Cho, Y.-J., et al.

Stereospecific Formation of Interstrand Carbinolamine DNA Crosslinks by

Crotonaldehyde- and Acetaldehyde-Derived α-CH<sub>3</sub>-γ-OH-1,N<sup>2</sup>-Propano-2'-

deoxyguanosine Adducts in the 5'-CpG-3' Sequence

**Supporting Information** 

**Revised Manuscript** 

Young-Jin Cho, Hao Wang, Ivan D. Kozekov, Andrew J. Kurtz\*, Jaison Jacob§, Markus

Voehler, Jarrod Smith, Thomas M. Harris, R. Stephen Lloyd<sup>‡</sup>, Carmelo J. Rizzo, and

Michael P. Stone<sup>†</sup>

Department of Chemistry, Center in Molecular Toxicology, Vanderbilt-Ingram Cancer

Center, Vanderbilt University, Nashville, Tennessee 37235

§Current Address for Jaison Jacob: Wyeth Pharmaceuticals, 35 Cambridge Park Drive,

Cambridge, MA 02140

<sup>‡</sup>Center for Research on Occupational and Environmental Toxicology, Oregon Health and

Science University, 3181 SW Sam Jackson Park Road, L606, Portland, OR 97239-3098

\*Current Address for Andrew J. Kurtz: Department of Human Biological Chemistry and

Genetics, University of Texas Medical Branch, Galveston, Texas 77555-1068

<sup>†</sup>Author to whom correspondence should be addressed. Telephone 615-322-2589; FAX

615-322-7591; email michael.p.stone@vanderbilt.edu

Running Title: Crotonaldehyde Carbinolamine DNA Crosslinks

1

**Figure S1.** The parameterization of the carbinolamine and the pyrimidopurinone crosslinks for the AMBER 8.0 forcefield.