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CHEMBIOCHEM

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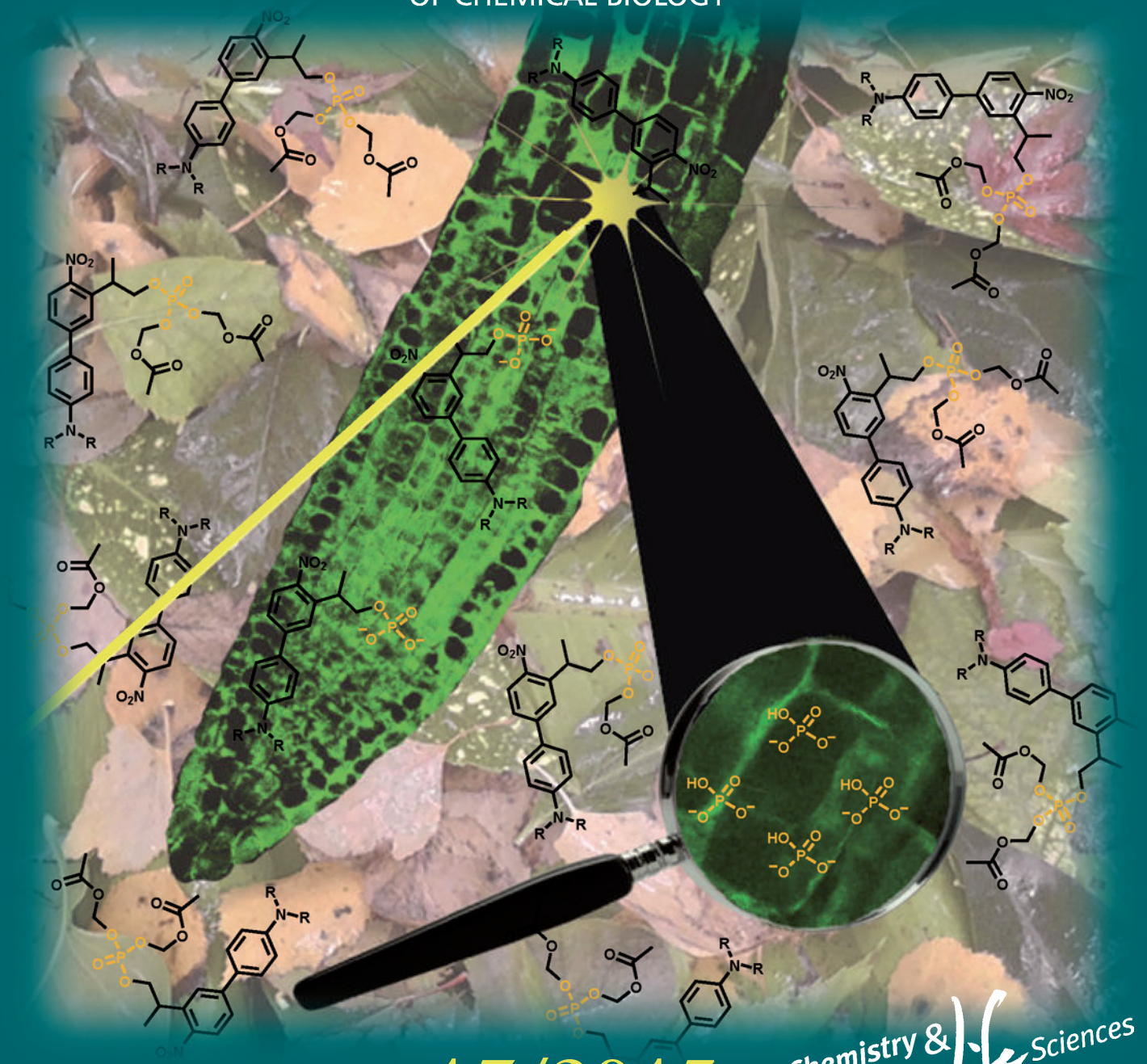

17/2013

Chemistry & Life Sciences

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Highlight: Biomimetic Assembly of the [FeFe] Hydrogenase (W. Weigand)

Original contributions: Yeast Three-Hybrid Screening for Identifying Anti-Tuberculosis Drug Targets (K. Johnsson)

Cause of the ATP/ADP Substrate Specificity Switch between *T. gondii* NTPDase1 and -3 (N. Sträter)

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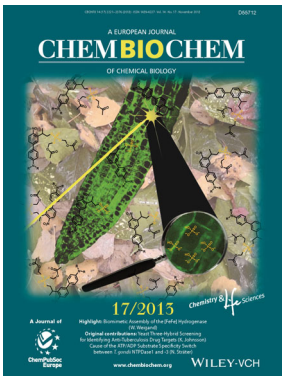
Cover Picture

Cyril Herbivo, Ziad Omran, Julia Revol, Hélène Javot*, and Alexandre Specht*



The cover picture shows a membrane-permeable photolabile precursor of inorganic phosphate (Pi). The EANBP caged-Pi molecules can accumulate intracellularly by using acetoxymethyl (AM) groups for cell delivery. This principle is schematically represented here, as applied to root-tip cells from the plant *Arabidopsis thaliana*. The caged-Pi molecule is able to release Pi efficiently, either after visible light irradiation, or after two-photon excitation at 800 nm. Altogether, this membrane-permeable caged Pi allows the generation and maintenance of a considerable pool of intracellular Pi, thus making it suitable for the study of the Pi signal-transduction cascade in living cells, including plant cells. For further information, see the paper by H. Javot, A. Specht, et al. on p. 2277 ff.