Dietrich Ober

List of Publications by Year in descending order

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DIFTRICH ORFR

| # | Article | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | Insights into polyamine metabolism: homospermidine is double-oxidized in two discrete steps by a single copper-containing amine oxidase in pyrrolizidine alkaloid biosynthesis. Plant Cell, 2022, 34, 2364-2382. | 6.6 | 11 |
| 2 | Development of an activity assay for characterizing deoxyhypusine synthase and its diverse reaction products. FEBS Open Bio, 2021, 11, 10-25. | 2.3 | 5 |
| 3 | CRISPR/Cas9-Mediated Genome Editing in Comfrey (Symphytum officinale) Hairy Roots Results in the Complete Eradication of Pyrrolizidine Alkaloids. Molecules, 2021, 26, 1498. | 3.8 | 19 |
| 4 | Specific Distribution of Pyrrolizidine Alkaloids in Floral Parts of Comfrey (Symphytum officinale) and its Implications for Flower Ecology. Journal of Chemical Ecology, 2019, 45, 128-135. | 1.8 | 23 |
| 5 | Reduction of Pyrrolizidine Alkaloid Levels in Comfrey (Symphytum officinale) Hairy Roots by RNAi Silencing of Homospermidine Synthase. Planta Medica, 2019, 85, 1177-1186. | 1.3 | 12 |
| 6 | Crystal structure of pyrrolizidine alkaloid <i>N</i> -oxygenase from the grasshopper <i>Zonocerus variegatus</i> . Acta Crystallographica Section D: Structural Biology, 2018, 74, 422-432. | 2.3 | 12 |
| 7 | Radioactive Tracer Feeding Experiments and Product Analysis to Determine the Biosynthetic Capability of Comfrey (Symphytum officinale) Leaves for Pyrrolizidine Alkaloids. Bio-protocol, 2018, 8, e2719. | 0.4 | 2 |
| 8 | Identification of a Second Site of Pyrrolizidine Alkaloid Biosynthesis in Comfrey to Boost Plant Defense in Floral Stage [,] . Plant Physiology, 2017, 174, 47-55. | 4.8 | 21 |
| 9 | Variability of Pyrrolizidine Alkaloid Occurrence in Species of the Grass Subfamily Pooideae (Poaceae). Frontiers in Plant Science, 2017, 8, 2046. | 3.6 | 9 |
| 10 | Comprehensive Structural Characterization of the Bacterial Homospermidine Synthase–an Essential Enzyme of the Polyamine Metabolism. Scientific Reports, 2016, 6, 19501. | 3.3 | 19 |
| 11 | Familial classification of the Boraginales. Taxon, 2016, 65, 502-522. | 0.7 | 93 |
| 12 | Paralogue Interference Affects the Dynamics after Gene Duplication. Trends in Plant Science, 2015, 20, 814-821. | 8.8 | 31 |
| 13 | Single cell subtractive transcriptomics for identification of cell-specifically expressed candidate genes of pyrrolizidine alkaloid biosynthesis. Phytochemistry, 2015, 117, 17-24. | 2.9 | 7 |
| 14 | New aspect of plant–rhizobia interaction: Alkaloid biosynthesis in <i>Crotalaria</i> depends on nodulation. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 4164-4169. | 7.1 | 52 |
| 15 | Evolution of Homospermidine Synthase in the Convolvulaceae: A Story of Gene Duplication, Gene Loss, and Periods of Various Selection Pressures Â. Plant Cell, 2013, 25, 1213-1227. | 6.6 | 38 |
| 16 | Distinct Cell-Specific Expression of Homospermidine Synthase Involved in Pyrrolizidine Alkaloid Biosynthesis in Three Species of the Boraginales Â. Plant Physiology, 2012, 159, 920-929. | 4.8 | 18 |
| 17 | Independent Recruitment of a Flavin-Dependent Monooxygenase for Safe Accumulation of Sequestered Pyrrolizidine Alkaloids in Grasshoppers and Moths. PLoS ONE, 2012, 7, e31796. | 2.5 | 23 |
| 18 | Evolutionary recruitment of a flavin-dependent monooxygenase for stabilization of sequestered pyrrolizidine alkaloids in arctiids. Phytochemistry, 2011, 72, 1576-1584. | 2.9 | 22 |

