

PÓLEN de las angiospermas del Valle Sagrado de los Incas vol. I

Raúl Yuca-Rivas

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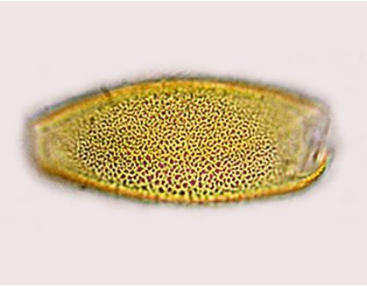
Fotos: Raúl Yuca-Rivas (RYR) Producido por: Raúl Yuca-Rivas © Raúl Yuca-Rivas [rivaszu84@gmail.com]

Eudicotiledóneas: (VP) Vista Polar, (VE) Vista ecuatorial; Monocotiledóneas: (VPx) Vista proximal, (VL) Vista lateral; en ambos: (C) Contorno de la exina.

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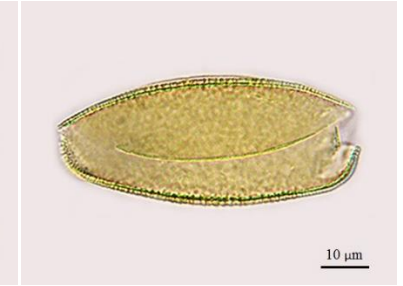
1 *Bomarea dulcis*
ALSTROEMERIACEAE



2 *Bomarea dulcis* (VPx)
ALSTROEMERIACEAE



3 *Bomarea dulcis* (VL)
ALSTROEMERIACEAE



4 *Bomarea dulcis* (C)
ALSTROEMERIACEAE



5 *Bomarea ovata*
ALSTROEMERIACEAE



6 *Bomarea ovata* (VPx)
ALSTROEMERIACEAE



7 *Bomarea ovata* (VL)
ALSTROEMERIACEAE



8 *Bomarea ovata* (C)
ALSTROEMERIACEAE



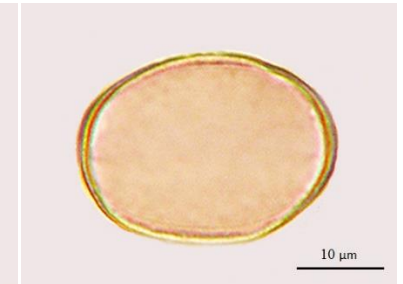
9 *Nothoscordum andicola*
AMARYLLIDACEAE



10 *Nothoscordum andicola* (VPx)
AMARYLLIDACEAE



11 *Nothoscordum andicola* (VL)
AMARYLLIDACEAE



12 *Nothoscordum andicola* (C)
AMARYLLIDACEAE



13 *Kniphofia caulescens*
XANTHORRHOEACEAE



14 *Kniphofia caulescens* (VPx)
XANTHORRHOEACEAE



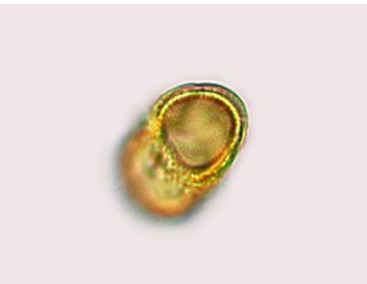
15 *Kniphofia caulescens* (VL)
XANTHORRHOEACEAE



16 *Kniphofia caulescens* (C)
XANTHORRHOEACEAE



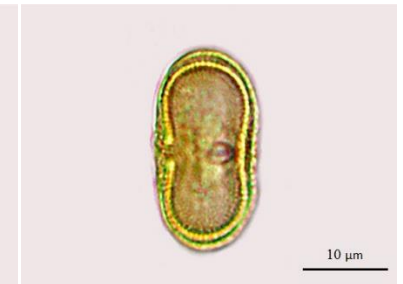
17 *Conium maculatum*
APIACEAE



18 *Conium maculatum* (VP)
APIACEAE



19 *Conium maculatum* (VE)
APIACEAE



20 *Conium maculatum* (C)
APIACEAE

Cusco, PERÚ

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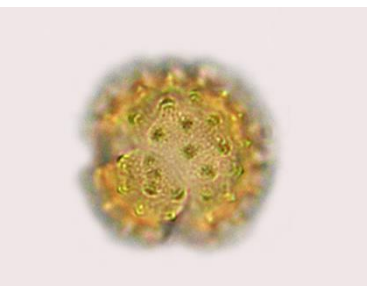
Fotos: Raúl Yuca-Rivas (RYR) Producido por: Raúl Yuca-Rivas © Raúl Yuca-Rivas [rivaszu84@gmail.com]

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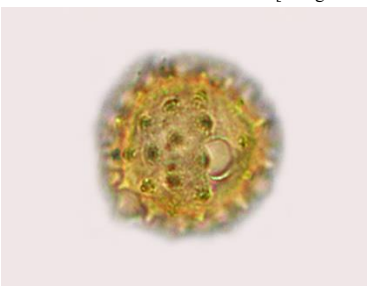
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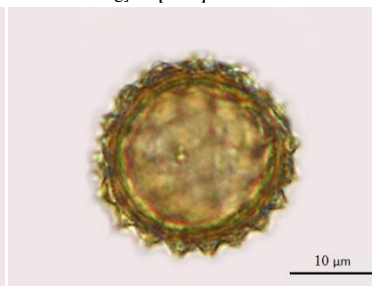
21 *Achyrocline alata*
ASTERACEAE



22 *Achyrocline alata* (VP)
ASTERACEAE



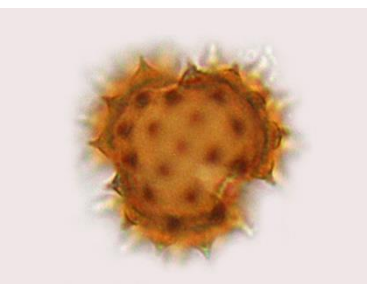
23 *Achyrocline alata* (VE)
ASTERACEAE



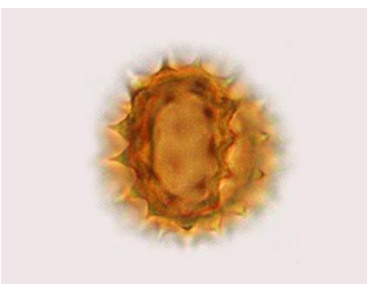
24 *Achyrocline alata* (C)
ASTERACEAE



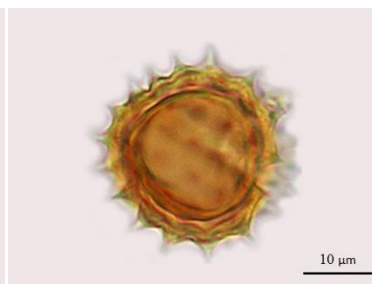
25 *Ageratina pentlandiana*
ASTERACEAE



26 *Ageratina pentlandiana* (VP)
ASTERACEAE



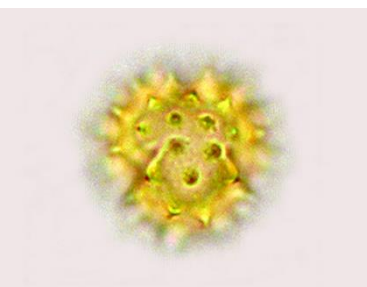
27 *Ageratina pentlandiana* (VE)
ASTERACEAE



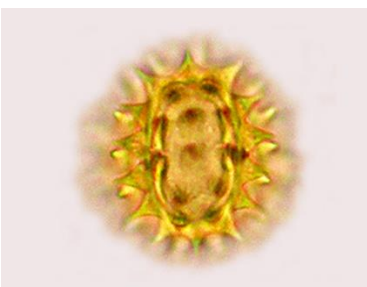
28 *Ageratina pentlandiana* (C)
ASTERACEAE



