

LONG RANGE CHARGE TRANSFER IN DNA

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The sequence dependence of charge transport through stacked Watson-Crick base pairs was analyzed for coherent hole motion interrupted by a temporary charge localization on guanine bases.

(PDF) On the long-range charge transfer in DNA On the Long-Range Charge Transfer in DNA Yuri A. Berlin, Alexander L. Burin,* and Mark A. Ratner Department of Chemistry and Materials Research Center, Northwestern University, 2145

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Charge transfer in DNA between donor and acceptor sites. The system considered is identical to that used in experiments6,8 on the ground-state hole transfer in DNA. It consists particularly due to the relevance to DNA

damage1 and repair 2 of a guanine radical cation G+ as hole donor and a GGG unit The observed long-range
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