

PERSONAL INFORMATION



Teodora Petrova Popova

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POSITION HELD AND RESEARCH FIELD

Chief Assistant Professor, Department of Developmental Biology, University of Plovdiv "Paisii Hilendarski"; genetics; cytogenetics; mutagenesis; *in vitro* plant tissue culture; anther culture of pepper (*Capsicum annuum* L.)

WORK EXPERIENCE

from 2005 – present - Chief Assistant Professor of Genetics - University of Plovdiv (laboratory practice; seminars; lectures of Genetics; Cytogenetics);

from 2002 to 2005 - Senior Assistant Professor of Genetics - University of Plovdiv (laboratory practice);

from 1995 to 2002 - Assistant Professor of Genetics - University of Plovdiv (laboratory practice);

from 1992 to 1995 – biologist in Department of Medical Biology; Medical University of Plovdiv;

EDUCATION AND TRAINING

2008 – PhD (Genetics), Scientific Council of Agronomy and Silviculture, BAS, Sofia; Title of PhD thesis: Obtaining and genotype investigations of androgenic haploids from Bulgarian pepper (*Capsicum annuum* L.) varieties.

1986-1991 B.Sc. and M.Sc., Biology and Nature Protection; Teacher of Biology; University of Plovdiv "Paisii Hilendarski", Bulgaria

1986 Secondary School

1981 Primary School

PERSONAL SKILLS

Mother tongue(s)

Bulgarian

Other language(s)

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UNDERSTANDING		SPEAKING		WRITING
Listening	Reading	Spoken interaction	Spoken production	
English - B1/B2	English - B1/B2	English - B1/B2	English - B1/B2	English - B1/B2
Russian - B1/B2	Russian - B1/B2	Russian - B1/B2	Russian - B1/B2	Russian – B1/B2

Levels: A1/A2: Basic user - B1/B2: Independent user - C1/C2 Proficient user

Organisational / managerial skills

- Training of students, working with graduate students, participation in research projects, coordination of project activities

Job-related skills

- Lead of educative work in the scope of genetics, cytogenetics and mutagenesis; work with computers and software products, optical equipment, etc. (Windows, MS Office, Word, Excel, Internet, Power Point, Media Player), mechanical and optical equipment in biology; microscopic technique; microphotography; laminar box and other devices and equipment required for specific academic and research work;

ADDITIONAL INFORMATION

Books:

1. Ivanova E., Staykova T., **Irikova T.** 2001. Human genetics (with elements of General Genetics), pp. 206. (In Bulgarian)
2. Ivanova E., Staykova T., **Irikova T.** 2002. Handbook of genetics, pp. 90. (In Bulgarian)
3. Popov P., **Irikova T.** 2004. General Genetics, pp. 246. (In Bulgarian)
4. Popov P., **Irikova T.** 2010. Cytogenetics. pp. 118. (In Bulgarian)

Projects

2005 – 2006 – Project leader “Obtaining and molecular-genetic investigations of haploids and dihaploid regenerants via anther culture of pepper (*Capsicum annuum* L.) and inclusion in the breeding practice” (Contract 05B73)

2005 – 2008 – Project team member, bilateral project Bulgaria - Greece “Application of biotechnological methods for multiplication micropropagation of virus free plants from sweet pepper (*Capsicum annuum* L.) by organogenesis and somatic embryogenesis” (Contract BG2/2005)

2006 – 2008 - Project team member, bilateral project Bulgaria - Macedonia “Obtaining of haploids in anther culture of pepper (*Capsicum annuum* L.) and including in the breeding process” (Contract BM2/2006)

2009 – 2010 – Project coordinator „Increasing the professional skills of the students of Department “Biology” by trainings in scientific and business sectors” (Contract BG051PO001-3.3.03-0025) – funded under the Operational Programme “Development of the Human Resources 2007 – 2013” and co-financed by the European Social Fund of the European Union

2011 – 2012 – Project team member “Monitoring of biological and chemical risk factors in food and their effects on human health ” (Contract SI11 BF 006)

2014 – Performer „Plovdiv Electronic University (PEU): national standard for conducting quality e-learning in higher education” (Contract BG051PO001-4.3.04-0064) funded under the Operational Programme “Development of the Human Resources” and co-financed by the European Social Fund of the European Union

2014 – Functional expert “Students practices” (Contract BG051PO001-3.3.07-0002) funded under the Operational Programme “Development of the Human Resources” and co-financed by the European Social Fund of the European Union

Conferences/ Publications

Irikova T., T. Vangelova, P. Popov, 2000. Mutagenetic action some insecticides on plant cells. – National Scientific – Practice Conference with International Participation “Man, Nature, Health”, 3 - 4 November 2000, Pamporovo - Bulgaria; Reports Coll., vol. I, 86-88.