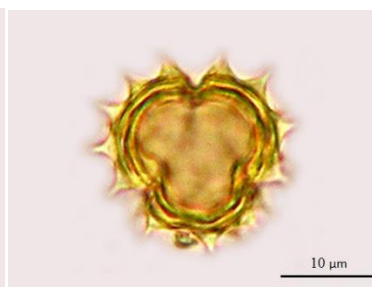
29 *Baccharis buxifolia*
ASTERACEAE



30 *Baccharis buxifolia* (VP)
ASTERACEAE



31 *Baccharis buxifolia* (VE)
ASTERACEAE



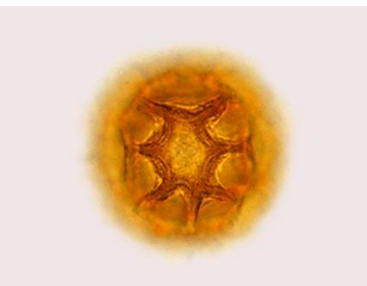
32 *Baccharis buxifolia* (C)
ASTERACEAE



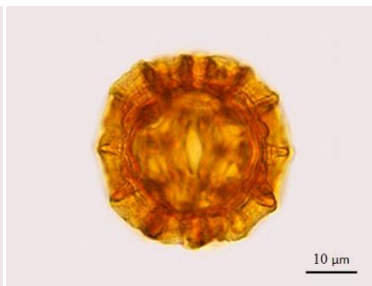
33 *Barnadesia horrida*
ASTERACEAE



34 *Barnadesia horrida* (VP)
ASTERACEAE



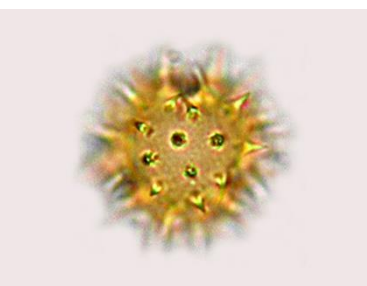
35 *Barnadesia horrida* (VE)
ASTERACEAE



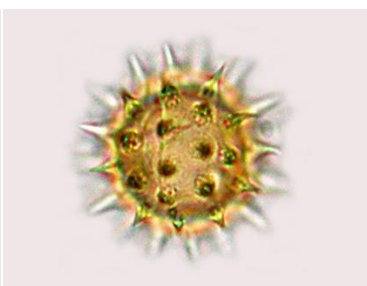
36 *Barnadesia horrida* (C)
ASTERACEAE



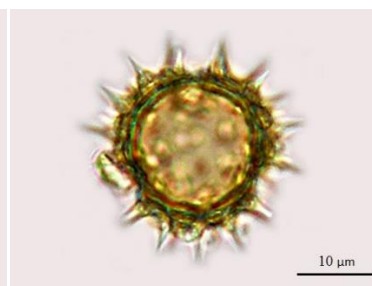
37 *Bidens andicola*
ASTERACEAE



38 *Bidens andicola* (VP)
ASTERACEAE



39 *Bidens andicola* (VE)
ASTERACEAE



40 *Bidens andicola* (C)
ASTERACEAE

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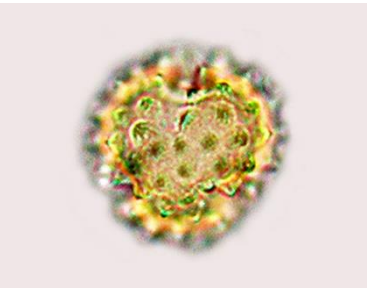
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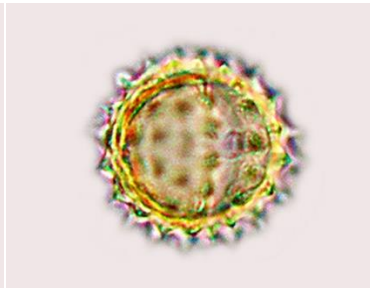
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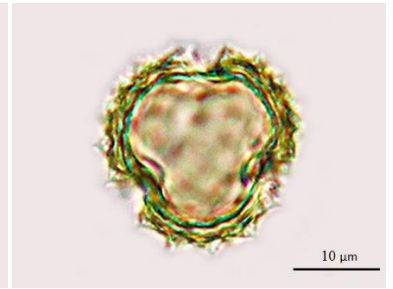
41 *Grindelia boliviana*
ASTERACEAE



42 *Grindelia boliviana* (VP)
ASTERACEAE



43 *Grindelia boliviana* (VE)
ASTERACEAE



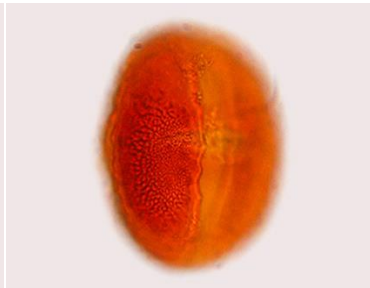
44 *Grindelia boliviana* (C)
ASTERACEAE



45 *Mutisia acuminata*
ASTERACEAE



46 *Mutisia acuminata* (VP)
ASTERACEAE



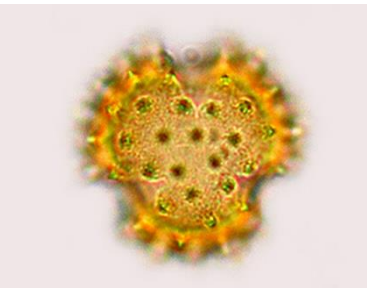
47 *Mutisia acuminata* (VE)
ASTERACEAE



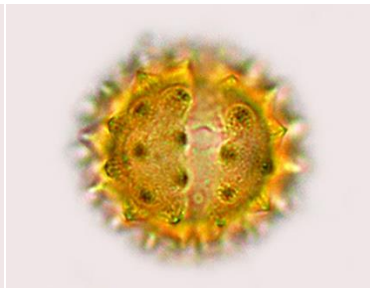
48 *Mutisia acuminata* (C)
ASTERACEAE



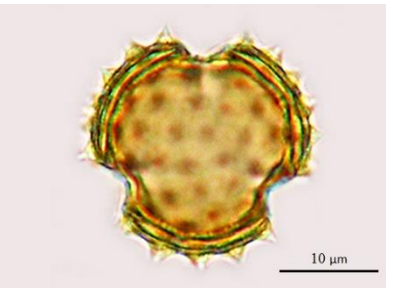
49 *Senecio calcensis*
ASTERACEAE



50 *Senecio calcensis* (VP)
ASTERACEAE



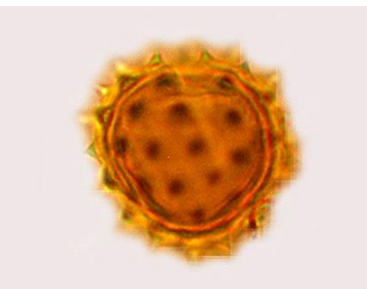
51 *Senecio calcensis* (VE)
ASTERACEAE



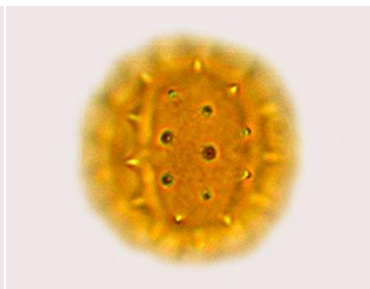
52 *Senecio calcensis* (C)
ASTERACEAE



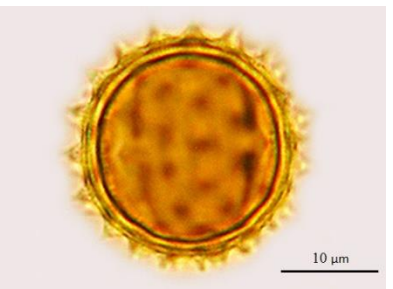
53 *Senecio herrerae*
ASTERACEAE



54 *Senecio herrerae* (VP)
ASTERACEAE



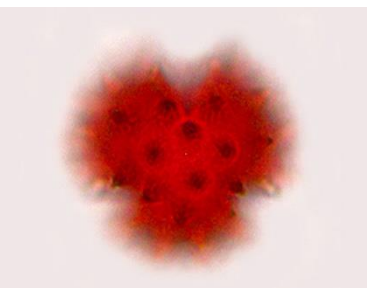
55 *Senecio herrerae* (VE)
ASTERACEAE



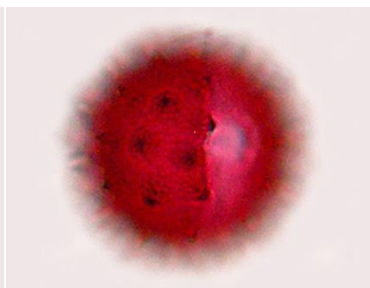
56 *Senecio herrerae* (C)
ASTERACEAE



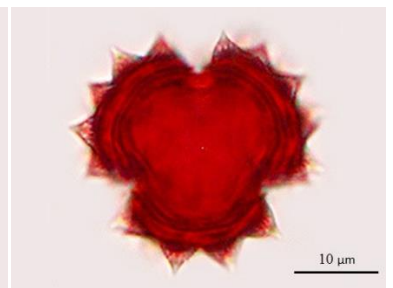
57 *Senecio rudbeckiaefolius*
ASTERACEAE



