

Part I: CURRICULUM VITAE

1. Personal

Department of Food Sciences

Institute of Postharvest and Food Sciences

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Google Scholar web-site: <https://scholar.google.com/citations?hl=en&user=-dAoBvwAAAAJ>

Dates	Description
13.01.1969	Born in Dushanbe, Tajikistan (former USSR)
25.11.1990	Immigration to Israel

2. University Education and Additional Training

Dates	Description
1985 – 1990	B.Sc. in medicine at Avizenna School of Medicine, Dushanbe, Tajikistan
1997 – 2000	M.Sc. in Microbiology at Tel-Aviv University, Sackler School of Medicine, Department of Human Microbiology Title of thesis: Adhesion of <i>Aspergillus</i> spp. to contact lenses and attempts to inhibit adhesion by a chitin derivate Supervision by: Prof. Esther Segal
2000 – 2005	Ph.D. in Microbiology at Tel-Aviv University, Sackler School of Medicine, Department of Human Microbiology Title of thesis: Experimental treatments of systemic Aspergillosis in animal models Supervision by: Prof. Esther Segal
2005 – 2007	Postdoctoral position at The Hebrew University – Hadassah Medical Center, Department of Clinical Microbiology and Infectious Diseases with Prof. Itzhak Polacheck Research subject: Synthesis and characterization of novel water soluble amphotericin B-arabinogalactan conjugate
2007 – 2012	Postdoctoral position at National Institute of Allergy and Infectious Diseases, Laboratory of Clinical Infectious Diseases, Molecular Microbiology Section, National Institutes of Health, Bethesda, USA, with Dr. June Kwon-Chung Research subject: Molecular mechanisms of drug resistance in <i>Cryptococcus neoformans</i> to azole antifungal agents

3. Positions Held and Academic Status

Dates	Description
2012 – 2014	Research Scientist at National Institute of Allergy and Infectious Diseases, Laboratory of Clinical Infectious Diseases, Molecular Microbiology Section, National Institutes of Health, Bethesda, USA
2014 – 2020	Research Scientist at the ARO, Volcani Center, Institute of Postharvest and Food Sciences, Department of Food Sciences. Rank B (equivalent to "Senior Lecturer")
2020 – to date	Research Scientist at the ARO, Volcani Center, Institute of Postharvest and Food Sciences, Department of Food Sciences. Rank A (equivalent to "Associate Professor")

4. Teaching Experience / Guiding Students

A. Academic Contribution:

Dates	Description
2016 – 2019	Lecturer at the Robert H. Smith Faculty of Agriculture, Food and Environment, Rehovot, The Hebrew University of Jerusalem Title of the course: Principles in toxicology and pharmacology
2019 – to date	Lecturer at the Robert H. Smith Faculty of Agriculture, Food and Environment, Rehovot, The Hebrew University of Jerusalem Title of the course: Fungi and food spoilage

B. Guidance of M.Sc. Students:

Dates	Name	Title of thesis	Guidance with
2015-2018	Mr. Niv Kalmi	Mycotoxin production by <i>Fusarium</i> species in onion and corn crops	Prof. Abraham Gamliel
2017-2020	*Ms. Rula Marshi	Dynamics of mycotoxin accumulation in fodder – monitoring, surveillance and prevention	Prof. Sheenan Harpaz

*under my direct supervision

C. Guidance of Ph.D. Students:

Dates	Name	Title of thesis	Guidance with
2015-2021	*Mr. Uriel Maor	The mechanism of accumulation of mycotoxins in fresh fruits	Prof. Dov Prusky

*under my direct supervision

D. Post-Docs and Visiting Scientists:

Dates	Name	Research subject
2015-to date	Dr. Sudharsan Sadhasivam ^{PD}	New strategies to prevent the development of mycotoxigenic fungi and mycotoxins in wheat grain for food and feed
2016-2020	Dr. Manoj Kumar Solanki ^{PD}	The wheat grain microbiome: development of biocontrol strategies of mycotoxigenic fungi

2017-to date	Dr. Omer Barda ^{PD}	Mechanisms governing the global regulation of mycotoxin production and pathogenicity by <i>Penicillium expansum</i> in postharvest fruits
2019 (6 months)	Gabriel Kojo Frimpong ^{VS}	Identification and toxigenic potential of fungi isolated from <i>Capsicum</i> peppers
2020-to date	Dr. Di Gong ^{PD}	Molecular aspects of regulation of mycotoxin biosynthesis by <i>Penicillium expansum</i> in colonized fruits

