

BIOLOGICAL CHEMISTRY

*Founded in 1877 by Felix Hoppe-Seyler as
Zeitschrift für Physiologische Chemie*

Felix Hoppe-Seyler (1825–1895) was a pioneer of biochemistry, remembered not only for his discovery of hemoglobin and his contributions to the chemical characterization of many other biological compounds and processes but also for having been the mentor of Friedrich Miescher and Albrecht Kossel. In his preface to the first issue of *Zeitschrift für Physiologische Chemie*, Felix Hoppe-Seyler coined the term *Biochemistry* ('Biochemie') for the then newly emerging discipline.



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COVER ILLUSTRATION

Mutations in the gene coding for the multi-domain protein leucine-rich repeat kinase 2 (LRRK2) are the leading cause of genetically inherited Parkinson's disease (PD). In the article by Athanasopoulos et al. on pp. 541–554 in this issue, protein phosphatase 2A (PP2A) is identified as an interacting partner of LRRK2. The fluorescence image on the front cover demonstrates that LRRK2 interacts with PP2A using the Proximity Ligation Assay in HeLa cells; nuclei are stained with Hoechst 33342 (blue color), while the LRRK2-PP2A interaction is indicated by green spots. The demonstrated interaction between PP2A and LRRK2, in combination with the observation that PP2A activation leads to a partial protection from neurotoxicity induced by a PD-specific LRRK2 mutant (R1441C-LRRK2), makes PP2A a potential therapeutic target in hereditary PD. Image courtesy of Panagiotis S. Athanasopoulos, Molecular Neurobiochemistry, Ruhr University Bochum, Germany.



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