

TREE FERNS OF PANAMA

Adrian Tejedor¹ and Marcus Lehnert²

¹School for Field Studies, Peru; ²University of Bonn, Germany

Photos by Adrian Tejedor. Produced by Adrian Tejedor. Thanks to Ivan Valdespino for help with permits and Christian Adolfo López for help in the field and the herbarium.

Funded in part by the Swiss National Fund (grant SNF-310030L_146906) and by the generous contribution of Mrs. Carolina Shorter.

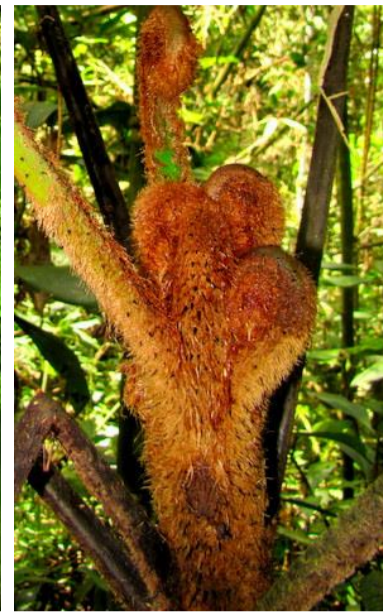
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1 *Alsophila cuspidata* - Cyatheaceae habit

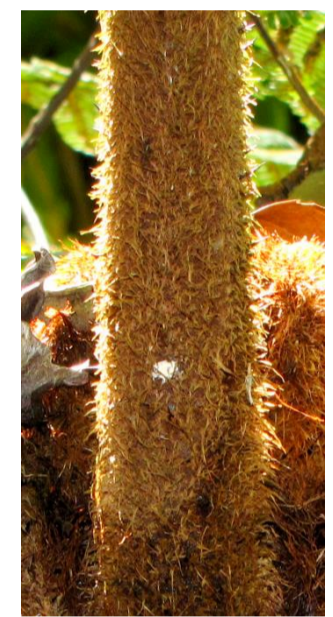
frond

trunk apex

crozier

petiole

pinnule



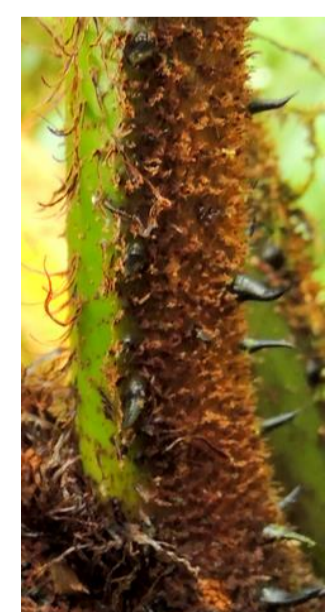
2 *Alsophila erinacea* - Cyatheaceae



3 *Alsophila firma* - Cyatheaceae



4 *Alsophila imrayana* - Cyatheaceae



5 *Alsophila polystichoides* - Cyatheaceae

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6 *Alsophila salvinii* – Cyatheaceae