Apostolova E., **T. Irikova**, P. Popov, 2001. Cytotoxic and cytomutagenic influence of pesticide Vaztak 10 EK on *Crepis capillaris* sprouted seeds. – Jubilee Scientific Conference “30 years Shumen University “Episkop Konstantin Preslavski””, November 2001, Shumen - Bulgaria, Reports, Biology and Geography; Sci. Works Coll. “Natural Science” – Jubilee Scientific Conference “30 years Shumen University “Episkop Konstantin Preslavski””, Biology, 2003, pp. 70 – 76.

Irikova T., V. Rodeva, 2002. *In vitro* anther’s response of different pepper (*Capsicum annuum* L.) genotypes. Research Reports of the Union of Scientist in Bulgaria, 7-8 October, 2002.

Stoyanov I., P. Vasileva, **T. Popova**, T. Staykova, E. Ivanova, 2013. Toxic and mutagenic effect of Verita WG on *Pisum Sativum* plant test system *in vivo*. Jubilee National Scientific Conference with International Participation “Traditions, Directions, Challenges”, Smolyan 19 – 21 October 2012. Natural Science, Mathematics and Informatics, (Natural and Agricultural Sciences, Medicine), 1 (2): 37-45.

PUBLICATIONS

Publications –

- Irikov A., **T. Irikova**, 2000. Dependence to density of land shell molluscs (Gastropoda, *Pulmonata*) from dampness of substratum in beech associations in Dobrostarski ridge of West Rhodope mountains. Research Reports of the Union of Scientist in Bulgaria, B, I: 421 – 424.
- Svetleva D., D. Dimova, **T. Irikova**, M. Veltcheva, S. Petkova, 2001. Seed precultivation on media supplemented with different hormones and its influence of callus growth in Common bean (*Phaseolus vulgaris* L.). Biotechnology and Biotech. Eq. 15/2001/2, 12-16. IF 0.06
- Irikova T.**, E. Apostolova, P. Popov, 2002. Investigation of automutagenesis caused by natural ageing of seeds in *Crepis capillaris*. Trav. Sci. Univ. Plovdiv, Microbiologia et Cytologia, 2002. 38, 7, 23-28.
- Irikova T.**, E. Apostolova, P. Popov, 2003. Mutagenic effect from insecticide Vaztak 10 EK on *Crepis capillaris* in vivo. Trav. Sci. Univ. Plovdiv, Microbiologia et Cytologia, 2003,39,8, 17-22.
- Rodeva V., **T. Irikova**, V. Todorova, 2004. Anther culture of pepper (*Capsicum annuum* L.) : Comparative study on effect of the genotype. Biotechnology and Biotech. Eq. 18/2004/3, 34-38.
- Irikova T.**, V. Rodeva, 2004. Anther culture of pepper (*Capsicum annuum* L.): the effect of nutrient media. Capsicum and Eggplant Newsl. 23: 101–104.
- Irikova T.**, V. Rodeva, 2005. The effect of silver nitrate on in vitro embryogenesis in pepper (*Capsicum annuum* L.) anther culture. Genetics and Breeding, 34 (1-2): 33-38.
- Irikova T.**, I. Denev, 2008. Identification of two embryogenesis-related genes in sweet pepper (*Capsicum annuum* L.) genome. Comptes rendus de l'Academie bulgare des Sciences, Vol. 61, No 6, 761-770.
- Irikova T.**, 2008. Obtaining and genotype investigations of androgenic haploids from Bulgarian pepper (*Capsicum annuum* L.) varieties. Thesis for acquisition of Ph. D. Degree, pp. 199.
- Irikova T.**, P. Popov, S. Grozeva, V. Rodeva, 2009. In vitro reactions in anther culture of sweet pepper (*Capsicum annuum* L.) cultivars and breeding lines of different types. Genetics and Breeding, BG, 38(3-4): 15-23.
- Irikova T.**, S. Grozeva, V. Rodeva, 2011. Anther culture in pepper (*Capsicum annuum* L.) in vitro. Review. Acta Physiol. Plant. 33(5), 1559-1570. DOI 10.1007/s11738-011-0736-6. IF 1.692
- Irikova T.**, S. Grozeva, P. Popov, V. Rodeva, E. Todorovska, 2011. In vitro response of pepper anther culture (*Capsicum annuum* L.) depending on genotype, nutrient medium and duration of cultivation. Biotechnology and Biotech. Eq. 25(4), 1-7, DOI 10.5504/BBEQ.2011.0090. IF 0.76
- Irikova T.**, S. Grozeva, I. Denev, 2012. Identification of BABY BOOM and LEAFY COTYLEDON genes in sweet pepper (*Capsicum annuum* L.) genome by their partial gene sequences. Plant Growth Regul. 67(2):191-198. DOI 10.1007/s10725-012-9676-4. IF 2.333
- Popova (Irikova) T.**, S. Kintzios, S. Grozeva, V. Rodeva, 2016. Pepper (*Capsicum annuum* L.) anther culture – fundamental research and practical applications. Turkish Journal of Biology. 40:719-726. ISSN: 1300-0152 (Print) 1303-6092 (Online). IF 1.183.
- Popova T.**, S. Grozeva, V. Todorova, G. Stankova, N. Anachkov, V. Rodeva. 2016. Effects of low temperature, genotype and culture media on in vitro androgenic answer of pepper (*Capsicum annuum* L.). Acta Physiologiae Plantarum. 38:273. DOI 10.1007/s11738-016-2294-4. ISSN: 0137-5881 (Print) 1861-1664 (Online). IF 1.563

