

Supplemental Information

Summary Table of Compounds in *Uncaria tomentosa*

Class *Group* *Subclass* *Subgroup*

3. Alkaloids

3.1. Indole Alkaloids

3.1.1. Tetracyclic Indoloquinolizidine

Hirsutine, **1a**
Corynantheine, **1b**
Hirsutine, **2a**
Dihydrocorynantheine, **2b**
Hirsutine *N*-oxide, **3**
Dihydrocorynantheine *N*-oxide, **4**

3.1.2. Pentacyclic Indoloquinolizidine

Akuammigine, **5a**
Izoajmalicine, **5b**
Tetrahydroalstonine, **5c**
19-epi-3-isoajmalicine, **5d**
3 α -Dihydrocadambine, **6**

3.1.3. β -Carboline

Harman, **10**
Lyaloside, **11**
3,4-Dehydro-5-carboxystrictosidine, **12**
5 α -Carboxystrictosidine, **13**
Dolichantoside, **14**

3.2. Oxindole Alkaloids

3.2.1. Tetracyclic Oxindoles

Rynchophylline, **15a**
Isorynchophylline, **15b**
Corynoxine, **16a**
Isocorynoxine, **16b**
Rynchophylline *N*-oxide, **17**
Isorynchophylline *N*-oxide, **18**
18,19-Dehydrocorynoxinoic acid, **19**

3.2.2. Pentacyclic Oxindoles

Uncarine B (Formosamine), **21a**
Uncarine C (Pteropodine), **21b**
Uncarine D (Speciophylline), **21c**
Uncarine E (Isopteropodine), **21d**
Uncarine F (Speciofiline), **21e**
Mitraphylline, **21f**
Isomitraphylline, **21g**
Uncarine F *N*-oxide, **22**

4. Polyphenols

4.1. Flavonoids

4.1.1. Flavones

Artochamin C, **23**
5'-Hydroxycudraflavone A, **24**
Dihydrocudraflavone B, **25**
Apigenin, **26**
Luteolin, **27**

4.1.2. Flavonols

Kaempferol, **28**
Quercetin, **29**
Dihydrokaempferol, **30**
Rutin, **31**
Quercitrin, **32**

4.1.3. Flavan-3-ols

4.1.3.1. Procyanidin Type

(-)-Epicatechin, **35**
(+)-Catechin, **36**
Afezelechin, **37**

4.1.3.2. Procyanidin Dimers

Procyanidin B1, **38**
Procyanidin B2, **39**
Procyanidin B3, **40**
Procyanidin B4, **41**
Procyanidin B5, **42**

