

Results of AMS ¹⁴C analysis of sample material submitted to AMS laboratory, ETH Zürich**Customer** Christine StaufferGalerie Kornfeld Auktionen AG
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Sample-Nr.	Sample Code	Material	Sample-Nr.	C14 age BP	±1σ	F14C	±1σ	δC13 ‰
ETH-92333	Sculpture	wood	ETH-92333	566	27	0.9319	0.0031	-26.8
	Galerie Kornfeld Auktionen AG							

Exclaimer: ¹⁴C analysis give measure of time for the formation of sample material
but not a proof of the authenticity of sampled object**Notes:**C14 age (BP)--delta C13 corrected radiocarbon age based
on concentration of ¹⁴C measured in sample
BP= Before Present (before 1950 AD)**δC13 is a value measured on graphite and might include additional fractionation*****C/N ratio is an atomic ratio (C/N)*(14/12)****References:****Samples Treatment:**

Hajdas, I., 2008. Quaternary Science Journal - Eiszeitalter und Gegenwart 57, 2-24.

Bones Hajdas et al., 2007. Quaternary International 164-165 p. 98-105

Reporting ¹⁴C ages:

Stuiver and Polach (1977) Radiocarbon 19(3): 355-363.

Calibrated ages:All calibrated intervals listed below need to be taken into account
In some cases due to the shape of the calibration curve in the region
of interest, the age of the sample falls into a period of time,
where more precise information about the true age range cannot be given.**OxCal v4.3.2 Bronk Ramsey (2017); r:5**

IntCal13 atmospheric curve (Reimer et al 2013)

ETH-92333 R_Date(566,27)

68.2% probability

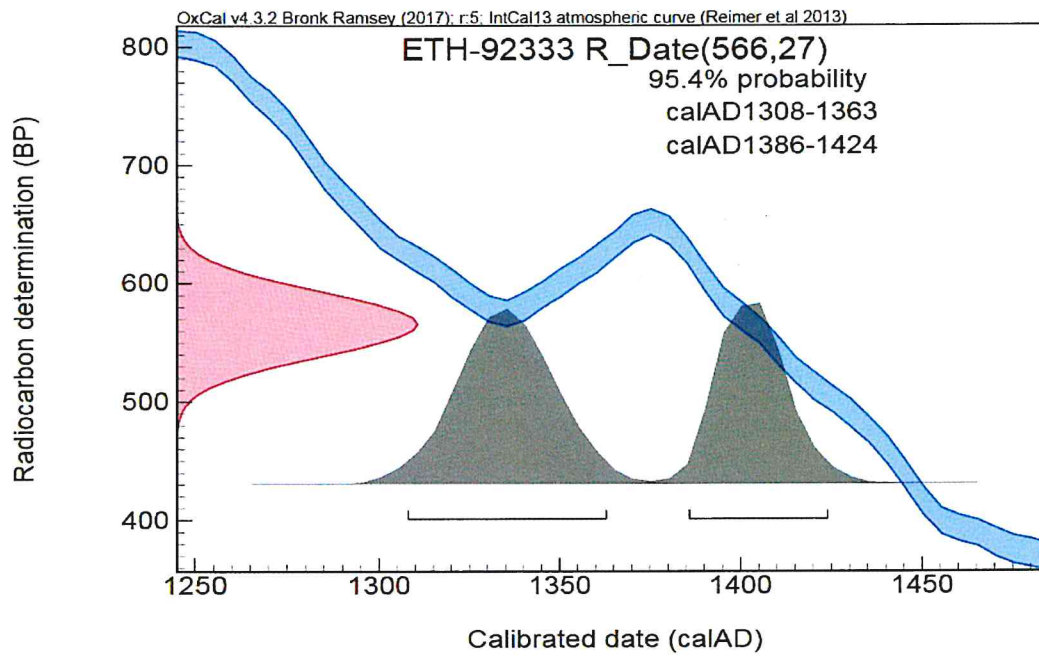
1322AD (37.8%) 1348AD

1392AD (30.4%) 1412AD

95.4% probability

1308AD (54.6%) 1362AD

1386AD (40.8%) 1424AD



Certificate

Radiocarbon Dating

Wood from „Sculpture“

Listed below is the result of the analysis of the wood sample from a statue „Sculpture“, which was removed from the original object by Dr. Irka Hajdas on 17.10.2018, to be used for ^{14}C -AMS dating.

The results of the measurements are given in the following table:

Sample Number	Type	Radiocarbon Age Years (BP)	Fraction Modern F^{14}C	$\delta^{13}\text{C}$ (‰)	Date of Measurement
ETH-92333	wood	566 $\pm$ 27	0.9319 $\pm$ 0.0031	-26.8 $\pm$ 1.0	November 2018

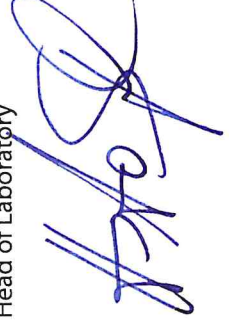
Calibrated Age Range (2- σ): 1308-1363AD, 1386-1424AD

They correspond to time intervals in which the material most probably has been formed. Dates outside these intervals can be excluded as a time of origin of the material at a 95.4 % confidence limit. The age ranges are calculated using the program OxCal v4.2.4 Bronk Ramsey (2013) with the IntCal13 atmospheric curve (Reimer et al. 2013).

Due to the shape of the calibration curve in the region of interest, the age of the sample falls into a period of time, where more precise information about the true age range cannot be given.

Zürich, 6 February 2019
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Prof. Dr. Hans-Arno Synal