Citations –

Article: Rodeva V., T. Irikova, V. Todorova, 2004. Anther culture of pepper (*Capsicum annuum* L.) : Comparative study on effect of the genotype. *Biotechnology and Biotech. Eq.* 18/2004/3, 34-38.

Cited by:

- Koleva-Gudeva, L.R., Spasenovski, M. and Trajkova, F., 2007. Somatic embryogenesis in pepper anther culture: The effect of incubation treatments and different media. *Scientia Horticulturae*, 111(2), pp.114-119.
- Koleva Gudeva, L., Trajkova, F. and Spasenovski, M., 2007. Effectiveness of androgenesis induced in anther culture of pepper (*Capsicum annuum* L.). *Progress in Research on Capsicum and Eggplant*.
- Masheva, S.T. and Mihov, M., 2008. September. Trends of the research work in vegetable crops and potatoes in Bulgaria. In IV Balkan Symposium on Vegetables and Potatoes 830 (pp. 45-52).
- Koleva-Gudeva, L., Trajkova, F., Dimeska, G. and Spasenovski, M., 2008. September. Androgenesis efficiency in anther culture of pepper (*Capsicum annuum* L.). In IV Balkan Symposium on Vegetables and Potatoes 830 (pp. 183-190).
- Nowaczuk PA, Nowaczuk LU, 2009. Haploid embryogenesis in capsaicinoid forms of soft-flesh *Capsicum* spp. *Herba Polonica*. 55(3):251-6.
- Koleva Gudeva, L. and Trajkova, F., 2012. Anther culture of pepper: Morphological characteristics of fruits of androgenetic pepper lines (*Capsicum annuum* L.). *Journal of research in agriculture*, 1(2), pp.136-145.
- Niklas-Nowak, A., Olszewska, D., Kisiala, A. and Nowaczuk, P., 2012. Study of individual plant responsiveness in anther cultures of selected pepper (*Capsicum* spp.) genotypes. *Folia Horticulturae*, 24(2), pp.141-146.
- 付文婷, 苏丹, 杨红 and 杨万荣, 2012. 辣椒离体再生培养及其在育种中的应用. *农业科学与技术: 英文版*, 13(8), pp.1670-1674.
- 张正海, 毛胜利, 王立浩 and 张宝玺, 2012. 辣椒单倍体离体诱导及育种应用. *园艺学报*, 39(9), pp.1715-1726.
- Koleva Gudeva, L., Gulaboski, R., Janevik-Ivanovska, E., Trajkova, F. and Maksimova, V., 2013. Capsaicin-Inhibitory factor for Somatic Embryogenesis in Pepper Anther Culture. *Electronic Journal of Biology*, 9(2), pp.29-36.
- Koleva-Gudeva, L., Trajkova, F. and Zlatkovski, V., 2013. Biotechnology and Biodiversity: Aspects of Improvement of Genetic Resources of Agriculture Crops. *Yearbook-Faculty of Agriculture*, 8(1), pp.pp.57.
- Luitel, B.P. and Kang, W.H., 2013. In vitro androgenic response of minipaprika (*Capsicum annuum* L.) genotypes in different culture media. *Horticulture, Environment, and Biotechnology*, 54(2), pp.162-171.
