

SYNTHESIS AND PHOTODYNAMIC ACTIVITY OF NEW  
TETRACATIONIC ZINC PHTHALOCYANINATES

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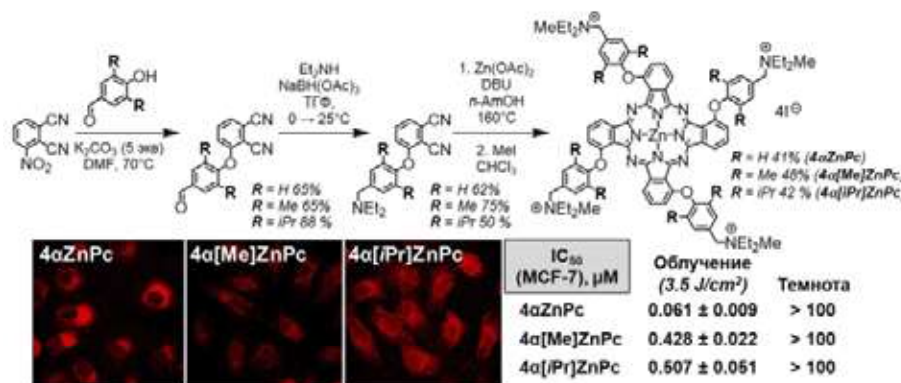
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Phthalocyanines are promising photosensitizers for photodynamic therapy (PDT). In our work, new non-aggregating water-soluble tetracationic zinc phthalocyaninates were obtained using reductive amination (Fig. 1)<sup>1</sup>.



**Figure 1.** Synthesis, intracellular accumulation and PDT activity of of new tetracationic zinc phthalocyaninates.

The obtained complexes **4αZnPc**, **4α[Me]ZnPc** and **4α[iPr]ZnPc** exhibit high photodynamic activity against MCF-7 cells. Thus, they can be considered prototypes of effective photosensitizers for PDT.

#### References

1. Bunin D. et al. Dye Pigm., 2022, **207**, 110768.

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