



Research Article

CORRECTING DATA FOR VALIDATING THE NAMES, *NEOTINEA TRIDENTATA* VAR. *LIBANOTICA* K. ADDAM & M. BOU-HAMDAN, *OPHRYS APIFERA* VAR. *LIBANOTICA* K. ADDAM & M. BOU-HAMDAN AND FIXING MINOR ERRORS FOR *OPHRYS OMEGA IFERA* SUBSP. *GHARIFENSIS* K. ADDAM & M. BOU-HAMDAN IN PAPERS PUBLISHED BY K. ADDAM AND COAUTHORS.

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Abstract- A Corrigendum of a Letter [1] published in *Acta Botanica Gallica: Botany Letters* mentioned some errors after their consultation with Valéry Malécot (member of the Society of Systematics) on published papers [2-4] by Khodr Addam and coauthors. A complete revision was made on the papers. All errors have been removed and fixed. Further explanations were added also to make the information and data more clear.

Keywords- Correction, amendment, published papers, validating two names, fixing minor errors and additions for clearance.

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Introduction

A Corrigendum of a Letter [1] published in *Acta Botanica Gallica: Botany Letters* mentioned some errors after their consultation with Valéry Malécot (member of Board of Directors of *Acta Botanica*) on published papers [2-4] by Khodr Addam and coauthors.

The authors were advised to contact Dr. Valéry Malécot and they did. He highlighted two serious errors (dropped by mistake) that could be easily corrected for validating the two names, *Neotinea tridentata* var. *libanotica* K. Addam & M. Bou-Hamdan [3], *Ophrys apifera* var. *libanotica* K. Addam & M. Bou-Hamdan [4] and made some recommendations to fix minor errors; though these are not mandatory to follow, it would be better to have them fixed in the paper of *Ophrys omega ifera* subsp. *gharifensis* K. Addam & M. Bou-Hamdan [2]. The authors were also advised to publish a single article to correct all the errors that exist in the papers, which would be enough to validate the names. In effect, the authors added some details that would explain the case and make it more clear.

In details the name *Ophrys omega ifera* subsp. *gharifensis* K. Addam & M. Bou-Hamdan. is validly published. [2]. *Errol Vella* [1] do not treat it as distinct in a taxonomic choice which bears no impact on the validity of the name.

Two minor points do not follow the Botanical Code's recommendations (which are not mandatory to follow):

1st It would be preferable to use standard Index Herbariorum acronyms or full names of the institutions where the material was deposited. GU should be written as Global University Lebanon and LU Lebanon University [2-4].

2nd The herbarium samples Addam & Bou-Hamdan 2001, Addam & Bou-Hamdan 2002 and Addam & Bou-Hamdan 2003 were not isotypes (meaning duplicates of the holotype, thus with the same collection date and location) but

are paratypes (samples cited in the original description that are not the holotype)[5].

Regarding *Neotinea tridentata* var. *libanotica* and *Ophrys apifera* var. *libanotica* [3,4], in each of them one serious error was dropped by written mistake (two samples were cited as holotype) which makes the names invalid.

For *Neotinea tridentata* var. *libanotica*. K. Addam & M. Bou-Hamdan. [3]

1st Three distinct collections are followed by the indication "Holotype GU"; two of them are supposed to be written paratypes instead (p.37) [5,6]. Actually, the only Holotype in this article is the one collected by Khodr Addam from Ehdin.

2nd Index Herbariorum acronyms or full names of the institutions where the material was deposited. GU should be written as Global University Lebanon.

3rd The indication "var. *novo*" was added together with the name.

For *Ophrys apifera* var. *libanotica*. K. Addam & M. Bou-Hamdan. [4]

1st In the figure's caption it was written by mistake "from Addam & Bou-Hamdan 1003 (Holotype GU)", instead of AUB (p. 41). [6], Because on p. 42 it was declared "a voucher specimen of the holotype (Addam 1) was deposited in the Post Herbarium at AUB (American University of Beirut) Collected by Dr. Khodr Addam at 12/IV/2014 collection number (Addam 1)", and this is actually the only Holotype.

2nd Index Herbariorum acronyms or full names of the institutions where the material was deposited. GU should be written as Global University Lebanon.

3rd The indication "var. *novo*" was added together with the name.

Correction and Additions

1st Paper

Addam, K., Bou-Hamdan M., Ibrahim S.K. and Ibrahim L. 2013. "Ophrys omega ifera subsp. gharifensis (Orchidaceae), A New Subspecies from Lebanon". *Journal of Botanical Research*, 4 (1): 25-27 [Fig-1].



