



DBG-Newsletter #72 – Mai / May 2024

Editorial

Sehr geehrte DBG-Mitglieder, liebe Kolleginnen und Kollegen, *dear members and colleagues,*

You are cordially invited to join our member assembly in September during our international Botanik-Tagung taking place at Halle University by our Secretary General, Prof. Dr. Caroline Müller. Please make use of your privilege to shape our scientific society, elect new board members, decide about an update of our statutes and suggest new honorary members to name a few.

Our international Botanik-Tagung in September is already on the horizon and this issue of the newsletter informs you about most recent news like workshops, excursions, Section's sessions and keynotes. Please keep in mind, there are only a few days left to submit your contribution to the Botanik-Tagung in Halle – see below. Don't miss this opportunity and join the largest conference entitled "Growing Solutions for Growing Challenges" in the heart of Europe. Discuss latest research results with the people behind papers, mingle with your scientific community and experts in the fields, and get an update on neighboring scientific disciplines.

Since several deadlines are in May, it is also worth checking out the two conference rubrics.

In den beiden ersten Rubriken stehen u.a.: Faszinierende neu entdeckte Symbiosen, wie ein Ereignis in der Evolution Formenvielfalt hervorbrachte, wie Peptide Befruchtungsprozesse steuern und wie Pflanzen das Klima beeinflussen, nicht nur umgekehrt. Über ein frisch bewilligtes Graduiertenkolleg einer in unserer DBG engagierten Pflanzenforscherin sowie Stipendien für den Blick über den Tellerrand möchten wir ebenfalls informieren.

Eine anregende Lektüre wünschen Ihnen und Euch das DBG-Präsidium und die Redakteurin Esther Schwarz-Weig

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Forschungsergebnisse

Neu entdeckte Symbiose aus Rhizobien und Kieselalgen ähnelt Knöllchenbakterien

Im Meer haben Bremer Forschende eine bisher unbekannt Partnerschaft zwischen einer Kieselalge und einem Bakterium gefunden, die für große Teile der Stickstofffixierung in weiten Ozeanregionen verantwortlich sein kann, wie sie im Fachjournal *Nature* berichten <https://www.deutsche-botanische-gesellschaft.de/u/7226>

Sternalgen-Erbgut gibt Aufschluss über Ursprung der Pflanzen

Winzige Moosblättchen, emporragende Baumstämme, verborgene Wurzeln oder beeindruckende Seerosenblüten: All diese prächtigen Formen sind aus einem einmaligen evolutionären Ereignis hervorgegangen, der Eroberung des Landes durch die Pflanzen. Das demonstrieren Göttinger, Jenaer und weitere Forschende an Genomdaten von vier fadenförmigen Sternalgen der Gattung *Zygnema* und mit einer Kombination modernster Sequenzierungstechniken in *Nature Genetics* <https://www.deutsche-botanische-gesellschaft.de/u/7290>

Wie RALF-Peptide Befruchtungsprozesse steuern

Forschende haben sRALFs (für *Rapid ALkalinization Factors*) entdeckt, die in Papillenzellen der Blütennarbe kontrollieren, dass nur eigene Pollenschläuche ins Transmissionsgewebe eindringen können. Nur wenn kompatible pRALFs in Pollen vorhanden sind, wird nach einem Schloss- und Schlüssel-Prinzip das Einwachsen eigener Pollenschläuche ermöglicht, schildern Regensburger Forschende in *Plant Cell* <https://www.deutsche-botanische-gesellschaft.de/u/7224>

KI entschlüsselt neuen Genregulationscode und macht Vorhersagen für neu sequenzierte Genome

Ein Forschungsteam hat *Deep-Learning*-Modelle entwickelt, die Gensequenzdaten mit der mRNA-Kopienzahl für mehrere Pflanzenarten verknüpfen und die regulatorische Wirkung von Gensequenzvariationen vorhersagen. Die Ergebnisse hat das Gaterslebener und Jülicher Team in *Nature Communications* veröffentlicht <https://www.deutsche-botanische-gesellschaft.de/u/7202>

„Stammbaum des Lebens“ für Blütenpflanzen erstellt

Unter britischer Leitung haben Forschende aus aller Welt die Erbinformation von mehr als 9.500 Arten aus fast 8.000 Gattungen von Blütenpflanzen zusammengetragen. An der in *Nature* erschienenen Studie haben auch Forschende aus Deutschland mitgewirkt, darunter aus Heidelberg, München und Bayreuth <https://www.deutsche-botanische-gesellschaft.de/u/7223>

Wie Blaualgen Mikroorganismen manipulieren

Forschende haben ein bisher unbekanntes Gen in Cyanobakterien entdeckt, das eine zentrale Rolle in der Koordination des Stickstoff- und Kohlenstoffwechsels spielt: Die Cyanobakterien steuern damit indirekt das Wachstum von Mikroorganismen, welche die Photosynthese fördern, wie die Forschenden in *Nature Communications* belegen <https://www.deutsche-botanische-gesellschaft.de/u/7215>

Wie Pflanzen das Klima in Europa beeinflussen

Das Klima reguliert das Pflanzenwachstum, aber das Klima wird auch von Pflanzen beeinflusst. Je nach Pflanzenmix haben Ökosysteme sogar einen starken Einfluss auf das Klima in Europa, wie eine Studie aus Halle in *Global Change Biology* verdeutlicht. Dazu haben die Forschenden Satellitendaten mit rund 50.000 Vegetationsaufnahmen aus ganz Europa verknüpft <https://www.deutsche-botanische-gesellschaft.de/u/7214>