58 *Senecio rudbeckiaefolius* (VP)
ASTERACEAE



59 *Senecio rudbeckiaefolius* (VE)
ASTERACEAE



60 *Senecio rudbeckiaefolius* (C)
ASTERACEAE

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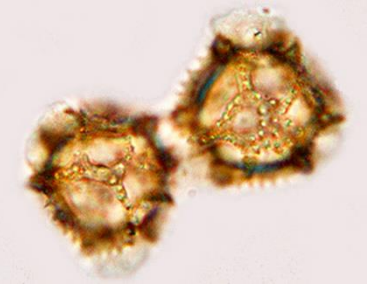
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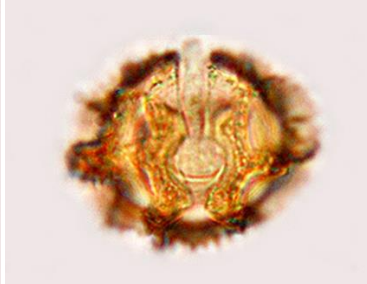
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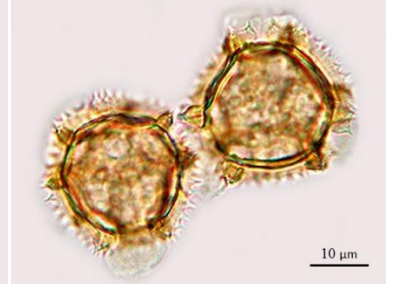
61 *Sonchus asper*
ASTERACEAE



62 *Sonchus asper* (VP)
ASTERACEAE



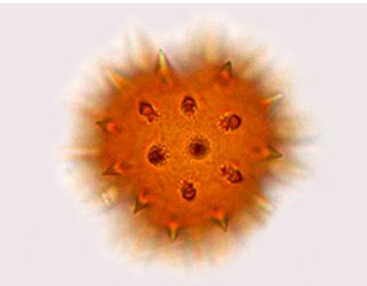
63 *Sonchus asper* (VE)
ASTERACEAE



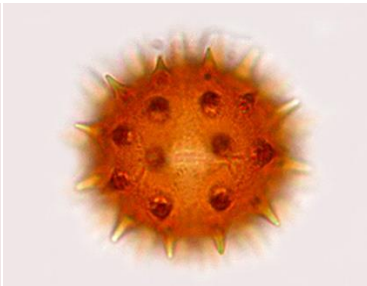
64 *Sonchus asper* (C)
ASTERACEAE



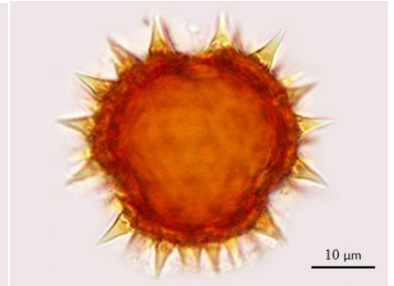
65 *Tagetes terniflora*
ASTERACEAE



66 *Tagetes terniflora* (VP)
ASTERACEAE



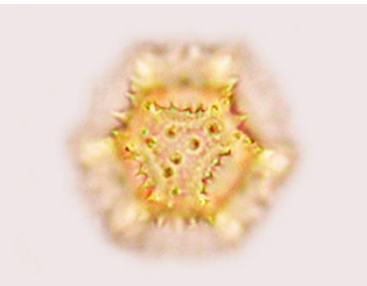
67 *Tagetes terniflora* (VE)
ASTERACEAE



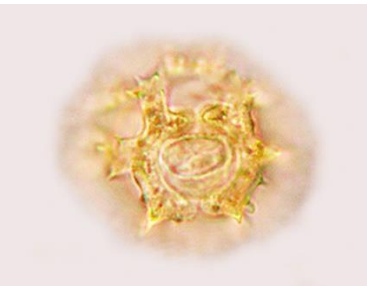
68 *Tagetes terniflora* (C)
ASTERACEAE



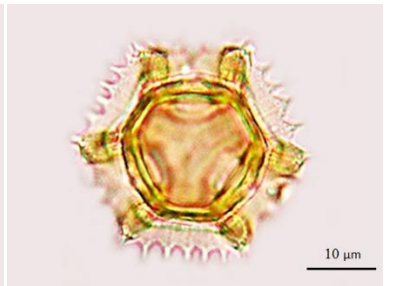
69 *Taraxacum officinale*
ASTERACEAE



70 *Taraxacum officinale* (VP)
ASTERACEAE



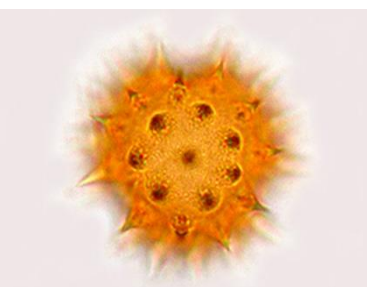
71 *Taraxacum officinale* (VE)
ASTERACEAE



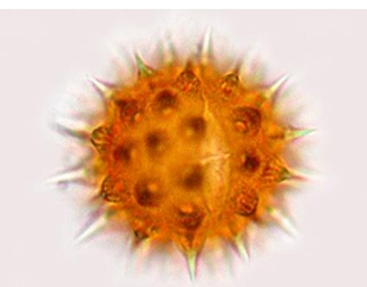
72 *Taraxacum officinale* (C)
ASTERACEAE



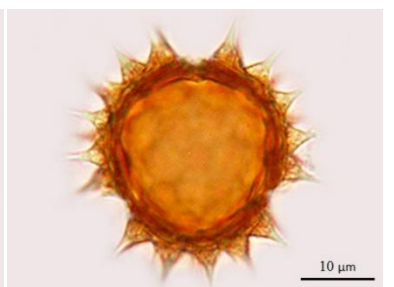
73 *Viguiera procumbens*
ASTERACEAE



74 *Viguiera procumbens* (VP)
ASTERACEAE



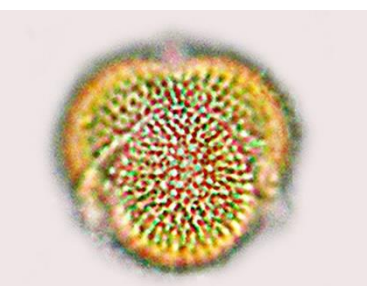
75 *Viguiera procumbens* (VE)
ASTERACEAE



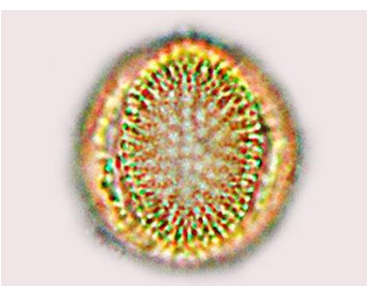
76 *Viguiera procumbens* (C)
ASTERACEAE



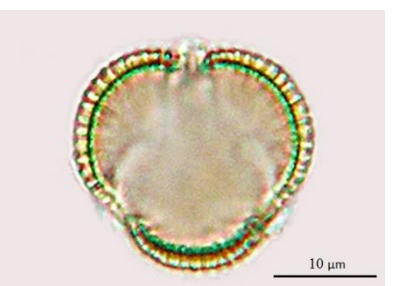
77 *Raphanus raphanistrum*
ASTERACEAE



78 *Raphanus raphanistrum* (VP)
ASTERACEAE



79 *Raphanus raphanistrum* (VE)
ASTERACEAE



80 *Raphanus raphanistrum* (C)
ASTERACEAE

Cusco, PERÚ 5

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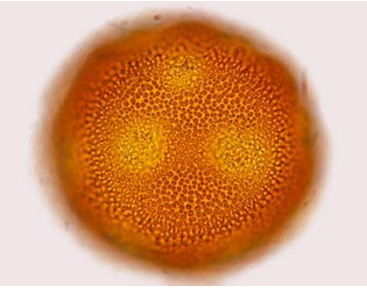
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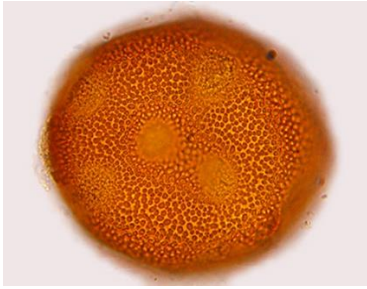
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81 *Austrocyliodropuntia subulata*
subsp. *exaltata*
CACTACEAE



82 *Austrocyliodropuntia subulata*
subsp. *exaltata*
CACTACEAE



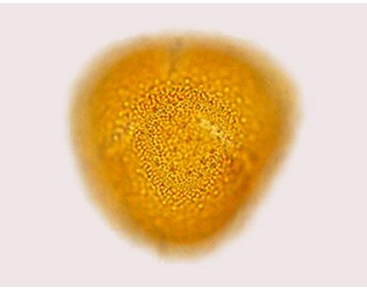
83 *Austrocyliodropuntia subulata*
subsp. *exaltata*
CACTACEAE



