

# CURRICULUM VITAE

## 1. DATE PERSONALE

**Nume și prenume:** SZÉKELY Gyöngyi

**Locul de muncă curent:** Universitatea Babeș-Bolyai, Facultatea de Biologie și Geologie, str. Clinicilor, nr. 5-7, 400006 Cluj-Napoca, România

**Email:** [gyongyi.szekely@ubbcluj.ro](mailto:gyongyi.szekely@ubbcluj.ro)

## 2. EDUCAȚIE ȘI FORMARE

- 1989-1993: Liceul Teoretic Brassai Sámuel, Cluj-Napoca. Profil: real chimie – biologie.
- 1993: Diplomă bacalaureat, Profil: real chimie – biologie.
- 1993-1997: Facultatea de Biologie și Geologie, Universitatea Babeș-Bolyai Cluj-Napoca; Profil: biologie.
- 1997: Diplomă de licență (BSc); Specializarea: biologie.
- 1997-1998: Studii aprofundate în Inginerie Genetică Vegetală. Facultatea de Biologie și Geologie, Universitatea Babeș-Bolyai Cluj-Napoca .
- 1998: Diplomă de Studii aprofundate (MSc). Specializarea: Inginerie Genetică Vegetală
- 2000: Diplomă definitivată în biologie.
- 2000-2001: Curs de perfecționare - International Training Course in Topics of Modern Biology – Grupul de Genetică Moleculară pe Arabidopsis , Institutul de Biologie Vegetală, Centrul de Cercetări Biologice Szeged, Academia Maghiară de Științe.
- 2001-2004: Student doctorand (Ph.D.) – Universitatea de Științe Szeged, Ungaria.
- 2003 (1 lună): Curs de perfecționare - Complex Beam Defense Training Course.
- 2006, 2007 (1-1 lună): Mobilitate internațională în cadrul unui grant de Cooperare în cercetare DFG, Grupul de cercetare AMPK Signalling, Max-Planck-Institut für Züchtungsforschung, Köln, Germania.
- 2008: Diplomă de Doctor (PhD); Universitatea de Științe Szeged, Ungaria; Domeniul: biologie. Titlul lucrării de doctorat: The regulatory roles of *P5CS* genes in *Arabidopsis thaliana*. Calificativ: *summa cum laude*.

### 3. LOCURI DE MUNCĂ

- 1998-2000: Profesor de biologie, Școala cu clasele I-VIII Viișoara (jud. Cluj).
- 2004-2008: Asistent cercetător, Grupul de Genetică Moleculară pe Arabidopsis, Institutul de Biologie Vegetală, Centrul de Cercetări Biologice din Szeged, Academia Maghiară de Științe, Ungaria
- 2008 - 2021: Șef de lucrări - Departamentul de Biologie și Ecologie al Liniei Maghiare, Facultatea de Biologie și Geologie, Universitatea Babeș-Bolyai Cluj-Napoca.
- 2021 – prezent: Conferențiar - Departamentul de Biologie și Ecologie al Liniei Maghiare, Facultatea de Biologie și Geologie, Universitatea Babeș-Bolyai Cluj-Napoca.

### 4. COMPETENȚĂ PROFESIONALĂ

#### ❖ Domenii de competențe profesională

- Genetică: genetică vegetală, tehnici de manipulare ADN și ARN, ex. PCR, RT-PCR și qReal-Time PCR, primer design, clonare, Northern blot, etc.
- Biologie vegetală: culturi de celule și țesuturi, tehnici de: biologie celulară, biochimie, biotehnologii.
- Microbiologie.
- Limbi străine: engleză – nivel mediu, italiană – nivel de bază.

#### ❖ Proiecte de cercetare

##### Contracte de cercetare din competiții naționale

###### ➤ *Director de contract*

1. Filogenia moleculară a picoalgelor din lacuri sărate din România. Proiect de cercetare CNCISIS/PNII-RU-TE\_306/70, perioada: 2010 - 2013. Sursa de finanțare: CNCISIS. Buget: 599.654 lei.