Fig-1 *Ophrys omega ifera* subsp. *Gharifensis* in flower (Photo: Addam K.)

Page 25 Section "Taxonomy" 9th line

Text before correction "Addam & Bou-Hamdan 1001 (holotype GU, isotype LU)".

Correction in details

After Addam & Bou-Hamdan "1001" was removed and placed after the word holotype.

After holotype "(1001), Herbarium of Global University (Lebanon)" was added and GU removed.

After isotype "(2000), Herbarium of Lebanese University" was added and LU removed.

Whole text after correction Addam & Bou-Hamdan, Holotype (1001), Herbarium of Global University (Lebanon), Isotype (2000), Herbarium of Lebanese University.

Page 27 comment on Fig. 1, fourth line.

Text before correction "(from Addam & Bou-Hamdan 1001 (Holotype GU!); Drawn By: Khaled Manasfi."

Correction in details

After Addam & Bou-Hamdan "1001" was removed.

After Holotype "(1001), Herbarium of Global University (Lebanon)." was added and GU removed.

Whole text after correction

(from Addam & Bou-Hamdan (Holotype (1001), Herbarium of Global University (Lebanon); Drawn by: Khaled Manasfi.)

Page 27, Section "Specimens Examined"

Text before correction "Lebanon: 35 km away from Beirut, Gharifeh, N 33 38.721' EO 35 32.111', 650 m alt., 2 Feb. 2011, Addam & Bou-Hamdan 1001 (Holotype GU!); 17 km away from Beirut, Bshamoun, N 33 47'135" EO 35 30' 717", 261 m alt., 22 Jan. 2012, Addam & Bou-Hamdan 2001 (isotype LU); Gharifeh, 22 Jan. 2012, Addam & Bou-Hamdan; 5 km away from Gharifeh and 30 km away from Beirut, Baakline, N 33 39'336" EO 35 32'042", 762.3 m alt., 22 Jan. 2012, Addam & Bou-Hamdan 2002 (isotype LU); Gharifeh, Bshamoun, Baakline, Aaynab, N 33 37'533" EO 35 33'563", 835.7 m alt., Botmeh, N 33 39'80" EO 15 38'87", 1044 m alt., and N 33 39'768" EO 35 38' 378" 1052 m alt., beginning Dec. until end Feb. 2013, Addam & Bou-Hamdan 2003 (isotype LU)"[2].

Correction in details

2nd line after 2 Feb. 2011, 'Addam & Bou-Hamdan 1001' was removed.

After Holotype, "collected by Addam & Bou-Hamdan, collection number (1001) deposited in the Herbarium of Global University (Lebanon)," and GU was

removed.

3rd line before '17 km away from Beirut, Bshamoun', '35 km away from Beirut, Gharifeh, N 33 38.721' EO 35 32.111', 650 m alt., 2 Feb. 2011, Isotype was collected by Addam & Bou-Hamdan, collection number (2000), Herbarium of Lebanese University" was added and LU was removed.

4th line after '22 Jan. 2012' "Addam & Bou-Hamdan 2001 ("isotype", was replaced by "Paratype Collected by Addam & Bou-Hamdan, collection number (2001), Herbarium of Lebanese University)," and LU removed.

5th line after '22 Jan. 2012', "Paratype collected by" was added.

After Addam & Bou-Hamdan, collection number (1001a), Herbarium of Global University Lebanon" was added.

7th line after '22 Jan. 2012', "Paratype Collected by" was added.

After 'Addam & Bou-Hamdan' "isotype" was replaced by "collection number (2002), Herbarium of Lebanese University".

8th line after '(isotype LU)'; Gharifeh, Bshamoun, Baakline was removed.

9th line after '835.7 m alt.', "25th Jan 2013, Paratype collected by Addam & Bou-Hamdan collection number (1001b), Herbarium of Global University (Lebanon) GU)"

11th line after '1052 m alt. "28th Jan 2013, two Paratypes collected by Addam & Bou-Hamdan, collection number (2003), Herbarium of Lebanese University)" was added.

11th, 12th line "Addam & Bou-Hamdan 2003 (isotype LU)" was removed.

