

# Cut Footage from Unbound: Part 1

This video is one of 4 filmed in March of 2015 in New Orleans for the movie Unbound. My part in the movie was cut down to about 15 minutes so we have lots of footage left over. I asked the movie patron, Ruben to release to me some of the footage so I could share it with you as webinar events. He agreed. Here is the first we got. It shows us heading to my spot on the Mississippi River levee just before sunrise in March. Ben Smith was the movie maker and some of the images in this clip as the sun is moving across the sky and on the church were spectacular.

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## DNA STRAND BREAKING BY THE HYDROXYL RADICAL IS GOVERNED BY THE ACCESSIBLE SURFACE AREAS OF THE HYDROGEN ATOMS OF THE DNA BACKBONE

The diagram illustrates the mechanism of DNA strand breaking by a hydroxyl radical. It shows a deoxyribose sugar ring with a phosphate group at the 5' position (labeled  $^{32}\text{P}$ ) and another phosphate group at the 3' position. A hydroxyl radical ( $\cdot\text{OH}$ ) is shown abstracting a hydrogen atom from the 5' carbon of the sugar. This leads to the formation of a radical on the 5' carbon, which then results in the cleavage of the DNA strand, leaving a phosphate group and a radical on the 3' carbon.

Additional reading:  
**Footprinting protein–DNA complexes using the hydroxyl radical**  
Swapan S Jain & Thomas D Tullius  
Nature Protocols 3, 1092–1100 (2008) Published online: 5 June 2008  
doi:10.1038/nprot.2008.72

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