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Corrigendum: Herbal medicines in Brazil: pharmacokinetic profile and potential herb-drug interactions

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A corrigendum on

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We noticed that some symbols were lacking in Table 5 and some of the Plant Family names were not currently accepted.

We hereby present the **Tables 1–9** with all symbols and botanical names re-checked.
Apologies for any inconvenience this may have caused.

Conflict of Interest Statement: The authors declare that the research was conducted in the absence of any commercial or financial relationships that could be construed as a potential conflict of interest.

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This article was submitted to Ethnopharmacology, a section of the journal Frontiers in Pharmacology.

Table 1 | Medicinal plant species listed in RENISUS with reported effects of on CYP1A2.

Plant species/Family	Effects on CYP1A2	References
Allium sativum (Amaryllidaceae)	+	Le Bon et al., 2003
Curcuma longa (Zingiberaceae)	+	Thapliyal et al., 2002
Eucalyptus globulus (Myrtaceae)	–	Unger and Frank, 2004
Glycine max (Leguminosae)	–	Shon and Nam, 2004
Harpagophytum procumbens (Pedaliaceae)	NE, –	Unger and Frank, 2004; Modarai et al., 2011
Mentha piperita (Lamiaceae)	–	Unger and Frank, 2004
Phyllanthus amarus (Phyllanthaceae)	–	Hari Kumar and Kuttan, 2006
Punica granatum (Lythraceae)	–	Faria et al., 2007a
Trifolium pratense (Leguminosae)	–	Unger and Frank, 2004

+, Enzyme induction; –, Enzyme inhibition; NE, No Effect.

Table 2 | Medicinal plant species listed in RENISUS with reported effects of on CYP2C9.

Plant species/Family	Effects on CYP2C9	References
Allium sativum (Amaryllidaceae)	–,+	Foster et al., 2001; Ho et al., 2010
Eucalyptus globulus (Myrtaceae)	–	Unger and Frank, 2004
Harpagophytum procumbens (Pedaliaceae)	NE, –	Modarai et al., 2011
Mentha piperita (Lamiaceae)	–	Unger and Frank, 2004
Punica granatum (Lythraceae)	–	Hanley et al., 2012
Trifolium pratense (Leguminosae)	–	Unger and Frank, 2004
Zingiber officinale (Zingiberaceae)	–	Kimura et al., 2010

+, Enzyme induction; –, Enzyme inhibition; NE, No Effect.

Table 3 | Medicinal plant species listed in RENISUS with reported effects of on CYP2C19.

Plant species/Family	Effects on CYP2C19	References
Allium sativum (Amaryllidaceae)	–	Foster et al., 2001
Eucalyptus globulus (Myrtaceae)	–	Unger and Frank, 2004
Harpagophytum procumbens (Pedaliaceae)	NE	Modarai et al., 2011
Mentha piperita (Lamiaceae)	–	Unger and Frank, 2004
Trifolium pratense (Leguminosae)	–	Unger and Frank, 2004

+, Enzyme induction; –, Enzyme inhibition; NE, No Effect.

Table 4 | Medicinal plant species listed in RENISUS with reported effects of on CYP2D6.

Plant species/Family	Effects on CYP2D6	References
Allium sativum (Amaryllidaceae)	NE	Markowitz et al., 2003
Eucalyptus globulus (Myrtaceae)	–	Unger and Frank, 2004
Harpagophytum procumbens (Pedaliaceae)	NE, –	Modarai et al., 2011
Mentha piperita (Lamiaceae)	–	Unger and Frank, 2004
Phyllanthus amarus (Phyllanthaceae)	–	Hari Kumar and Kuttan, 2006
Punica granatum (Lythraceae)	–	Usia et al., 2006
Trifolium pratense (Leguminosae)	–	Unger and Frank, 2004

+, Enzyme induction; –, Enzyme inhibition; NE, No Effect.

Table 5 | Medicinal plant species listed in RENISUS with reported effects of on CYP2E1.

Plant species/Family	Effects on CYP2E1	References
Allium sativum (Amaryllidaceae)	–	Le Bon et al., 2003
Curcuma longa (Zingiberaceae)	NE	Salama et al., 2013
Glycine max (Leguminosae)	NE	Shon and Nam, 2004
Momordica charantia (Cucurbitaceae)	–	Raza et al., 1996
Phyllanthus amarus (Phyllanthaceae)	–	Hari Kumar and Kuttan, 2006
Phyllanthus urinaria (Phyllanthaceae)	–	Shen et al., 2008
Punica granatum (Lythraceae)	–	Faria et al., 2007a

+, Enzyme induction; –, Enzyme inhibition; NE, No Effect.

Table 6 | Medicinal plant species listed in RENISUS with reported effects of on CYP3A.