Whole text after correction

Lebanon: 35 km away from Beirut, Gharifeh, N 33 38.721' EO 35 32.111', 650 m alt., 2nd Feb. 2011, Holotype collected by Addam & Bou-Hamdan, collection number (1001), deposited in the Herbarium of Global University (Lebanon); 35 km away from Beirut, Gharifeh, N 33 38.721' EO 35 32.111', 650 m alt., 2nd Feb. 2011, Isotype was collected by Addam & Bou-Hamdan, collection number (2000), Herbarium of Lebanese University, 17 km away from Beirut, Bshamoun, N 33 47'135" EO 35 30' 717", 261 m alt., 22nd Jan. 2012, Paratype collected by Addam & Bou-Hamdan, collection number (2001), Herbarium of Lebanese University; Gharifeh, 22nd Jan. 2012, Paratype collected by Addam & Bou-Hamdan, collection number (1001a), Herbarium of Global University (Lebanon); 5 km away from Gharifeh and 30 km away from Beirut, Baakline, N 33 39'336" EO 35 32'042", 762.3 m alt., 22nd Jan. 2012, Paratype collected by Addam & Bou-Hamdan, collection number (2002), Herbarium of Lebanese University; Aaynab, N 33 37'533" EO 35 33'563", 835.7 m alt. 25th Jan 2013, Paratype collected by Addam & Bou-Hamdan, collection number (1001b), Herbarium of Global University (Lebanon), Botmeh, N 33 39'80" EO 15 38'87", 1044 m alt., and N 33 39'768" EO 35 38' 378" 1052 m alt. 28th Jan 2013, two Paratypes collected by Addam & Bou-Hamdan, collection number (2003), Herbarium of Lebanese University, beginning Dec. until end Feb. 2013.

2nd Paper

Addam K., Kebbe I.D., Bou-Hamdan M. and Hout K. 2014. "Neotinea tridentate var. libanotica (Orchidaceae), A New Variety from Lebanon". *Journal of Botanical Research*, 5 (1): 35-38 [Fig-2].



Fig-2 *Neotinea tridentate* var. *libanotica* var. *novo*. in flower (Photo: Addam K.)

Page 35, section “Abstract”, first line

Text before correction “*Neotinea tridentata* var. *libanotica*”

Correction in details

After ‘*Neotinea*’, *tridentata* was replaced by *tridentata*.

After ‘*Neotinea tridentata* var. *libanotica*’, *var. novo* was added.

Whole text after correction

“*Neotinea tridentata* var. *libanotica*’, *var. novo*.”

Page 36 [Fig-1], ‘comment’ 3rd and 4th line

Text before correction

(from Addam & Bou-Hamdan 1002 (Holotype GU); Drawn By: Khaled Manasfi)

Correction in details

After ‘from’, Addam & Bou-Hamdan 1002 was removed and K. Addam was added.

After ‘Holotype’, (1002), Herbarium of Global University (Lebanon) was added and GU removed.

Whole text after correction

(from K. Addam (Holotype (1002), Herbarium of Global University (Lebanon).

Page 37 section ‘Specimens Examined’

Text before correction

“Lebanon: 17 km away from Beirut, Aley, (N 33° 48’ 502” E 35° 36’ 753”), 900 m alt. 14-4-2012 *Neotinea tridentata* var. *libanotica* Addam K. & Bou-Hamdan M. 1002 (Holotype GU). 57 km from Beirut, Maasserech Chouf 1002 (Holotype GU), (N 33° 37’ 419” E 35° 34’ 547”), 950 m alt 4-4-2013. 25 km from Zgharta, 110 km from Beirut and 30 km from Tripoli, Ehden (N 34° 18’ 178” E 35° 58’ 407”) 1485 m alt 1002 (Holotype GU), beginning April until the beginning of May. 2014 [Map-1].” [3]

Correction in details

2nd line after 14-4-2012 “*Neotinea tridentata* var. *libanotica* Addam K. & Bou-Hamdan M.” was replaced by “Paratype collected by Khodr Addam”

3rd line after ‘1002’ Holotype was replaced by “collection number (1002a), Herbarium of Global University (Lebanon),” and GU removed.

4th line after ‘Maasserech Chouf’, 1002 (Holotype GU) was removed,

5th line after ‘4-4-2013’. “Paratype collected by Mounir Bou-Hamdan, collection number (1002b), Global University (Lebanon).” was added.

7th line after 1485 m alt. 13-5-2012 was added and 1002 was removed.

7th line after ‘Holotype’ “collected by Khodr Addam, collection number (1002), Herbarium of Global University (Lebanon) was added.

7th line after “April” 2012 was added.

