

Higher Classification¹

Kingdom: Plantae, **Phylum:** Tracheophyta

| Class (C:), Order (O:) and Family (F:) | Scientific Name ¹ | English Name ² |
|---|---|------------------------------|
| C: Equisetopsida (Horsetails) | See Fern & Allies Species List ³ | |
| C: Filicopsida (Leptosporangiate Ferns) | See Fern & Allies Species List ³ | |
| C: Isoetopsida (Isotopsids) | See Fern & Allies Species List ³ | |
| C: Liliopsida (Monocots) | | |
| O: Alismatales | | |
| F: Araceae (Arum) | Anthurium concinatum | (Flamingo Plant) |
| | Anthurium salvinii | <i>Bird's-nest Anthurium</i> |
| | Colocasia sp. | |
| | Monstera deliciosa | Willowleaf |
| | Monstera dissecta | |
| | Monstera epipremnoides | |
| | Syngonium sp. | |
| O: Arecales | | |
| F: Arecaceae (Palm) | Chamaedorea pittieri | |
| | Chamaedorea sp. | |
| | Geonoma sp. | |
| | Geonoma undata subsp. edulis | |
| | Prestoea longepetiolata | |
| O: Asparagales | | |
| F: Orchidaceae (Orchid) | See Orchid Species List ⁴ | |
| O: Commelinaceae | | |
| F: Commelinaceae (Spiderwort) | Commelina sp. | (Dayflower) |
| | Tradescantia poelliae | (Spiderwort) |
| | Tradescantia zanoniana | (Spiderwort) |
| O: Pandanales | | |
| F: Cyclanthaceae (Panama-hat) | Cyclanthaceae sp. | |
| O: Liliales | | |
| F: Liliaceae (Lily) | Lilium longiflorum | Easter Lily |
| O: Poales (Grasses) | | |
| F: Bromeliaceae (Bromeliad) | Catopsis nutans | Nodding Strap Airplant |
| | Tillandsia leiboldiana | (Airplant) |
| | Tillandsia punctulata | (Airplant) |
| | Vriesea spp. | |
| F: Cyperaceae (Sedge) | Cyperus papyrus | Papyrus |
| | Kyllinga sp. | |
| | Rhynchospora sp. | |
| F: Poaceae (True Grasses) | Brachiaria cf. ruziziensis | Congo Grass |
| | Digitaria costaricensis | |

Class (C:), Order (O:) and Family (F:)

| Class (C:), Order (O:) and Family (F:) | Scientific Name ¹ | English Name ² |
|--|---|----------------------------------|
| C: Liliopsida (Monocots) (cont'd) | | |
| O: Poales (Grasses) (cont'd) | | |
| F: Poaceae (True Grasses) (cont'd) | Guadua sp. | <i>Bamboo</i> |
| O: Zingiberales | | |
| F: Cannaceae (Indian Shot) | Canna tuerckheimii | Maraca Roja |
| F: Costaceae | Costus wilsonii | Spiral Flag |
| F: Heliconiaceae (Lobster-Claw) | Heliconia beckneri | (Heliconia) |
| | Heliconia lankesteri | (Heliconia) |
| | Heliconia rostrata | Lobster Claw |
| | Heliconia tortuosa | (Heliconia) |
| | Heliconia wagneriana | (Heliconia) |
| F: Maranthaceae | Calathea sp. | |
| F: Zingiberaceae (Ginger) | Etingera elatior | Kantan |
| | Renealmia alpinia | Jenjibre-de-jardin |
| C: Lycopodiopsida (Clubmosses) | | |
| | See Fern & Allies Species List ³ | |
| C: Magnoliopsida (Dicots) | | |
| O: Apiales | | |
| F: Apiaceae (Umbel) | Sanicula liberta | Pacific Blacksnakeroot |
| F: Araliaceae (Ivy) | Dendropanax arboreus | Angelica Tree |
| | Oreopanax sp. | |
| | Oreopanax standleyi | |
| | Oreopanax xalapensis | |
| | Schefflera rodriguesiana | <i>Schefflera, Umbrella Tree</i> |
| O: Aquifoliales | | |
| F: Cardipteridaceae | Citronella costaricensis | |
| O: Asterales | | |
| F: Asteraceae (Aster & Daisy) | Acmella sp. | (Spotflower) |
| | Ageratum conyzoides | Tropical Whiteweed |
| | Archibaccharis schiedeana | |
| | Bidens pilosa | <i>Beggar's Tick</i> |
| | Elephantopus mollis | Soft Elephantsfoot |
| | Emilia fosbergii | Florida Tasselflower |
| | Emilia sonchifolia | Lilac Tasselflower |
| | Galinsoga sp. | (Gallant-soldier) |
| | Heliopsis buphthalmoides | (Sun Glory) |
| | Jaegeria hirta | |
| | Lasianthaea fruticosa | (Lasianthaea) |
| | Koanophyllon pittieri | (Throughwort) |
| | Melanthera nivea | Snow Squarestem |
| | Senecio copeyensis | (Ragwort) |
| | Senecio grandifolius | (Ragwort) |

