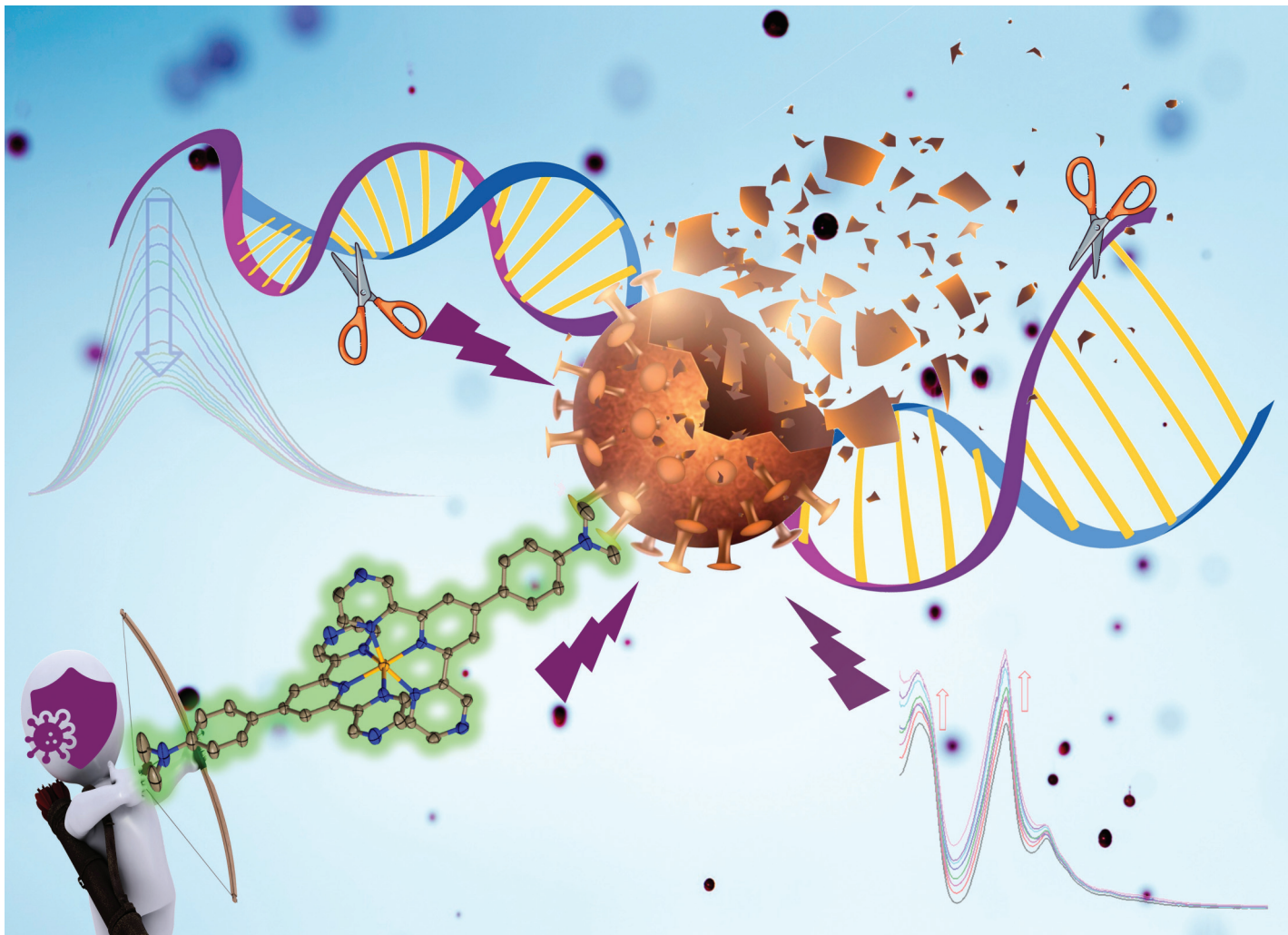


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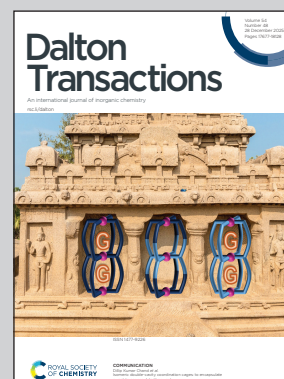
Showcasing research from Professor S. Maji's laboratory,
Department of Chemistry, Indian Institute of Technology
Hyderabad, Kandi, Sangareddy, 502 284, Telangana, INDIA.

Structurally modified dipyrazinylpyridine-based homoleptic Cu(II)
complexes: comparative cytotoxic evaluation in breast cancer cell
lines

Structure-activity relationships play a crucial role in the
discovery of anticancer drugs. In this study, structurally modified
dipyrazinylpyridine-based homoleptic Cu(II) complexes were
synthesized and shown to be effective DNA binders, as evidenced
by DNA-binding assays, ethidium bromide quenching, and
molecular docking. Furthermore, DNA cleavage and cytotoxicity
studies confirm their potential as anticancer agents. Overall, our
results suggest that these complexes may serve as cost-effective,
non-platinum, transition-metal-based chemotherapeutic candidates
for future design of metallodrug development targeting DNA.

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Dalton Trans., 2025, **54**, 17798.

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See Somnath Maji *et al.*,
Dalton Trans., 2025, **54**, 17798.