2. Biodiversitatea și mecanismele de adaptare ale plantelor sălbatice din România la stresul salin. Proiect de cercetare UEFISCDI/PNII-RU-TE-2014-4-0831, perioada: 2015 - 2017. Sursa de finanțare: UEFISCDI. Buget: 550.000 lei.

3. Responsabil partener UBB: Centru Național Multidisciplinar de Excelență pentru Combaterea Rezistenței la Tratamentele Antiinfecțioase, Proiect de cercetare Centre de excelență (CoEx), UEFISCDI/PN-IV-P6-6.1-CoEx-2024-0196, perioada: 2026 - 2030. Sursa de finanțare: UEFISCDI. Buget: 85.900.000 RON

➤ *Membră în contracte de cercetare*

1. Potențialul de remediere al metalofitelor facultative spontane și al microorganismelor asociate rizosferei acestora. Proiect de cercetare UEFISCDI/PN-II-RU-TE-2014-4-2727, perioada: 2015-2017. Sursa de finanțare: UEFISCDI. Buget: 550.000 lei. Director: dr. Podar Dorina

2. Decontaminarea solurilor poluate cu metale grele prin exploatarea interacțiunilor de la nivelul rizosferei plantelor. Proiect de cercetare UEFISCDI/PN-III-P2-2.1-PED-2019-5254, perioada: 2020-2022. Sursa de finanțare: UEFISCDI. Buget: 600.000 lei. Director: dr. Podar Dorina

Contracte de cercetare din competiții internaționale

➤ *Director de contract*

1. Studiul comparativ al genelor exprimate în stresul osmotic la *Arabidopsis thaliana* și comunitățile de fitoplancton din lacurile sărate din România / Comparative study of osmotic stress responsive genes in *Arabidopsis thaliana* and fitoplankton community from Romanian salt lakes. Proiect Cooperare Bilaterală Româno - Ungară, TÉT\_12\_RO-1-2013-0010/668, perioada: 2013-2014. Sursa de finanțare: ANCS-UEFISCDI. Buget: 16.200 lei.

➤ *Membră în contracte de cercetare*

1. Regulation of osmotolerance; Molecular breeding for improvement of plant drought, salt and cold stress tolerance. Proiect ROST QLRT-2001-00841, perioada: 2001-2004.

2. Regulation of osmotic stress responses in higher plants. Proiect OTKA K46552, perioada: 2004-2007. Buget: 9.976.000 HUF (25.000 EURO)

3. Aplicabilitatea metodelor genetice și agrotehnice cu scopul îmbunătățirii rezistenței la secetă / The use of genetic and agrotechnic methods to improve drought tolerance. Proiect NKFP, perioada: 2003-2007.

4. Program Operațional pentru Dezvoltarea Resurselor Umane / Human Resource Development Operational Program. Proiect EFOP\_3.6.1-16-2016-00008, perioada: 2017.03.01 - 2021.08.31.

