

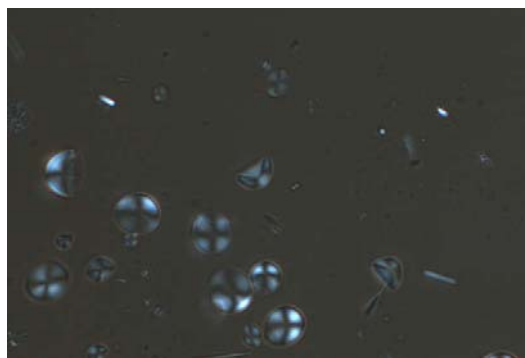
**Appendix V: Modern reference starches, followed by modern phytolith and calcium oxalate references.**



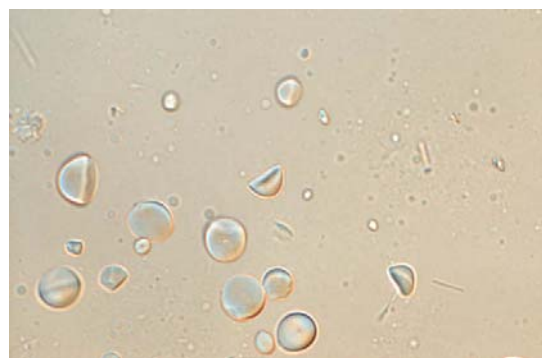
*Acorus calamus*, polarised, x600.



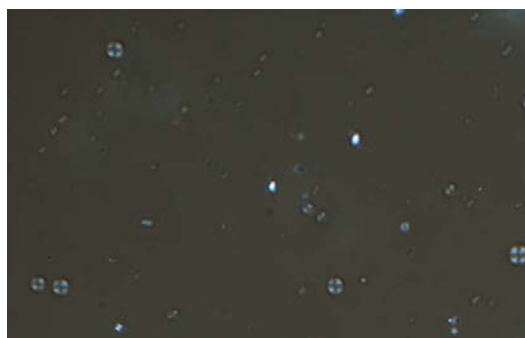
*Acorus calamus*, brightfield, x600.



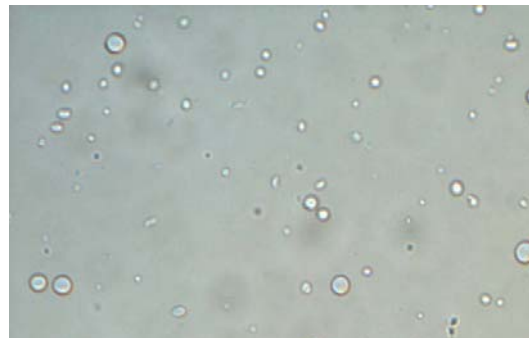
*Arum maculatum*, polarised, x600.



*Arum maculatum*, brightfield, x600.



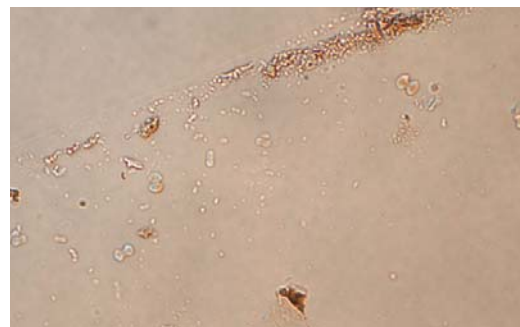
*Fagus* sp., polarised, x600.



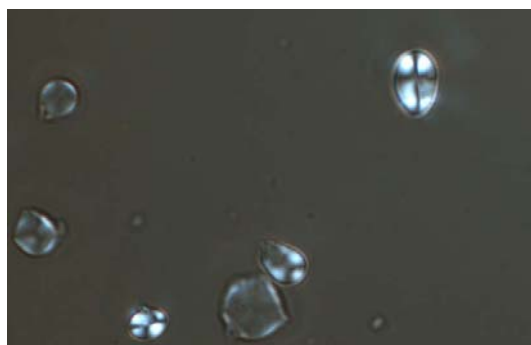
*Fagus* sp., brightfield, x600.



