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โดย...จิรวัดน์ พรหมพร

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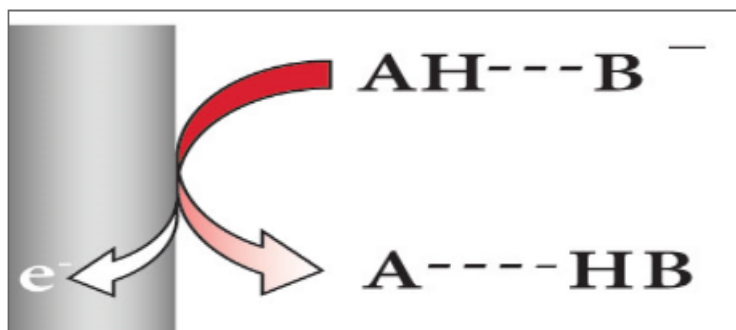
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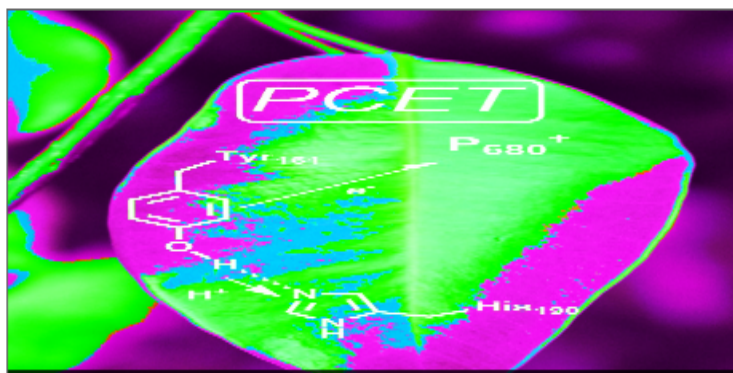
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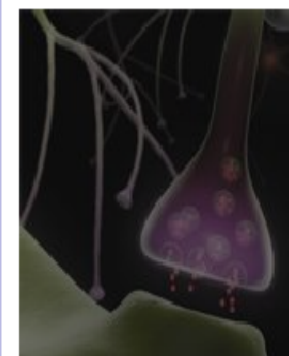
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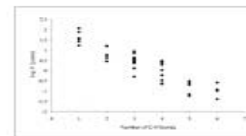


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## Proton-Coupled Electron Transfer in DNA on Formation of Radiation-Produced Ion Radicals

Anil Kumar and Michael D. Sevilla\*  
Department of Chemistry, Oakland University,  
Rochester, Michigan 48309

*Chem. Rev.*, 2010, 110 (12), pp 7002-7023

DOI: 10.1021/cr100023g

Publication Date (Web): May 5, 2010

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Rochester, Michigan 48309

*Chem. Rev.*, 2010, 110 (12), pp 7002-7023

DOI: 10.1021/cr100023g


Publication Date (Web): May 5, 2010

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# Proton-Coupled Electron Transfer in DNA on Formation of Radiation-Produced Ion Radicals

Anil Kumar and Michael D. Sevilla\*

*Department of Chemistry, Oakland University, Rochester, Michigan 48309*

*Received January 25, 2010*

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## 1. Introduction

It is well established that exposure of DNA to high-energy radiation results in a variety of physical and chemical changes in DNA including strand breakage, mutation, and DNA damage.<sup>1–16</sup> Initially, high-energy radiation randomly ionizes or excites DNA components (base, sugar, and phosphate backbone) as well as the surrounding water molecules, which