## LISTA PUBLICAȚII DR. SZÉKELY GYÖNGYI

1. Rakosy-Tican L, Cinege G, **Székely G**, Evanics T, Bancoş S (1998) *In vitro cultures and protoplast isolation in some Solanum species*. In: Eds. Crăciun C., Ardelean A. Current Problems in Cellular and Molecular Biology. III Ed. RISOPRINT Cluj-Napoca pp 487-491.
2. Rakosy-Tican L, Cinege G, Aurori C, **Székely G**, Evanics T (1999) *In vitro culture of potato dihaploids and Solanum wild species as partners in somatic hybridization experiments*. Abstracts of 14<sup>th</sup> Triennial Conference of EAPR, Assessorato Agricoltura Regione Campania, Sorrento, Italy pp 596-597.
3. Ábrahám E, Rigó G, **Székely G**, Nagy R, Koncz C, Szabados L (2003) *Light-dependent induction of proline biosynthesis by abscisic acid and salt stress is inhibited by brassinosteroid in Arabidopsis*. Plant Molecular Biology, 51(3): 363-372. **IF: 3.795; AI: 1.7**
4. **Székely G** (2004) *The role of proline in Arabidopsis thaliana osmotic stress response*. Acta Biologica Szegediensis, 48 (1-4): 81.
5. **Székely G** (2007) *Osmotic stress in plants*. Acta Scientiarum Transylvanica, Seria Biologia, 15(1): 5-25.
6. **Székely G**, Ábrahám E, Cséplő A, Rigó G, Zsigmond L, Csiszár J, Ayaydin F, Strizhov N, Jásik J, Schmelzer E, Koncz C, Szabados L (2008) *Duplicated P5CS genes of Arabidopsis play distinct roles in stress regulation and developmental control of proline biosynthesis*. The Plant Journal, 53(1): 11-28. doi: <https://doi.org/10.1111/j.1365-3113X.2007.03318.x>. **IF: 6.493; AI: 2.7**
7. Zsigmond L, Rigó G, Szarka A, **Székely G**, Ötvös K, Darula Z, Medzihradzky K, Koncz C, Koncz Z, Szabados L (2008) *Arabidopsis PPR40 connects abiotic stress responses to mitochondrial electron transport*. Plant Physiology, 146(4): 1721-1737. doi: <https://doi.org/10.1104/pp.107.111260>. **IF: 6.11; AI: 2.3**
8. Szabados L, Ábrahám E, **Székely Gy**, Cséplő Á, Rigó G, Zsigmond L, Ayaydin F, Csiszár J, Jasik J, Koncz C (2008) *Proline in plants: a metabolic model for stress responses*. COST Meeting, pp. 128-129.
9. **Székely G** (2009) *Oxidative stress in plants*. Studia Universitatis Babeş-Bolyai, Biologia, 54(2): 37-45.
10. Bartha C, Fodorpataki L, Nagy E, Keresztes ZG, **Székely G**, Popescu O (2010) *Photosynthesis and Water Relations of Leaf Cells Exposed to Salt Stress*. Annals of the Romanian Society for Cell Biology, 15: 211-218.
11. Demeter SJ, Kelemen B, **Székely G**, Popescu O (2010) *Genetic Variation at 15 Polymorphic, Autosomal, Short Tandem Repeat Loci of Two Hungarian Populations in Transylvania, Romania*. Croatian Medical Journal, 51(6): 515-523. doi: <https://doi.org/10.3325/cmj.2010.51.515>. **IF: 1.455; AI: 0.4**