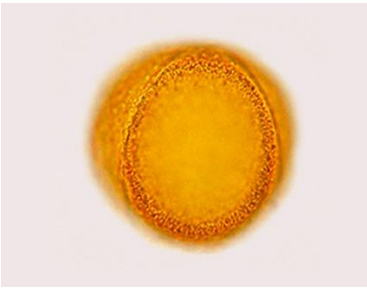
84 *Austrocyliodropuntia subulata*
subsp. *exaltata* (C)
CACTACEAE



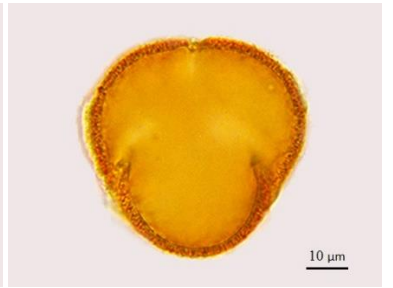
85 *Echinopsis maximiliana*
CACTACEAE



86 *Echinopsis maximiliana* (VP)
CACTACEAE



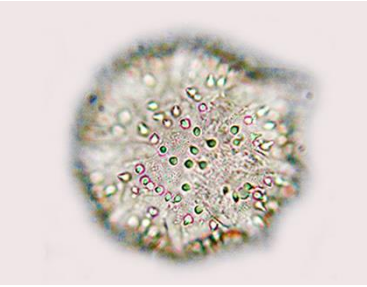
87 *Echinopsis maximiliana* (VE)
CACTACEAE



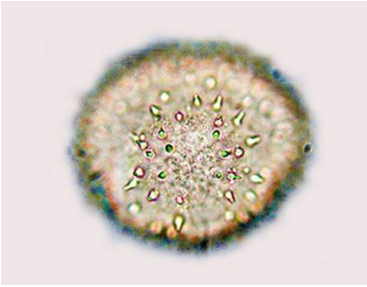
88 *Echinopsis maximiliana* (C)
CACTACEAE



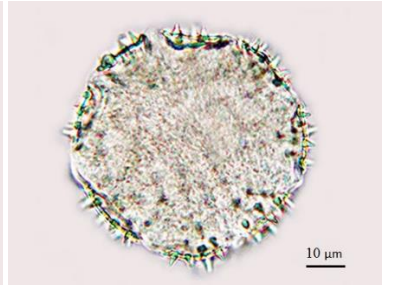
89 *Sicyos baderoa*
CUCURBITACEAE



90 *Sicyos baderoa* (VP)
CUCURBITACEAE



91 *Sicyos baderoa* (VE)
CUCURBITACEAE



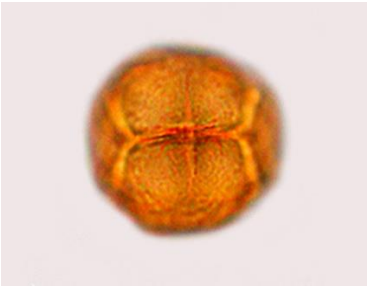
92 *Sicyos baderoa* (C)
CUCURBITACEAE



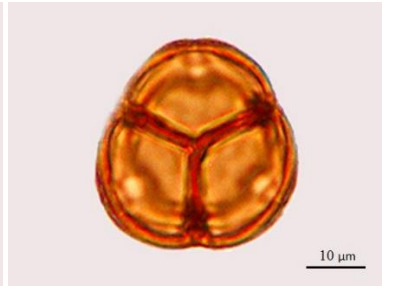
93 *Pernettya prostrata*
ERICACEAE



94 *Pernettya prostrata* (VP)
ERICACEAE



95 *Pernettya prostrata* (VE)
ERICACEAE



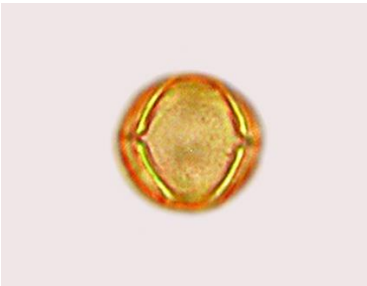
96 *Pernettya prostrata* (C)
ERICACEAE



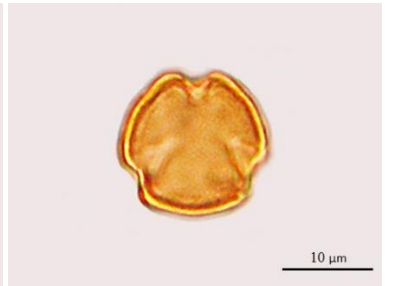
97 *Escallonia myrtilloides*
ESCALLONIACEAE



98 *Escallonia myrtilloides* (VP)
ESCALLONIACEAE



99 *Escallonia myrtilloides* (VE)
ESCALLONIACEAE



100 *Escallonia myrtilloides* (C)
ESCALLONIACEAE

Cusco, PERÚ 6

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Fotos: Raúl Yuca-Rivas (RYR) Producido por: Raúl Yuca-Rivas © Raúl Yuca-Rivas [rivaszu84@gmail.com]

Eudicotiledóneas: (VP) Vista Polar, (VE) Vista ecuatorial; Monocotiledóneas: (VPx) Vista proximal, (VL) Vista lateral; en ambos: (C) Contorno de la exina.

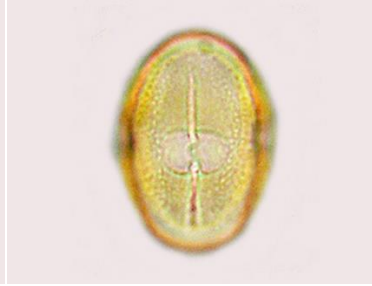
[fieldguides.fieldmuseum.org] [1023] versión 1 6/2018



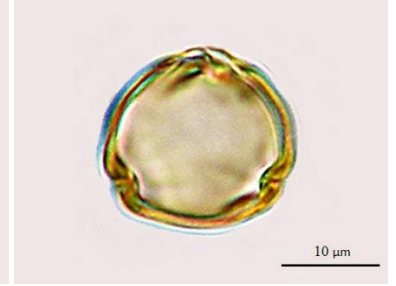
101 *Astragalus garbancillo*
FABACEAE



102 *Astragalus garbancillo* (VP)
FABACEAE



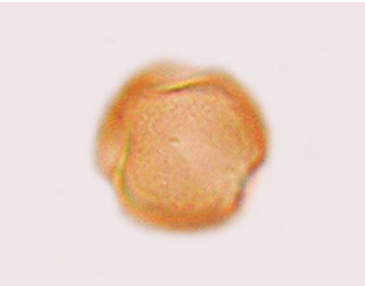
103 *Astragalus garbancillo* (VE)
FABACEAE



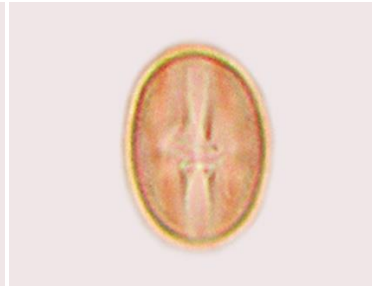
104 *Astragalus garbancillo* (C)
FABACEAE



