


## ЛИЧНА ИНФОРМАЦИЯ


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## ТРУДОВ СТАЖ

2017 -	Професор, Агробиоинститут, ССА, София, България, директор
2013 - 2017	Професор, Агробиоинститут, ССА, София, България, рък. група Молекулярна генетика
2008 - 2013	Доцент, Агробиоинститут, ССА, София, България, рък. група Молекулярна генетика
2005 - 2008	Постдок, Faculty of Life Sciences, The University of Manchester, UK
2005 - 2005	Доцент, Агробиоинститут, ССА, София, България, рък. група Молекулярна генетика
2001 - 2005	Гл. ас., Агробиоинститут, ССА, София, България, рък. група Молекулярна генетика
2001 - 2001	Постдок, International Center of Genetic Engineering and Biotechnology, New Delhi, INDIA
1999 - 2001	Гл. ас., Агробиоинститут, ССА, Костинброд, България, рък. група Молекулярна генетика
1998 - 1999	Постдок, LRDP, Ecole Normale Supérieure de Lyon, FRANCE
1996 - 1997	Гл. ас., И-т по генетично инженерство (сега Агробиоинститут), ССА, София, Костинброд, рък. група Молекулярна генетика
1994 - 1996	Постдок, Life Science Center, Japan Tobacco Inc., Yokohama, JAPAN
1988 - 1994	специалист (свободен докторант) И-т по генетично инженерство (сега Агробиоинститут), ССА, Костинброд, България,

## ОБРАЗОВАНИЕ

2012	D.Sc. ,	Агробиоинститут /АБИ/), Селскостопанска Академия, София, България
1994	Ph.D. ,	Институт по генетично инженерство (сега Агробиоинститут /АБИ/), Селскостопанска Академия, Костинброд, България
1987	M.Sc.,	Физически ф-т, Софийски университет 'Св. Кл. Охридски', София, България

## СПЕЦИАЛИЗАЦИИ СЛЕД ПОЛУЧАВАНЕ НА СТЕПЕН 'ДОКТОР' (ПОСТДОК)

2014 - 2014	DAAD специализация в Institute of Microbiology, Technical University Braunschweig, GERMANY
2005 - 2008	Постдок, Faculty of Life Sciences, The University of Manchester, UK
2001 - 2001	Постдок, International Center of Genetic Engineering and Biotechnology, New Delhi, INDIA
1998 - 1999	Постдок, LRDP, Ecole Normale Supérieure de Lyon, FRANCE
1994 - 1996	Постдок, Life Science Center, Japan Tobacco Inc., Yokohama, JAPAN

## ОБРАЗОВАНИЕ

2012	D.Sc. ,	Агробиоинститут /АБИ/), Селскостопанска Академия, София, България
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1987	M.Sc.,	Физически ф-т, Софийски университет 'Св. Кл. Охридски', София, България

Майчин език български

Други езици	РАЗБИРАНЕ		ГОВОРЕНЕ		ПИСАНЕ
	Слушане	Четене	Участие в разговор	Самостоятелно устно изложение	
английски	C1	C1	C1	C1	C2
руски	B1	B1	A1	-	-

Ниво: A1/2: Основно ниво на владееене - B1/2: Самостоятелно ниво на владееене - C1/2 Свободно ниво на владееене, Обща европейска езикова рамка