12. Demeter SJ, Kelemen B, **Székely G**, Popescu O (2010) *Effects of Population Data Update on Genetic Variance of 15 Polymorphic autosomal STR Loci Tested in Transylvania*. Annals of the Romanian Society for Cell Biology, 15: 18-21.
13. Keresztes ZG, Somogyi B, Boros E, **Székely G**, Bartha C, Nagy E, Dragos N, Vörös L (2010) *Picoplankton in Soda Lakes of the Carpatian Basin*. Contributii Botanice, 45: 41-46.
14. Bartha C, Fodorpataki L, **Székely G**, Popescu O (2010) *Physiological Diversity of Lettuce Cultivars Exposed to Salinity Stress*. Contributii Botanice, 45: 47-56.
15. Keresztes ZG, Nagy E, Somogyi B, Németh B, Bartha C, **Székely G**, Dragos N, Vörös L (2011) *Az Erdélyi-medence sós tavainak trófitási viszonyai (Trophic condition of saline lakes in the Transylvanian-basin)*. Hidrológiai Közlöny (Journal of the Hungarian Hydrological Society), 91(6): 46-48.
16. Keresztes ZG, Felföldi T, Somogyi B, **Székely G**, Dragos N, Márialigeti K, Bartha C, Vörös L (2012) *First record of picophytoplankton diversity in Central European hypersaline lakes*. Extremophiles, 16(5): 759-769. doi: <https://doi.org/10.1007/s00792-012-0472-x>. **IF: 2.203; AI: 0.8**
17. Keresztes ZG, Felföldi T, Somogyi B, **Székely G**, Dragos N, Márialigeti K, Bartha C, Nagy E, Vörös L (2013) *A fitoplankton molekuláris diverzitása az Erdélyi-medence sós tavaiban (Molecular diversity of phytoplankton in the salt lakes of the Transylvanian Basin)*. Hidrológiai Közlöny (Journal of the Hungarian Hydrological Society), 9(5-6): 112-113.
18. Coego A, Brizuela E, Castillejo P, Ruiz S, Koncz C, Pozo JC, Pineiro M, Jarillo JA, Paz-Ares J, Leon J and the **TRANSPLANTA Consortium** (2014) *The TRANSPLANTA collection of Arabidopsis lines: a resource for functional analysis of transcription factors based on their conditional overexpression*. The Plant Journal, 77 (6): 944 - 953. doi: <https://doi.org/10.1111/tpj.12443>. **IF: 5.972; AI: 2.2**
19. Rigó G, **Székely G**, Podar D, Ayaydin F, Zsigmond L, Kovács H, Király A, Szabados L, Koncz C, Cséplő Á (2014) *Studying the role of Arabidopsis genes involved in abiotic (osmotic, oxidative and gravitropic) stress response regulations*. Studia Universitatis Babeş-Bolyai, Biologia, 59(1): 63-70.
20. Somogyi B, Vörös L, Pállfy K, **Székely G**, Bartha C, Keresztes ZG (2014) *Picophytoplankton predominance in hypersaline lakes (Transylvanian Basin, Romania)*. Extremophiles, 18: 1075-1084. doi: <https://doi.org/10.1007/s00792-014-0685-2>. **IF: 2.306; AI: 0.7**
21. **Székely G** (2014) *The most common human autosomal trisomies*. Studia Universitatis Babeş-Bolyai, Biologia, 59(2): 123-134.
22. Kis E, Kelemen B, **Székely G** (2015) *Human Palilloma Virus infection and cervical cancer in Romania*. Studia Universitatis Babeş-Bolyai, Biologia, 60(1): 155-164.

23. Kis E, **Székely G** (2016) *Survey upon the Living Habits of Romanian but Hungarian Nationality Students Major in Biology and Physical Education*. *Studia Universitatis Babeş-Bolyai, Biologia*, 61(1): 177-189
24. Réti KO, Macalik K, Carpa R, Kis E, **Székely G** (2016) *Physico-chemical properties of soils populated with wild halophytes in some Romanian areas*. *Studia Universitatis Babeş-Bolyai, Biologia*, 61(2): 107-116
25. Carpa R, Réti K, Macalik K, Török E, Remizovschi A, **Székely G** (2017) *Influence of salt content on enzymatic activities and halophytes distribution in Cojocna zone, Romania*. *Studia Universitatis Babeş-Bolyai, Biologia*, 62(2): 21-32
26. Fábrián I, Török E, Podar D, **Székely G** (2018) *Plant ascorbate peroxidase: molecular phylogeny and role in oxidative stress*. *Studia Universitatis Babeş – Bolyai, Biologia*, 63(2): 153-168
27. Podar D, Macalik K, Réti KO, Martonos I, Török E, Carpa R, Weindorf DC, Csiszár J, **Székely G** (2019) *Morphological, physiological and biochemical aspects of salt tolerance of halophyte *Petrosimonia triandra* grown in natural habitat*. *Physiology and Molecular Biology of Plants*, 25(6): 1335-1347. doi: <https://doi.org/10.1007/s12298-019-00697-x>. **IF: 2.005; AI: 0.366**
28. Fodor A, Abate BA, Deák P, Fodor L, Gyenge E, Klein MG, Koncz Z, Muvevi J, Ötvös L, **Székely G**, Vozik D, Makrai L (2020) *Multidrug resistance (MDR) and collateral sensitivity in bacteria, with special attention to genetic and evolutionary aspects and to the perspectives of antimicrobial peptides—a review*. *Pathogens*, 9(7): 522. doi: <https://doi.org/10.3390/pathogens9070522>. **IF: 3.492; AI: 0.905**
29. **Székely G**, Barta C (2022) *Plant growth promoting rhizobacteria – biotechnological tools to improve cereal yield*, *Hungarian Journal of Industry and Chemistry*, 50(1): 11-14. doi: <https://doi.org/10.33927/hjic-2022-03>. **IF: 0.2; AI: 0.027**
30. **Székely G**, Szígyártó NZ, Tóth A, Barta C (2022) *The rhizosphere of *Petrosimonia triandra* may possess growth inducing and salinity tolerance potential*, *Hungarian Journal of Industry and Chemistry*, 50(2): 11-15. doi: <https://doi.org/10.33927/hjic-2022-12>. **IF: 0.2; AI: 0.027**
31. Barta CÉ, Jenkins BC, Lindstrom DS, Zahnd AK, **Székely G** (2023) *The first evidence of gibberellic acid's ability to modulate target species' sensitivity to honeysuckle (*Lonicera maackii*) allelochemicals*, *Plants*, 12(5). doi: <https://doi.org/10.3390/plants12051014>. **IF: 4.00; AI: 0.618**
32. **Székely G**, Barta CÉ (2024) *Halophytes and proline: a promising possibility for heavy metal remediation and agricultural restoration*, *Hungarian Journal of Industry and Chemistry*, 52(2): 63-67. doi: <https://doi.org/10.33927/hjic-2024-20>. **IF: 0.5; AI: 0.05**