**Class (C:), Order (O:) and
Family (F:)**

Scientific Name¹

English Name²

| Class (C:), Order (O:) and Family (F:) | Scientific Name ¹ | English Name ² |
|--|------------------------------|---|
| C: Magnoliopsida (Dicots) (cont'd) | | |
| O: Asterales (cont'd) | | |
| F: Asteraceae (Aster & Daisy) (cont'd) | Verbesina gigantea | (Crownbeard) |
| | Verbesina turbacensis | (Crownbeard) |
| F: Campanulaceae (Bellflower) | Centropogon granulosus | |
| | Centropogon gutierrezii | |
| O: Boraginales | | |
| F: Boraginaceae (Borage) | Ehretia latifolia | |
| | Myriopus sp. | |
| | Wigandia urens | Caracus Wigandia, <i>Wigandia</i> |
| O: Caryophyllales | | |
| F: Amaranthaceae (Pigweed) | Pleuropetalum sprucei | |
| F: Caryophyllaceae (Chickweed) | Arenaria lanuginosa | |
| | Drymaria cf. cordata | West Indian Drymary |
| | Drymaria multiflora | Slender Drymary |
| F: Phytolaccaceae (Pokeweed) | Ledenbergia peruviana | |
| O: Celastrales | | |
| F: Celastraceae (Stackhousia) | Salacia petensis | <i>Guava</i> |
| | Zinowiewia integerrima | <i>Golden Root</i> |
| O: Cornales | | |
| F: Cornaceae (Dogwood) | Cornus disciflora | (Dogwood) |
| F: Loasaceae (Loasa) | Nasa triphylla | |
| O: Cucurbitales | | |
| F: Begoniaceae (Begonia) | Begonia convallariodora | (Begonia) |
| | Begonia involucrata | (Begonia) |
| | Begonia semiovata | (Begonia) |
| F: Cucurbitaceae (Gourd) | Cyclanthera sp. | |
| O: Dipsacales | | |
| F: Adoxaceae (Adoxa) | Viburnum costaricanum | (Viburnum) |
| O: Ericales | | |
| F: Actinidiaceae (Kiwi-fruit & Chinese Gooseberry) | Saurauia montana | |
| | Saurauia pittieri | Moquillo, <i>Snot Tree</i> |
| | Saurauia rubiformis | <i>Snot Tree</i> |
| F: Balsaminaceae (Balsam) | Impatiens walleriana | Buzzy Lizzy, <i>Busy Lizzie</i> |
| F: Clethraceae | Clethra mexicana | (Clethra) |
| F: Ericaceae (Heather) | Cavendishia callista | |
| | Satyria meiantha | |
| F: Pentaphragmaceae | Freziera candicans | <i>Coral</i> |
| F: Primulaceae (Primrose) | Ardisia compressa | (Marlberry) |
| | Clavija cf. biborrana | |
| | Myrsine coriacea | Leathery Colicwood, <i>Little Mouse</i> |

Class (C:), Order (O:) and Family (F:)