habit

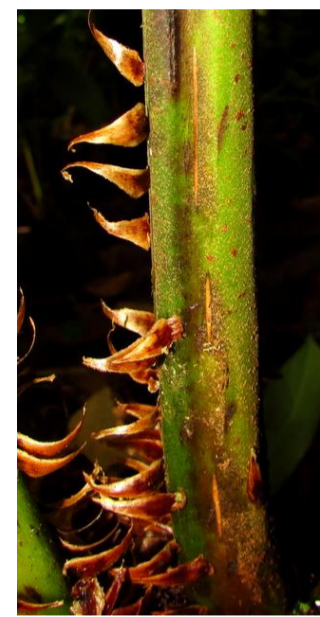
frond

trunk apex

crozier

petiole

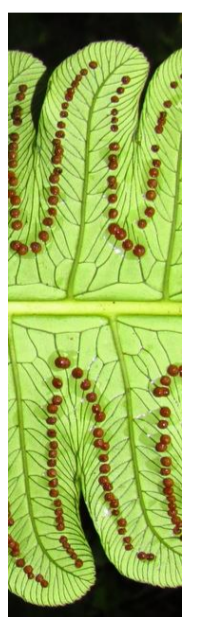
pinnule



7 *Cyathea chiricana* - Cyatheaceae



8 *Cyathea choricarpa* - Cyatheaceae



9 *Cyathea cocleana* - Cyatheaceae



10 *Cyathea costaricensis* - Cyatheaceae

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11 *Cyathea darienensis* - Cyatheaceae habit

frond

trunk apex

crozier

petiole

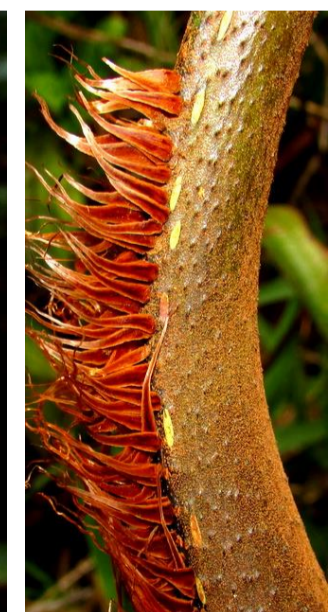
pinnule



12 *Cyathea delgadii* - Cyatheaceae



13 *Cyathea divergens* - Cyatheaceae



14 *Cyathea eggersii* - Cyatheaceae



15 *Cyathea falcata* - Cyatheaceae

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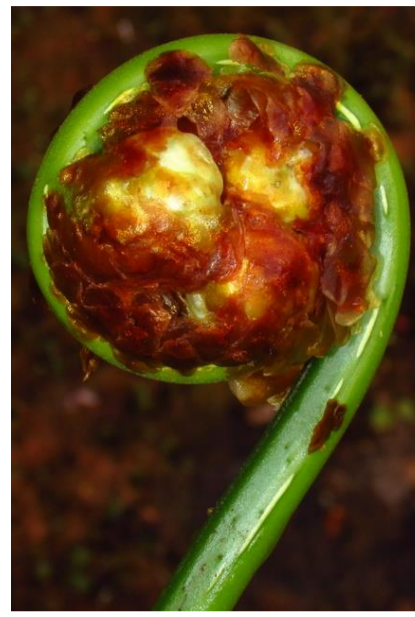
16 *Cyathea gracilis* - Cyatheaceae habit



frond



trunk apex



crozier



petiole



pinnule



17 *Cyathea holdridgeana* - Cyatheaceae



18 *Cyathea horrida* - Cyatheaceae



19 *Cyathea impar* - Cyatheaceae



20 *Cyathea margarita* - Cyatheaceae



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21 *Cyathea maxonii* - Cyatheaceae habit



frond



trunk apex



crozier



petiole



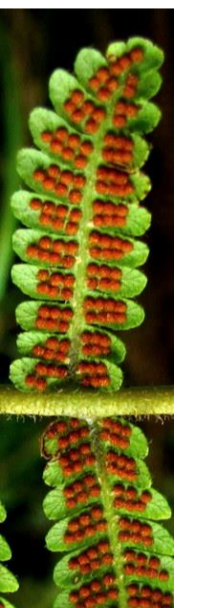
pinnule



22 *Cyathea microdonta* - Cyatheaceae



23 *Cyathea mucilagina* - Cyatheaceae



24 *Cyathea multiflora* - Cyatheaceae



25 *Cyathea mutica* - Cyatheaceae



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26 *Cyathea myosuroides* - Cyatheaceae habit

