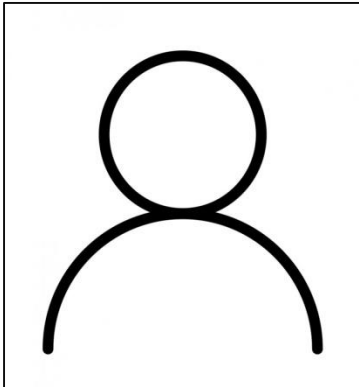


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Consultation hours: ...

Research interest:

- plant biotechnology, somatic hybridization, plant cell and tissue culture *in vitro*
- plant cytogenetics
- microscopic techniques

Research experience:

Visiting Scholar (Julius Kuehn Institute, Germany 1997-98, 2005; Univ. of Wisconsin, USA, 2002, 2004)

DSc, (Habilitation) (2014, Research on stimulation of protoplast development *in vitro*)

PhD (2001, Characteristic of gynogenic population and methods for chromosome diploidization of haploid onion plants (*Allium cepa* L.))

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List of selected publications:

- Roman M., Marzec K.M., **Grzebelus E.**, Simon P.W., Baranska M., Baranski R., 2015. Composition and (in)homogeneity of carotenoid crystals in carrot cells revealed by high resolution Raman imaging. *Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy* 136: 1395-1400
- Nowicka A., **Grzebelus E.**, Grzebelus D., 2016. Precise karyotyping of carrot mitotic chromosomes using multicolour-FISH with repetitive DNA. *Biologia Plantarum* 60(1): 25-36
- Iorizzo M., Ellison S., Senalik D., Zeng P., Satapoomin P., Huang J., Bowman M., Iovene M., Sanseverino W., Cavagnaro P., Yildiz M., Macko-Podgórní A., Moranska E., **Grzebelus E.**, Grzebelus D., Ashrafi H., Zheng Z., Cheng S., Spooner D., Van Deynze A., Simon P.W., 2016. A high-quality carrot genome assembly provides new insights into carotenoid accumulation and Asterid genome evolution. *Nature Genetics* 48 (6): 657-666
- Nowicka A., Sliwinska E., Grzebelus D., Baranski R., Simon P.W., Nothnagel T., **Grzebelus E.**, 2016. Nuclear DNA content variation within the genus *Daucus* (Apiaceae) determined by flow cytometry. *Scientia Horticulturae* 209: 132-138
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- Ryguła A., Oleszkiewicz T., **Grzebelus E.**, Pacia M., Barańska M., Barański R., 2018. Raman, AFM and SNOM high resolution imaging of carotene crystals in a model carrot cell system. *Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy* 197: 47-55
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- Dudek MA, Machalska E, Oleszkiewicz T, **Grzebelus E**, Baranski R, Szcześniak P, Młynarski J, Zając G, Kaczor A, Barańska R, 2019. Chiral amplification in nature: cell-extracted chiral carotenoid microcrystals studied via RROA of model systems. *Angewandte Chemie International Edition* 58: 8383-8388
- Kwiatkowska M, Kadłuczka D, Wędzony M, Dedicova B, **Grzebelus E**, 2019. Refinement of a clearing protocol to study crassinucellate ovules of the sugar beet (*Beta vulgaris* L., Amaranthaceae). *Plant Methods* 15: 71
- Godel-Jędrychowska K, Maćkowska K, Kurczyńska E, **Grzebelus E**, 2019. Composition of the reconstituted cell wall in protoplast-derived cells of *Daucus* is affected by phyto-sulfokine (PSK). *International Journal of Molecular Sciences* 20 (21), 5490