Scientific Name¹

English Name²

| Class (C:), Order (O:) and Family (F:) | Scientific Name ¹ | English Name ² |
|---|---|--|
| C: Magnoliopsida (Dicots) (cont'd) | | |
| O: Ericales (cont'd) | | |
| F: Primulaceae (Primrose) (cont'd) | Myrsine dependens Parathesis cartagoana | (Colicwood) |
| F: Sapotaceae (Milkwood) | Manilkara chicle Manilkara zapota Pouteria fossicola | Sapote |
| F: Styracaceae (Storax) | Styrax warscewiczii | (Snowbell) |
| F: Theaceae (Tea) | Gordonia fruticosa | (Gordonia) |
| O: Fabales | | |
| F: Fabaceae (Pea) | Arachis pintoi Dalbergia sp. Desmodium sp. Diphysa americana Erythrina cf. poeppigiana Erythrina costaricensis Erythrina lanceolata Gliricidia sepium Inga oerstediana Inga sierrae Lysiloma divaricatum Mimosa pudica Mucuna urens Phaseolus cf. lunatus Styphnolobium montevidis Vigna sp. | Pinto Peanut (Indian Rosewood) (Ticktrefoil) Mountain Immortelle (Sykes Coral Tree) <i>Machete Flower</i> Gliricidia <i>Guaba</i> (Ice Cream Bean), <i>Wild Avocado</i> Mauto Herbe Sensible Horse-eye Beans, Ox Eye Lima Bean (Cowpea) |
| F: Polygalaceae (Milkwort) | Monnina sp. | |
| O: Fagales | | |
| F: Betulaceae (Birch) | Alnus acuminata | Alder |
| F: Fagaceae (Beech) | Quercus benthamii Quercus bumelioides Quercus copeyensis Quercus costaricensis Quercus gulielmitreleasei Quercus insignis Quercus oleoides Quercus oocarpa Quercus salicifolia Quercus seemannii | (Oak) <i>White Oak</i> <i>Black Oak</i> <i>White Oak</i> (Oak) (Oak) (Oak) (Oak) (Oak) (Oak) (Oak) |
| F: Juglandaceae (Walnut) | Alfaroa costaricensis | |
| F: Myricaceae (Waxberry) | Morella sp. | (Bayberry) |

**Class (C:), Order (O:) and
Family (F:)**

Scientific Name¹

English Name²

C: Magnoliopsida (Dicots) (cont'd)

O: Gentianales

| | | |
|-----------------------------|---|--|
| F: Apocynaceae (Dogbane) | Apocynaceae sp. Asclepias curassavica | Tropical Milkweed |
| F: Rubiaceae (Coffee) | Chione sylvicola Cinchona pubescens Cosmibuena macrocarpa Elaeagia auriculata Gonzalagunia rosea Gonzalagunia ovatifolia Guettarda crispiflora poasana Hoffmannia cf. congesta Palicourea purpurea Posoqueria latifolia Psychotria aubletiana Psychotria horizontalis Psychotria sylvivaga Randia sp. Rogiera amoena Spermacoce alata Spermacoce remota | Quinine Jicarita (Cappel) (Indigo berry) Broadleaf Buttonweed Woodland False Buttonweed |

O: Geraniales

| | | |
|------------------------------|-----------------------|----------------|
| F: Geraniaceae (Geranium) | Geranium guatemalense | (Crane's-Bill) |
|------------------------------|-----------------------|----------------|

O: Gunnerales

| | | |
|----------------|------------------|---------------------|
| F: Gunneraceae | Gunnera insignis | Poor Man's Umbrella |
|----------------|------------------|---------------------|

O: Lamiales

| | | |
|------------------------------------|---|--|
| F: Acanthaceae (Black Mangrove) | Aphelandra cf. scabra Hansteinia blepharorrhachis Hypoestes phyllostachya Justicia aurea Megaskepasma erythrochlamys Pachystachys lutea Poikilacanthus macranthus Pseuderanthemum sp. Razisea spicata Stenostephanus sp. | Polkadot Plant, <i>Measles Plant</i> , <i>Freckle Face</i> (Water-willow) Brazilian Red-cloak Lollipop-plant |
| F: Bignoniaceae (Jacaranda) | Amphilophium crucigerum Amphitecna sessilifolia Spathodea campanulata Tecoma stans | Monkey Comb Black Calabash African Tulip Tree, <i>Flame of the Forest</i> Trumpetflower, <i>Yellow Cedar</i> , <i>Ginger Thomas</i> |
| F: Calceolariaceae | Calceolaria tripartita | Splitleaf Slipperwort |