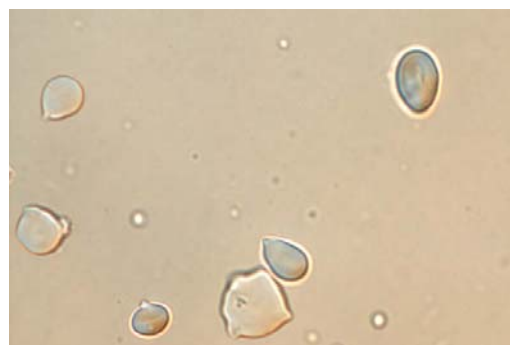
*Quercus* sp., polarised, x600.



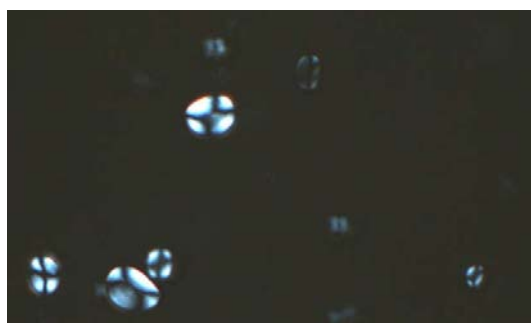
*Quercus* sp., brightfield, x600.



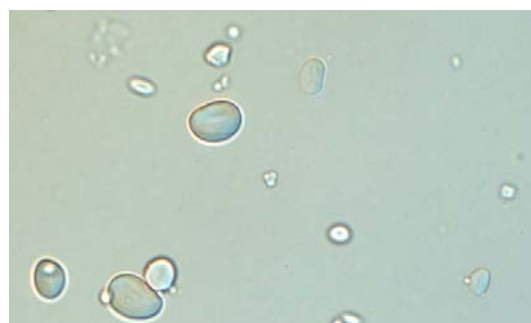
*Cyperus longus*, polarised, x600.



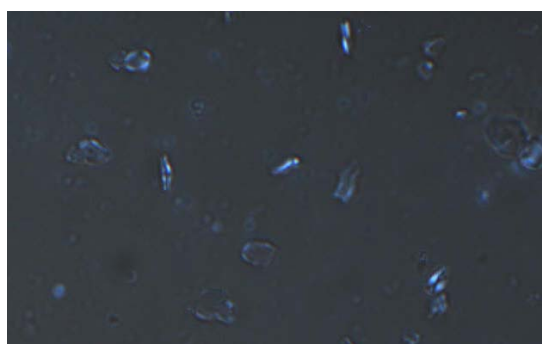
*Cyperus longus*, brightfield, x600.



*Triticum monococcum*, polarised, x600.



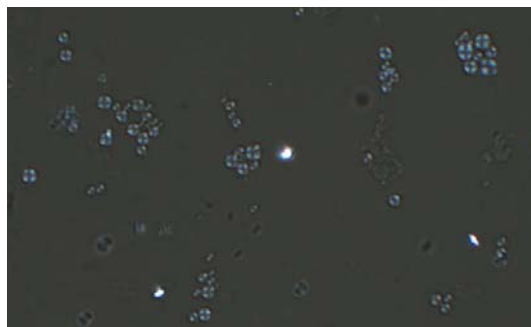
*Triticum monococcum*, brightfield, x600.



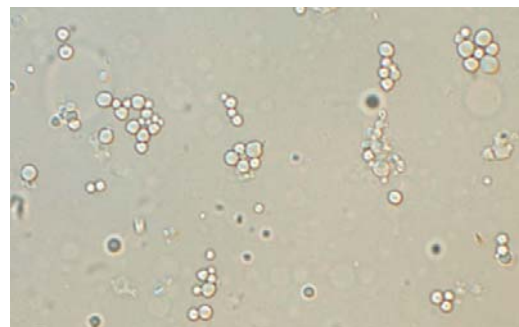
*Pteridium* sp., polarised, x600.