## УЧАСТИЕ В ИЗСЛЕДОВАТЕЛСКИ ПРОЕКТИ (през последните 5 години)

Проект	Период	Финансиране
Център за компетентност, BG05M2OP001-1.002-0012-C01, „Устойчиво оползотворяване на био-ресурси и отпадъци от лечебни и ароматични растения за иновативни биоактивни продукти“ (рък. проект за АБИ)	2018-2023	Оперативна програма „Наука и образование за интелигентен растеж“
Консервация и устойчива капитализация на горското биоразнообразие „БИОПРОСПЕКТ“. (рък. проект за АБИ)	2017-2019	Interreg Balkan-Mediterranean, European Regional Development Fund
Ефекти и механизми на въздействие на електрически разряди в газове и течности върху моделни биологични системи. (рък. проект за АБИ)	2016-2019	Национален Фонд ‘Научни Изследвания’
Оценка на лечебни растения (семейство <i>Lamiaceae</i> ) с високо съдържание на биологично активни вещества чрез фитохимични и молекулярни анализи, (рък. проект за АБИ)	2016-2019	Национален Фонд ‘Научни Изследвания’
Генетичен контрол на развитието на цвета при индустриално култивираната казанлъшка роза ( <i>Rosa damascena</i> Mill)	2016-2019	Национален Фонд ‘Научни Изследвания’
Оплозотворяване на биологично активни съединения от отпадни води от розопроизводство No: IZEBZ0_143110/, (рък. проект за АБИ)	2012-2016	Българо-Швейцарска Научно-изследователска Програма, BSRP 2011 – 2016
Комбиниране на иновации в мениджмънта на лозовите насаждения и на генетичното разнообразие за устойчиво развитие на европейското лозарство, project No: 311775– EC-GA,	2012-2016	FP 7 EU
Метагеномен подход за идентификация и биосинтеза на кисела термостабилна $\alpha$ -амилаза от термофилни микроорганизми No: DID02/24 (рък. проект)	2011 - 2013	Национален Фонд ‘Научни Изследвания’
Център за устойчиво развитие на растителната и животинска геномика.No DO02-105 (рък. под-проект)	2009 - 2013	Национален Фонд ‘Научни Изследвания’

### РЪКОВОДСТВО НА ДОКТОРАНТИ:

Ръководител на общо седем успешно защитили докторанта за периода 2003 -2018 година

### УЧАСТИЕ В ОЦЕНКА И АНАЛИЗ НА НАУЧНИ ПОЛИТИКИ И ОЦЕНКА НА НАУЧНИ ОРГАНИЗАЦИИ:

2015 – 2017, член на Постоянно действаща експертна комисия за наблюдение, оценка и анализ на научно-изследователската дейност, осъществявана от висшите училища и научните организации, към Министерство на образованието и науката

2015 – 2017, член на Постоянната комисия по природни науки, математика и информатика /ПКПНМИ/ към Националната агенция по оценяване и акредитация /НАОА/

2013 – 2017, член на Консултативна комисия по генетично модифицирани организми, към Министерство на околната среда и водите.

2015 – 2017, член на Научно-експертен съвет и "Сдружение за научноизследователска и развойна дейност" /СНИРД/ (юридическо лице с нестопанска цел) към „София Тех Парк“ (отг. дейност в Ин витро лаборатория за оценка на биологична активност и токсичност, Биофармацевтичен лабораторен комплекс)

2015 – 2017, член в Съвета по иновации към Българска Търговско Промислена Палата

## НАУЧНИ ПУБЛИКАЦИИ И ЦИТИРАНИЯ

Общ брой научни публикации: 85; Общ брой цитати на научните публикации: >1200 (ResearchGate); >1450 (Google Scholar); H индекс (според Scopus): 15 .

