

Correction

Correction: Dolch, L.-J. and Maréchal, E. Inventory of Fatty Acid Desaturases in the Pennate Diatom *Phaeodactylum tricornutum*. Mar. Drugs 2015, 13, 1317–1339

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The authors wish to make the following corrections to this paper [1]:

We have found eight inadvertent errors in our paper published in *Mar. Drugs* [1].

On page 1327, Line 6 and column 9 of Table 2, “18:3^{Δ6,12,15}” should be “18:3^{Δ6,9,12}”. Line 8 and column 8 of Table 2, “20:4^{Δ5,8,11,14,17}” should be “20:4^{Δ8,11,14,17}”. Line 9 and column 7, “Δ5/*cis*” should be “Δ4/*cis*”. Therefore replace this incorrect table:

Table 2. Fatty acid desaturases of *Phaeodactylum tricornutum*—Characterized or predicted localization and substrate specificity. (*) functionally characterized; (?) based on predictions.

Name	Gene ID	Subcellular Localization	Main Substrate				Main Product	
			Acyl Linked to:	Carbon Number	Presence of Double Bonds	Position and Configuration of the Introduced Double Bond	Overall Structure	Overall Structure
PAD/SAD	Phatraft_9316	Chloroplast stroma	ACP	16 and 18	0	$\Delta 9/cis$	16:0-ACP	16:1 $\Delta 9$ -ACP
ADS	Phatr_28797	Endomembrane system	CoA	18?	0	$\Delta 9/cis?$	18:0-CoA?	18:1 $\Delta 9$ -CoA?
FAD2 (*)	Phatr_25769	ER	Phospholipid/ Betaine lipid?	18	1	$\Delta 12$ (or $\omega 6$)/ <i>cis</i>	18:1 $\Delta 9$ -PL (-BL?)	18:2 $\Delta 9,12$ -PL (-BL?)
ER $\Delta 6$ FAD (*)	Phatr_2948	ER	Phospholipid/ Betaine lipid?	18	2	$\Delta 6/cis$	18:2 $\Delta 9,12$ -PL (-BL?)	18:3 $\Delta 6,12,15$ -PL (-BL?)
ER $\omega 3$ FAD (?)	?	ER	Phospholipid/ Betaine lipid?	18	3	$\Delta 15$ (or $\omega 3$)/ <i>cis</i>	18:3 $\Delta 6,9,12$ -PL (-BL?)	18:4 $\Delta 6,9,12,15$ -PL (-BL?)
ER $\Delta 5$ FAD.1 (*)	Phatr_46830	ER	Phospholipid/ Betaine lipid?	20	4	$\Delta 5/cis$	20:4 $\Delta 5,8,11,14,17$ -PL (-BL?)	20:5 $\Delta 5,8,11,14,17$ -PL (-BL?)
ER $\Delta 5$ FAD.2 (?)	Phatr_22459		Phospholipid/ Betaine lipid?					
ER $\Delta 4$ FAD	Phatr_22510?	ER	Phospholipid/ Betaine lipid?	22	5	$\Delta 5/cis$	22:5 $\Delta 7,10,13,16,19$ -PL (-BL?)	22:6 $\Delta 4,7,10,13,16,19$ -PL (-BL?)
FAD6 (*)	Phatr_48423	Chloroplast membranes	<i>sn1/sn2</i> - MGDG/DGDG + SQDG	16	1	$\Delta 12/cis$	16:1 $\Delta 9$ - <i>sn2</i> - MGDG/DGDG/SQDG	16:2 $\Delta 9,12$ - <i>sn1/sn2</i> - MGDG/DGDG/SQDG
Plastid $\Delta 6$ FAD (?)	Phatr_50443	Chloroplast membranes	<i>sn2</i> -MGDG	16	2	$\Delta 6/cis$	16:2 $\Delta 9,12$ - <i>sn2</i> -MGDG	16:3 $\Delta 6,9,12$ - <i>sn2</i> -MGDG
Plastid $\omega 3$ FAD/ FAD7 (?)	Phatr_41570	Chloroplast membranes	<i>sn2</i> -MGDG?	16	3	$\omega 3/cis$	16:3 $\Delta 6,9,12$ - <i>sn2</i> -MGDG	16:4 $\Delta 6,9,12,15$ - <i>sn2</i> -MGDG
FAD4	Phatr_41301	Chloroplast membranes	<i>sn2</i> -PG	16	0	$\Delta 3/trans$	16:0- <i>sn2</i> -PG	16:1 $\Delta 3trans$ - <i>sn2</i> -PG

With the following corrected table:

Table 2. Fatty acid desaturases of *Phaeodactylum tricornutum*—Characterized or predicted localization and substrate specificity. (*) functionally characterized; (?) based on predictions.