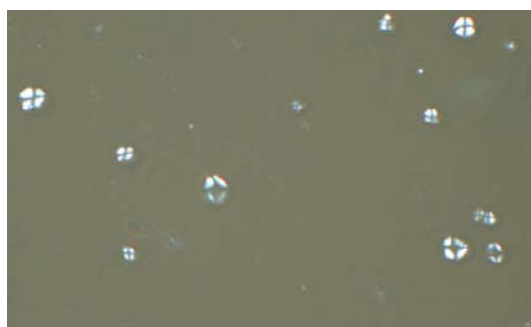
*Pteridium* sp., brightfield, x600.



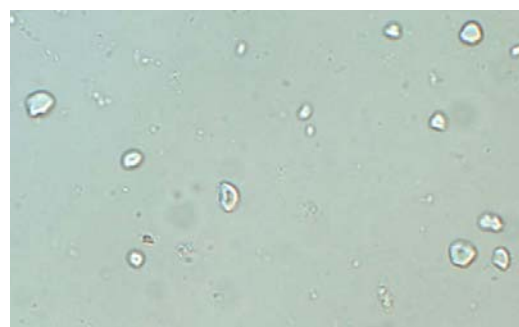
*Corylus avellana*, polarised, x600.



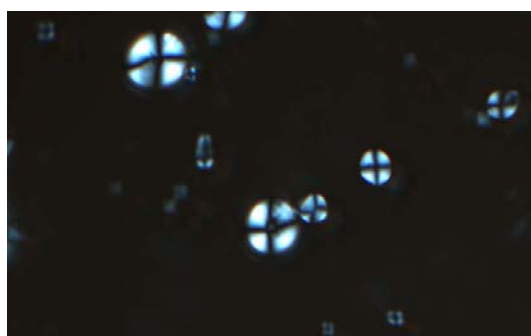
*Corylus avellana*, brightfield, x600.



*Filipendula ulmaria*, polarised, x600.



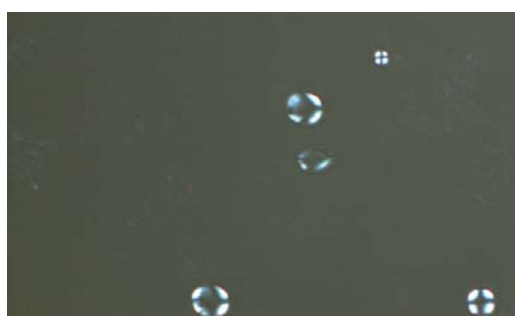
*Filipendula ulmaria*, brightfield, x600.



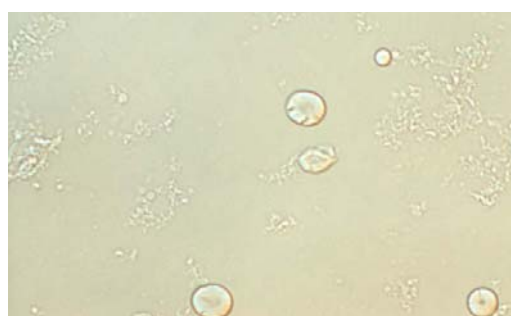
*Typha latifolia*, polarised, x600.



*Typha latifolia*, brightfield, x600.

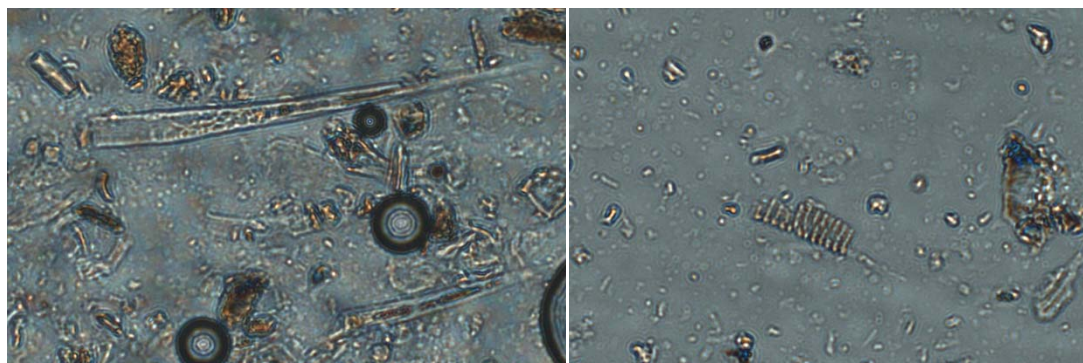


*Armoracia rusticana*, polarised, x600.

