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**Validation of *Staurastrum foersteri* Coesel, *nom. inval.* (Desmidiaceae, Chlorophyta)**

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The binary designation “*Staurastrum foersteri*” proposed by Coesel (1987) as a new taxon with a new status for the designation “*Staurastrum teliferum* var. *groenbladii*” introduced by Kurt Förster (1964: 335, 429, pl. 28: fig. 7) is invalid as a replaced synonym because Förster failed to provide a Latin diagnosis or description or to indicate a holotype (ICN Art. 40.1, Turland *et al.* 2018). As the designation was not subsequently validated by Coesel (1987: 134, pl. III: fig. 4), I herewith provide the diagnosis and type designation necessary for validation.

***Staurastrum foersteri* Coesel, *sp. nov.***

Description: Cells longer than broad, rather deeply constricted. Sinus widely open from an acute-angled apex. Semicells in frontal view broadly elliptic, furnished with two transversal series of spines, apart from a series of apical spines. Semicells in apical view 3-angular with straight to slightly convex sides and very broadly rounded angles. Cell length without spines 31-36 µm, with spines 39-44 µm. Cell breadth without spines 21-22 µm, with spines 25-29 µm. Breadth of isthmus 11-13 µm. Length of spines 5-7 µm.

Holotype: Förster 1964, pl. 28: fig. 7 (as “*Staurastrum teliferum* var. *groenbladii*”; iconotype; ICN Art. 40.5, Turland *et al.* 2018).

Type locality: “Conceição (Goyaz)”, Brazil.

Etymology: Named to honour Kurt Förster (17 January 1918 in the Sudetenland - 21 March 1983 in Austria), eminent desmidiologist (Hausman & Machemer 2018).

Many thanks to Dr Michael D. Guiry for bringing this to my attention and for adding some relevant notes.

Coesel, P.F.M. (1987). Taxonomic notes on Colombian desmids. *Cryptogamie, Algologie* 8: 127-142.

Förster, K. (1964). Desmidiaceen aus Brasilien. 2. Teil: Bahia, Goyaz, Piauhy und Nord-Brasilien. *Hydrobiologia* 23: 321-505.

Hausmann, K. & Machemer, H. (2018). The microcosm under the microscope: a passion of amateurs and experts. *Denisia* 41: 1-46, 60 figs.

Turland, N.J., Wiersema, J.H., Barrie, F.R., Greuter, W., Hawksworth, D.L., Herendeen, P.S., Knapp, S., Kusber, W.-H., Li, D.-Z., Marhold, K., May, T.W., McNeill, J., Monro, A.M., Prado, J., Price, M.J. & Smith, G.F. editors (2018). *International Code of Nomenclature for algae, fungi, and plants (Shenzhen Code)* adopted by the Nineteenth International Botanical Congress Shenzhen, China, July 2017. *Regnum Vegetabile*, Vol. 159. pp. [i]-xxxviii, 1-253. Glashütten: Koeltz Botanical Books.