### Публикации:

- Kumar, M., I. Atanassov and S. Turner (2017). "Functional Analysis of Cellulose Synthase (CESA) Protein Class Specificity." *Plant physiology* 173(2): 970-983.
- Rusanov, K., A. Atanassov and I. Atanassov (2017). "Engineering Cell and Organ Cultures from Medicinal and Aromatic Plants Toward Commercial Production of Bioactive Metabolites." *Reference Series in Phytochemistry. Bioprocessing of Plant in vitro Systems* (in press).
- Zagorcheva, T., K. Stefanova, M. Mourdjeva and I. Atanassov (2017). "Fusion the Transit Peptide Region of 1-Deoxy-D-Xylulose 5-Phosphate Reductoisomerase (DXR) Gene from *Lavandula angustifolia* Directs GFP Reporter Protein into the Chloroplasts." *Comptes rendus de l'Académie bulgare des Sciences* 70(3): 387-392.
- Kumar, M., R. Wightman, I. Atanassov, A. Gupta, C. H. Hurst, P. A. Hemsley and S. Turner (2016). "S-Acylation of the cellulose synthase complex is essential for its plasma membrane localization." *Science* 353(6295): 166-169.
- Solimine, J., E. Garo, J. Wedler, K. Rusanov, O. Fertig, M. Hamburger, I. Atanassov and V. Butterweck (2016). "Tyrosinase inhibitory constituents from a polyphenol enriched fraction of rose oil distillation wastewater." *Fitoterapia* 108: 13-19.
- Stanev, S., T. Zagorcheva and I. Atanassov (2016). "Lavander cultivation in Bulgaria –21st century developments, breeding challenges and opportunities." *Bulgarian Journal of Agricultural Science* 22(4): 584-590.
- Wedler, J., K. Rusanov, I. Atanassov and V. Butterweck (2016). "A Polyphenol-Enriched Fraction of Rose Oil Distillation Wastewater Inhibits Cell Proliferation, Migration and TNF- $\alpha$ -Induced VEGF Secretion in Human Immortalized Keratinocytes." *Planta medica* 82(11/12): 1000-1008.
- Zagorcheva, T., K. Rusanov, S. Stanev and I. Atanassov (2016). "A Simple Procedure for Comparative GC-MS Analysis of Lavender (*Lavandula Angustifolia* Mill.) Flower Volatile Composition." *IOSR Journal of Pharmacy and Biological Sciences* 11(4): 9-14.
- Rusanova, M., K. Rusanov, S. Stanev, N. Kovacheva and I. Atanassov (2015). "Total phenol content, antioxidant activity of hip extracts and genetic diversity in a small population of *R. canina* L. cv. Plovdiv 1 obtained by seed propagation." *Agricultural Science and Technology* 7(2): 162-166.
- Stefanova, K., I. Tomova, A. Tomova, N. Radchenkova, I. Atanassov and M. Kambourova (2015). "Archaeal and bacterial diversity in two hot springs from geothermal regions in Bulgaria as demonstrated by 16S rRNA and GH-57 genes." *International Microbiology* 18(4): 217-223.
- Wedler, J., E. Garo, K. Rusanov, M. Hamburger, I. Atanassov and V. Butterweck (2015). "A polyphenol enriched fraction of rose oil distillation water inhibits proliferation in HaCaT cells and induces apoptosis." *Planta Medica* 81(16): YRW\_12.
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- Atanassov, I., K. Stefanova, I. Tomova and M. Kambourova (2013). "Seamless GFP and GFP-Amylase Cloning in Gateway Shuttle Vector, Expression of the Recombinant Proteins in *E. Coli* and *Bacillus Megaterium* and Assessment of the GFP-Amylase Thermostability." *Biotechnology & Biotechnological Equipment* 27(5): 4172-4180.
- Rusanov, K., N. Kovacheva, M. Rusanova and I. Atanassov (2013). "Flower phenotype variation, essential oil variation and genetic diversity among *Rosa alba* L. accessions used for rose oil production in Bulgaria." *Scientia Horticulturae* 161: 76-80.
- Zagorcheva, T., S. Stanev, K. Rusanov and I. Atanassov (2013). "Comparative GC/MS analysis of lavender (*Lavandula angustifolia* Mill.) inflorescence and essential oil volatiles." *Agricultural Science & Technology* (1313-8820) 5(4).
- Dzhambazova, T., I. Tsvetkov, I. Simeonov, M. Ivanov, Z. Nakov, V. Dimitrova, I. Atanassov and T. Hvarleva (2012). "Genetic diversity and relationships of indigenous and newly bred Bulgarian grape cultivars assessed by nuclear and chloroplast