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| 19 | The evolution of pyrrolizidine alkaloid biosynthesis and diversity in the Senecioneae. Phytochemistry Reviews, 2011, 10, 3-74. | 6.5 | 64 |
| 20 | Flavin-Dependent Monooxygenases as a Detoxification Mechanism in Insects: New Insights from the Arctiids (Lepidoptera). PLoS ONE, 2010, 5, e10435. | 2.5 | 60 |
| 21 | Evolution of pyrrolizidine alkaloids in Phalaenopsis orchids and other monocotyledons: Identification of deoxyhypusine synthase, homospermidine synthase and related pseudogenes. Phytochemistry, 2009, 70, 508-516. | 2.9 | 24 |
| 22 | Homospermidine in transgenic tobacco results in considerably reduced spermidine levels but is not converted to pyrrolizidine alkaloid precursors. Plant Molecular Biology, 2009, 71, 145-155. | 3.9 | 13 |
| 23 | Pyrrolizidine alkaloid biosynthesis, evolution of a pathway in plant secondary metabolism. Phytochemistry, 2009, 70, 1687-1695. | 2.9 | 68 |
| 24 | Pyrrolizidine Alkaloid Biosynthesis in <i>Phalaenopsis</i> Orchids: Developmental Expression of Alkaloid-Specific Homospermidine Synthase in Root Tips and Young Flower Buds. Plant Physiology, 2008, 148, 751-760. | 4.8 | 23 |
| 25 | Defense by Pyrrolizidine Alkaloids: Developed by Plants and Recruited by Insects. , 2008, , 213-231. | | 22 |
| 26 | Tissue distribution, core biosynthesis and diversification of pyrrolizidine alkaloids of the lycopsamine type in three Boraginaceae species. Phytochemistry, 2007, 68, 1026-1037. | 2.9 | 48 |
| 27 | Tissue distribution and biosynthesis of 1,2-saturated pyrrolizidine alkaloids in Phalaenopsis hybrids (Orchidaceae). Phytochemistry, 2006, 67, 1493-1502. | 2.9 | 42 |
| 28 | Recruitment of alkaloid-specific homospermidine synthase (HSS) from ubiquitous deoxyhypusine synthase: Does Crotalaria possess a functional HSS that still has DHS activity?. Phytochemistry, 2005, 66, 1346-1357. | 2.9 | 17 |
| 29 | Seeing double: gene duplication and diversification in plant secondary metabolism. Trends in Plant Science, 2005, 10, 444-449. | 8.8 | 153 |
| 30 | Polyphyletic Origin of Pyrrolizidine Alkaloids within the Asteraceae. Evidence from Differential Tissue Expression of Homospermidine Synthase. Plant Physiology, 2004, 136, 4037-4047. | 4.8 | 51 |
| 31 | Repeated Evolution of the Pyrrolizidine Alkaloid–Mediated Defense System in Separate Angiosperm Lineages wâ∫ž. Plant Cell, 2004, 16, 2772-2784. | 6.6 | 94 |
| 32 | Evidence for general occurrence of homospermidine in plants and its supposed origin as by-product of deoxyhypusine synthase. Phytochemistry, 2003, 62, 339-344. | 2.9 | 34 |
| 33 | Chapter nine Chemical ecology of alkaloids exemplified with the pyrrolizidines. Recent Advances in Phytochemistry, 2003, 37, 203-230. | 0.5 | 10 |
| 34 | Molecular Evolution by Change of Function. Journal of Biological Chemistry, 2003, 278, 12805-12812. | 3.4 | 58 |
| 35 | Evolutionary recruitment of a flavin-dependent monooxygenase for the detoxification of host plant-acquired pyrrolizidine alkaloids in the alkaloid-defended arctiid moth Tyria jacobaeae. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 6085-6090. | 7.1 | 113 |
| 36 | Cell-Specific Expression of Homospermidine Synthase, the Entry Enzyme of the Pyrrolizidine Alkaloid Pathway in Senecio vernalis, in Comparison with Its Ancestor, Deoxyhypusine Synthase. Plant Physiology, 2002, 130, 47-57. | 4.8 | 68 |

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| 37 | Phylogenetic origin of a secondary pathway: the case of pyrrolizidine alkaloids. Plant Molecular Biology, 2000, 44, 445-450. | 3.9 | 42 |
| 38 | Biosynthesis and Metabolism of Pyrrolizidine Alkaloids in Plants and Specialized Insect Herbivores. Topics in Current Chemistry, 2000, , 207-243. | 4.0 | 99 |
| 39 | Deoxyhypusine Synthase from Tobacco. Journal of Biological Chemistry, 1999, 274, 32040-32047. | 3.4 | 78 |
| 40 | Homospermidine synthase of Rhodopseudomonas viridis: Substrate specificity and effects of the heterologously expressed enzyme on polyamine metabolism of Escherichia coli Journal of General and Applied Microbiology, 1996, 42, 411-419. | 0.7 | 17 |
| 41 | Purification, Molecular Cloning and Expression in Escherichia coli of Homospermidine Synthase from Rhodopseudomonas viridis. FEBS Journal, 1996, 240, 373-379. | 0.2 | 38 |
| 42 | Biosynthesis of pyrrolizidine alkaloids: putrescine and spermidine are essential substrates of enzymatic homospermidine formation. Canadian Journal of Chemistry, 1994, 72, 80-85. | 1.1 | 60 |
| 43 | A complete digitization of German herbaria is possible, sensible and should be started now. Research Ideas and Outcomes .0.6 | 1.0 | 18 |