Neues Bakterium-Grünalgen-Team

Ein neu entdecktes Bakterium bildet ein Team mit einer Grünalge: während das Bakterium überlebenswichtige B-Vitamine und eine schwefelhaltige Aminosäure erhält, wird das Wachstum der Grünalge optimiert. Das Bakterium *Mycetocola lacteus* hilft der Alge *Chlamydomonas reinhardtii* außerdem dabei, den Giftstoff eines anderen, schädlichen Bakteriums zu neutralisieren, legen Forschende aus Jena in *PNAS* dar <https://www.deutsche-botanische-gesellschaft.de/u/7221>

Schlüssel-Gen für giftiges Alkaloid in Gerste entdeckt

Viele Gersten-Sorten produzieren das giftige Alkaloid Gramin, was die Nutzung als Futtermittel einschränkt, die Gerste aber vor Krankheitserregern und Insekten schützt. Nun haben Forschende aus Hannover und Gatersleben die genetische Grundlage der Gramin-Biosynthese in *Science* vorgestellt, was die Züchtungsforschung weiterbringen kann <https://www.deutsche-botanische-gesellschaft.de/u/7241>

Kopiermaschine der Chloroplasten in 3D

Erstmals stellen Forschende aus Hannover und Göttingen die dreidimensionale Kopiermaschine der Chloroplasten, die RNA-Polymerase PEP, im Fachjournal *Molecular Cell* vor. Demnach besteht ihre Gesamtstruktur aus einem mehrteiligen Basis-Komplex, dessen Protein-Untereinheiten im Chloroplasten-Genom kodiert sind, sowie mindestens zwölf angelagerten Proteinen (PAPs), die vom Kern-Genom der Pflanzenzelle gesteuert werden <https://www.deutsche-botanische-gesellschaft.de/u/7259>

Politik, Projekte, Förderungen und frisch gefördert

Neues Graduiertenkolleg will evolutionäre Hypothesen zur Mutationsdynamik empirisch testen

Frisch bewilligt hat die Deutsche Forschungsgemeinschaft (DFG) ein Graduiertenkolleg mit dem Titel *Evolutionary Genomics: Consequences of Biodiverse Reproductive Systems (EvoReSt)*. Es verfolgt die Evolution von Genomen unter verschiedenen Reproduktionsformen an Organismen aus dem gesamten *Tree of Life*: Genauer das Kerngenom mit asexueller und sexueller Fortpflanzung bei Tieren, Pflanzen und Pilzen, die Interaktion zwischen Kerngenom und Organellen-Genomen sowie horizontalen Gentransfer mittels Viren. Sprecherin ist Prof. Dr. Elvira Hörandl, die auch Sprecherin unserer Sektion Biodiversität und Evolutionsbiologie ist. Die DFG fördert das GRK in den kommenden fünf Jahren mit insgesamt rund 6,6 Millionen Euro <https://www.deutsche-botanische-gesellschaft.de/u/7228>

Big Data für Biodiversität: Sammlungen bringen Daten zusammen

Sechs der größten naturkundlichen Sammlungen in Deutschland haben sich am 16. April zusammengeschlossen. Sie wollen ihre über 140 Millionen Sammlungsobjekte zukünftig für die Wissenschaft digital vernetzen und frei zugänglich machen. Dies soll in der Forschungsinfrastruktur *Distributed System of Scientific Collections (DiSSCo)* erfolgen, die heute bereits über 170 Naturkundemuseen, Botanische Gärten und universitäre Sammlungen aus ganz Europa vernetzt <https://www.deutsche-botanische-gesellschaft.de/u/7229>

G7-Wissenschaftsakademien: Stellungnahme zur nachhaltigen Landwirtschaft

Die Wissenschaftsakademien der G7-Staaten sprechen sich dafür aus, Forschung und Innovationen zur Anpassung an die Folgen des Klimawandels sowie die Möglichkeit zur Aus- und Weiterbildung weltweit zur Verfügung zu stellen. Dafür sollen geeignete Studiengänge geschaffen und für Forschung und Innovation auch lokales Wissen einbezogen werden <https://www.deutsche-botanische-gesellschaft.de/u/7211>

Add-on Fellowships for Interdisciplinary Life Science

Mit dem Add-on Fellowship fördert die Joachim Herz Stiftung Promovierende und PostDocs verschiedener Disziplinen, die an fachübergreifenden Fragen an den Schnittstellen zwischen Biowissenschaften und Physik, Informatik, Mathematik, Technik und verwandten Forschungsfeldern arbeiten. So können beispielsweise Biologen in die Mathematik und Modelliererinnen in die Biowissenschaften hineingehen. Damit ermöglicht die in Hamburg ansässige Stiftung auch 2024 für bis zu 50 Wissenschaftlerinnen und Wissenschaftler in frühen Karrierephasen den berühmten "Blick über den Tellerrand". Bewerbungsschluss ist am 4. Juni 2024 <https://www.joachim-herz-stiftung.de/forschen/nachwuchsfoerderung/add-on-fellowship-naturwissenschaften>

Aus unserer DBG / News from our DBG

Einladung: DBG-Mitgliederversammlung mit Vorstandswahl im September

Alle unsere Mitglieder sind herzlich zur kommenden Mitgliederversammlung am Dienstag, den 17. September 2024, im Rahmen der Botanik-Tagung (s.u.) an die Martin-Luther Universität Halle eingeladen. Die Mitgliederversammlung inkl. turnusgemäßer Präsidiumswahl findet in Englischer Sprache im Hörsaal XXII, Universitätsplatz 1, D-06108 Halle von 12:30 bis 14:00 Uhr statt; es gibt ein Lunch-Paket. Während unserer Versammlung wird auch über den neuen Vorschlag zur Aktualisierung unserer Satzung abgestimmt. Dazu wird demnächst ein Vorschlag versendet werden, der kommentiert werden kann. Das Präsidium der DBG sieht unserem Treffen mit Freude auf ein Wiedersehen entgegen. Die Einladung mit allen Tagesordnungspunkten finden Sie anbei sowie hier <https://www.deutsche-botanische-gesellschaft.de/u/72Einlad>