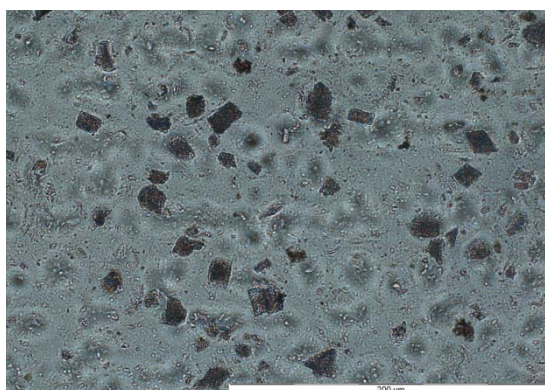


*Armoracia rusticana*, brightfield, x600.

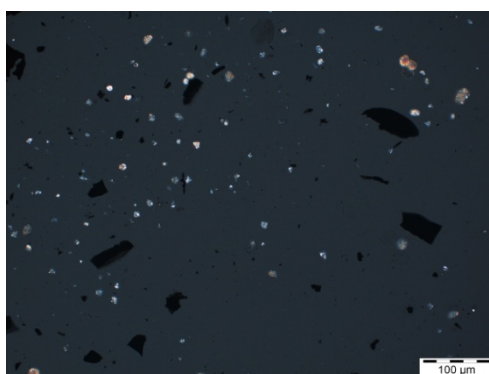
### Images of modern phytolith and calcium oxalate references



Nettle (*Urtica dioica*), hair cell phytoliths (left), x200. Tracheid (right), x200.



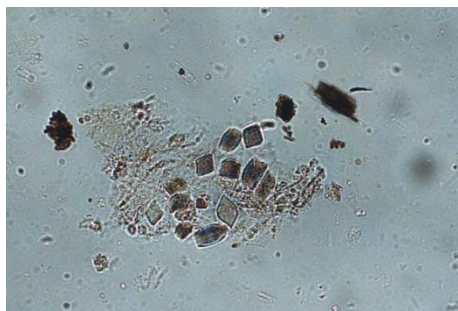
Rowan berries, (*Sorbus aucuparis*), calcium oxalate styloids.



Sloe fruit, (*Prunus spinosa*), calcium oxalate styloids, x200.



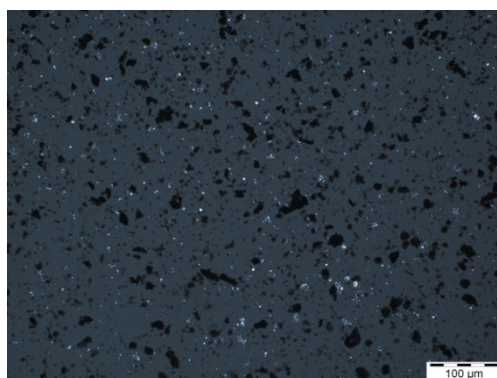
Meadowsweet flowers, (*Filipendula ulmaria*), hair cells, x200.



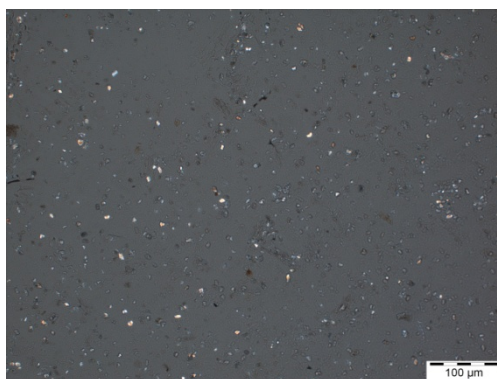
Meadowsweet seeds, (*Filipendula ulmaria*), calcium oxalate styloids, x600.



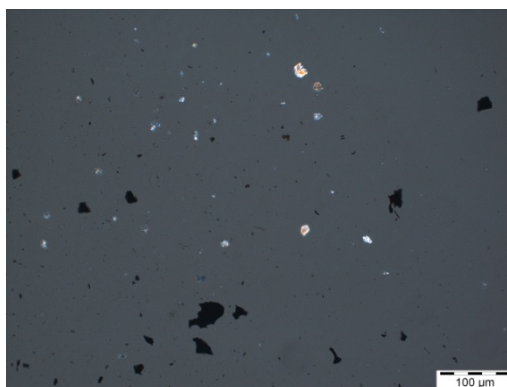
Garlic mustard seed, (*Alliaria petiolata*), 'globular sinuate' phytoliths.



