

# Balancing chronology and conservation: Near-Infrared spectroscopy for cellulose assessment in archaeological wood

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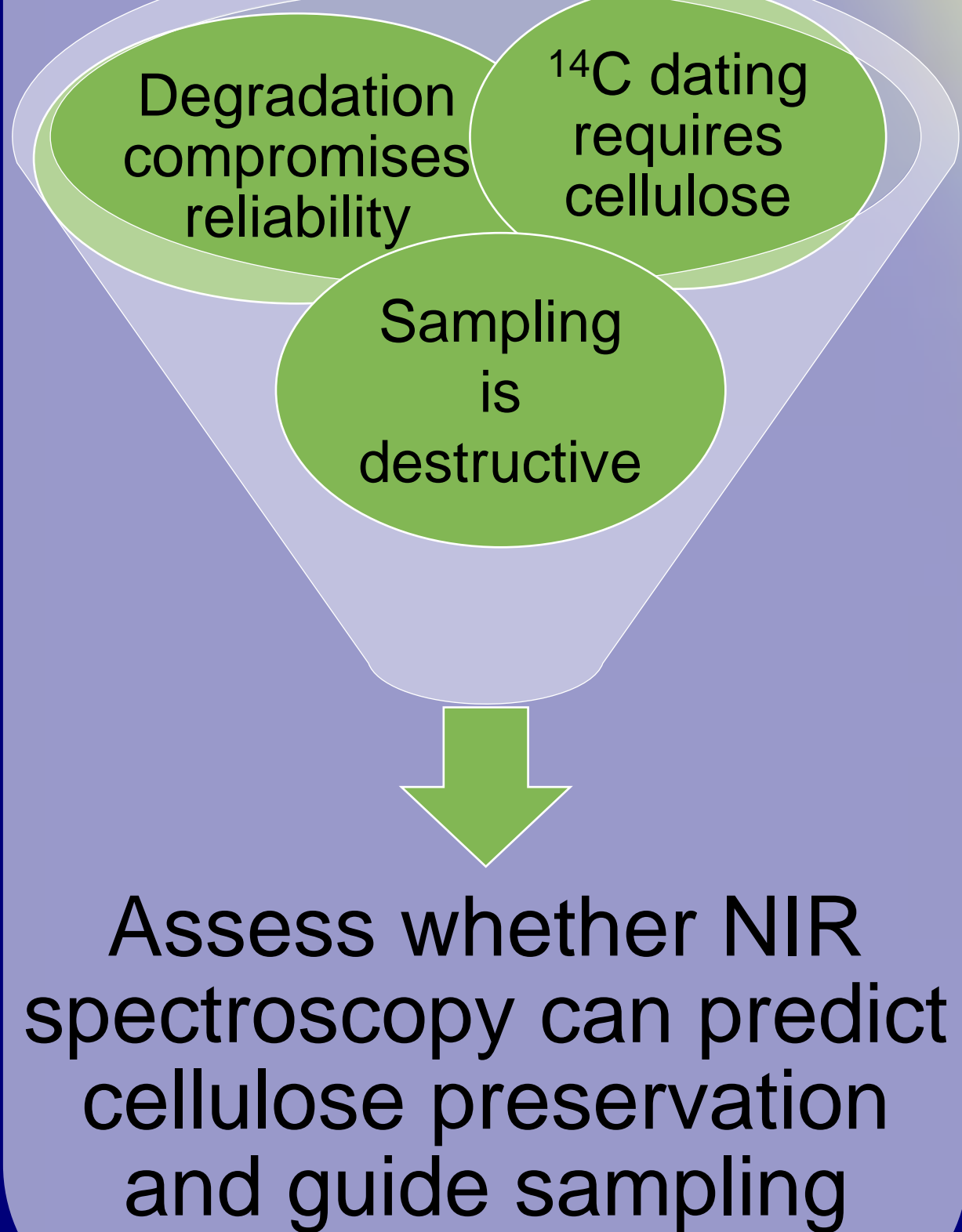
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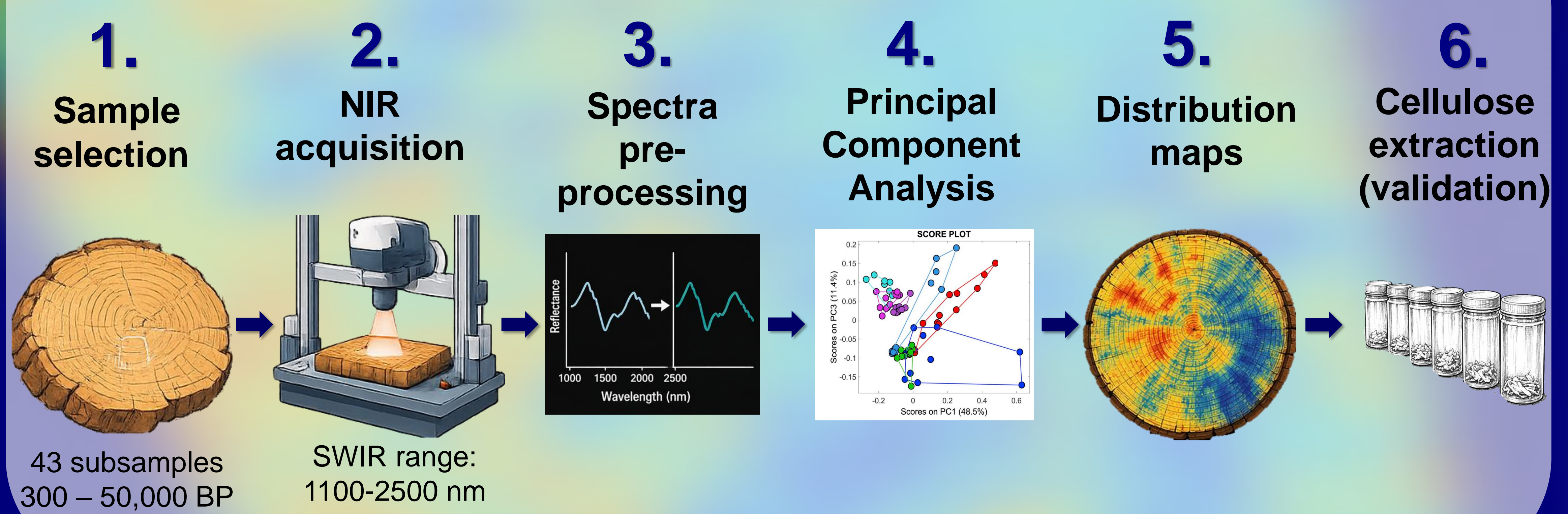
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## 1 Aim