Invitation: DBG Member Assembly and board elections in September

You are cordially invited to take part in our upcoming member assembly on Tuesday, 17th September 2024, within our International Conference of our German Society for Plant Sciences at Martin-Luther University Halle (see below). The member assembly and the board's election will take place in Lecture Hall XXII, Universitätsplatz 1, D-06108 Halle, Germany from 12:30 to 2:00 p.m.; a lunch packet will be served. Our board is looking forward to meeting you in Halle. Our member assembly will be held in English. However, since we are a scientific society registered in Germany, we are obliged to send the invitation in German language. In short, the current board members will report about news in our Society, their achievements, and you are asked to approve an update of our statutes. Soon, we will send out a draft for commenting. There will also be elections of our board members on the regular basis as well as decisions about new honorary members. Read all agenda topics (see attachment) and here as well <https://www.deutsche-botanische-gesellschaft.de/u/72Invite>

*DBG is very happy to welcome several **new members** in the last weeks! If you also would like to recommend DBG to other people, e.g. to profit from reduced conference fees to join this year's international Botanik-*

Tagung, please keep in mind that it may take a few days to welcome new members and provide access to our intranet. Thanks for your patience!

Please nominate your idol scientist to become our future honorary member

The DBG Presidium asks all our members to propose candidates worthy to become one of our new honorary members. According to our statutes, honorary members with recognized merits in the plant sciences as well as plant science lecturers or from other disciplines can be appointed or people who have rendered outstanding services to our plant science community. Future honorary members have all the rights of ordinary members, but they are free from membership fees <https://www.deutsche-botanische-gesellschaft.de/en/about-us/statutes>. Honorary members can be elected at the upcoming member assembly. Nominations can be handed in before the assembly by at least 20 DBG members or by current board members. If you like to submit a proposal, please send your nomination including a laudatory speech in German incl. a German and English summary to praesidium-geschaefsf@deutsche-botanische-gesellschaft.de

May 18th is Fascination of Plants Day (FoPD)

The seventh international "Fascination of Plants Day" will be launched by plant scientists across the world under the umbrella of the European Plant Science Organisation (EPSO), in which our DBG is an associated member. The goal of this activity is to get as many people as possible around the world fascinated by plants and enthused about the importance of plant science for agriculture and sustainable production of nutritious food, as well as for horticulture, forestry and the production of plant-based non-food products such as paper, timber, chemicals, energy and pharmaceuticals. Activities can happen from 1st March to 30th November 2024 with a peak around 18th May. If you would like to add your activity or event, please submit it to EPSO via the provided link (you will need to use the code: FoPDglobal1805). They also offer a PR toolbox with logos, posters and things like that to help you promote your event <https://www.deutsche-botanische-gesellschaft.de/u/72FoPD>

Conference report: First International PlantACT! Conference - how plant sciences can tackle climate crisis

More than 100 scientists discussed how plant science on crops can contribute to mitigate climate crisis at the first international PlantACT! Conference in Düsseldorf, Germany. Co-Organiser Andreas Weber (University of Düsseldorf) summarizes three approaches of science based strategies. The report also suggests other scientific disciplines with which the plant sciences should collaborate. Workshops on how to communicate research results and a public panel rounded off this first meeting of its kind, which will be continued next year in Spain <https://www.deutsche-botanische-gesellschaft.de/u/7266>

Conference report: Molecular Biology of Plants Conference 2024 in Hennef

The 37th Molecular Biology of Plants conference (MBP2024) took place at the Sportschule Hennef (close to Bonn, Germany) from 4th until 7th March 2024. Conference chair Ute Höcker (University of Cologne) shares both scientific and non-scientific highlights of this annual meeting of our Section Plant Physiology and Molecular Biology. This includes the two keynotes on male-female interactions during endosperm development and how potato plants prevent aboveground tuber formation. She also reports the winners of the awards for best talks, best posters and for science communication, as well as about the career session and the outcome of the traditional soccer game between PIs against PhD students and PostDocs. The new venue, Sportschule Hennef, has once again proven to be a first-rate replacement for our previous long-term venue in Dabringhausen <https://www.deutsche-botanische-gesellschaft.de/u/7298>

Conference report: Central German Plant Physiology Meeting 2024

This year's "Mitteldeutsche Pflanzenphysiologietagung" took place for the 22nd time and was hosted by the Friedrich Schiller University Jena. More than 70 researchers - the majority were early career scientists (BSc, MSc and PhD students) - convened in Jena to discuss their latest findings and network with fellow early career researchers. A wide range of plant research topics from Dresden, Halle, Leipzig and Jena were discussed. In total 16 oral presentations and 9 posters were presented, which gave insights into a diverse range of research from fundamental characterization to applied aspects and from unicellular cyanobacteria to higher plants. The guest speaker Julia Kehr (Universität Hamburg) reported about recent work on long-distance RNA signaling in plants in her keynote lecture which could also be followed online in a live-stream. The organisers around Alexandra Furch and Julie Zedler (both: University of Jena) look back on a lively conference which initiated many discussions and thank the DBG for supporting the early career researchers to attend this meeting <https://www.deutsche-botanische-gesellschaft.de/u/7297>

Save the date: Strasburger Hot Topic for ECRs on translation in chloroplasts

DBG's next Eduard Strasburger Hot Topic conference will focus on **Co- and posttranslational control in chloroplasts** in Münster, Germany, from 18th to 20th November 2024. It will be organized by Dr. Jürgen Eirich and Jens Mühlenbeck especially for early career researchers, who are invited to join this event free of fees.

Some well-known speakers in this field have already confirmed their participation. Stay tuned for more information to come.