X^{PD}: Post-Doc working in my research team

X^{VS}: Visiting Scientist working in my research team

E. Organization of Courses

5. Activity in Scientific and Agricultural Committees

A. International:

B. National:

Dates	Description and role
2016-to date	The Standards Institution of Israel - member of the standards committee on teas and herbal infusions
2016-to date	The Israeli Society of Medical Mycology; Member of Council
2018-to date	Groundnuts growers committee; Advisor

C. Institutional:

Dates	Description and role
2015-2017	The ARO strategy program for food safety: Sub-steering committee – Mycotoxins in agricultural products; Chair
2015-2016	The ARO food security steering committee; Member

6. Contribution to the Scientific Community

A. International:

Dates	Description
2018	Chair of a Session in the First Balkan Conference of Medical Mycology and Mycotoxicology; Place: Timisoara, Romania

B. National:

Dates	Description
2017	Organizer and Chair of a Session on "Eukaryotes and Parasitology" in the Annual Meeting of the Israel Society for Microbiology; Place: ARO, The Volcani Center
2018	Organizer of the Annual Meeting of the Israel Society for Medical Mycology; Place: Sackler School of Medicine, Tel-Aviv University
2019	Organizer of the Annual Meeting of the Israel Society for Medical Mycology; Place: Sackler School of Medicine, Tel-Aviv University
2020	Organizer of the Annual Meeting of the Israel Society for Medical Mycology; Place: Sackler School of Medicine, Tel-Aviv University

C. Institutional:

Dates	Description
2015-2016	Organizer of Postharvest and Food Science Institute Seminars
2016	Organizer of Postharvest and Food Science Institute Students Seminar Day

D. Outreach:

Dates	Description
2017	Supervisor of a high school student's (Ilay Laslo) thesis work who took part in the program for advanced high-school science education
2018-to date	Reviewer (ad-hoc) of proposals for: The Chief Scientist

E. Editorial responsibilities:

Dates	Description
2014-to date	Reviewer (ad-hoc) of manuscripts for: EBioMedicine, Toxins, Scientific Reports, Molecules, PLoS One, Microorganisms, Frontiers in Microbiology, Food Microbiology, Letters in Applied Microbiology, Journal of Stored Products Research, Critical Reviews in Food Science and Nutrition, mBio, Microbiology Spectrum
2018-2020	Guest Editor – "Molecules"
2019-2020	Guest Editor – "Microorganisms"
2020-to date	Editorial Board – "Microorganisms"

7. Active Participation in Meetings

A. International:

Date	Title of the Meeting	Place	Role
2014	9 th International Conference on <i>Cryptococcus</i> and Cryptococcosis	Amsterdam, Netherlands	Invited lecture
2015	Gordon Research Conferences: Mycotoxins and Phycotoxins	Easton, MA USA	Poster
2016	4 th European Confederation of Medical Mycology Educational Symposium	Tel-Aviv, Israel	Invited lecture
2016	9 th Conference of The World Mycotoxin Forum	Winnipeg, Canada	Lecture
2017	International Workshop on Food Storage	Rishon Le-Zion (Ministry of Agriculture), Israel	Invited lecture
2018	14 th European Conference on Fungal Genetics	Haifa, Israel	Invited lecture
2018	10 th Conference of The World Mycotoxin Forum	Amsterdam, Netherlands	Poster
2018	First Balkan Conference of Medical Mycology and Mycotoxicology	Timisoara, Romania	Invited lecture
2019	U.S. – Israel Binational Agricultural Research and Development (BARD) conference	Leesburg, VA USA	Invited lecture

2019	WMFmeetsIUPAC – the joint conference of the 11 th Conference of The World Mycotoxin Forum® and the XVth IUPAC International Symposium on Mycotoxins	Belfast, Northern Ireland	* Lecture
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* Lecture given by student