33. **Székely G**, Barta C (2025) *Harnessing halophyte-derived allelochemicals and signaling molecules to enhance salinity stress tolerance in crops*. American Journal of Botany, 112: e70076. doi: <https://doi.org/10.1002/ajb2.70076>. IF: 2.7; AI: 0.937

## PREMIU

Premiul Qualitas Biologica 2008 pentru articolul: **Székely G**, Ábrahám E, Cséplő A, Rigó G, Zsigmond L, Csiszár J, Ayaydin F, Strizhov N, Jásik J, Schmelzer E, Koncz C and Szabados L: *Duplicated P5CS genes of Arabidopsis play distinct roles in stress regulation and developmental control of proline biosynthesis*. The Plant Journal 2008 Jan, 53 (1): 11-28

## POSTERE ȘI PREZENTĂRI

Rakosy – Tican L, Cinege I, **Székely Gy**, Evanics T, Bancos S: *Inițierea culturilor in vitro la diferite soiuri de cartof și specii spontane ale genului Solanum*. Prezentată la a șaisprezecea sesiune științifică anuală a Societății Naționale de Biologie Celulară, Timișoara, Romania, 1998, 26:190 (rez)

Rakosy-Tican L, Cinege G, Aurori C, **Székely G**, Evanics T: *In vitro culture of potato dihaploids and Solanum wild species as partners in somatic hybridization experiments*. Abstracts of 14<sup>th</sup> Triennial Conference of EAPR, Assessorato Agricoltura Regione Campania, Sorrento, Italy: 1999, 596-597

Rakosy-Tican L, Aurori CM, Aurori A, **Székely G**, Cinege G, Lenga M, Imbuzan M: *In vitro culture of dihaploid potato lines and wild Solanum species resistant to Phytophthora infestans. The use of two marker gene system for heterokaryon selection - a new proposed scheme*. EAPR - Breeding and Varietal Assessment, EUCARPIA - Potatoes, Section Meeting, Breeding Research for Resistance to Pathogens and for Quality Traits, Warsaw, Poland, 44, July 3-7, 2000 (poster 4.7)

**Székely G**, Ábrahám E, Rigó G, Koncz C, Szabados L: *Regulation of stress induced proline accumulation in Arabidopsis thaliana*. 7-th Annual Meeting of Hungarian