Stellenangebote / Job openings [Stand: 16. Mai 2024]

Auf der Job-Seite der DBG-Website sind derzeit 11 Stellen ausgeschrieben:

5 Doktorand*innen, 4 PostDoc-Stellen, 1 *Senior Scientist*, 2 Akademische Ratsstellen, 1 Wiss. Mitarbeit-Stelle und 1 Professur <https://www.deutsche-botanische-gesellschaft.de/u/72Jobs>

Wenn auch Sie Ihre Stellen-Ausschreibung bekannt machen möchten, schicken Sie die Information bitte an Stellen@deutsche-botanische-gesellschaft.de (die an unsere Redakteurin Esther Schwarz-Weig weitergeleitet wird). Wir veröffentlichen sie dann sowohl auf der DBG-Website als auch – wenn gewünscht - bei X (ehedem Twitter), sodass Sie Reichweite erzielen und viele Forscher*innen aufmerksam machen können.

How to make use of the forgot-my-password-function

You can only make use of the forgotten-password-function (to access our Intranet), if you have changed your data / become a member since November 2023. Only since then you are able to see and alter the contact details you provided on DBG's website yourself and only since then, the system can provide your name and password. Once you have given yourself an individual password, you can review your data at any time later and easily change e.g. your affiliation, e-mail-address, sections, member status (e.g. from student to ordinary membership) or changes of your bank account details. Giving yourself a new individual password is mandatory, if you wish to use this service in the future. With this you actively help and support the voluntary activities of our Treasurer, Prof. Dr. Raimund Tenhaken, and our General Secretary, Prof. Dr. Caroline Müller, since they see more easily what has changed. Your updated data will also spare DBG's balances from unnecessary chargeback fees from the bank. Thank you very much in advance. (Please note: since the website doesn't offer this feature before the 2023 upgrade you will not be able to see your current data – but only those you provided since November 2023).

Daten ändern in Deutsch: <https://www.deutsche-botanische-gesellschaft.de/u/72mitglied> (bitte „Ich bin bereits Mitglied“ auswählen)

Update your data in English: <https://www.deutsche-botanische-gesellschaft.de/u/72member> (please check „I am already a DBG member“).

News about our upcoming international Botanik-Tagung (BT2024)

More than 100 scientists have already registered to take part in the Botanik-Tagung 2024, despite early bird registration ending on 23rd July 2024. Thanks to conference chair, Prof. Dr. Edgar Peiter, and the great organizing team around him from several institutions a very interesting programme is awaiting you in Halle (Saale) from 15th until 19th September 2024.

Please keep in mind that the last day to **submit an abstract of your contribution** to the international Botanik-Tagung (BT2024) is already on **31st May 2024**. So hurry up and let us know whether you would like to present a poster or an oral paper about your latest research results. We are eager to get to know about it <https://botanik-tagung.de/abstracts/abstract-submission>

All DBG Sections will organize one of the scientific sessions at our international Botanik-Tagung in Halle:

- The Session S18 "**Specialized metabolism**" is organized by our Natural Products Section and will be chaired by Prof. Dr. Ute Wittstock (Braunschweig, DE) and Prof. Dr. Dietrich Ober (Kiel, DE) on 18th September 2024, 14:30 – 16:30 h. The organizers are happy to welcome Dr. Deyang Xu (Copenhagen, DK) as a keynote speaker. His major topics are specialized metabolite trafficking routes and mechanisms at the cellular and subcellular level. ECRs are especially encouraged to contribute talks until 31st May 2024.
- The Session S7 "**Plant development 2**" is organized by our Section Plant Physiology and Molecular Biology and will be chaired by Prof. Dr. Christopher Grefen (Bochum, DE) on 17th September 2024, 10:15 – 12:15 h with a keynote from Prof. Dr. Michael Lenhard (Potsdam, DE)
- The Session S12 "**Applied botany for food security**" is organized by our Section Applied Botany and will be chaired by Prof. Dr. Jutta Papenbrock (Hannover, DE) on 17th September 2024, 14:45 – 16:45 h with a keynote from Prof. Ian Dodd (Lancaster, GB)
- The Session S10 "**Biology of algae and cyanobacteria**" is organized by our Phycology Section and will be chaired by Prof. Dr. Severin Sasso (Leipzig, DE), on 17th September 2024, 14:45 – 16:45 h with a keynote from Prof. Thomas Mock (Norwich, GB)
- The Session S21 "**Plant Systematics, Evolution and Biodiversity**" is organized by our Section Biodiversity and Evolutionary Biology and will be chaired by Dr. Natalia Tkach (Leipzig, DE) and Prof. Dr.

Alexandra Müllner-Riehl (Halle, DE), on 19th September 2024, 09:45 – 11:45 h and will start with a keynote from Prof. Dr. Susann Wicke (Berlin, DE)

- The Session S19 "**Resisting pathogens and pests**" is organized by our Section for Interactions and will be chaired by Dr. Sophie de Vries (Göttingen, DE) on 19th September 2024, 09:45 – 11:45 h and will start with a keynote from Dr. Alison Bennett (Columbus, OH, US)

The **workshops** are also listed on the conference website. Some of them have a limited number of participants. The places will be provided on a first come first serve basis. The workshops span the following topics:

- Assay Design Guidelines for qPCR and dPCR (Martin Becker, Stilla Technologies)
- Plant Lighting and Energy Efficiency (Krzysztof Dobrynin, Bilberry)
- Introduction to Reproducibility in Plant Science (limited number of participants, Susann Auer, TU Dresden)
- Scientific Writing and Publishing (Mary Williams, ASPB)
- Phenotyping Workshop (Simone Gatzke, FZ Jülich)
- Plant Water Status Workshop (ICT International)
- Wie Forschungs- und Selbstpräsentation gelingen (limited number of participants, Esther Schwarz-Weig, WissensWorte)
- Wie kommt (m)ein Thema in die Medien? (limited number of participants, Esther Schwarz-Weig, WissensWorte)