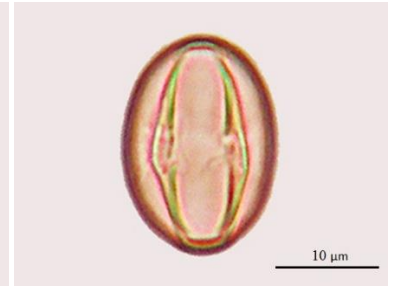
105 *Medicago polymorpha*
FABACEAE



106 *Medicago polymorpha* (VP)
FABACEAE



107 *Medicago polymorpha* (VE)
FABACEAE



108 *Medicago polymorpha* (C)
FABACEAE



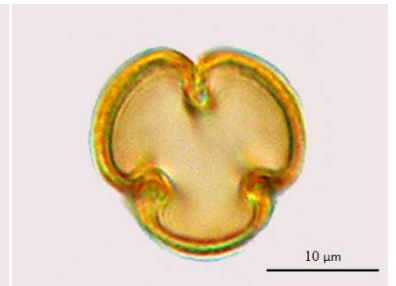
109 *Senna versicolor*
FABACEAE



110 *Senna versicolor* (VP)
FABACEAE



111 *Senna versicolor* (VE)
FABACEAE



112 *Senna versicolor* (C)
FABACEAE



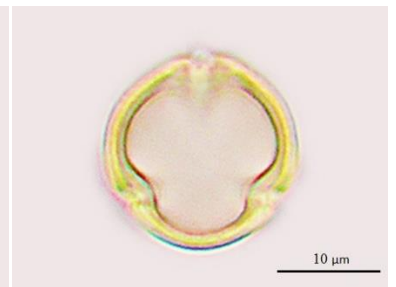
113 *Trifolium repens*
FABACEAE



114 *Trifolium repens* (VP)
FABACEAE



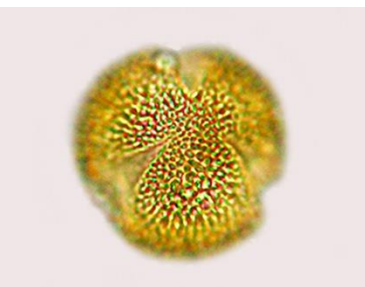
115 *Trifolium repens* (VE)
FABACEAE



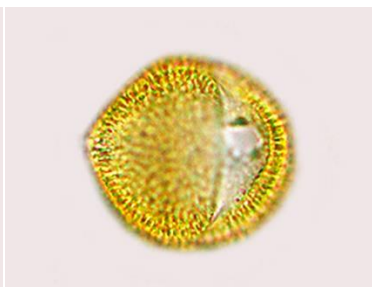
116 *Trifolium repens* (C)
FABACEAE



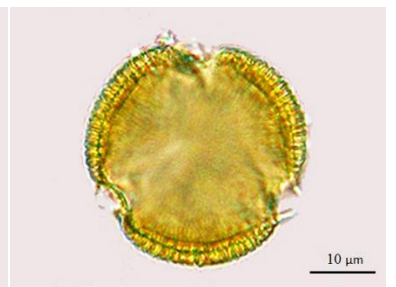
117 *Gentianella persquarrosa*
GENTIANACEAE



118 *Gentianella persquarrosa* (VP)
GENTIANACEAE



119 *Gentianella persquarrosa* (VE)
GENTIANACEAE



120 *Gentianella persquarrosa* (C)
GENTIANACEAE

Cusco, PERÚ

PÓLEN de las angiospermas del Valle Sagrado de los Incas vol. I

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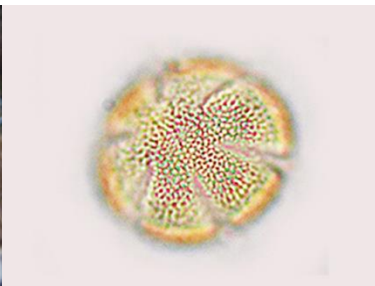
Fotos: Raúl Yuca-Rivas (RYR) Producido por: Raúl Yuca-Rivas © Raúl Yuca-Rivas [rivaszu84@gmail.com]

Eudicotiledóneas: (VP) Vista Polar, (VE) Vista ecuatorial; Monocotiledóneas: (VPx) Vista proximal, (VL) Vista lateral; en ambos: (C) Contorno de la exina.

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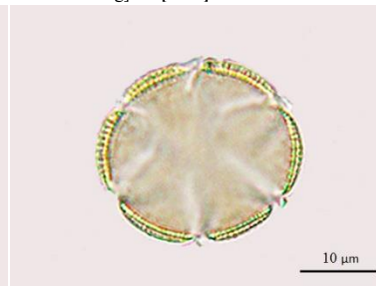
121 *Minthostachys acris*
LAMIACEAE



122 *Minthostachys acris* (VP)
LAMIACEAE



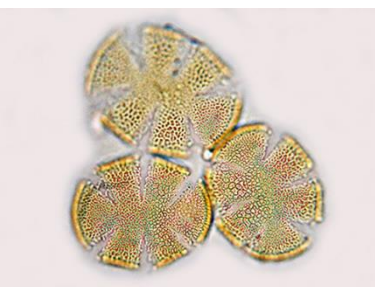
123 *Minthostachys acris* (VE)
LAMIACEAE



124 *Minthostachys acris* (C)
LAMIACEAE



125 *Salvia oppositiflora*
LAMIACEAE



126 *Salvia oppositiflora* (VP)
LAMIACEAE



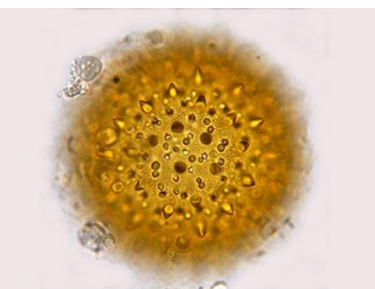
127 *Salvia oppositiflora* (VE)
LAMIACEAE



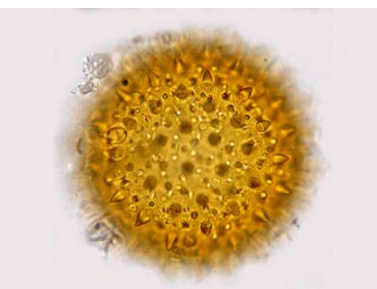
128 *Salvia oppositiflora* (C)
LAMIACEAE



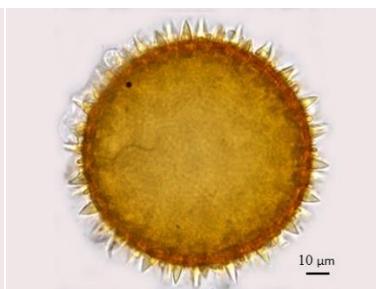
129 *Alcea rosea*
MALVACEAE



130 *Alcea rosea*
MALVACEAE



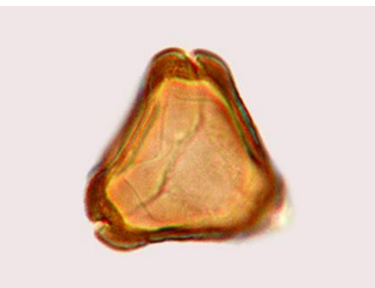
131 *Alcea rosea*
MALVACEAE



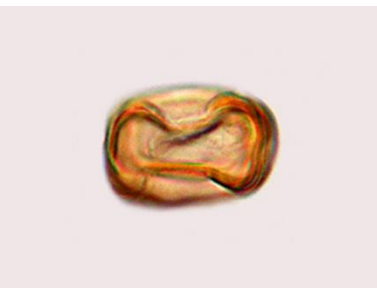
132 *Alcea rosea* (C)
MALVACEAE



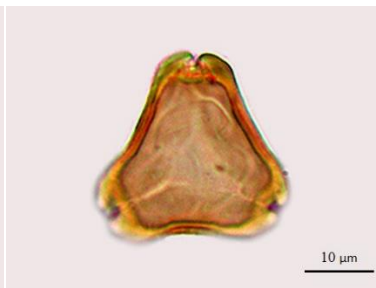
133 *Eucalyptus globulus*
MYRTACEAE



134 *Eucalyptus globulus* (VP)
MYRTACEAE



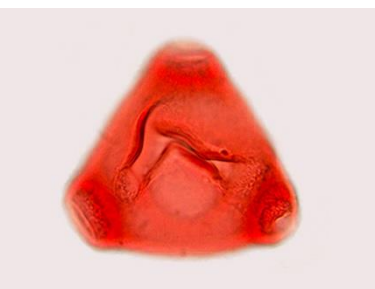
135 *Eucalyptus globulus* (VE)
MYRTACEAE



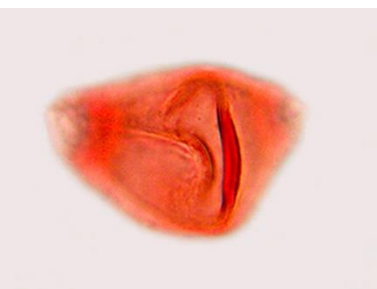
136 *Eucalyptus globulus* (C)
MYRTACEAE



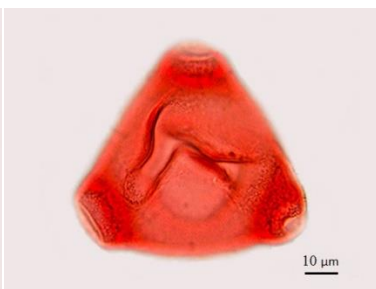
137 *Fuchsia* sp.
ONAGRACEAE



138 *Fuchsia* sp. (VP)
ONAGRACEAE



139 *Fuchsia* sp. (VE)
ONAGRACEAE



140 *Fuchsia* sp. (C)
ONAGRACEAE

PÓLEN de las angiospermas del Valle Sagrado de los Incas vol. I

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Fotos: Raúl Yuca-Rivas (RYR) Producido por: Raúl Yuca-Rivas © Raúl Yuca-Rivas [rivaszu84@gmail.com]

Eudicotiledóneas: (VP) Vista Polar, (VE) Vista ecuatorial; Monocotiledóneas: (VPx) Vista proximal, (VL) Vista lateral; en ambos: (C) Contorno de la exina.