Whole text after correction

Lebanon: 17 km away from Beirut, Aley (N 33° 48’ 502” E 35° 36’ 753”), 900 m alt. 14-4-2012, Paratype collected by Khodr Addam, collection number (1002a), Herbarium of Global University (Lebanon). 57 km from Beirut, Maasserech Chouf (N 33° 37’ 419” E 35° 34’ 547”), 950 m alt., 4-4-2013, Paratype collected by Mounir Bou-Hamdan, collection number (1002b), Herbarium of Global University (Lebanon). 25 km from Zgharta, 110 km from Beirut and 30 km from Tripoli, Ehden (N 34° 18’ 178” E 35° 58’ 407”) 1485 m alt. 13-5-2012, Holotype collected by Khodr Addam, collection number (1002), Herbarium of Global University (Lebanon), beginning April 2012 until the beginning of May. 2014 [Map-1].

Page 38 section Notes 1st line.

Text before correction “The new variety *Neotinea tridentata* var. *libanotica* K. Addam & M. Bou-Hamdan.”

Correction in details

After *Neotinea*. ‘*tridentata*’ was replaced by *tridentata*.

After ‘var. *libanotica*’, “*var. novo*” was added.

Whole text after correction

The new variety *Neotinea tridentata* var. *libanotica* var. *novo*. K. Addam & M. Bou-Hamdan.

3rd Paper

Addam, K., M. Bou-Hamdan, S.K. Ibrahim, and L. Ibrahim. 2015. “A New Variety from Lebanon, *Ophrys apifera* var. *libanotica* K. Addam and M. Bou-Hamdan (Orchidaceae)”. *Journal of Botanical Research*, 6 (1): 39-46 [Fig-3].



Fig-3 *Ophrys apifera* var. *libanotica* var. *novo*. in flower (Photo: Addam K.)

Page 39, section Abstract, 2nd line.

Text before correction

“*Ophrys apifera* Hudson var. *libanotica*. K. Addam & M. Bou-Hamdan.”

Correction in details

After ‘var. *libanotica*’, *var. novo* was added.

Whole text after correction

Ophrys apifera Hudson var. *libanotica* var. *novo*. K. Addam & M. Bou-Hamdan.

Page 40, section Morphologic description 1st line

Text before correction

“Morphologic description of *Ophrys apifera* var. *libanotica*. K. Addam. & M. Bou-Hamdan.” [4]

Correction in details

After ‘var. *libanotica*’ “*var. novo*” was added.

Whole text after correction

Morphologic description of *Ophrys apifera* var. *libanotica* var. *novo*. K. Addam. & M. Bou-Hamdan

Page 41, Fig. 3 comment, 3rd line

Text before correction “(from Addam & Bou-Hamdan 1003 (Holotype GU)” [4].

Correction in details

“from Addam & Bou-Hamdan 1003 (Holotype GU) was replaced by “from K. Addam, Holotype, collection number (Addam 1) Post Herbarium (BEI) at American University of Beirut.”

Whole text after correction

from K. Addam, Holotype, collection number (Addam 1) Post Herbarium (BEI) at American University of Beirut.

Page 42 section Specimens Examined

Last line after [Fig-10]. "Another voucher specimen of an isotype was deposited in the Herbarium of Global University (Lebanon). Collected by Dr. Khodr Addam at 12/IV/2014 collection number (1003)" was added.

Finally, the authors apologize for the above lapses.

Acknowledgement

The authors truly indebted to thank all those who volunteered to help proofread their papers. Special thanks go for Ass. Prof. Valéry Malécot who was very generous in his help, and for Errol Véla, who helped pinpoint these lapses.

References

- [1] Vela E. and Viglione J. (2015) *Botany Letters*, 162(4), pp. 271–285. <http://dx.doi.org/10.1080/12538078.2015.1105148>
- [2] Addam K., M. Bou-Hamdan, S.K. Ibrahim and L. Ibrahim. (2013) *Journal of Botanical Research*, 4 (1), 25-27.
- [3] Addam K., I.D. Kebbe, M. Bou-Hamdan and K. Hout. (2014) *Journal of Botanical Research*, 5(1), 35-38.
- [4] Addam K., M. Bou-Hamdan, S.K. Ibrahim and L. Ibrahim. (2015) *Journal of Botanical Research*, 6 (1). 39-46.
- [5] <https://www.iapt-taxon.org/nomen/main.php>. art. 9.5.
- [6] <https://www.iapt-taxon.org/nomen/main.php>. art. 40.7.