<https://botanik-tagung.de/programme/scientific-programme#c17357>

Participants have the opportunity to undertake the following **excursions**, taking place either on Thursday, 19th September or Friday, 20th September:

- Leibniz Institute of Plant Genetics and Crop Plant Research (IPK), Gatersleben: Explore two world-class research facilities: the Gatersleben Genebank, which is the largest genebank for crops in the EU, and the PhenoSphere, which is a unique in-door facility for non-destructive and highly-automated crop phenotyping (incl. bus shuttle).
- Leipzig Canopy Crane: the impressive Canopy Crane is a 40m-high, largescale research device to study biodiversity that spans an area of 16,500 m².
- Visit to the experimental station at Bad Lauchstädt: which hosts the Ecotron, the MyDiv Biodiversity-Ecosystem Functioning Experiment and the Global Change Experimental Facility.
- Botanical Garden of Halle (Saale): Absolutely worth seeing: Explore the diversity of plants on a guided tour through the botanical garden of Halle (Saale)

<https://botanik-tagung.de/programme/scientific-programme#c17366>

Conference chair, Prof. Dr. Edgar Peiter and his organizing committee, are inviting you to the **botany party** (conference dinner) in the historic Volkspark building, established 1907. The building is one of the popular Volkshaus, a European type of leisure, cultural and community centre and is located on top of river Saale's waterside promenade.

General information on our international Botanik-Tagung (BT2024)

The Botanik-Tagung, our International Conference of the German Society for Plant Sciences, at Halle/Saale, Germany, will bring together 29 internationally leading plenary and keynote speakers, who span the entire field of plant sciences - from molecules to ecosystems. This year's motto **Growing Solutions for Growing Challenges** reflects the potential of plant sciences to counter existential problems of our planet, such as carbon sequestration and the adaptation of crops to climate change challenges. The Botanik-Tagung furthers scientific exchange to improve our fundamental understanding of plants and to translate it into resilient crops and ecosystems. Join our conference in the heart of Europe, where more than 500 plant scientists are expected to attend.

- read the entire Welcome Note <https://botanik-tagung.de/general-information/welcome-note>
- Conference Poster including all Plenary and Keynote Speakers as well as all Sessions: <https://www.deutsche-botanische-gesellschaft.de/u/72BTposter> (pdf)
- The conference website already contains the speakers' names of the plenary lectures as well as the dates of the several sessions and the opening lecture. There will also be a public evening lecture (in German) <https://programme.conventus.de/botanik-2024/program/schedule/2024-09-15/grid>
- Childcare is available throughout the whole conference <https://botanik-tagung.de/registration/childcare>
- For the first time in the history of our Botanik-Tagung, catering will be completely vegetarian

For more details check out the conference website <https://botanik-tagung.de>

Follow Botanik-Tagung in Social Media

You can also stay informed by following the Botanik-Tagung channels in Social Media, which are kindly updated by Prof. Dr. Sascha Laubinger:

- BlueSky: <https://bsky.app/profile/bt2024dbg.bsky.social>
- X (former Twitter): <https://twitter.com/BT2024DBG> (Hashtag: #BT2024DBG)

Aus unseren Sektionen / News from our Sections

Die **Mitgliederversammlungen unserer sechs Sektionen** finden alle am 17. September 2024 jeweils von 19:00 bis 21:00 Uhr in Halle statt.

Die **Sektion Pflanzenphysiologie und Molekularbiologie**, die **Sektion Pflanzliche Naturstoffe** und die **Sektion Angewandte Botanik** laden ihre Mitglieder u.a. zur turnusgemäßen **Wahl** der Sprecher*innen ein.

Call for papers for a special section on Urban Botany

Our Section Applied Botany (SAB) invites submissions for a special section of its journal with the title "Applied botany in urban areas - Mitigation of climate change". Since plants in urban areas usually do not provide food, feed or raw materials but provide a wide range of ecosystem services to urban populations this section is planned to focus on these services. Please contribute to our understanding and further development of green cities and submit original research articles as well as reviews **until 31st May 2024** to the Journal of Applied Botany and Food Quality (JABFQ). Members of the Section are eligible to publish their paper open access without fees. Details on SAB's website <https://www.deutsche-botanische-gesellschaft.de/u/72urbanBotany>

Call for papers of our journal Plant Biology

Call for Papers (1)

Plant-induced resistance and biocontrol as tools for integrated pest and pathogen management

Plant Biology invites contributions from researchers across various disciplines to explore the multifaceted strategies of utilizing plant-induced resistance and biocontrol agents for effective management of pests and pathogens in agricultural and natural ecosystems. We welcome original research papers, reviews, and perspectives that delve into the mechanisms underlying plant-induced resistance, the ecological roles of biocontrol agents, and their integration into sustainable pest and pathogen management strategies. Topics of interest include, but are not limited to, the molecular basis of induced resistance, the efficacy and safety of biocontrol agents, ecological and environmental interactions within the plant-microbe-insect, and practical applications of these approaches in crop protection and ecosystem management. Through this special issue, we aim to foster interdisciplinary dialogue, advance scientific understanding, and promote innovative solutions towards sustainable agriculture and environmental conservation. Researchers are encouraged to submit their contributions for consideration, contributing to the collective effort in addressing the global challenges of pest and pathogen control while minimizing environmental impacts. Deadline for contributions to this issue edited by Monica Höfte, Vojislava Grbic, María Manresa-Grao, Rosa M^a Sánchez-Lucas, Paloma Sánchez-Bel, Victoria Pastor is 15th September 2024 <https://onlinelibrary.wiley.com/page/journal/14388677/homepage/cfp-plant-induced-resistance>