- Basay, S. and Ellialtioglu, Ş.Ş., 2013. Effect of genotypical factors on the effectiveness of anther culture in eggplant (*Solanum melongena* L.). *Turkish Journal of Biology*, 37(4), pp.499-505.
- 付文婷, 韩世玉, 邢丹, 廖芳芳, 苏丹, 张爱民, 蓬桂华 and 何建文, 2014. 不同培养基及采花期对辣椒花药培养的影响. *河南农业科学*, 43(10), pp.83-86.
- ALREMİ, F., TAŞKIN, H., SÖNMEZ, K., BÜYÜKALACA, S. and ELLİALTIOĞLU, Ş., 2014. Biber (*Capsicum annuum* L.)'de Genotip ve Besin Ortamının Anter Kültürüne Etkileri. *Türk Tarım ve Doğa Bilimleri*, 1(2), pp.108-116.
- 李晓慧, 徐小利, 常高正, 赵卫星 and 梁 慎, 2014. 西瓜新品种圣达尔的选育. *河南农业科学*, 43(10), pp.92-94.
- 李怡斐, 黄启中, 张世才, 林清, 吕中华 and 黄任中, 2014. 辣椒花药培养及其在遗传育种上的应用. *辽宁农业科学*, (5), pp.30-37.
- Pelliccione, S., 2014. Microspore embryogenesis induction in hot pepper genotypes]. *Universidad de Granada*
- Barroso, P.A., Rêgo, M.M., Rêgo, E.R. and Soares, W.S., 2015. Embryogenesis in the anthers of different ornamental pepper (*Capsicum annuum* L.) genotypes. *Genetics and Molecular Research*, 14(4), pp.13349-13363.
- Kouakou, K.L., Doubi, T.S., Koffi, T.S., Kouassi, K.I., Kouakou, T.H., Baudoin, J.P. and Bi, I.A.Z., 2015. Androgenic potential and anther in vitro culture of *Lagenaria siceraria* (Molina) Standl an edible-seed cucurbit. *International Journal of Biological and Chemical Sciences*, 9(4), pp.1779-1789.
- Atilla, A.T.A. and Bitkileri, B., SAHİP BİBERLERDE (*Capsicum annuum* L.) ANTER KÜLTÜRÜNE MEVSİM ETKİSİ.
- Ari, E., Yildirim, T., Mutlu, N., BÜYÜKALACA, S., GÖKMEN, Ü., & Akman, E., 2016. Comparison of different androgenesis protocols for doubled haploid plant production in ornamental pepper (*Capsicum annuum* L.). *Turkish Journal of Biology*, 40(4), 944-954.
- Ari, E., Bedir, H., Yildirim, S., & Yildirim, T. 2016. Androgenic responses of 64 ornamental pepper (*Capsicum annuum* L.) genotypes to shed-microspore culture in the autumn season. *Turkish Journal of Biology*, 40(3), 706-717.
- Nowaczuk, L., Nowaczuk, P., & Olszewska, D. 2016. Treating donor plants with 2, 4-dichlorophenoxyacetic acid can increase the effectiveness of induced androgenesis in *Capsicum* spp. *Scientia Horticulturae*, 205, 1-6.

Article: Irikova T., V. Rodeva, 2004. Anther culture of pepper (*Capsicum annuum* L.): the effect of nutrient media. *Capsicum and Eggplant Newsl.* 23: 101–104.