## PCET in DNA on Formation of Ion Radicals

Chemical Reviews, 2010, Vol. 110, No. 12 7021

- (12) Becker, D.; Adhikary, A.; Sevilla, M. D. In *Charge Migration in DNA*; Chakraborty, T., Ed.; Springer-Verlag: Berlin, Heidelberg, 2007; pp 139–175.
- (13) Kumar, A.; Sevilla, M. D. In *Radiation Induced Molecular Phenomena in Nucleic Acids*; Shukla, M. K., Leszczynski, J., Eds.; Challenges and Advances in Computational Chemistry and Physics, Vol. 5; Leszczynski, J., Ed.; Springer Science + Business Media B.V.: Dordrecht, The Netherlands, 2008; pp 577–617.
- (14) Kumar, A.; Sevilla, M. D. In *Radical and Radical Ion Reactivity in Nucleic Acid Chemistry*; Greenberg, M., Ed.; John Wiley & Sons, Inc.: New York, 2010; pp 1–40.
- (15) Becker, D.; Sevilla, M. D. In *Electron Paramagnetic Resonance*; Gilbert, B. C., Davies, M. J., Murphy, D. M., Eds.; Royal Society of Chemistry Specialist Periodical Report, Vol. 21; Royal Society of Chemistry: London, 2008; p 33.
- (16) Yokoya, A.; Shikazono, N.; Fujii, K.; Urushibara, A.; Akamatsu, K.; Watanabe, R. *Radiat. Phys. Chem.* **2008**, *77*, 1280.
- (17) Sevilla, M. D.; Becker, D.; Yan, M.; Summerfield, S. R. *J. Phys. Chem.* **1991**, *95*, 3409.
- (18) Faraggi, M.; Ferradini, C.; JayGerin, J. P. *New J. Chem.* **1995**, *19*, 1203.
- (19) International Commission on Radiation Units and Measurements (ICRU). ICRU Report No. 31; ICRU: Washington, DC, 1979.
- (20) Boudaiffa, B.; Cloutier, P.; Hunting, D.; Huels, M. A.; Sanche, L. *Science* **2000**, *287*, 1658.
- (21) Sanche, L. *Chem. Phys. Lett.* **2009**, *474*, 1.
- (22) Sanche, L. In *Radical and Radical Ion Reactivity in Nucleic Acid Chemistry*; Greenberg, M., Ed.; John Wiley & Sons, Inc.: New York
- (48) Hoganson, C. W.; Lydakis-Simantiris, N.; Tang, X.-S.; Tommos, C.; Warncke, K.; Babcock, G. T.; Diner, B. A.; McCracken, J.; Styring, S. *Photosynth. Res.* **1995**, *47*, 177.
- (49) Babcock, G. T.; Wikstrom, M. *Nature* **1992**, *356*, 301.
- (50) Malmstrom, B. G. *Acc. Chem. Res.* **1993**, *26*, 332.
- (51) Siegbahn, P. E. M.; Eriksson, J.; Himo, F.; Pavlov, M. *J. Phys. Chem. B* **1998**, *102*, 10622.
- (52) Shalrovich, V.; Geacintov, N. E. *Top. Curr. Chem.* **2004**, *237*, 129.
- (53) Thorp, H. H. *Top. Curr. Chem.* **2004**, *237*, 159.
- (54) Huynh, M. H. V.; Meyer, T. *J. Chem. Res.* **2007**, *107*, 5004.
- (55) Meyer, T. J.; Huynh, M. H. V.; Thorp, H. H. *Chem. Rev.* **2007**, *46*, 5284.
- (56) Thorp, H. H. *Chem. Abstr. Inorg. Chem.*
- (57) Lui, W.; Thorp, H. H. *Excited-State Processes in the Reactions of Multiply-Bonded Ligands*; Advances in Transition Metal Coordination Chemistry, Vol. 1; JAI Press: Greenwich, CT, 1996; p 187.
- (58) Roth, J. P.; Yoder, J. C.; Won, T.-J.; Mayer, J. M. *Science* **2001**, *294*, 2524.
- (59) Mayer, J. M.; Rhile, I. *J. Biochim. Biophys. Acta—Bioenerg.* **2004**, *1655*, 51.
- (60) Tommos, C.; Babcock, G. T. *Acc. Chem. Res.* **1998**, *31*, 18.
- (61) Stubbe, J.; Nocera, D. G.; Yee, C. S.; Chang, M. C. Y. *Chem. Rev.* **2003**, *103*, 2167.
- (62) Boussicault, F.; Robert, M. *Chem. Rev.* **2008**, *108*, 2622.
- (63) Costentin, C. *Chem. Rev.* **2008**, *108*, 2145.
- (64) Cukier, R. I.; Nocera, D. G. *Annu. Rev. Phys. Chem.* **1998**, *49*, 337.
- (65) Hammes-Schiffer, S.; Jordanova, N. *Biochim. Biophys. Acta* **2004**, *1655*, 29.

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