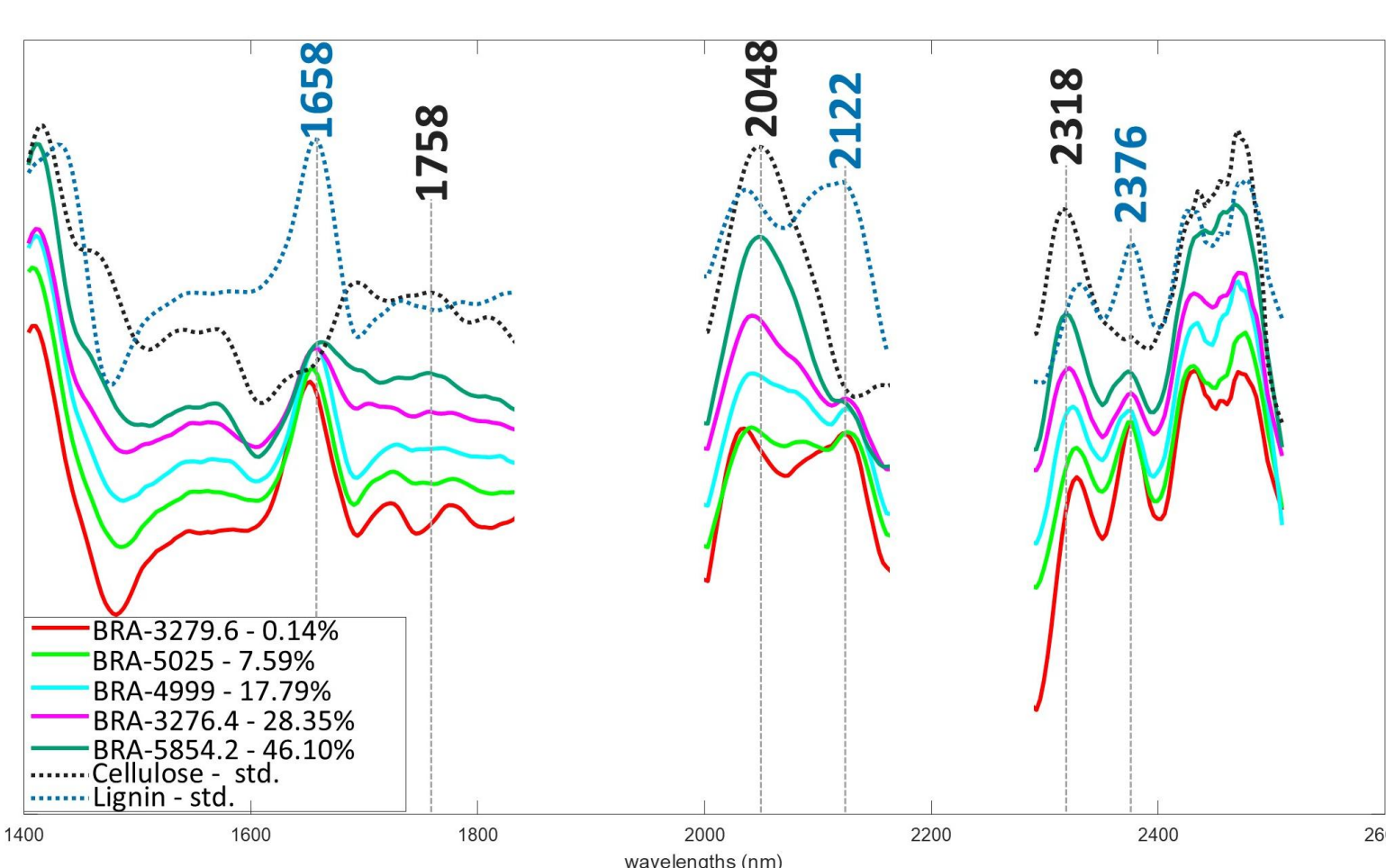


## 2 Methodology



## 3 Results

### a. Cellulose spectral markers



Bands (nm)	Bands assignments	Wood component attribution
1658	first overtone of aromatic skeletal vibration	Lignin
1758	first overtone of C-H stretching	Cellulose
2048	combination band of O-H stretching and C-H deformation	Cellulose
2122	C-H stretching and C=C stretching	Lignin
2318	C-H stretching and deformation	Cellulose
2376	second overtone of C-H deformation	Lignin

### b. PCA: separation of preservation classes

