

Research

- 1650 **Chlorosis as a Developmental Program in Cyanobacteria: The Proteomic Fundament for Survival and Awakening**
[S] *Philipp Spät, Alexander Klotz, Sascha Rexroth, Boris Maček, and Karl Forchhammer*
- 1670 **Discovery of Novel Cell Surface Markers for Purification of Embryonic Dopamine Progenitors for Transplantation in Parkinson's Disease Animal Models**
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- 1685 **Biochemical Characterization of Isoniazid-resistant *Mycobacterium tuberculosis*: Can the Analysis of Clonal Strains Reveal Novel Targetable Pathways?**
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- 1702 **Integrated Phloem Sap mRNA and Protein Expression Analysis Reveals Phytoplasma-infection Responses in Mulberry**
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- 1737 **A Peptidomic Approach to Characterize Peptides Involved in Cerebellar Cortex Development Leads to the Identification of the Neurotrophic Effects of Nociceptin**
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- 1766 **Quantifying and Localizing the Mitochondrial Proteome Across Five Tissues in A Mouse Population**
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- 1778 **Glycomic and Proteomic Changes in Aging Brain Nigrostriatal Pathway**
[S] *Rekha Raghunathan, Nicole K. Polinski, Joshua A. Klein, John D. Hogan, Chun Shao, Kshitij Khatri, Deborah Leon, Mark E. McComb, Fredric P. Manfredsson, Caryl E. Sortwell, and Joseph Zaia*

On the Cover: Chlorotic *Synechocystis* sp. PCC 6803 cells (left) resuscitate from dormancy upon nitrogen availability in a stepwise developmental program. Transmission electron micrographs reveal the re-assembly of thylakoid membranes (*) and reduction of storage polymers (PHB, polyhydroxybutyrate granules; G, glycogen granules) after 24 h of resuscitation (top). After 48–72 h, cells reach a vegetative growth state and full photosynthetic capacity (right). For details, see the article by Forchhammer *et al.*, pages 1650–1669.

- 1788 **Quantitative Proteomic Analysis Identifies AHNAK (Neuroblast Differentiation-associated Protein AHNAK) as a Novel Candidate Biomarker for Bladder Urothelial Carcinoma Diagnosis by Liquid-based Cytology**
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