frond

trunk apex

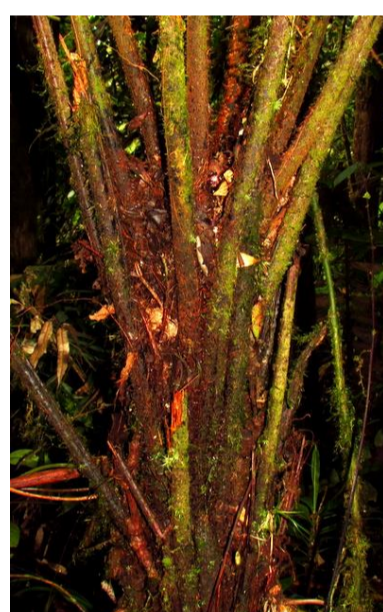
crozier

petiole

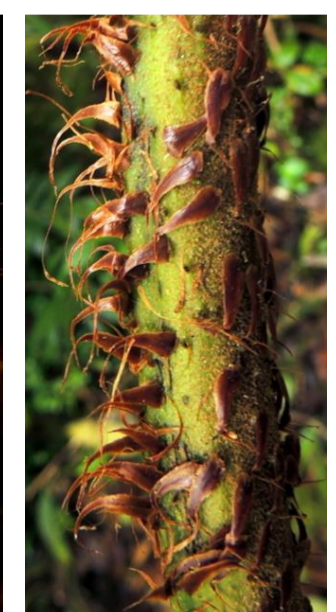
pinnule



27 *Cyathea nigripes* - Cyatheaceae



28 *Cyathea nodulifera* - Cyatheaceae



29 *Cyathea onusta* - Cyatheaceae



30 *Cyathea petiolata* - Cyatheaceae

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31 *Cyathea pinnula* - Cyatheaceae

habit



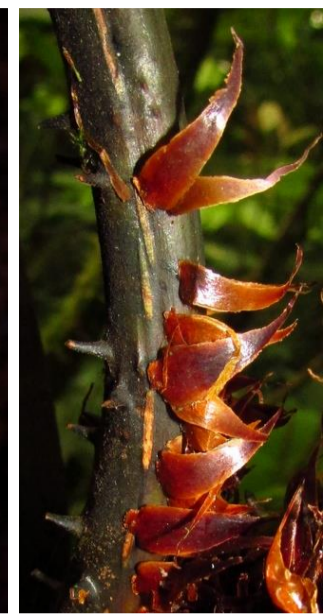
frond



trunk apex



crozier



petiole



pinnule



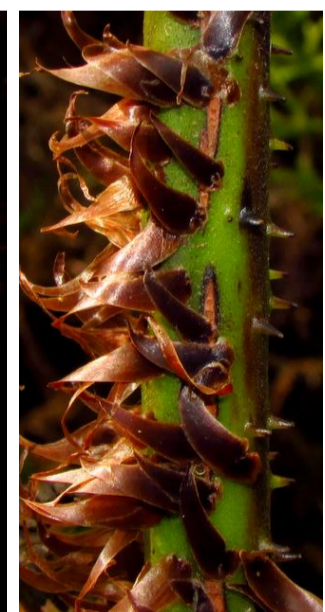
32 *Cyathea pseudonana* - Cyatheaceae



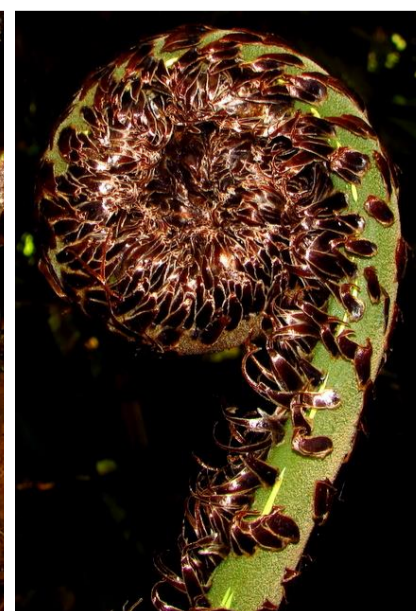
33 *Cyathea retanae* - Cyatheaceae



34 *Cyathea rojasiana* - Cyatheaceae



35 *Cyathea schiedeana* - Cyatheaceae



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36 *Cyathea squamulosa* - Cyatheaceae habit



