

CV Helena Štorchová, PhD, DSc.

(married, 3 children)

Originally trained in the genetics and molecular biology of phages and bacteria. Later focused on plant molecular biology, plant development and the analysis of plant genomes. Current focus the control of flowering and mitochondrial genome structure in higher plants.

Education

2021 - DSc. (Research Professor) - Czech Academy of Sciences

1985 – CSc. (Ph.D. equivalent) -Institute of Molecular Genetics, Czechoslovak Academy of Sciences, Prague, biochemistry and molecular biology

1982 – RNDr. (M.Sc. equivalent) – Faculty of Science, Charles University, Prague

Professional employment record

2007–now: **Head of the Laboratory of Plant Reproduction**, Institute of Experimental Botany CAS, Prague, Czech Republic

1998–now: Researcher, Institute of Experimental Botany CAS, Prague, Czech Republic

1995–1998 Head of the Laboratory of DNA analysis, Institute of Botany CAS, Průhonice

1991–1992 Researcher, Institute of Experimental Botany AS CR

(1992–1995: 3rd maternity leave; 1987- 1989: 2nd mater. leave 1984–1985: 1st mater. Leave; Altogether the gap of 8.5 years - off the scientific work, later working part-time)

1982–1990 Ph.D student, Junior Researcher, Institute of Molecular Genetics CAS, Prague

Stays and fellowships

2012, 2013: **Visiting Professor** (one semester per year, University of Alaska Fairbanks, USA)

2002–2003: **Fulbright Scholar Fellowship** (one year), Institute of Arctic Biology, UAF, Fairbanks, USA (Prof. Matthew S. Olson)

1999: Two-month stay at Vanderbilt University, Nashville, USA (Prof. Carl H. Johnson)

1983: FEBS Student Fellowship (two months) in Biocentrum of Basel University, Basel, Switzerland

Funding of basic research

GAČR : 8 grants (PI or Co-PI)

MŠMT (Ministry of Education, Youth, and Sport): 3 grants based on the collaboration with USA (KONTAKT, KONTAKTII, Interexcellence)

Papers with IF (WoS): 58 (33 as the first and/or corresponding author)

WoS (Jan2023): Number of citations: 1707 **H-index:** 24

Students

Supervision of 6 PhD students, who successfully defended PhD thesis

Teaching Experience

Classes in the Czech Republic

2014 – 2016: Plant Molecular Evolution, one semester, University of South Bohemia, České Budějovice

2007- 2011: Plant molecular Biology, one semester, Dept. of Biochemistry, Charles University, Prague

2001- now: Molecular markers in plants, Molecular evolution in plants, one semester, Dept. of Botany, Charles University, Prague, Czech Republic, each second year

1994 – 1999: Plant Physiology, undergrad course. University of J.E. Purkyne, Ústí nad Labem, *Classes in USA*

2012, 2013 – Principles of Evolution (481/681, 3 credits), University of Alaska Fairbanks
Plant Molecular Biology (3 credits), Master student seminar, UAF

Services for the scientific community

The member of the Academic Assembly of CAS, since fall 2022

The Committee for PhD studies, Faculty of Sciences, University of South Bohemia, České Budějovice (since 2014, 2020)

Member of the Panel 506- Zoology /Botany - of **GAČR** (2010 -2015, 2017-2021)

Member of the Panel “Molecular Biology”- of the Grant Agency of AS CR (2008-2014)

2010 -2019: **Associate Editor** of the international journal ***Biologia Plantarum*** (IF=1.2)

2019-now: **Associate Editor** of the international journal ***BMC Plant Biology*** (IF=5.2)

Reviewer for about 50 journals with IF, Ad hoc reviewer for NSF, DFG

Selected papers from the last five years dealing with main research topics - flowering in *Chenopodium* and mitochondrial genomes in the genus *Silene*

Štorchová H.*, Hubáčková H., Abeyawardana O.A.J., Walterová J., Vondráková Z., Eliášová K., Mandák B. (2019): *Chenopodium ficifolium* flowers under long days without upregulation of *FLOWERING LOCUS T (FT)* homologs. *Planta* 250: 2111-2125.

Gutierrez-Larruscain, D., Krüger M., Abeyawardana O.A.J., Belz C., Dobrev P.I., Vaňková R., K. Eliášová, Vondráková Z., Juříček M., **Štorchová H.***. (2022) The high concentrations of abscisic, jasmonic, and salicylic acids produced under long days do not accelerate flowering in *Chenopodium ficifolium* 459, *Plant Science* 320: 111279.

Štorchová H.*, Stone J.D., Sloan D.B., Abeyawardana O.A.J., Müller K., Walterová J., Pazoutova M. (2018): Homologous recombination changes the context of Cytochrome b transcription in the mitochondrial genome of *Silene vulgaris* KRA. *BMC Genomics* 19: 874.

Stone J.D., Koloušková P., Sloan D.B., **Štorchová H.*** (2017): Non-coding RNA may be associated with cytoplasmic male sterility in *Silene vulgaris*. *Journal of Experimental Botany* 68: 1599-1612.