

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

The cover image shows that after inhibition of histone deacetylase 6 (HDAC6) by the specific inhibitor tubastatin A microtubules are heavily acetylated and bundled in comparison to control oligodendroglial cells (inset). α -Tubulin and the microtubule-associated protein tau are substrates for HDAC6, which is involved in protein aggregate formation and modulates cytoskeletal organization. Protein acetylation and deacetylation plays a crucial role in several pathological contexts, including neurodegeneration in aggregopathies, and HDAC6 is of importance in the regulation of autophagy. For further details see the article by Richter-Landsberg in this issue on pp. 185–194.

Images courtesy of Christiane Richter-Landsberg, University of Oldenburg, Germany. The contribution of Janina Leyk, Department of Neuroscience, University of Oldenburg, to the graphic art is gratefully acknowledged.



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