

## Bispalladium(II) Complexes of di-p-Pyrirubyrin Derivatives as Promising Near-Infrared Photoacoustic Dyes

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### Streszczenie

Incorporation of  $\alpha,\beta'$ -pyridine moiety into expanded porphyrins opens a highly interesting area of research due to created the molecules' attractive optical and coordination properties. The insertion of palladium(II) into di-p-pyrirubyrin, results in mutually convertible bimetallic complexes. Post-synthetic functionalization of one of them yielded bispalladium(II) dioxo-di-p-pyrirubyrin and, after demetallation, dioxo-di-p-pyrirubyrin, introducing for the first time, the  $\alpha,\beta'$ -pyridin-2-one unit into the macrocyclic frame. Bispalladium(II) di-p-pyrirubyrin **6**, bispalladium(II) dioxo-di-p-pyrirubyrin **9**, and dioxo-di-p-pyrirubyrin **10** absorb and emit light around 1000 nm and are characterized by high photostability. Thus, they are promising candidates for near-infrared photoacoustic dyes, ideally targeting (9) the wavelength of Yb-based fiber lasers.

### Słowa kluczowe

expanded porphyrins, palladium, rubyrin, photoacoustic dyes, near-infrared II

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