

Title	Integrating untargeted volatile metabolomics and molecular evidence supporting chemotaxonomy in <i>Kaempferia</i> species for more effective identification
Authors	Pornpimon Wongsuwan ^{a, b} , Rossarin Tansawat ^{c, d} , Piyawadi Khaoiam ^{c, d} , Pantamith Rattanakrajang ^a , Boonmee Phokham ^e , Arashaporn Uthairangsee ^{c, d} , Chayan Picheansoonthon ^f , Suchada Sukrong ^{a, g, *}
Affiliation	^a Center of Excellence in DNA Barcoding of Thai Medicinal Plants, Department of Pharmacognosy and Pharmaceutical Botany, Faculty of Pharmaceutical Sciences, Chulalongkorn University, Bangkok, 10330, Thailand
	^b Division of Applied Thai Traditional Medicine, Faculty of Medicine, Mahasarakham University, Maha Sarakham, 44000, Thailand
	^c Department of Food and Pharmaceutical Chemistry, Faculty of Pharmaceutical Sciences, Chulalongkorn University, Bangkok, 10330, Thailand
	^d Center of Excellence in Metabolomics for Life Sciences, Chulalongkorn University, Bangkok, 10330, Thailand
	^e Abhaibhubejhr College of Thai Traditional Medicine Prachinburi, Faculty of Public Health and Allied Health Sciences, Praborommarajchanok Institute, Prachin Buri, 25230, Thailand
	^f Academy of Science, The Royal Society (Thailand), Bangkok, 10300, Thailand
	^g Chulalongkorn School of Integrated Innovation, Chulalongkorn University, Bangkok, 10330, Thailand
*Corresponding author	Professor Suchada Sukrong, Ph.D.
	Center of Excellence in DNA Barcoding of Thai Medicinal Plants,
	Department of Pharmacognosy and Pharmaceutical Botany,
	Faculty of Pharmaceutical Sciences, Chulalongkorn University,
	Bangkok 10330, Thailand
	Phone: +6681-819-6742, Fax: +6622-558-227
	Email: suchada.su@chula.ac.th

Table S5. Morphological characteristics and key volatile metabolite profiling of *Kaempferia* species traced on the phylogenetic tree.

Character	Character states
Rhizome (Rz)	moniliform / not moniliform
Leaves orientation (Lv)	horizontal / not horizontal
Inflorescence (In)	with leaves / before leaves
1	13-epimanool
2	ethyl p-methoxycinnamate
3	isopentyl benzoate
4	nonaethylene glycol
5	2-tetradecanone
6	2-tridecanone
7	β -irone
8	abieta-7,13-diene
9	abietatriene
10	diploptene
11	Patchoulene
12	γ -selinene
13	γ -eudesmol
14	α -cedrene epoxide
15	β -pimaric acid
16	abietic acid
17	isopimara-7,15-dien-3-one
18	pimaric acid
19	abietinol
20	dextropimarinal
21	isopimara-7,15-dien-3 β -ol
22	retinoic acid
23	methyl isopimarate
24	neoabietal
25	labda-8(17),12-diene-15,16-dial