- markers." *OENO One* 46(2): 113-121.
- Rusanov, K., N. Kovacheva, M. Rusanova and I. Atanassov (2012). "Low variability of flower volatiles of *Rosa damascena* Mill. plants from rose plantations along the Rose Valley, Bulgaria." *Industrial Crops and Products* 37(1): 6-10.
- Rusanov, K., N. Kovacheva, M. Rusanova and I. Atanassov (2012). "Reducing methyl eugenol content in *Rosa damascena* Mill rose oil by changing the traditional rose flower harvesting practices." *European Food Research and Technology* 234(5): 921-926.
- Atanassov, I., P. Ivanova, M. Panayotova, A. Tsekov and K. Rusanov (2011). "Mitochondrial control region DNA variation in turbot populations from the Bulgarian and Romanian Black Sea coasts." *Biotechnology & Biotechnological Equipment* 25(4): 2627-2633.
- Brown, D., R. Wightman, Z. Zhang, L. D. Gomez, I. Atanassov, J. P. Bukowski, T. Tryfona, S. J. McQueen-Mason, P. Dupree and S. Turner (2011). "Arabidopsis genes IRREGULAR XYLEM (IRX15) and IRX15L encode DUF579-containing proteins that are essential for normal xylan deposition in the secondary cell wall." *The Plant Journal* 66(3): 401-413.
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- Rusanov, K., N. Kovacheva, M. Rusanova and I. Atanassov (2011). "Traditional *Rosa damascena* flower harvesting practices evaluated through GC/MS metabolite profiling of flower volatiles." *Food Chemistry* 129(4): 1851-1859.
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- Atanassov, I., D. Dimitrova, K. Stefanova, A. Tomova, I. Tomova, D. Lyutskanova, M. Stoilova-Disheva, G. Radeva, I. Danova and M. Kambourova (2010). "Molecular characterization of the Archaeal diversity in Vlasa hot spring, Bulgaria, by using 16S rRNA and glycoside hydrolase family 4 genes." *Biotechnology & Biotechnological Equipment* 24(3): 1979-1985.
- Kovacheva, N., K. Rusanov and I. Atanassov (2010). "Industrial cultivation of oil bearing rose and rose oil production in Bulgaria during 21st century, directions and challenges." *Biotechnology & Biotechnological Equipment* 24(2): 1793-1798.
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- Hvarleva, T., A. Bakalova, K. Rusanov, G. Diakova, I. Ilieva, A. Atanassov and I. Atanassov (2009). "Toward marker assisted selection for fungal disease resistance in grapevine." *Biotechnology & Biotechnological Equipment* 23(4): 1431-1435.
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- Hvarleva, T., K. Russanov, A. Bakalova, M. Zhiponova, G. Djakova, A. Atanassov and I. Atanassov (2009). "Microsatellite linkage map based on F2 population from Bulgarian grapevine cultivar Storgozia." *Biotechnology & Biotechnological Equipment* 23(1): 1126-1130.
- Rusanov, K., N. Kovacheva, A. Atanassov and I. Atanassov (2009). "*Rosa damascena* Mill., the oil-bearing Damask rose: genetic resources, diversity and perspectives for molecular breeding." *Floriculture Ornamental Biotech* 3: 14-20.
- Rusanov, K., N. Kovacheva, A. Atanassov and I. Atanassov (2009). "*Rosa Damascena*—Genetics of a Complex Allotetraploid Species and Perspectives for Molecular Breeding." *Biotechnology & Biotechnological Equipment* 23(sup1): 594-596.
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- Atanassov, I., A. Atanassov, I. Tsvetkov and I. Genov (2006). "Isolation and characterization of *Agrobacterium* strains from grapevines in Bulgarian vineyards and wild grapes, *V. vinifera* ssp. *silvestris*." *Vitis: Journal of Grapevine Research* 45(2): 97-101.
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- Genov, I., I. Atanassov, Y. Yordanov, I. Tsvetkov and A. Atanassov (2006). "Genetic diversity of *Agrobacterium vitis* strains, isolated from grapevines and wild grapes in Bulgaria, assessed by Cleaved Amplified Polymorphic Sequences analysis of 16S-23S rDNA." *VITIS-Journal of Grapevine Research* 45(3): 125.
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- Rusanov, K., A. Atanassov, I. Atanassov and N. Kovacheva (2005). "Microsatellite analysis of oil-bearing roses which do not belong to the species *Rosa damascena* Mill." *Bulgarian journal of agricultural science*.
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