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(57) Abstract: The present disclosure relates to compounds which function as small molecule fluorescent probes which aid in recognition of specific sequences in DNA and detection of A β aggregates. Probes/dyes of the instant disclosure are specific to AT-rich sequences of DNA and A β aggregates. These small organic dyes/probes are capable of exhibiting switch-on fluorescence and play an important role in fluorescence spectroscopy, diagnostics, imaging and biomedical applications.