Call for Papers (2)

Special Issue in Plant Biology: Ecology and Evolution of Plant Chemodiversity

Plants produce a fascinatingly large number of specialised (secondary) metabolites. While research on chemodiversity (among plant populations, within populations among individuals and even within individuals among different organs or tissues) is recently drastically increasing, our knowledge of the evolutionary drivers of such chemodiversity and its ecological consequences is limited. Overall, a better understanding of the HOW and WHY of chemodiversity is urgently needed. Chemodiversity may help plants to cope with global change, play a role in invasion processes and enhance the resilience of crop plants, thereby improving sustainable plant production. Our journal Plant Biology welcomes research articles as well as reviews considering different spatial or temporal levels of chemodiversity, including among population, within population or within individual variation. Manuscripts can include laboratory work, greenhouse studies, field observations or modelling approaches. The deadline to contribute to this special issue is extended to 31st May 2024 <https://onlinelibrary.wiley.com/journal/14388677/homepage/cfp-chemodiversity>
Papers can be submitted via <https://mc.manuscriptcentral.com/plabio>

Call for Papers (3)

Special Issue in Plant Biology: Impacts of Recurrent Droughts and Drought Legacies on Plants and Ecosystems

Severe droughts are currently affecting ecosystem functioning worldwide. Drought legacies may alter the resilience to subsequent droughts and inversely, recurrent droughts may amplify or buffer drought legacies. In view of the accelerating climate change, a better understanding of the mechanisms driving drought legacies is urgently needed. With this special issue in our journal *Plant Biology* we aim to enhance experimental and observational evidence of mechanisms and effects of recurrent droughts and drought legacies. We welcome contributions from the organ, species, and communities to ecosystem scale, comprising experimental work, field observations, and modelling approaches. The deadline to contribute to this special issue is extended to 30th September 2024 <https://onlinelibrary.wiley.com/journal/14388677/homepage/cfp-recurrent-drought>

Authors working in German institutes are able to publish papers, viewpoints and (short) reviews in our journal **Plant Biology** open access free of charge, thanks to the DEAL agreement. The website of the DEAL Consortium <https://deal-konsortium.de/en/> provides all information for German institutions, scientific authors and interested people.

DBG-geförderte Fachtagungen / DBG supported meetings [latest check: 14th May 2024]

The annual **Plant Science Student Conference (PSSC)** will be held from 17th to 20th June at the Leibniz Institute of Plant Biochemistry in Halle (Saale), Germany. It is organized by PhD students for about 100 PhD students in the field of plant and natural product research. The conference is open to PhD students in the plant sciences, including biology, biochemistry and molecular biology, but traditionally focuses on students from the Leibniz Institute of Plant Biochemistry, the Leibniz Institute of Plant Genetics and Crop Plant Research Gatersleben, CEPLAS students and students of the Martin-Luther-Universität Halle-Wittenberg (MLU). Of course, everyone from this field is welcome. Registration ends on 20th May. More information can be found at <https://pssc2024.wixstudio.io/ipbhalle>

The **2nd European Photosynthesis Congress (ePS2) - ePS Young Session** will be organized by Dr. Anja Krieger-Liszky in Padua, Italy, from 24th to 25th June 2024. Late registration closes on 12th June 2024 <https://www.eps2.org/eps-young>

The **21st International Symposium on Iron Nutrition and Interactions in Plants (ISINIP)** will be organized in Düsseldorf, Germany, from 8th to 11th July 2024 by Prof. Dr. Petra Bauer (University of Düsseldorf) followed by an excursion on 12th July. Traditionally, this gathering brings together a community of dedicated researchers who share a common interest in understanding the mobilization, uptake, allocation, and utilization of iron, a crucial micronutrient for plants <https://www.isinip2024.de>

The **18th International Symposium on Insect-Plant Relationships (SIP)** will be held from 4th to 8th August 2024 in Bielefeld, Germany. This conference is taking place only every three years and will be organised by Prof. Caroline Müller, Dr. Rabea Schweiger and Christine Fiebig from the Department of Chemical Ecology, Bielefeld University. Registration will close on 21st July. Deadline for abstract submission is 31st May <https://uni-bielefeld.de/sip2024>

The **International Conference on Thermomorphogenesis** will take place at Julius-Maximilians-Universität Würzburg, Germany, from 4th to 6th September 2024. If you want to join the conference or have questions about programme and details, please contact the conference organiser, Dr. Daniel Maag <https://www.biozentrum.uni-wuerzburg.de/en/pbio/mueller-lab/group-dr-daniel-maag/>

The **Symposium of the International Society of Endocytobiology 2024** will be organized in Bochum, Germany, from 10th to 12th September 2024. Prof. Dr. Danja Schünemann is one of the organizers. Registration will close on 30th June <http://www.chromera.org/konferenz/ise-symposium-2024>

The **1st International Workshops on Alpine and Mountain Plants (iWAMP)** will be organized in San Michele all'Adige, Italy, from 23rd to 25th October 2024 by Dr. Stefan Martens. The first plenary speakers have confirmed their participation and early bird registration as well as abstract submission are open now <https://sites.google.com/fmach.it/iwamp2024>

DBG's **Eduard Strasburger Hot Topic conference** for early career researchers (ECR) will focus on **Co- and posttranslational control in chloroplasts** and is planned to take place in Münster, Germany, from 18th to 20th November 2024 [see DBG news rubric above]

DBG gewährt Zuschüsse zu Fachtagungen

Die DBG unterstützt auf Antrag Tagungen, um die wissenschaftliche Diskussion und den Austausch der Forschenden zu fördern. Der Gesellschaft liegt vor allem daran, die Teilnahme von Wissenschaftler*innen im frühen Karrierestadium zu unterstützen. Bewerben auch Sie sich für eine Tagungsförderung durch die DBG <https://www.deutsche-botanische-gesellschaft.de/u/72meet>