- Biochemistry Society for Molecular Biochemistry, Keszthely, Hungary, May 14-17, 2002
- Szabados L, Ábrahám E, **Székely G**, Kovács I, Rigó G, Koncz C, Fabro G, Alvarez ME: *Proline metabolism as a model for environmental stress response in higher plants*. 8-th Annual Meeting of Hungarian Biochemistry Society for Molecular Biochemistry, Tihany, Hungary, May 12-15, 2003
- Ábrahám E, Fabro G, **Székely G**, Kovács I, Pavet V, Rigó G, Alvarez ME, Koncz C, Szabados L: *Regulation of proline biosynthesis in Arabidopsis thaliana during biotic and abiotic stress*. 7-th International Congress of Plant Molecular Biology ISPMB 2003 Barcelona, Spain, June 23-28, 2003
- Szabados L, Ábrahám E, Zsigmond L, **Székely G**, Borsos É, Rigó G, Alvarado M, Koncz C: *Arabidopsis and environmental stress: genetic characterization of osmotic stress by insertional mutants*. 6-th Hungarian Genetic Congress, 13-th Cell- and Developmental Biology Days, Eger, Hungary, April 12-15, 2005
- Szabados L, **Székely G**, Ábrahám E, Rigó G, Csiszár J, Koncz C: *Proline biosynthesis in Arabidopsis: a model for stress responses*. 16-th international Conference on Arabidopsis Research, Wednesday, University of Wisconsin, Madison, June 15-19, 2005
- Székely G**, Ábrahám E, Rigó G, Zsigmond L, Csiszár J, Koncz C and Szabados L: *Stress dependent and developmental regulation of proline biosynthesis in Arabidopsis*. Straub days of HAS, Biological Research Center, Szeged, Hungary, November 16-18, 2005
- Székely G**, Ábrahám E, Rigó G, Zsigmond L, Csiszár J, Koncz C, Szabados L: *Stress dependent and developmental regulation of proline biosynthesis in Arabidopsis*. 1<sup>st</sup> ITC Alumni Meeting 2006, Biological Research Center, Szeged, Hungary, 2006
- Székely G**, Ábrahám E, Rigó G, Zsigmond L, Cséplő Á, Csiszár J, Ökrész L, Fornara F, Koncz C and Szabados L: *Regulation of proline metabolism in Arabidopsis thaliana: a model for stress responses*. Straub days of HAS, Biological Research Center, Szeged, Hungary, November 16-18, 2006

- Zsigmond L, Rigó G, Szarka A, **Székely G**, Ötvös K, Medzihradzky KF, Koncz C, Koncz Z and Szabados L: *Influence of a novel mitochondrial PPR domain on abiotic stress responses of Arabidopsis thaliana*. Straub days of HAS, Biological Research Center, Szeged, Hungary, November 28-30, 2007
- Zsigmond L, Rigó G, Szarka A, **Székely G**, Ötvös K, Darula Z, Medzihradzky KF, Koncz C, Koncz Z and Szabados L: *Arabidopsis PPR40 connects abiotic stress responses to mitochondrial electron transport*. Straub days of HAS, Biological Research Center, Szeged, Hungary, December 3-5, 2008
- Székely G**: *Abiotic stress regulates the expression of P5CS genes in Arabidopsis thaliana*. The Pannonian Plant Biotechnology Association Conference, Ljubljana, Slovenia, May 25-26, 2009
- Rakosy E, **Székely G**, Maior M: *Stabilirea tehnologiei de analiză RAPD la hibridii somatici între cartof (Solanum tuberosum) și S. chacoense rezistenți la gândacul de Colorado*, The Pannonian Plant Biotechnology Association Conference, Cluj-Napoca, Romania, Iulie 4-7, 2010
- Bartha C, Fodorpataki L, Nagy E, Keresztes ZG, **Székely G**, Popescu O: *Photosynthesis and water relations of leaf cells exposed to salt stress*, XXVIII-a Sesiune anuală a Societății Române de Biologie Celulară, Constanța, Romania, Iunie 9-12, 2010
- Keresztes ZG, **Székely G**, Bartha C, Boros E, Somogyi B, Nagy E, Dragoș N Vörös L: *Studiu privind identificarea picoalgeilor din lacurile sodice din Regiunea Panonica*, Salonul Cercetării: Alimentatie. Agricultura. Biotehnologii, Bucuresti, Romania, 6-8 Oct. 2010
- Keresztes ZG, Somogyi B, Felföldi T, Bartha C, Dragoș N, Vörös L, **Székely G**: *Unknown picophytoplankton in Transylvanian salt lakes: great biotechnological potential in extreme environments*, European Biotechnology Congress S77-78, Istanbul, Turkey, Sept. 28-Oct.1, 2011, IF: 8.486
- Keresztes ZG, Nagy E, Somogyi B, Nemeth B, Bartha C, **Székely G**, Dragoș N, Voros L: *Az Erdelyi medence sós tavainak trofítási viszonyai (Trophic condition of saline lakes in the Transylvanian basin)*, Hidrobiológus Napok (Hydrobiologists Days), Tihany, Hungary, Oct. 5-7, 2011