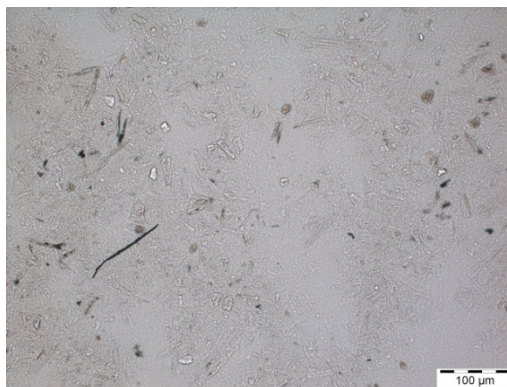
Blackberry fruit, (*Rubus fruticosus*), calcium oxalate crystal sand.



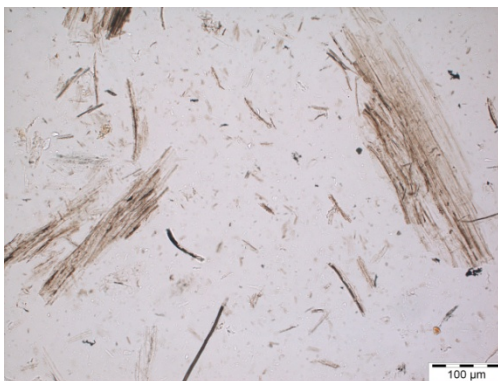
Clover flower (*Trifolium repens*), calcium oxalate crystal sand.



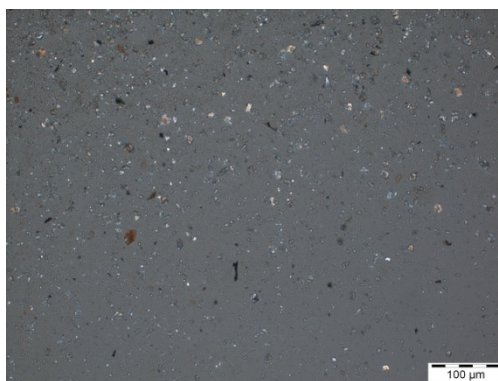
Crab apple (*Malus sylvestris*), minor occurrence of calcium oxalate styloids.



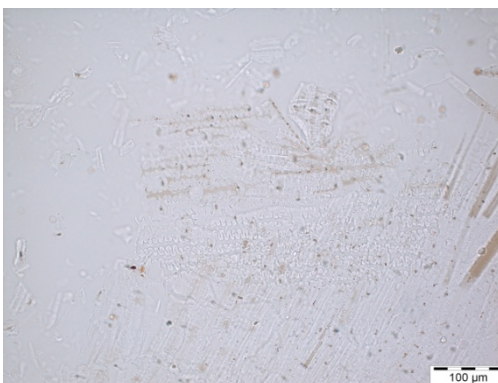
Dandelion flower (*Taraxacum officinale*), silica content of undifferentiated silica sheets.



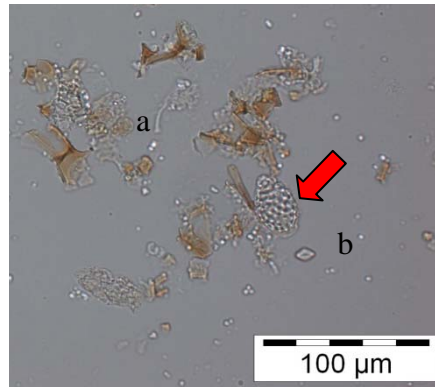
Dandelion leaf (*Taraxacum officinale*), silica content of undifferentiated sheets.