Name	Gene ID	Subcellular Localization	Main Substrate				Main Product	
			Acyl Linked to:	Carbon Number	Presence of Double Bonds	Position and Configuration of the Introduced Double Bond	Overall Structure	Overall Structure
PAD/SAD	Phatraft_9316	Chloroplast stroma	ACP	16 and 18	0	$\Delta 9/cis$	16:0-ACP	16:1 $\Delta 9$ -ACP
ADS	Phatr_28797	Endomembrane system	CoA	18?	0	$\Delta 9/cis?$	18:0-CoA?	18:1 $\Delta 9$ -CoA?
FAD2 (*)	Phatr_25769	ER	Phospholipid/ Betaine lipid?	18	1	$\Delta 12$ (or $\omega 6$)/ <i>cis</i>	18:1 $\Delta 9$ -PL (-BL?)	18:2 $\Delta 9,12$ -PL (-BL?)
ER $\Delta 6$ FAD (*)	Phatr_2948	ER	Phospholipid/ Betaine lipid?	18	2	$\Delta 6/cis$	18:2 $\Delta 9,12$ -PL (-BL?)	18:3 $\Delta 6,9,12$ -PL (-BL?)
ER $\omega 3$ FAD (?)	?	ER	Phospholipid/ Betaine lipid?	18	3	$\Delta 15$ (or $\omega 3$)/ <i>cis</i>	18:3 $\Delta 6,9,12$ -PL (-BL?)	18:4 $\Delta 6,9,12,15$ -PL (-BL?)
ER $\Delta 5$ FAD.1 (*)	Phatr_46830	ER	Phospholipid/ Betaine lipid?	20	4	$\Delta 5/cis$	20:4 $\Delta 8,11,14,17$ -PL (-BL?)	20:5 $\Delta 5,8,11,14,17$ -PL (-BL?)
ER $\Delta 5$ FAD.2 (?)	Phatr_22459		Phospholipid/ Betaine lipid?					
ER $\Delta 4$ FAD	Phatr_22510?	ER	Phospholipid/ Betaine lipid?	22	5	$\Delta 4/cis$	22:5 $\Delta 7,10,13,16,19$ -PL (-BL?)	22:6 $\Delta 4,7,10,13,16,19$ -PL (-BL?)
FAD6 (*)	Phatr_48423	Chloroplast membranes	<i>sn1/sn2</i> - MGDG/DGDG + SQDG	16	1	$\Delta 12/cis$	16:1 $\Delta 9$ - <i>sn2</i> - MGDG/DGDG/SQDG	16:2 $\Delta 9,12$ - <i>sn1/sn2</i> - MGDG/DGDG/SQDG
Plastid $\Delta 6$ FAD (?)	Phatr_50443	Chloroplast membranes	<i>sn2</i> -MGDG	16	2	$\Delta 6/cis$	16:2 $\Delta 9,12$ - <i>sn2</i> -MGDG	16:3 $\Delta 6,9,12$ - <i>sn2</i> -MGDG
Plastid $\omega 3$ FAD/ FAD7 (?)	Phatr_41570	Chloroplast membranes	<i>sn2</i> -MGDG?	16	3	$\omega 3/cis$	16:3 $\Delta 6,9,12$ - <i>sn2</i> -MGDG	16:4 $\Delta 6,9,12,15$ - <i>sn2</i> -MGDG
FAD4	Phatr_41301	Chloroplast membranes	<i>sn2</i> -PG	16	0	$\Delta 3/trans$	16:0- <i>sn2</i> -PG	16:1 $\Delta 3trans$ - <i>sn2</i> -PG

On page 1330, line 9, “18:3 and 14” should be “18:3 and 18:4”. Line 29, in the title of Section 2.4.10, “The ($18:2^{\Delta 9,12} \rightarrow 18:3^{\Delta 6,9,12}$ and $18:3^{\Delta 9,12,15} \rightarrow 18:3^{\Delta 6,9,12,15}$)-Desaturation” should be “The ($18:2^{\Delta 9,12} \rightarrow 18:3^{\Delta 6,9,12}$ and $18:3^{\Delta 9,12,15} \rightarrow 18:4^{\Delta 6,9,12,15}$)-Desaturation”. On page 1331, line 6, in the title of Section 2.4.11, “The Question of the ($18:2^{\Delta 9,12} \rightarrow 18:3^{\Delta 6,9,15}$ and $18:3^{\Delta 6,9,12} \rightarrow 18:4^{\Delta 6,9,12,15}$)-Desaturation” should be “The Question of the ($18:2^{\Delta 9,12} \rightarrow 18:3^{\Delta 9,12,15}$ and $18:3^{\Delta 6,9,12} \rightarrow 18:4^{\Delta 6,9,12,15}$)-Desaturation”. On page 1332, line 1, “E $\Delta 6$ FAD” should be “ER $\Delta 6$ FAD”. On page 1335, lines 25–26, in the Conclusions Section, “ERD6FAD, and ERD5FAD” should be “ER $\Delta 6$ FAD, and ER $\Delta 5$ FAD”.

These changes have no material impact on the conclusions of our paper. We apologize to our readers for any inconvenience caused.

Reference

1. Dolch, L.J.; Maréchal, E. Inventory of fatty acid desaturases in the pennate diatom *Phaeodactylum tricornutum*. *Mar. Drugs* **2015**, *13*, 1317–1339.

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