Procyanidin B6, **43**

Procyanidin B7, **44**

4.2. Miscellaneous Polyphenols

Cinchonain 1a, **45a**

Cinchonain 1b, **45b**

Ellagic Acid, **46**

4.3. Phenolic Acids

4.3.1. Hydroxybenzoic Acids

Benzoic acid, **47**

Salicylic acid, **48**

4-Hydroxybenzoic acid, **49**

Protocatechuic acid, **50**

Gallic acid, **51**

Syringic acid, **52**

Vanillic acid, **53**

4.3.2. Hydroxycinnamic Acids

p-Coumaric acid, **54**

Caffeic acid, **55**

Ferulic acid, **56**

Isoferulic acid, **57**

Chlorogenic acid, **58**

5. Terpenes

5.1. Phytosterols

β -Sitosterol, **59**

Stigmasterol, **60**

Daucosterol, **61**

Campesterol, **62**

5.2. Pentacyclic Triterpene Acids

Oleanolic Acid, **63**

Cincholic Acid, **64**

Ursolic Acid, **65**

Quinovic Acid, **66**

5.2.1. Ursolic Acid Derivatives

(3 β)-3-Hydroxy-7-oxo-urs-12-ene-27,28-dioic acid, **67**

(3 β ,16 α)-16-Hydroxy-3-methoxy-ursa-12,19(29)-diene-27,28-dioic acid, **68**

(3 β ,4 α)-3,19-Dihydroxy-6,23-dioxo-urs-12-en-28-oic acid, **69**

(3 β ,4 α)-3,19,23-trihydroxy-6-oxo-urs-12-en-28-oic acid, **70**

(6 β)-6,19-dihydroxy-3-oxo-urs-12-en-28-oic acid, **71**

(3 β ,6 β)-3,6,19-Trihydroxyurs-12-en-28-oic acid (uncaric acid), **72**

(3 β ,4 α ,6 β)-3,6,19-trihydroxy-23-oxo-norurs-12-en-28-oic acid, **73**

(3 β ,4 α ,6 β)-3,6,19-trihydroxy-23-oxo-urs-12-en-28-oic acid, **74**

(3 β ,6 β)-3,6,19-Trihydroxy-24-norursa-4(23),12-dien-28-oic acid (floridic acid), **75**

(3 β ,4 α ,6 β)-dimethyl ester-3,6,19-trihydroxy-urs-12-ene-23,28-dioic acid, **76**

(3 β ,4 α ,6 β)-3,6,19,23-tetrahydroxy-urs-12-en-28-oic acid, **77**

5.2.2. Glycosylated Pentacyclic Triterpene Acids

5.2.2.1. Cincholic Acid Derivatives

Cincholic acid 27-O- β -D-fucopyranosyl-28-O- β -D-glucopyranoside, **78**

Cincholic acid 27-O- β -D-glucopyranosyl-(1 \rightarrow 3)- β -D-fucopyranoside, **79**

Cincholic acid 27-O- β -D-glucopyranosyl-(1 \rightarrow 3)- β -D-fucopyranosyl-28-O- β -D-glucopyranoside, **80**

Pyrocincholic acid 27-O- β -D-glucopyranosyl-(1 \rightarrow 3)- β -D-fucopyranosyl-28-O- β -D-glucopyranoside, **81** (Tomentoside B)

5.2.2.2. Quinovic Acid Derivatives

Quinovic acid 3-O- β -D-quinovopyranosyl-27-O- β -D-glucopyranoside, **82**

Quinovic acid 3-O- β -D-quinovopyranosyl-28-O- β -D-glucopyranoside, **83**

Quinovic acid 3-O- α -L-rhamnoside, **84**

Quinovic acid 3-O- β -D-fucopyranosyl-27-O- β -D-glucopyranoside, **85**

Quinovic acid 3-O- β -D-fucopyranosyl-28-O- β -D-glucopyranoside, **86**

Quinovic acid 27-O- β -D-glucopyranoside, **87**

Quinovic acid 3-O- β -D-glucopyranosyl-(1 \rightarrow 3)- β -D-quinovopyranoside, **88**

Quinovic acid 3-O- β -D-glucopyranosyl-(1 \rightarrow 3)- β -D-fucopyranoside, **89**

Quinovic acid 3-O- β -D-glucopyranosyl-(1 \rightarrow 3)- β -D-fucopyranosyl-27-O- β -D-glucopyranoside, **90**

Quinovic acid 3-O- β -D-glucopyranosyl-(1 \rightarrow 3)- β -D-fucopyranosyl-28-O- β -D-glucopyranoside, **91**

Quinovic acid 3-O- α -L-rhamnopyranosyl-(3 \rightarrow 1)- β -D-glucopyranoside, **92**

Quinovic acid 3-O- α -L-rhamnopyranosyl-(3 \rightarrow 1)- β -D-glucopyranosyl-27-O- β -D-glucopyranoside, **93**

Quinovic acid 3-O- β -D-galactopyranosyl-(1 \rightarrow 3)- β -D-quinovopyranoside, **94**

Pyroquinovic acid 3-O- β -D-glucopyranosyl-(1 \rightarrow 3)- β -D-fucopyranosyl-28-O- β -D-glucopyranoside (Tomentoside A), **95**

5.3. Miscellaneous Terpenoid

7-deoxyloganin acid, **96**