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
An increasing amount of data suggests a regulation of signaling events in all kinds of organelles and organisms via so-called ‘thiol switches’. As schematically shown on the cover, thiols can be oxidized to disulfides. In addition, several other redox modifications contribute to redox signaling, thereby affecting cellular functions in bacteria, plants, and animals. Research on this topic is consolidated in the German priority program SPP1710 ‘Dynamics of Thiol-based Redox Switches in Cellular Physiology’. In this Highlight Issue of *Biological Chemistry*, members of the priority program accentuate the importance of specific thiol redox regulation for life.
Crayon drawing by Carsten Berndt, Heinrich-Heine-Universität Düsseldorf, Germany.

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