- Keresztes ZG, Somogyi B, Felfoldi T, Bartha C, Dragos N, **Székely G**, Voros L: Trophic state of Transylvanian hypersaline lakes, Conference on Ecological problems of tourist lakes, Tihany, Hungary, June 20-23, 2011
- Keresztes ZG, Somogyi B, Felfoldi T, Nagy E, Bartha C, Dragos N, **Székely G**, Voros L: *Picophytoplankton blooms in Transylvanian hypersaline lake*, Water resources and wetlands conference, Tulcea, Romania, Sept. 14-16, 2012
- Keresztes ZG, Nagy E, Nemeth B, Dragos N, Bartha C, **Székely G**, Voros L: *Pikofitoplankton dominancia az Erdélyi-Medence sós tavaiban*, 13-th Biology Days, Cluj-Napoca, Romania, Mart. 30-31, 2012
- Keresztes ZG, Felfoldi T, Somogyi B, Nagy E, Bartha C, **Székely G**, Voros L: *Tengeri algák az Erdélyi-Medence sós tavaiban*, 14-th Biology Days, Cluj-Napoca, Romania, Apr. 12-14, 2013
- Rigó G, Ayaydin F, **Székely G**, Podar D, Zsigmond L, Kovács H, Király A, Tietz O, Palme K, Szabados L, Koncz C, Cséplő A: *Characterization of two Ser/Thr type Arabidopsis thaliana protein kinases: their possible roles in regulation of abiotic stress responses*, Plant for the Future Conference, Cluj-Napoca, Romania, Sept. 30-Oct.2, 2013
- Réti KO, Macalik K, Carpa R, Kis E, **Székely G**: *Characterizarea unor habitate halofile din Bazinul Transilvaniei, România*, Sesiunea anuală de comunicări științifice, Complexul Muzeal Bistrița-Năsăud, Secția de Științele Naturii, Bistrița, Nov. 11-12, 2016
- Székely G**, Carpa R, Réti K, Macalik K, Török E: *Efectul salinității asupra activității enzimatică și a distribuției speciilor halofile din Cojocna (jud. Cluj)*, Sesiunea anuală de comunicări științifice, Complexul Muzeal Bistrița-Năsăud, Secția de Științele Naturii, Bistrița, Nov. 3-4, 2017
- Barta CÉ, Jenkins BC, Lindstrom DS, Zahnd AK, **Székely G**: *The first evidence of gibberellic acid's ability to modulate target species' sensitivity to honeysuckle (Lonicera maackii) allelochemicals*, Plant Biology annual conference, Savannah, Georgia, USA, August 5-9, 2023
- King A, Frye R, Justus A, Weber S, Svojanovsky S, **Szekely G**, Barta C: *Uncovering the plant growth-promoting role of L-DOPA: Insights from velvet bean seed*

*metabolomics*, Plant Biology annual conference, Milwaukee, Wisconsin, July 26-30, 2025

Barta C, Frye R, Justus A, King A, Weber A, Svojanovsky S, **Szekely G**: *Growth in soil amended with degrading Velvet bean seeds enhances salt stress resistance in tomato*, Plant Biology annual conference, Milwaukee, Wisconsin, July 26-30, 2025

King A, Frye R, Larison T, Menne C, Burroughs N, Schneider J, Weber S, Svojanovsky S, **Szekely G**, Barta C: *Velvet bean soil amendments enhance growth, biomass accumulation and light energy use efficiency in tomato plants*, Plant Biology annual conference, Milwaukee, Wisconsin, July 26-30, 2025