beans determine the quality of chocolate. Standardization and a better understanding of cocoa processing are...[read more](#)

14.03.2023

+++ News Ticker Science #138 +++ Metabolomics +++

Taxonomy with chemistry: phylogenetic tree of liverwort metabolites. The characterization and classification of biological species is a fundamental component of biodiversity research. In integrative taxonomy, traditional...[read more](#)

27.02.2023

+++ News Ticker Science #137 +++ Ecometabolomics +++

Moss metabolomics uncovers environmental effects. Scientists from the IPB, the German Center for Integrative Biodiversity Research (iDiv) and the University of Brunswick in Canada recently analyzed the metabolite profiles of...[read more](#)

20.02.2023

+++ News Ticker Science #136 +++ Bioactives +++

Pharmacy from the sea. IPB guest scientist Hidayat Hussain, together with drug experts from all over the world, has published a comprehensive review article on marine organisms as a source of numerous bioactive compounds against...[read more](#)

17.02.2023

+++ News Ticker Science #135 +++ Bioactives +++

High density of bioactives in Piper sarmentosum plants. IPB chemists have recently investigated the constituents of Piper sarmentosum Roxb. Chemical analysis of the leaves resulted in the extraction of three unknown and 31 known...[read more](#)

24.01.2023

+++ News Ticker Science #134 +++ Natural Products +++

Lehmanniaside, a new cycloartane triterpene glycoside from Astragalus lehmannianus. IPB chemists and partners from Uzbekistan have discovered a new cycloartane triterpene glycoside. The compound lehmanniaside was isolated from...[read more](#)

19.12.2022



+++ News Ticker Science #133 +++ Natural Products +++

Unusually cyclized triterpenoids: Bioactive compounds with potential. In an international team, IPB chemists recently completed a review of 180 new unusually cyclized triterpenoids. The review was published as the second of its...[read more](#)

16.12.2022

+++ News Ticker Science #132 +++ Gene Regulation +++

Long non-coding RNAs influence rosette size in Arabidopsis. Long non-coding RNAs (lncRNAs) are currently the focus of science because they are an interesting phenomenon involved in the regulation of gene expression and in...[read more](#)

13.12.2022

+++ News Ticker Science #131 +++ Bioactives +++

Ask the medicine man! Investigation of traditional medicinal plants against worm diseases. Illuminating ancient ways can sometimes pay off. IPB scientists in a team with partners from Botswana, Switzerland and MLU have examined...[read more](#)
