

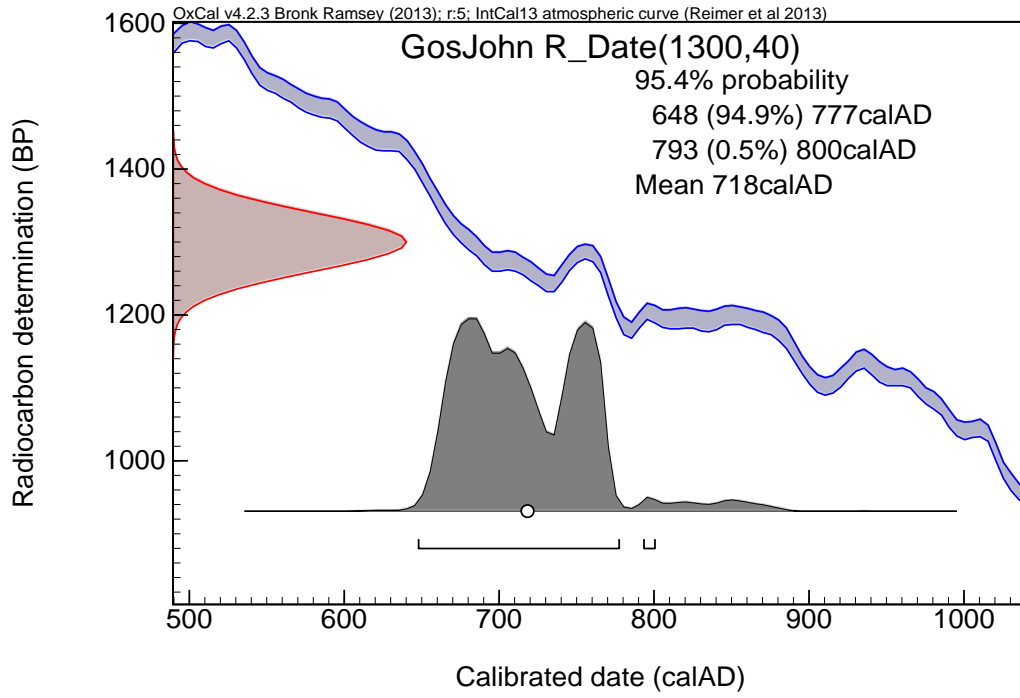
## Accelerated Mass Spectrometry Radiocarbon Determination of Papyrus Samples

Noreen Tuross  
Department of Human Evolutionary Biology  
Harvard University  
March 8, 2014

<b>Date no.</b>	<b>OS-108802</b>	<b>OS-108803</b>
<b>Sample no.</b>	<b>Gospel of John</b>	<b>Gospel of Jesus's Wife</b>
<b><math>\delta^{13}\text{C}</math></b>	<b>-9.0‰</b>	<b>-12.0‰</b>
<b>Fraction of modern carbon:</b>	<b>0.85030±0.00410</b>	<b>0.85670±0.00500</b>
<b>2 sigma, 95.4% Calibrated age ranges:</b>	<b>648calAD to 800calAD</b>	<b>659calADto869calAD</b>
<b>Median Date</b>	<b>718calAD</b>	<b>741calAD</b>

The calibrated ages are calculated using known-age tree ring radiocarbon measurements (INTCAL13) utilizing the OxCal program Version 4.2 (<http://c14.arch.ox.ac.uk>). Samples were prepared at the Tuross Laboratory at Harvard University, and the  $\delta^{13}\text{C}$  values were measured in continuous flow using a Costech ECS 4010 elemental analyzer coupled to a Thermo Delta Plus XP mass spectrometer and reported in ‰ relative to PDB. Accelerator mass spectrometry was performed at the National Ocean Sciences Accelerator Mass Spectrometry Facility (NOSAMS) at the Woods Hole Oceanographic Institute in Woods Hole, MA, USA..

OS-108802



OS-108803