B. National:

Date	Title of the Meeting	Role
2014	The Annual Meeting of the Israeli Society for Molecular Mycology (MMM), Faculty of Agriculture, Rehovot	Keynote presentation
2017	The Annual Meeting of the Israeli Society for Microbiology, ARO, Rishon LeZion	Lecture*
2017	The Annual Meeting of the Israeli Society for Molecular Mycology (MMM), ARO, Rishon LeZion	Invited lecture
2018	The Annual Meeting of the Israeli Society for Medical Mycology, Tel-Aviv University	Invited lecture
2019	The Annual Meeting of the Israeli Groundnuts Growers	Invited lecture
2019	The Annual Meeting of the Israeli Society for Molecular Mycology (MMM), Tel-Aviv University	Invited lecture*
2020	The Annual Meeting of the Israeli Groundnuts Growers	Invited lecture
2020	9th ILANIT/FISEB Conference, Eilat	Lecture*

* Lecture given by student

C. Institutional:

8. Research Grants

A. Internationally Peer Reviewed Grants:

Year	Granting Source	Duration (years)	Role*	Title (short)	Budget (US \$ / year)	
					Total	Researcher
2017	US-Israel Binational Agricultural Research and Development Fund – BARD	3	PI	Mechanisms governing the global regulation of mycotoxin production and pathogenicity by <i>Penicillium expansum</i> in postharvest fruits	96,666	48,333
2018	ISF-NSFC (Israel-China) joint research program	3	PI	Molecular aspects of regulation of mycotoxin biosynthesis by <i>Penicillium expansum</i> in colonized fruits	207,000	100,000
2020	US-Israel Binational Agricultural Research and Development Fund – BARD	3	PI	Epigenetic mechanisms controlling mycotoxin biosynthesis and pathogenesis in the plant pathogen <i>Penicillium expansum</i>	103,333	51,666

*PI = Principal Investigator

B. Nationally Peer Reviewed Grants:

Year	Granting Source	Duration (years)	Role*	Title (short)	Budget (US \$ / year)	
					Total	Researcher
2015	Chief Sci.	3	CI	The mechanism of mycotoxin accumulation in fresh fruits	42,857	38,570
2016	Chief Sci.	2	PI	Mycotoxin prevention in wheat grain for food and feed	42,857	22,857
2017	Chief Sci.	3	PI	Dynamics of mycotoxin accumulation in cattle feeds	54,285	32,857
2018	Chief Sci.	3	PI	Analysis of stored wheat grain microbiome	57,142	42,857
2018	Chief Sci.	3	CI	Real-Time mycotoxins detection based on novel optical platform	57,142	6,857
2019	Chief Sci.	3	CI	Detection, quantification and characterization of fungal molds and mycotoxins from commercial floral medical cannabis	62,850	20,000
2019	Chief Sci. (Noah's ark)	3	CI	Development of a biological control product to protect agricultural crops against mycotoxigenic fungi	62,850	20,000
2020	Chief Sci.	3	PI	Development of biocontrol products for the management of fungal infections and mycotoxins in groundnuts	62,850	42,857

*PI = Principal Investigator; CI = Cooperating Investigator

C. National Non-Peer Reviewed Grants:

Year	Granting Source	Duration (years)	Role*	Title (short)	Budget (US \$ / year)	
					Total	Researcher
2018	Council for Groundnut Production	1	PI	Isolation and identification of mycotoxigenic fungi and mycotoxins in Peanuts	18,000	18,000
2019	Council for Groundnut Production	1	PI	Mycotoxigenic fungi and mycotoxins in groundnuts - monitoring, surveillance and prevention	24,285	24,285
2020	Council for Groundnut Production	1	PI	Development of biocontrol and natural products to reduce/prevent aflatoxin infections in groundnuts	14,285	14,285