Plant species/Family	Effects on CYP3A	References
Allium sativum (Amaryllidaceae)	NE, –(*/**/***)	Foster et al., 2001; Hajda et al., 2010
Chamomilla recutita (Compositae)	–(*)	Budzinski et al., 2000
Curcuma longa (Zingiberaceae)	NE(*)	Graber–Maier et al., 2010
Eucalyptus globulus (Myrtaceae)	–(*)	Unger and Frank, 2004
Foeniculum vulgare (Apiaceae)	–(*)	Subehan et al., 2006, 2007
Harpagophytum procumbens (Pedaliaceae)	NE, –(*)	Unger and Frank, 2004; Modarai et al., 2011
Mentha piperita (Lamiaceae)	–(*)	Unger and Frank, 2004
Momordica charantia (Cucurbitaceae)	–(*)	Raza et al., 1996
Phyllanthus amarus (Phyllanthaceae)	–(*/**/***)	Hari Kumar and Kuttan, 2006
Punica granatum (Lythraceae)	–(*/**/***)	Faria et al., 2007a
Trifolium pratense (Leguminosae)	–(*)	Budzinski et al., 2000
Uncaria tomentosa (Rubiaceae)	–(*)	Budzinski et al., 2000
Zingiber officinale (Zingiberaceae)	(*)	Kimura et al., 2010

**CYP3A4, **CYP3A5, ***CYP3A7 / +, Enzyme induction; –, Enzyme inhibition; NE, No Effect.*

Table 7 | Medicinal plant species listed in RENISUS with reported effects of on glutathione levels.

Plant species/Family	Effects on glutathione levels	References
Achillea millefoilum (Compositae)	+	Potrich et al., 2010
Allium sativum (Amaryllidaceae)	+	Ip and Lisk, 1997
Aloe vera/Aloe barbadensis (Xanthorrhoeaceae)	–,+	Kaithwas et al., 2011; Hegazy et al., 2012
Anacardium occidentale (Anacardiaceae)	+	Singh et al., 2004
Baccharis trimera (Compositae)	–	Nogueira et al., 2011
Bauhinia forficata (Leguminosae)	–	Damasceno et al., 2004
Bauhinia variegata (Leguminosae)	+	Rajkapoor et al., 2006
Calendula officinalis (Compositae)	+	Preethi and Kuttan, 2009
Chamomilla recutita (Compositae)	+	Al-Hashem, 2010
Croton cajucara (Euphorbiaceae)	+	Rabelo et al., 2010
Curcuma longa (Zingiberaceae)	+	Rong et al., 2012
Cynara scolymus (Compositae)	+, NE	Miccadei et al., 2008
Foeniculum vulgare (Apiaceae)	+	Zhang et al., 2012
Glycine max (Leguminosae)	+	Barbosa et al., 2011
Mentha pulegium (Lamiaceae)	+	Alpsoy et al., 2011
Mentha piperita (Lamiaceae)	+	Sharma et al., 2007
Mikania glomerata (Asteraceae)	NE	Barbosa et al., 2012
Momordica charantia (Cucurbitaceae)	+	Raza et al., 1996; Raza et al., 2000
Phyllanthus amarus (Phyllanthaceae)	+	Kumar and Kuttan, 2004, 2005; Karuna et al., 2009; Maity et al., 2013
Phyllanthus niruri (Phyllanthaceae)	+	Bhattacharjee and Sil, 2006; Manjrekar et al., 2008
Psidium guajava (Myrtaceae)	+	Tandon et al., 2012
Punica granatum (Lythraceae)	+,–	Dassprakash et al., 2012; Faria et al., 2007b
Ruta graveolens (Rutaceae)	+	Ratheesh et al., 2011
Zingiber officinale (Zingiberaceae)	+, NE	Ajith et al., 2007

+, Enzyme induction; –, Enzyme inhibition; NE, No Effect.

Table 8 | Medicinal plant species listed in RENISUS with reported effects of on UGT levels.

Plant species/Family	Effects on UGT levels	References
Allium sativum (Amaryllidaceae)	+	Ip and Lisk, 1997
Curcuma longa (Zingiberaceae)	–	Naganuma et al., 2006

+, Enzyme induction;–, Enzyme inhibition; NE, No Effect.

Table 9 | Medicinal plant species listed in RENISUS with reported effects of on P-glycoprotein activity.

Plant species/Family	Effects on P-glycoprotein activity	References
Achillea millefolium (Compositae)	–	Haidara et al., 2006
Allium sativum (Amaryllidaceae)	+	Hajda et al., 2010
Curcuma longa (Zingiberaceae)	NE	Graber-Maier et al., 2010

+, Efflux increase; –, Efflux decrease.