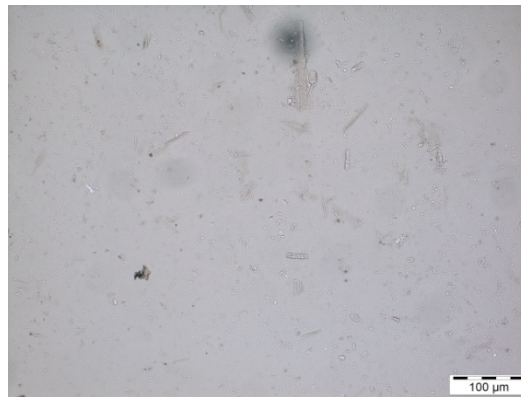
Dog rose leaf (*Rosa canina*), small calcium oxalate styloids are present.



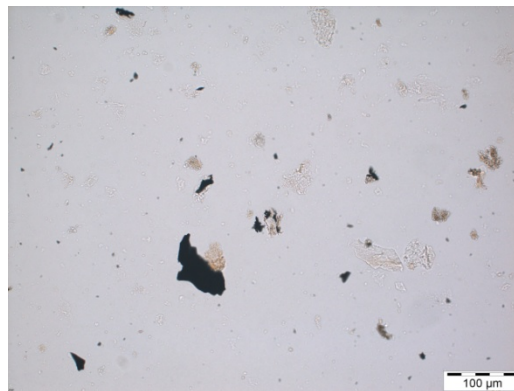
Wheat chaff (*Triticum dicoccum*), high long cell silica content.



Fennel seed (*Foeniculum vulgare*), silica content is mostly undifferentiated silica sheets (a), but with a minor content of 'ovate granulate' phytoliths: egg-shaped bodies with granular protuberances (b, with arrow).

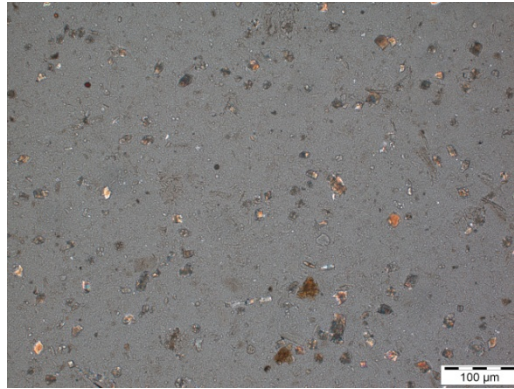


Greater plantain (*Plantago major*), silica content is composed of undifferentiated silica sheets.

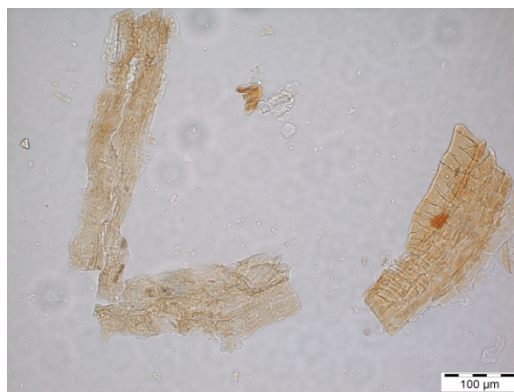


Hawthorn berry (*Crataegus monogyana*), only a minor silica content of undifferentiated silicified epidermis sheets.

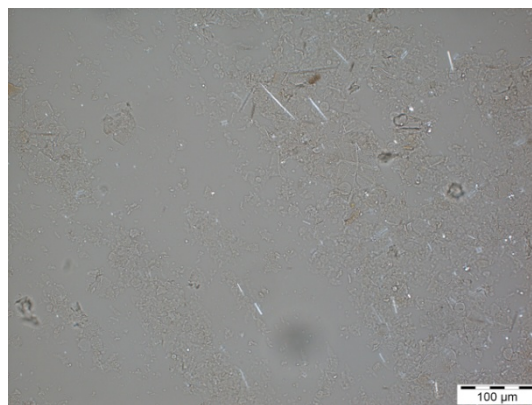




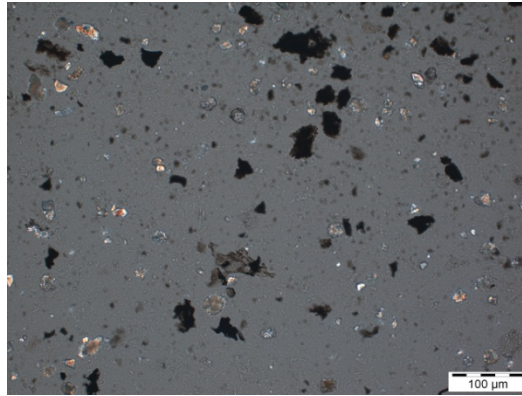
Hawthorn leaf (*Crataegus monogyana*), trapezoidal calcium oxalate styloids.