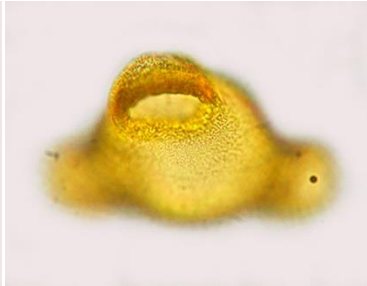
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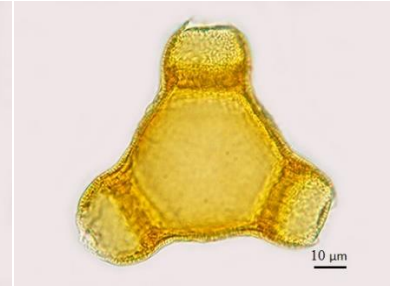
141 *Oenothera scabra*
ONAGRACEAE



142 *Oenothera scabra* (VP)
ONAGRACEAE



143 *Oenothera scabra* (VE)
ONAGRACEAE



144 *Oenothera scabra* (C)
ONAGRACEAE



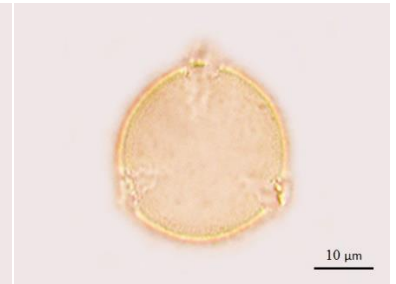
145 *Bartsia camporum*
OROBANCHACEAE



146 *Bartsia camporum* (VP)
OROBANCHACEAE



147 *Bartsia camporum* (VE)
OROBANCHACEAE



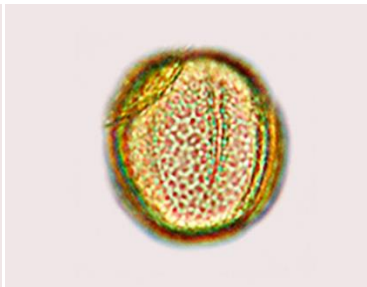
148 *Bartsia camporum* (C)
OROBANCHACEAE



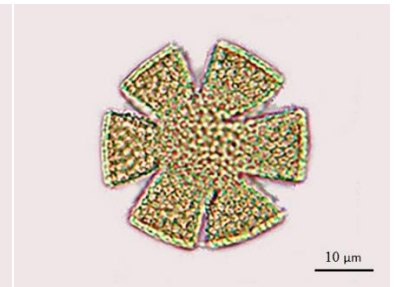
149 *Eschscholzia californica*
PAPAVERACEAE



150 *Eschscholzia californica* (VP)
PAPAVERACEAE



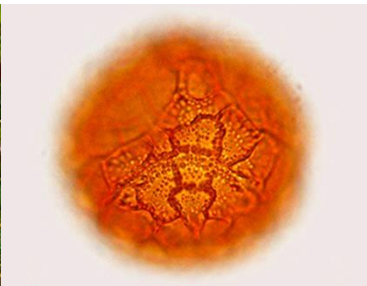
151 *Eschscholzia californica* (VE)
PAPAVERACEAE



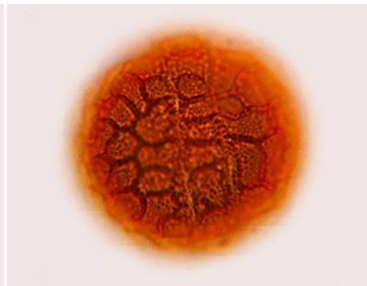
152 *Eschscholzia californica* (C)
PAPAVERACEAE



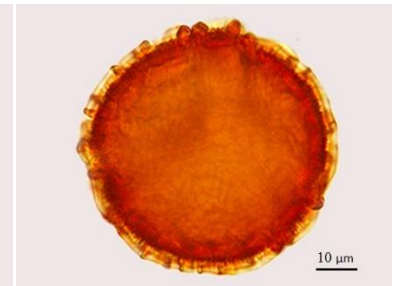
153 *Passiflora pinnatistipula*
PASSIFLORACEAE



154 *Passiflora pinnatistipula* (VP)
PASSIFLORACEAE



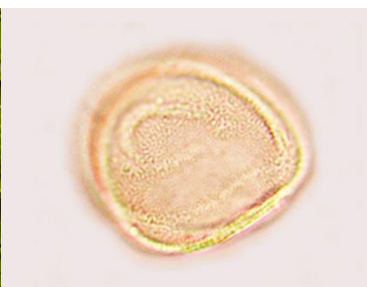
155 *Passiflora pinnatistipula* (VE)
PASSIFLORACEAE



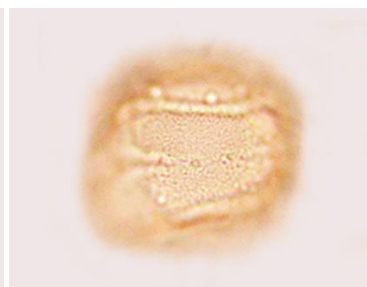
156 *Passiflora pinnatistipula* (C)
PASSIFLORACEAE



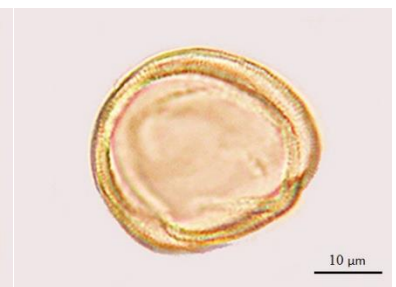
157 *Mimulus glabratus*
PHRYMACEAE



158 *Mimulus glabratus* (VP)
PHRYMACEAE



159 *Mimulus glabratus* (VE)
PHRYMACEAE



160 *Mimulus glabratus* (C)
PHRYMACEAE

Cusco, PERÚ

PÓLEN de las angiospermas del Valle Sagrado de los Incas vol. I

Raúl Yuca-Rivas

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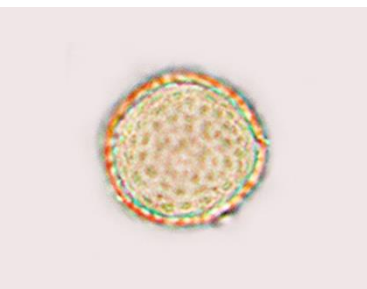
Fotos: Raúl Yuca-Rivas (RYR) Producido por: Raúl Yuca-Rivas © Raúl Yuca-Rivas [rivaszu84@gmail.com]

Eudicotiledóneas: (VP) Vista Polar, (VE) Vista ecuatorial; Monocotiledóneas: (VPx) Vista proximal, (VL) Vista lateral; en ambos: (C) Contorno de la exina.

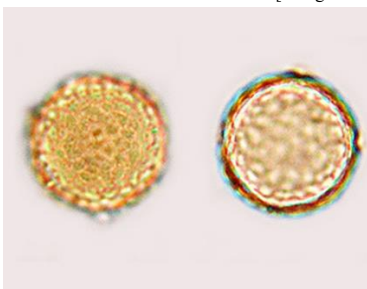
[fieldguides.fieldmuseum.org] [1023] versión 1 6/2018



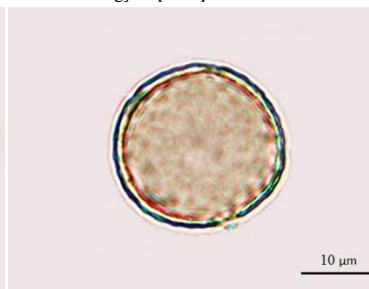
161 *Plantago australis*
PLANTAGINACEAE



162 *Plantago australis*
PLANTAGINACEAE



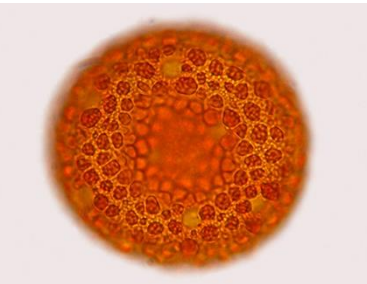
163 *Plantago australis*
PLANTAGINACEAE



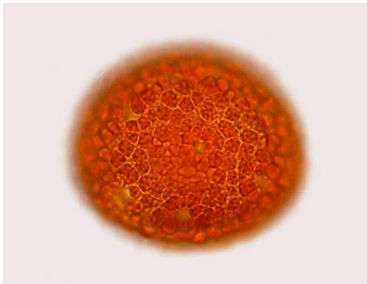
164 *Plantago australis* (C)
PLANTAGINACEAE