**Class (C:), Order (O:) and
Family (F:)**

Scientific Name¹

English Name²

| Class (C:), Order (O:) and Family (F:) | Scientific Name ¹ | English Name ² |
|--|--|--|
| C: Magnoliopsida (Dicots) (cont'd) | | |
| O: Lamiales (cont'd) | | |
| F: Gesneriaceae (African Violet) | Achimenes sp. Besleria cf formosa Columnnea polyantha Diastema racemiferum Drymonia sp. Kohleria spicata Moussonia deppeana | (Kohleria) |
| F: Lamiaceae (Mint & Basil) | Aegiphila sp. Salvia cacaliifolia | (Spiritweed) (Sage) |
| F: Phrymaceae (Phrymas) | Hemichaena fruticosa | |
| F: Plantaginaceae (Plantain) | Plantago australis | Mexican Plantain |
| F: Verbenaceae (Verbena) | Citharexylum caudatum Citharexylum donnell-smithii Lantana camara Lippia umbellata Stachytarpheta frantzii Verbena litoralis | Juniper Berry Largeleaf Lantana <i>Purple Porterweed</i> Seashore Vervain |
| O: Laurales | | |
| F: Lauraceae (Laurel) | Aiouea costaricensis Beilschmiedia sp. Cinnamomum brenesii Cinnamomum triplinerve Nectandra sp. Ocotea insularis Ocotea laetevirens Ocotea stenoneura Persea americana Persea caerulea Persea schiedeana | (Cinnamon) Mexican Cinnamon (Sweetwood) Laurel Sassafras, <i>Little Avocado</i> (Sweetwood), <i>Little Avocado</i> (Sweetwood), <i>Little Avocado</i> Avocado, <i>Alligator Pear</i> <i>Wild Avocado</i> (Bay) |
| F: Monimiaceae (Lemonwood) | Mollinedia sp. | |
| F: Siparunaceae | Siparuna sp. | <i>Limoncita</i> |
| O: Magnoliales | | |
| F: Annonaceae (Custard-apple) | Annona muricata Guatteria recurvisepala Guatteria talamancana | Graviola, <i>Soursop</i> |
| F: Magnoliaceae (Magnolia) | Magnolia poasana | |
| F: Myristicaceae (Nutmeg) | Myristica fragrans Otoba sp. | Nutmeg |

**Class (C:), Order (O:) and
Family (F:)**

Scientific Name¹

English Name²

| Class (C:), Order (O:) and Family (F:) | Scientific Name ¹ | English Name ² |
|--|--|--|
| C: Magnoliopsida (Dicots) (cont'd) | | |
| O: Malpighiales | | |
| F: Chrysobalanaceae (Coco-plum) | Licania sp. | |
| F: Clusiaceae (Mangosteen) | Chrysochlamys allenii Clusia sp. Garcinia intermedia Symphonia globulifera | (Attorney), <i>Autograph Tree</i> Ojoru, <i>Boar Wood</i> , <i>Hog Doctor</i> |
| F: Euphorbiaceae (Euphorbia) | Codiaeum variegatum Croton draco Euphorbia pulcherrima Pausandra trianae Sapium glandulosum Sapium laurifolium Sapium pachystachys | Garden Croton Mexican Dragon's Blood Poinsettia Gumtree Hichahuevos (Milktree) |
| F: Hypericaceae | Vismia baccifera | |
| F: Lacistemataceae | Lozania mutisiana | |
| F: Passifloraceae (Passion Flower) | Passiflora ligularis | Grenadia, <i>Sweet Passion Fruit</i> , <i>Sweet Granadilla</i> |
| F: Phyllanthaceae | Hieronyma alchorneoides Hieronyma oblonga | |
| F: Salicaceae (Willow) | Casearia sylvestris Hasseltia floribunda Macrohasseltia macroterantha Xylosma intermedium | Crackopen |
| F: Violaceae (Violet) | Viola capillaris | |
| O: Malvales | | |
| F: Malvaceae (Lindens) | Apeiba sp. Helicarpus americanus Malvaviscus arboreus Malvaviscus concinnus Mortoniiodendron anisophyllum Pavonia penduliflora Sida sp. Triumfetta semitriloba Waltheria glomerata Wercklea cocleana | White Moho Turksap Turksap (Swampmallow) (Fanpetal) Sacramento Burrbark False Matico |
| O: Myrtales | | |
| F: Combretaceae (White Mangrove) | Terminalia oblonga | Peruvian Almond, <i>Sura</i> |
| F: Lythraceae (Mangrove Apple) | Cuphea cf. appendiculata Cuphea sp. | (Waxweed) (Waxweed) |