Weitere Tagungen und Termine / *More dates and conferences* [latest check: 14th May 2024]

The **joint meeting of the Biogeography specialist group** (AK Biogeographie) within the Federation of Geographers at German Universities and the **Macroecology specialist group** (AK Makroökologie) within the Ecological Society of Germany, Austria and Switzerland (GfÖ) will be hosted at the University of Marburg, Germany, from 13th to 14th June 2024

<https://www.uni-marburg.de/en/fb17/disciplines/biodiversity-of-plants/ag-zizka/gfoe-macro-2024>

The EMBO Workshop **Plant Genome Stability and Change** is offered from 16th to 19th June 2024 in Olomouc, Czech Republic <https://meetings.embo.org/event/24-plant-genome>

The **Plant Science Student Conference (PSSC)** will be held from 17th to 20th June 2024 at the Leibniz Institute of Plant Biochemistry in Halle (Saale), Germany [see details in the “DBG supported meetings” rubric above]

The **summer school “Plant science to tackle climate change”** will be jointly organized by plant scientists of the French Saclay Plant Sciences (SPS) network and the German Cluster of Excellence on Plant Sciences (CEPLAS) in Saint-Lambert-des-Bois (40 km from Paris, France) from 16th to 21st June 2024. Limited to 20 participants <https://eng-saclay-plant-sciences.hub.inrae.fr/teaching-and-training/summer-schools/summer-school-2024>

The 8th Congress of the International Society of **Applied Phycology** (ISAP2024) will take place in Porto, Portugal, from 16th to 21st June 2024 <https://isap2024.com/>

Plant Biology 2024 will celebrate the centennial of the American Society of Plant Biologists (ASPB) and the plant science community in Honolulu, Hawaii, from 22nd to 26th June 2024. Deadline to submit a poster is May 29th <https://plantbiology.aspb.org/>

The **2nd European Photosynthesis Congress (ePS2) - ePS Young Session** will be organized in Padua, Italy, from 24th to 25th June 2024 [see details in the “DBG supported meetings” rubric above]

The 13th **International Congress on Plant Molecular Biology** will be held in Cairns, Australia, from 24th to 28th June 2024 <https://www.ipmb2024.org/>

The Workshop **Plant Calcium Signaling** organised by EMBO is a hybrid event in Lisbon, Portugal, from 1st to 4th July 2024 <https://meetings.embo.org/event/24-calcium-signaling>

The **4th Wild Plant Pathosystems conference** is planned to start in Kiel, Germany, on the 7th July 2024 and will last until 10th July <https://wildplantpath.net/>

The **International Symposium on Iron Nutrition and Interactions in Plants (ISINIP)** will take place in Düsseldorf, Germany, from 8th to 11th July 2024, with an excursion on July 12th [see details in the “DBG supported meetings” rubric above]

The EMBO | CoB Workshop **Plant Tropisms** will be held at the National Institute of Basic Biology in Okazaki, Japan, and hybrid from 9th to 12th July 2024 and will be organised by Miyo Morita, Christian Fankhauser, and Claus Schwechheimer. Registration ends on 31st May 2024 <https://meetings.embo.org/event/24-plant-tropisms>

The **2024 EPIPLANT Symposium on Plant Epigenetics** will take place at Clermont-Ferrand, France, from 10th to 12th July 2024 <http://epiplant-seb-2024.sciencesconf.org>

The **International Conference on Arabidopsis Research (ICAR)** will be organised in San Diego (USA) from 15th to 19th July 2024 and aims to gather up to 1,000 scientists whose primary research organism is the model plant *Arabidopsis thaliana*. Poster submission ends on 31st May 2024 <https://icar2024.weebly.com/>

The 20th **International Botanical Congress (IBC)** will take place in Madrid, Spain, 21st to 27th July 2024, preceded by a **Nomenclature** Section (15th to 19th July 2024). Regular registration closes on 15th July. Late registration is possible until 27th July <https://ibcmadrid2024.com/index.php>

The 18th **International Symposium on Insect-Plant Relationships (SIP)** will be held from 4th to 8th August 2024 in Bielefeld, Germany [see details in the “DBG supported meetings” rubric above]

From August 18th to 23rd 2024, the **Eucarpia General Congress** will be held in Leipzig, Germany. Late registration deadline is 15th July 2024 <https://meetings.ipk-gatersleben.de/eucarpia/>

The 3rd **International Plant Immunity Symposium (IPIS 2024)** will be held in Göttingen, Germany, from 26th to 28th August 2024, organized by P^RoTECT (Plant Responses To Eliminate Critical Threats) International Research Training Group 2172. Abstract submission and registration deadlines are 30th June 2024 <https://www.uni-goettingen.de/de/684252.html>

The 56th **Annual Conference of the German Society of Plant Nutrition (DGP)** is scheduled to take place in Bonn, Germany, from 2nd to 4th September 2024. Early bird registration and abstract submission end 1st July 2024 <https://www.plant-nutrition.de/dgp2024/>

The **Plant Proteases Congress** is planned at University of Hohenheim from 3rd to 5th September 2024. It is organized by Andreas Schaller, Annick Stintzi and Pitter Huesgen. Abstract submission deadline is 31st July; early bird registration ends 15th June <https://plant-proteases-2024.uni-hohenheim.de/>

The **International Conference on Thermomorphogenesis** will take place at Julius-Maximilians-Universität Würzburg, Germany, from 4th to 6th September 2024 [see details in the “DBG supported meetings” rubric above]