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- Koleva-Gudeva, L.R., Spasenoski, M. and Trajkova, F., 2007. Somatic embryogenesis in pepper anther culture: The effect of incubation treatments and different media. *Scientia Horticulturae*, 111(2), pp.114-119.
- Koleva-Gudeva, L., Trajkova, F., Dimeska, G. and Spasenoski, M., 2008, September. Androgenesis efficiency in anther culture of pepper (*Capsicum annuum* L.). In *IV Balkan Symposium on Vegetables and Potatoes 830* (pp. 183-190).
- 成妍, 马蓉丽, 焦彦生 and 吴海涛, 2012. 辣椒花药培养研究进展. *中国农学通报*, 28(22), pp.113-118.
- Rodeva, V., Gudeva, L.K., Grozeva, S. and Trajkova, F., 2013. Obtaining haploids in anther culture of pepper *Capsicum annuum* L. and their inclusion in the breeding process. *Yearbook-Faculty of Agriculture*, 7(1), pp.pp-7.
- Koleva-Gudeva, L., Trajkova, F. and Zlatkovski, V., 2013. Biotechnology and Biodiversity: Aspects of Improvement of Genetic Resources of Agriculture Crops. *Yearbook-Faculty of Agriculture*, 8(1), pp.pp-57.
- Roshany, G., Kalantarai, S., Naderi, R. and Hassani, M.E., 2013. Callus Formation via Anther Culture in *Capsicum annuum* L. with Differences in Genotypes, Media and Incubation Temperature.
- Koleva Gudeva, L., Gulaboski, R., Janevik-Ivanovska, E., Trajkova, F. and Maksimova, V., 2013. Capsaicin-Inhibitory factor for Somatic Embriogenesis in Pepper Anther Culture. *Electronic Journal of Biology*, 9(2), pp.29-36.
- Barroso, P.A., Rêgo, M.M., Rêgo, E.R. and Soares, W.S., 2015. Embryogenesis in the anthers of different ornamental pepper (*Capsicum annuum* L.) genotypes. *Genetics and Molecular Research*, 14(4), pp.13349-13363.

Article: Irikova T., V. Rodeva, 2005. The effect of silver nitrate on in vitro embryogenesis in pepper (*Capsicum annuum* L.) anther culture. *Genetics and Breeding*, 34 (1-2): 33-38.

Cited by:

- 张正海, 毛胜利, 王立浩 and 张宝玺, 2012. 辣椒单倍体离体诱导及育种应用. *园艺学报*, 39(9), pp.1715-1726.
- Luitel, B.P. and Kang, W.H., 2013. In vitro androgenic response of minipaprika (*Capsicum annuum* L.) genotypes in different culture media. *Horticulture, Environment, and Biotechnology*, 54(2), pp.162-171.
- 李怡斐, 黄启中, 张世才, 林清, 吕中华 and 黄任中, 2014. 辣椒花药培养及其在遗传育种上的应用. *辽宁农业科学*, (5), pp.30-37.

Article: Irikova T., I. Denev, 2008. Identification of two embryogenesis-related genes in sweet pepper (*Capsicum annuum* L.) genome. *Comptes rendus de l'Academie bulgare des Sciences*, Vol. 61, No 6, 761-770.

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- 臧顺 and 陈启武, 2013. 辣椒营养器官离体培养中体胚发生研究进展. *中国蔬菜*, (11X), pp.9-14.

Article: Irikova T., S. Grozeva, P. Popov, V. Rodeva, E. Todorovska, 2011. *In vitro* response of pepper anther culture (*Capsicum annuum* L.) depending on genotype, nutrient medium and duration of cultivation. *Biotechnology and Biotech. Eq.* 25(4), 1-7, DOI 10.5504/BBEQ.2011.0090.

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- Luitel, B.P., Adhikari, P.B., Shrestha, S.L. and Kang, W.H., 2012. Morphological characterization of anther derived plants in minipaprika (*Capsicum annuum* L.). *Korean Journal of Breeding Science*, 44(4), pp.450-461.
- Luitel, B.P. and Kang, W.H., 2013. In vitro androgenic response of minipaprika (*Capsicum annuum* L.) genotypes in different culture media. *Horticulture, Environment, and Biotechnology*, 54(2), pp.162-171.
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- Asif, M., 2013. Applications and Uses of Haploids. In *Progress and Opportunities of Doubled Haploid Production* (pp. 55-70). Springer International Publishing.
- BAŞAY, S. and ELLİALTIOĞLU, Ş.Ş., 2013. Effect of genotypical factors on the effectiveness of anther culture in eggplant (*Solanum melongena* L.). *Turkish Journal of Biology*, 37(4), pp.499-505.
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- Parra-Vega, V., González-García, B. and Seguí-Simarro, J.M., 2013. Morphological markers to correlate bud and anther development with microsporogenesis and microgametogenesis in pepper (*Capsicum annuum* L.). *Acta physiologiae plantarum*, 35(2), pp.627-633.
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