**Class (C:), Order (O:) and
Family (F:)**

Scientific Name¹

English Name²

| Class (C:), Order (O:) and Family (F:) | Scientific Name ¹ | English Name ² |
|---|------------------------------|------------------------------|
| C: Magnoliopsida (Dicots) (cont'd) | | |
| O: Myrtales (cont'd) | | |
| F: Melastomataceae (Melastoma) | Arthrostemma ciliatum | Pinkfringe |
| | Blakea gracilis | |
| | Centradenia grandifolia | |
| | Conostegia oerstediana | (Snailwood) |
| | Conostegia rhodopetala | (Snailwood) |
| | Conostegia xalapensis | (Snailwood) |
| | Heterotis sp. | (African Arowanas) |
| | Leandra subseriata | |
| | Miconia costaricensis | (Johnnyberry) |
| | Miconia donaeana | (Johnnyberry) |
| | Miconia doriana | (Johnnyberry) |
| | Miconia neomicrantha | (Johnnyberry) |
| | Monochaetum floribundum | |
| | Tibouchina heteromalla | Silverleafed Princess Flower |
| Tibouchina longifolia | Longleaf Glorytree | |
| F: Myrtaceae (Myrtle) | Eugenia stipitata | (Stopper) |
| | Myrcianthes fragrans | Twinberry |
| | Psidium guajava | Guava |
| | Syzygium jambos | Rose Apple |
| F: Onagraceae (Evening Primrose) | Fuchsia paniculata | Shrubby Fuchsia |
| | Ludwigia peruviana | Primrose Willow |
| O: Oxalidales | | |
| F: Brunelliaceae | Brunellia costaricensis | |
| F: Elaeocarpaceae | Sloanea ampla | <i>Monkey Comb</i> |
| O: Piperales | | |
| F: Piperaceae (Pepper) | Peperomia sp. | (Radiator Plant) |
| | Piper pseudolanceifolium | (Pepper) |
| O: Proteales | | |
| F: Proteaceae (Protea) | Panopsis suaveolens | |
| F: Sabiaceae | Meliosma idiopoda | <i>Diamond Seed</i> |
| | Meliosma vernicosa | |
| O: Ranunculales | | |
| F: Papaveraceae (Poppy) | Bocconia frutescens | Tree Poppy |
| O: Rosales | | |
| F: Cannabaceae (Dagga) | Celtis trinervia | Almex |
| | Trema micrantha | Jamaican Nettle Tree |
| | | |
| F: Moraceae (Fig) | Brosimum costaricanum | |
| | Ficus hartwegii | (Fig) |
| | Ficus pertusa | (Fig) |
| | Ficus tuerckheimii | Florida Strangler Fig |
| | Pseudolmedia sp. | |

