

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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RESPONSIBLE EDITOR(S) Professor Dr. Bernhard Brüne, Goethe-University Frankfurt, Faculty of Medicine, Biochemistry I, Theodor-Stern-Kai 7, D-60590 Frankfurt/Main, Germany, Tel.: +49-69-6301 7424, Email: B.Bruene@biochem.uni-frankfurt.de

JOURNAL MANAGER Dr. Torsten Krüger, De Gruyter, Genthiner Straße 13, 10785 Berlin, Germany, Tel.: +49 (0)30 260 05-176, Fax: +49 (0)30 260 05-298, Email: biol.chem.editorial@degruyter.com

RESPONSIBLE FOR ADVERTISEMENTS Claudia Neumann, De Gruyter, Genthiner Straße 13, 10785 Berlin, Germany. Tel.: +49 (0)30 260 05-226, Fax: +49 (0)30 260 05-264, Email: anzeigen@degruyter.com

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COVER ILLUSTRATION

Mitochondria contain more than 1,000 different proteins, most of which are synthesized as precursors in the cytosol and have to be imported into mitochondria. The mitochondrial outer and inner membranes carry protein transport machineries that recognize and translocate precursor proteins. Although the protein translocases can function as separate entities *in vitro*, recent studies revealed a close cooperation to facilitate efficient transfer of precursor proteins *in vivo*. The review article by Straub et al. on pp. 1097–1114 in this Issue of *Biological Chemistry* discusses the organization of protein translocases into dynamic supercomplexes and their embedding in a regulatory network that coordinates protein biogenesis, membrane dynamics and bioenergetic activity of mitochondria.



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