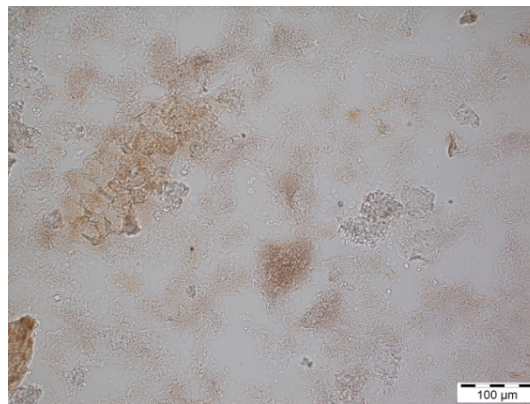
Lovage seed (*Levisticum officinale*), silica content is made up of undifferentiated silicified epidermal sheets.



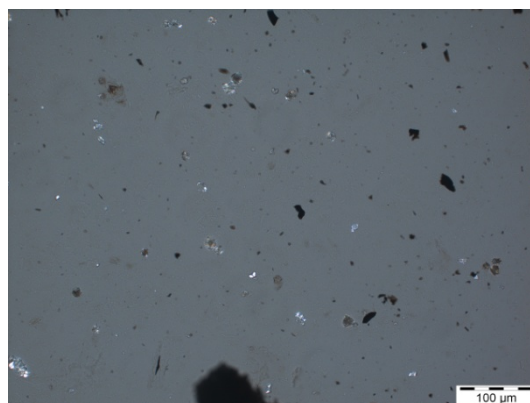
Rosebay willowherb (*Epilobium angustifolium*), Silica content is made up of undifferentiated silicified epidermis, but with a high content of calcium oxalate raphides.



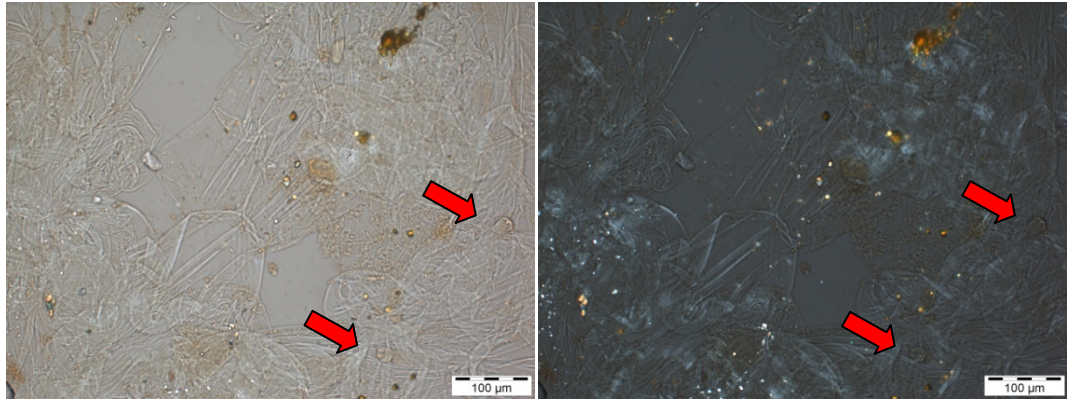
Dog rose fruit (*Rosa canina*), minimal silica content, but a high concentration of calcium oxalate styloids.



Sorrel seed (*Rumex acetosa*), silica content is composed of silicified epidermis sheets.



Strawberry fruit (*Fragaria vesca*), contains a minor content of small calcium oxalate styloids.



Waterlily root (*Nuphar lutea*), phytoliths in waterlily root are indicated by arrows in the brightfield and polarised images above. There is also a content of calcium oxalate crystal sand in the root.