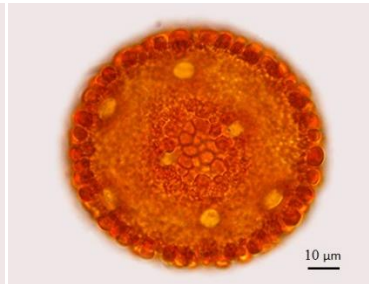
165 *Cantua buxifolia*
POLEMONIACEAE



166 *Cantua buxifolia*
POLEMONIACEAE



167 *Cantua buxifolia*
POLEMONIACEAE



168 *Cantua buxifolia* (C)
POLEMONIACEAE



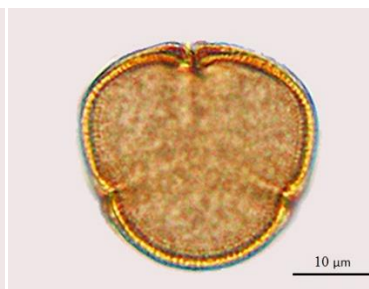
169 *Rumex crispus*
POLYGONACEAE



170 *Rumex crispus* (VP)
POLYGONACEAE



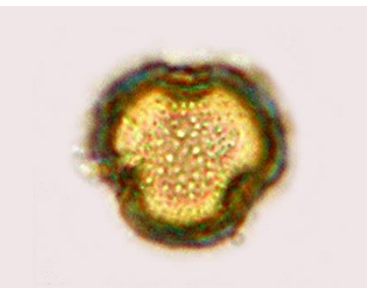
171 *Rumex crispus* (VE)
POLYGONACEAE



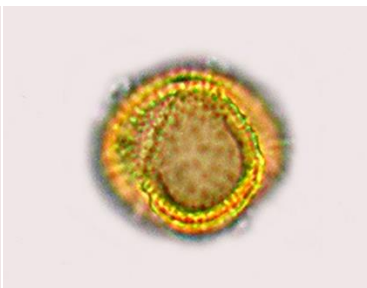
172 *Rumex crispus* (C)
POLYGONACEAE



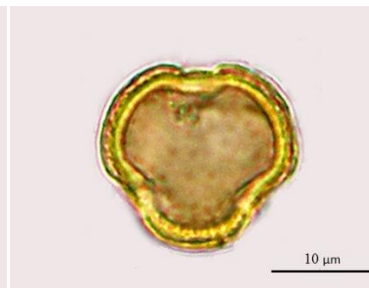
173 *Clematis seemannii*
RANUNCULACEAE



174 *Clematis seemannii* (VP)
RANUNCULACEAE



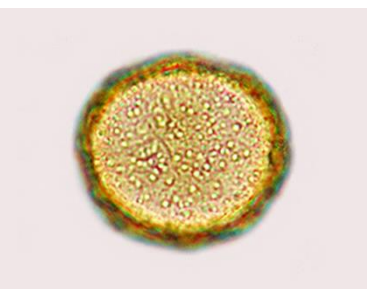
175 *Clematis seemannii* (VE)
RANUNCULACEAE



176 *Clematis seemannii* (C)
RANUNCULACEAE



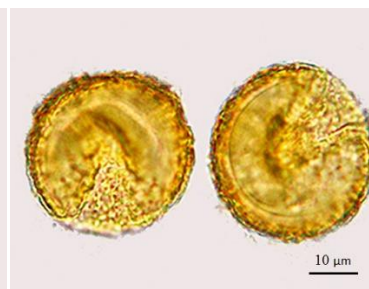
177 *Ranunculus praemorsus*
RANUNCULACEAE



178 *Ranunculus praemorsus*
RANUNCULACEAE



179 *Ranunculus praemorsus*
RANUNCULACEAE



180 *Ranunculus praemorsus* (C)
RANUNCULACEAE

PÓLEN de las angiospermas del Valle Sagrado de los Incas vol. I

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Fotos: Raúl Yuca-Rivas (RYR) Producido por: Raúl Yuca-Rivas © Raúl Yuca-Rivas [rivaszu84@gmail.com]

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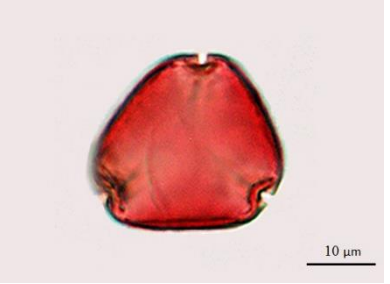
181 *Colletia spinosissima*
RHAMNACEAE



182 *Colletia spinosissima* (VP)
RHAMNACEAE



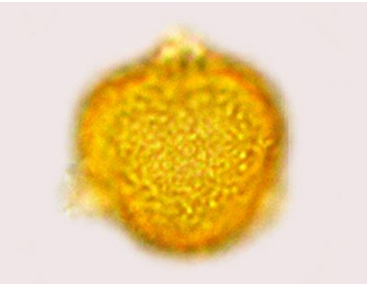
183 *Colletia spinosissima* (VE)
RHAMNACEAE



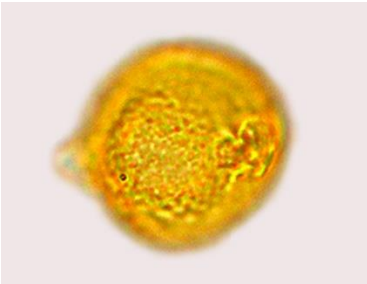
184 *Colletia spinosissima* (C)
RHAMNACEAE



185 *Polylepis racemosa*
ROSACEAE



186 *Polylepis racemosa* (VP)
ROSACEAE



187 *Polylepis racemosa* (VE)
ROSACEAE



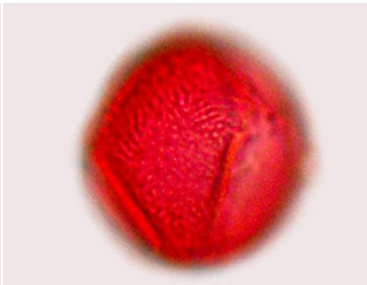
188 *Polylepis racemosa* (C)
ROSACEAE



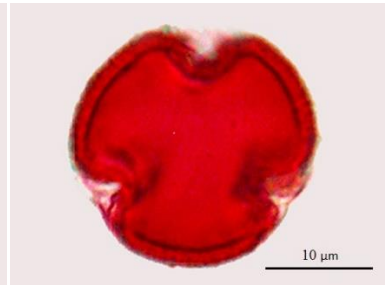
189 *Prunus serotina* subsp. *capuli*
ROSACEAE



190 *Prunus serotina* subsp. *capuli* (VP)
ROSACEAE



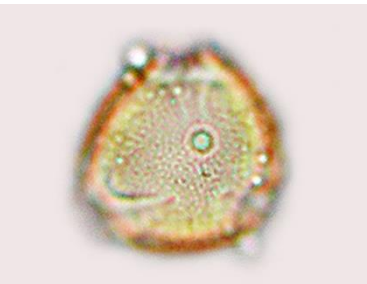
191 *Prunus serotina* subsp. *capuli* (VE)
ROSACEAE



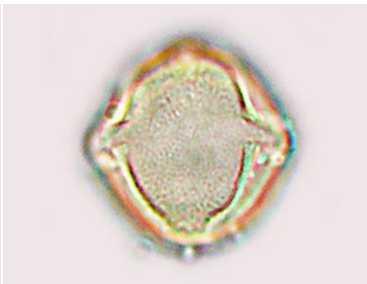
192 *Prunus serotina* subsp. *capuli* (C)
ROSACEAE



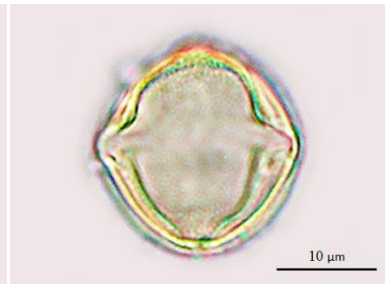
193 *Ruta chalepensis*
RUTACEAE



194 *Ruta chalepensis* (VP)
RUTACEAE



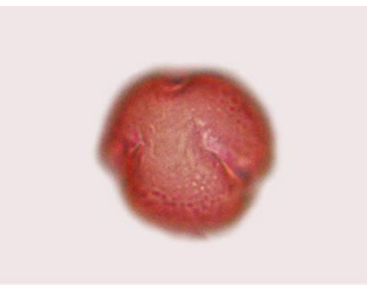
195 *Ruta chalepensis* (VE)
RUTACEAE



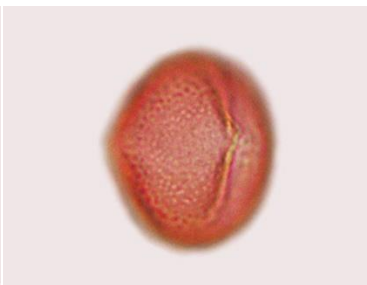
196 *Ruta chalepensis* (C)
RUTACEAE



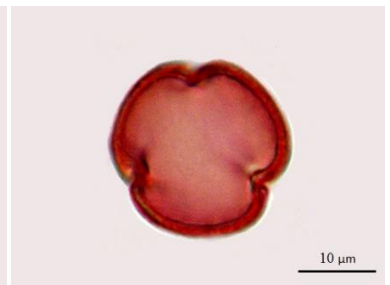
197 *Buddleja coriacea*
SCROPHULARIACEAE