**Class (C:), Order (O:) and
Family (F:)**

Scientific Name¹

English Name²

| Class (C:), Order (O:) and Family (F:) | Scientific Name ¹ | English Name ² |
|---|---------------------------------|--|
| C: Magnoliopsida (Dicots) (cont'd) | | |
| O: Rosales (cont'd) | | |
| F: Moraceae (Fig) (cont'd) | <i>Sorocea affinis</i> | |
| F: Rosaceae (Rose) | <i>Eriobotrya japonica</i> | (Loquat) |
| | <i>Prunus annularis</i> | (Cherries & Allies) |
| | <i>Rubus cf. urticifolius</i> | Mora Silvestre |
| | <i>Rubus eriocarpus</i> | <i>Horse Blackberry</i> |
| | <i>Rubus niveus</i> | Kala Hinsalu |
| | <i>Rubus rosifolius</i> | West Indian Raspberry |
| F: Ulmaceae (Elm) | <i>Ulmus Mexicana</i> | Mexican Elm |
| F: Urticaceae (Nettle) | <i>Cecropia angustifolia</i> | (Pumpwood) |
| | <i>Cecropia obtusifolia</i> | Trumpet Tree |
| | <i>Cecropia peltata</i> | (Pumpwood) |
| | <i>Cecropia polyphlebia</i> | (Pumpwood) |
| | <i>Pilea cf. dauciodora</i> | (Clearweed) |
| | <i>Urera sp.</i> | |
| O: Santalales | | |
| F: Loranthaceae (Showy Mistletoe) | <i>Struthanthus sp.</i> | |
| O: Sapindales | | |
| F: Anacardiaceae (Rhus) | <i>Mauria heterophylla</i> | |
| | <i>Spondias purpurea</i> | Purple Mombin, <i>Red Mombin</i> , <i>Spanish Plum</i> |
| F: Hippocastanaceae (Horse-chestnuts) | Hippocastanaceae sp. | |
| F: Meliaceae (Mahogany) | <i>Cedrela tonduzii</i> | Spanish Cedar, <i>Sweet Cedar</i> |
| | <i>Guarea glabra</i> | Alligatorwood |
| | <i>Guarea kunthiana</i> | |
| | <i>Swietenia macrophylla</i> | Honduras Mahogany |
| | <i>Toona calantas</i> | (Redcedar) |
| | <i>Trichilia cf. havanensis</i> | |
| F: Rutaceae (Citrus) | <i>Citrus aurantium</i> | Seville Orange |
| | <i>Zanthoxylum sp.</i> | (Pricklyashes) |
| F: Sapindaceae (Soapberry) | <i>Allophylus psilospermus</i> | |
| | <i>Billia rosea</i> | |
| | <i>Nephelium lappaceum</i> | |
| O: Solanales | | |
| F: Convolvulaceae (Morning-glory) | <i>Ipomoea cf. alba</i> | Moon Flower |
| F: Solanaceae (Potato) | <i>Browallia americana</i> | Bush Violet |
| | <i>Brunfelsia grandiflora</i> | Largeflower Brunfelsia |
| | <i>Brugmansia spp.</i> | (Angel Trumpets) |
| | <i>Cestrum racemosum</i> | (Flowering Jessamine) |
| | <i>Cestrum schlechtendalii</i> | Poisonous-berry |
| | <i>Jaltomata sp.</i> | (False Holly) |

Class (C:), Order (O:) and Family (F:)

Scientific Name¹

English Name²

| Class (C:), Order (O:) and Family (F:) | Scientific Name ¹ | English Name ² |
|--|---|--------------------------------|
| C: Magnoliopsida (Dicots) (cont'd) | | |
| O: Solanales (cont'd) | | |
| F: Solanaceae (Potato) (cont'd) | Solanum aphyodendron | (Nightshade) |
| | Solanum quitoense | Lulo |
| | Solanum rovirosanum | (Nightshade) |
| | Solanum storkii | (Nightshade) |
| | Solanum torvum | Turkey Berry, <i>Devilsfig</i> |
| | Witheringia cf. solanacea | |
| C: Pinopsida (Conifers) | | |
| O: Pinales (Conifers) | | |
| F: Cupressaceae (Cypress) | Cupressus lusitanica | Mexican Cypress, Cedar of Goa |
| C: Psilotopsida (Whisk Ferns) | See Fern & Allies Species List ³ | |

NOTES:

Short-forms: cf., indicates the individual was difficult to identify and the full species identification is uncertain; sp., indicates one or an unknown number of species of the taxon was identified; spp. indicates multiple species of the taxon were identified.

¹, Classifications and scientific names based on The Catalogue of Life (www.catalogueoflife.org).

², English names in plain text are from the Encyclopedia of Life (www.eol.org); names in *italics* are local usage names or gleaned from other sources; names in brackets are the common name of the species' genus as taken from the Encyclopedia of Life.

³, See the Ferns & Allies Species List at www.cloudbridge.org/publications/species-lists/.

⁴, See the Orchid Species List at www.cloudbridge.org/publications/species-lists/.

Contributors:

Laura Antonaru, Marian Barz, Matthijs Bol, Kendall DeLyser, Dario Elliott, Clarice Esch, Tom Gode, Neža Gorše, Robert Fraser, Marloes Fröling, Tijmen Hoogendijk, Olli Isotupa, Stephen Lehmann, Ana Mazzolari, Jacqueline Medrano, Wouter Meijboom, Kate Moss, Duncan Nicol, Ivo Polach, Mario García Quesada, Anna Rabone, Michiel Spek, Christian Staunton, Joseph Taylor, Debbie Valliere, Britt van Engelen, Lara Van Meter, Dennis Vroomen, Sama Winder, and Cara Wolinsky.