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.

Biological Chemistry is associated with the Gesellschaft für Biochemie und Molekularbiologie e.V. (GBM)

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COVER ILLUSTRATION
The cover image depicts a structural superposition of human kallikrein-related peptidase 10 (KLK10, in deep purple) with the related zymogen pro-KLK6 (salmon) and active KLK2 (light grey), as observed in crystal structures. KLK10 shares disordered loop regions with either pro-KLK6 or KLK2, which can be seen as interrupted parts of the respective polypeptide backbones. These flexible parts, which form an allosteric network, are crucial for the active conformation of the protease and substrate binding. Also with respect to activity KLK10 has features of both a zymogen and an active protease. Moreover, KLK10 is expressed in various human tissues and body fluids and seems to have a tumor suppressor function in breast and prostate cancer, while its physiological and pathophysiological roles at large are little understood. For further details see the article by Debela et al. on pp. 1251–1264 in this issue.
Image courtesy of Peter Goettig, Structural Biology Group, Department of Molecular Biology, University of Salzburg, Austria. Supported by the Austrian Science Fund (FWF) with project P25003-B21.

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