**Contact Information**

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**Manuscript Information (if applicable)**

Title:

Comparative study on the sensitivity of turions and active fronds of giant duckweed (Spirodela polyrhiza (L.) Schleiden) to heavy metal treatments

Journal:

Chemosphere, 2015, 132: 40-46.

Authors:

Viktor Oláh, Anna Hepp, Ilona Mészáros

**Species Identification Information**

Name Of Species:

Spirodela polyrhiza (L.) Schleiden

Morphological Classification (if applicable):

Frond: orbicular-ovate, 5-10 mm

Frond color: green above, reddish spots beneath

Colonies: 3-5 fronds remain attached in clusters

Roots: 3-5 or more

Senescing fronds produce turions

Morphological identification was done by Balázs A. Lukács Ph.D in 2015. MTA Centre for Ecological Research, Danube Research Institute, Department of Tisza River Research. Debrecen, Bem tér 18/C.H-4026, Hungary lukacs.balazs@okologia.mta.hu <http://www.okologia.mta.hu/en>

Molecular Classification:

atpF-atpH barcode:

psbK-psbI barcode:

AFLP-Lemna Phenotype:

AFLP-Wolffia Phenotype:

**Species Collection And Cultivation Information**

Date:

2004

Location:

(Provide information on site of collection. Include country, state/province, and city/town. Please be as specific as possible.)

Hungary, Zala county, Lake Kis-Balaton, coordinates: 46.6326° N, 17.7446° E

Cultivation Information:

(Provide information on cultivation of clone since collection and how it is maintained. Provide mention if any genetic modifications or any other treatments have been performed on clone that may affect its natural physiology.)

The collected plants were washed with sodium hypochlorite and the stock culture initiated from surviving individuals has been maintained aseptically since then. The culturing medium was ½ strength Hutner’s medium from 2004 to 2010. Since 2010 the stock culture is maintained on modified Steinberg medium (pH 5.5, medium description: Environment Canada EPS 1/RM/37, 2nd ed. 2007). The stock culture is maintained in 100 ml Erlenmeyer flasks in the Tissue Culturing Room of Dpt Botany, University of Debrecen. The culturing temperature is constant 24±2 C°, the illumination is warm white (GE Polylux F30W/830), PPFD 60±10 mol m-2 s-1. There are parallel cultures under 16/8 h light/dark photoperiod and continuous illumination, respectively.

**Would you like to submit clone to one of the Duckweed collections?**

[ ]  Yes

x No

**If so which one:**

[ ]  RDSC

[ ]  University Of Jena