frond



trunk apex



crozier



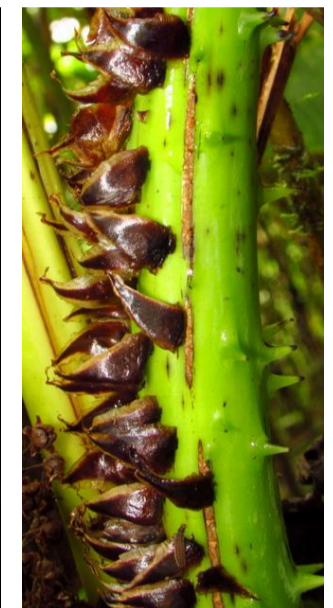
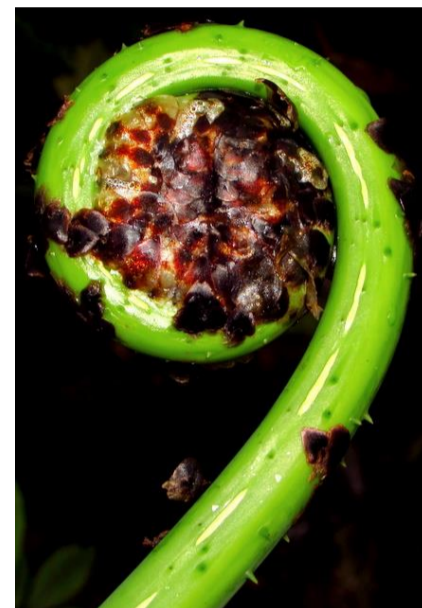
petiole



pinnule



37 *Cyathea stipularis* - Cyatheaceae



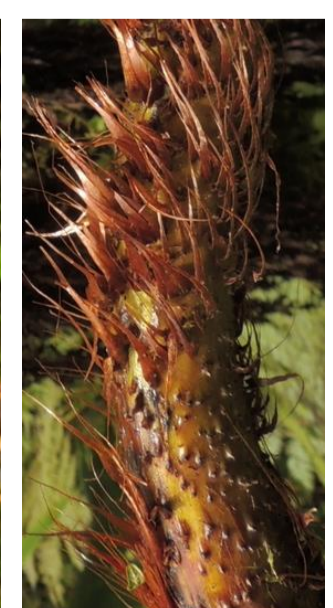
38 *Cyathea stolzeana* - Cyatheaceae



39 *Cyathea stolzei* - Cyatheaceae



40 *Cyathea suprastrigosa* - Cyatheaceae



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41 *Cyathea trichiata* - Cyatheaceae habit



frond



trunk apex



crozier



petiole



pinnule



42 *Cyathea ursina* - Cyatheaceae



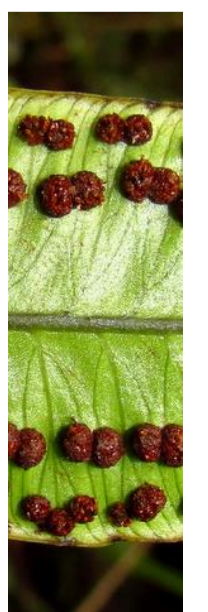
43 *Cyathea villosa* - Cyatheaceae



44 *Cyathea wendlandii* - Cyatheaceae



45 *Cyathea williamsii* - Cyatheaceae



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46 *Cyathea* sp. nov. - Cyatheaceae habit

frond

trunk apex

crozier

petiole

pinnule



47 *Sphaeropteris brunei* - Cyatheaceae



48 *Dicksonia navarrensii* - Dicksoniaceae



49 *Lophosoria quadripinnata* - Dicksoniaceae



50 *Lophosoria quesadae* - Dicksoniaceae