198 *Buddleja coriacea* (VP)
SCROPHULARIACEAE



199 *Buddleja coriacea* (VE)
SCROPHULARIACEAE



200 *Buddleja coriacea* (C)
SCROPHULARIACEAE

PÓLEN de las angiospermas del Valle Sagrado de los Incas vol. I 11

Cusco, PERÚ

Raúl Yuca-Rivas

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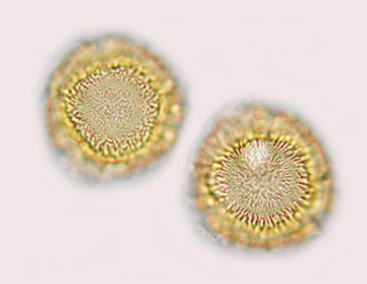
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201 *Brugmansia sanguinea*
SOLANACEAE



202 *Brugmansia sanguinea* (VP)
SOLANACEAE



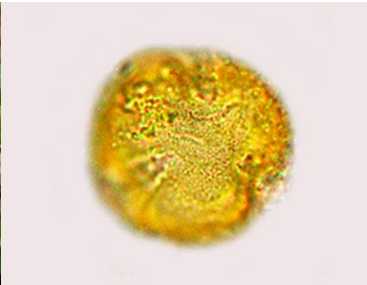
203 *Brugmansia sanguinea* (VE)
SOLANACEAE



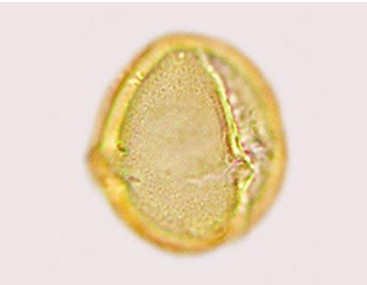
204 *Brugmansia sanguinea* (C)
SOLANACEAE



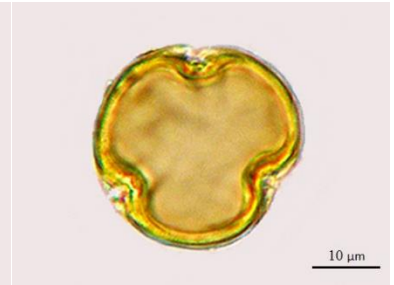
205 *Jaltomata herrerae*
SOLANACEAE



206 *Jaltomata herrerae* (VP)
SOLANACEAE



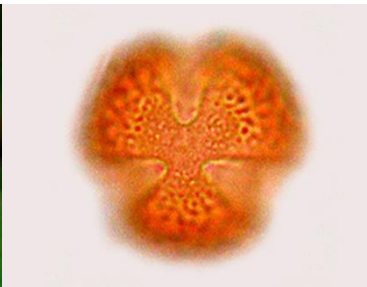
207 *Jaltomata herrerae* (VE)
SOLANACEAE



208 *Jaltomata herrerae* (C)
SOLANACEAE



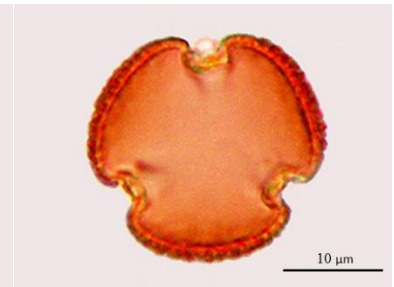
209 *Nicotiana tomentosa*
SOLANACEAE



210 *Nicotiana tomentosa* (VP)
SOLANACEAE



211 *Nicotiana tomentosa* (VE)
SOLANACEAE



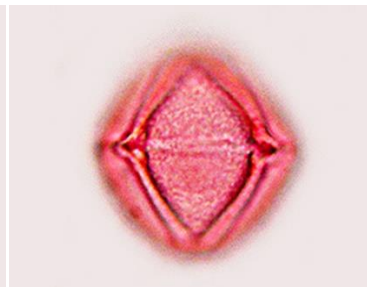
212 *Nicotiana tomentosa* (C)
SOLANACEAE



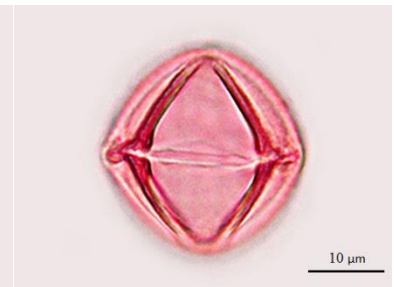
213 *Solanum nitidum*
SOLANACEAE



214 *Solanum nitidum* (VP)
SOLANACEAE



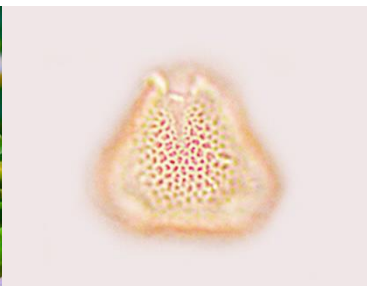
215 *Solanum nitidum* (VE)
SOLANACEAE



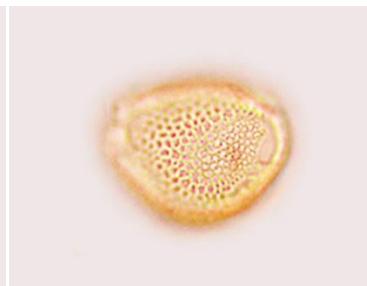
216 *Solanum nitidum* (C)
SOLANACEAE



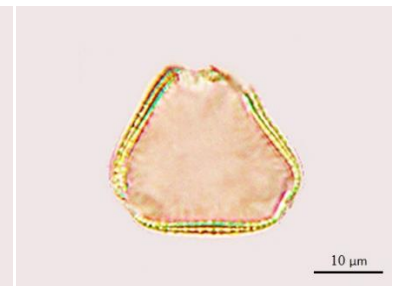
217 *Tropaeolum peregrinum*
TROPAEOLACEAE



218 *Tropaeolum peregrinum* (VP)
TROPAEOLACEAE



219 *Tropaeolum peregrinum* (VE)
TROPAEOLACEAE



220 *Tropaeolum peregrinum* (C)
TROPAEOLACEAE

PÓLEN de las angiospermas del Valle Sagrado de los Incas vol. I

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Fotos: Raúl Yuca-Rivas (RYR) Producido por: Raúl Yuca-Rivas © Raúl Yuca-Rivas [rivaszu84@gmail.com]

Eudicotiledóneas: (VP) Vista Polar, (VE) Vista ecuatorial; Monocotiledóneas: (VPx) Vista proximal, (VL) Vista lateral; en ambos: (C) Contorno de la exina.

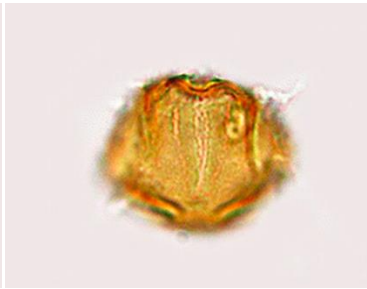
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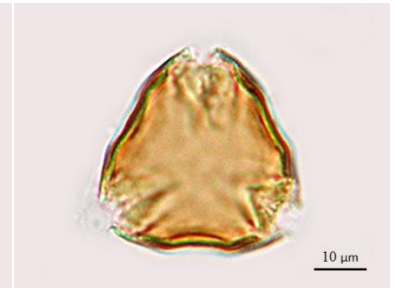
221 *Verbena litoralis*
VERBENACEAE



222 *Verbena litoralis* (VP)
VERBENACEAE



223 *Verbena litoralis* (VE)
VERBENACEAE



224 *Verbena litoralis* (C)
VERBENACEAE



Comunidad de Cuyo Grande (distrito de Písaq, Cusco), en el Valle Sagrado de los Incas, a 3400 m de altitud. Estación de lluvias (Octubre - Abril).



Comunidades de Amaru y Sacaca (distrito de Písaq, Cusco), en el Valle Sagrado de los Incas, entre 3400 y 3800 m de altitud. Estación de secas (Mayo - Setiembre).