Integrated Control in Oilseed Crops - Are we nearly there yet? asks the 19th workshop of the International Organisation for Biological and Integrated Control (IOBC) working group. The workshop will be organised by Prof. Dr. Jutta Ludwig Müller at Technische Universität Dresden on 10th and 11st September 2024. Deadline for registration and submission of abstracts/extended abstracts will be on 31st May. Deadline for submission of full papers will be on 15th June 2024 <https://tu-dresden.de/mn/biologie/pflanzenphysiologie/iobc-2024>

The **International Clubroot Workshop** also taking place at Technische Universität Dresden on 12th September 2024 will also be organised by Prof. Dr. Jutta Ludwig Müller and follow the workshop listed in the former paragraph. It will bring together the latest advances in research on disease development, progress in controlling the disease, breeding and epidemiology. Deadline for registration and submission of abstracts is 31st May 2024 <https://tu-dresden.de/mn/biologie/pflanzenphysiologie/iobc-2024/internationalclubroot-Workshop>

The next **Botanik-Tagung, International Conference of our German Society for Plant Sciences**, will open its doors at Halle University, Germany, from 15th to 19th September 2024 [see details in the “News from our DBG” rubric above]

Our Botanik-Tagung (s.a.) will directly be followed by the following **Satellite Meeting 2nd Early Career Plant Researcher Network Meeting** for experienced PhD students and postdoctoral researchers taking place in Halle on 19th and 20th September 2024. It is organized by Dr Debora Gasperini (Leibniz Institute of Plant Biochemistry), Prof. Dr Kristina Kühn (Martin Luther University), Prof. Dr Sascha Laubinger (Martin Luther University) and Prof. Dr Marcel Quint (Martin Luther University). Dr Mary Williams from ASPB is one of the speakers. Several workshops are planned: “Getting funded”, “Diversity and Inclusion in academia”, “Taking Center Stage: An Interview Role-Play Workshop” <https://www.plant-ecr-networking.eu>

The **German Conference on Synthetic Biology 2024 (GCSB 2024)** is set to take place in Regensburg, Germany, from 18th to 20th September 2024. This programme is jointly organized by the German Association for Synthetic Biology (GASB) which is DECHEMA’s joint subject division on Synthetic Biology (Gemeinsame Fachgruppe Synthetische Biologie), a collaboration between our DBG, DECHEMA, GBM, VAAM and GDCh. DBG’s contact persons in GFGSB’s board are Dr Götz Hensel, Prof. Dr Alain Tissier and Prof. Dr Bernd Müller-Röber <https://gcsb2024.de>

The international symposium **Perspectives on Protein Networks in Plants (PNP)** at the Institute de Biologie Moléculaire des Plantes (IBMP) in Strasbourg, France, takes place on 19th and 20th September 2024. Abstract submission deadline (for talks) will be on 8th August 2024; registration deadline is on 30th June <https://pnp2024.sciencesconf.org/>

The **5th European Conference on Natural Products** of DECHEMA takes place at Congress Centrum Würzburg, Germany, from 22nd to 24th October 2024. Deadline for a last minute poster submission is 15th September 2024 <https://dechema.de/en/ECNP2024.html>

The **1st International Workshops on Alpine and Mountain Plants (iWAMP)** will be organized in San Michele all'Adige, Italy, from 23rd to 25th October 2024 [see details in the "DBG supported meetings" rubric above]

The meeting **Molecular Adaptation to Land: plant evolution to change** of the DFG priority programme 2237 will be hosted in Göttingen, Germany, from 30th September until 2nd October 2024. Registration and abstract submission deadline end on 15th July <https://madland-meeting.de/>

DBG's **Eduard Strasburger Hot Topic conference** for early career researchers (ECR) will focus on "**Co- and posttranslational control in chloroplasts**" and is planned to take place in Münster, Germany, from 18th to 20th November 2024 [see details in the DBG rubric above]

Newsletter-Echo: Meistgeklickter Link der letzten Ausgabe

Maisgene kontrollieren, welche Mikroorganismen sich an der Wurzel tummeln

Wie ein internationales Forschungsteam unter Bonner Federführung an verschiedenen lokalen Maissorten herausfand, bestimmt nicht allein der Boden welche Bakterien und Pilze sich in der wenige Millimeter dünnen Schicht um die Wurzeln befinden, sondern auch die Erbanlagen der Pflanze. Das berichten sie im Journal *Nature Plants* <https://www.deutsche-botanische-gesellschaft.de/u/72005>

PS: Redaktionsschluss für die kommende Ausgabe ist der **1. Juli 2024**. Für inhaltliche Anregungen, Wünsche, Kritik und Fragen schreiben Sie / schreibt bitte dem geschäftsführenden Präsidium (E-Mail: Vorstand@deutsche-botanische-gesellschaft.de) oder Ihrer / Eurer Redakteurin, Dr. Esther Schwarz-Weig (E-Mail: dbg@WissensWorte.de). Redaktionsschluss dieser Ausgabe war der 13. Mai 2024.

Abbestellen des Newsletters

Mitglieder erhalten unseren Newsletter, damit wir Sie über unsere Aktivitäten informieren, unseren satzungsgemäßen Zielen dienen und Sie auf dem Laufenden halten können. Dazu nehmen wir die Verwahrung Ihrer Daten sehr ernst (<https://www.deutsche-botanische-gesellschaft.de/datenschutz/>). Im Newsletter angeklickte Links zur DBG-Website werden anonym gezählt. Sie können dem Bezug dieses Newsletters jederzeit widersprechen. Schicken Sie dazu bitte eine E-Mail an unsere Generalsekretärin caroline.mueller@uni-bielefeld.de oder informieren Sie uns über das Kontaktformular <https://www.deutsche-botanische-gesellschaft.de/kontakt/kontakt-mittels-mail-formular/>