*PI = Principal Investigator

9. Awards

Dates	Description
2007	Recipient of the NIH Visiting Program Award

Part II: LIST OF PUBLICATIONS

1. **Sionov, E.**, Sandovsky-Losica, H., Gov, Y. and Segal, E. (2001). Adherence of *Aspergillus* species to soft contact lenses and attempts to inhibit the adherence. *Mycoses*. 44: 464-471.
2. Rotman, S., Sandovsky-Losica, H., **Sionov, E.** and Segal, E. (2003). Effect of a chitin derivative in combination with cleaning and preservation solutions for contact lenses on adherence of fungi. *Mycoses*. 46: 90-95.
3. **Sionov, E.** and Segal, E. (2003). Polyene and cytokine treatment of experimental aspergillosis. *FEMS Immunol. Med. Microbiol.* 39: 221-227.
4. **Sionov, E.** and Segal, E. (2004). Treatment of murine systemic aspergillosis with polyene-intralipid admixtures. *Med. Mycol.* 42: 73-80.
5. **Sionov, E.**, Roth, D., Sandovsky-Losica, H., Kashman, Y., Rudi, A., Chill, L., Berdicevsky, I. and Segal, E. (2005). Antifungal effect and possible mode of activity of a compound from the marine sponge *Dysidea herbacea*. *J. Infect.* 50: 453-460.
6. **Sionov E.**, Mendlovic S. and Segal E. (2005). Experimental systemic murine aspergillosis: treatment with polyene and caspofungin combination and G-CSF. *J. Antimicrob. Chemother.* 56: 594-597.
7. **Sionov, E.**, Mendlovic, S. and Segal, E. (2006). Efficacy of amphotericin B or amphotericin B-intralipid in combination with caspofungin against experimental aspergillosis. *J. Infect.* 53: 131-139.
8. Takrouri, K., Oren, G., Polacheck, I., **Sionov, E.**, Shalom, E., Katzhendler, J. and Srebnik, M. (2006). Synthesis and antifungal activity of a novel series of alkyldimethylamine cyanoboranes and their derivatives. *J. Med. Chem.* 49: 4879-4885.
9. Adler, A., Hidalgo-Grass, C., Boekhout, T., Theelen, B., **Sionov, E.** and Polacheck, I. (2007). *Pichia farinosa* bloodstream infection in a lymphoma patient. *J. Clin. Microbiol.* 45: 3456-3458.
10. **Sionov, E.**, Chang, Y.C., Garraffo, H.M. and Kwon-Chung, K.J. (2009). Heteroresistance to fluconazole in *Cryptococcus neoformans* is intrinsic and associated with virulence. *Antimicrob. Agents Chemother.* 53: 2804-2815.
11. Ma, H., Hagen, F., Stekel, D.J., Johnston, S.A., **Sionov, E.**, Falk, R., Polacheck, I., Boekhout, T. and May, R.C. (2009). The fatal fungal outbreak on Vancouver Island is characterized by enhanced intracellular parasitism driven by mitochondrial regulation. *Proc. Natl. Acad. Sci. U. S. A.* 106: 12980-12985.
12. Eilenberg, H., Pnini-Cohen, S., Rahamim, Y., **Sionov, E.**, Segal, E., Carmeli, S. and Zilberstein, A. (2010). Induced production of antifungal naphthoquinones in the pitchers of the carnivorous plant *Nepenthes khasiana*. *J. Exp. Bot.* 61: 911-922.
13. **Sionov, E.**, Lee, H., Chang, Y.C. and Kwon-Chung, K.J. (2010). *Cryptococcus neoformans* overcomes stress of azole drugs by formation of disomy in specific multiple chromosomes. *PLoS Pathog.* 6: e1000848.
14. Choi, Y.H., Ngamskulrungrroj, P., Varma, A., **Sionov, E.**, Hwang, S.M., Carriconde, F., Meyer, W., Litvintseva, A.P., Lee, W.G., Shin, J.H., Kim, E.C., Lee, K.W., Choi, T.Y., Lee, Y.S. and Kwon-Chung, K.J. (2010). Prevalence of the VN1c genotype of *Cryptococcus*

- neoformans* in non-HIV-associated cryptococcosis in the Republic of Korea. *FEMS Yeast Res.* 10: 769-778.
15. Farber, S., Ickowicz, D., **Sionov, E.**, Kagan, S., Polacheck, I. and Domb, A.J. (2011). Galactomannan–amphotericin B conjugate: synthesis and biological activity. *Polym. Adv. Technol.* 22: 119-125.
 16. **Sionov, E.**, Chang, Y.C., Garraffo, H.M., Dolan, M.A., Ghannoum, M.A. and Kwon-Chung K.J. (2012). Identification of a *Cryptococcus neoformans* cytochrome P450 lanosterol 14 α -demethylase (Erg11) residue critical for differential susceptibility between fluconazole/voriconazole and itraconazole/posaconazole. *Antimicrob. Agents Chemother.* 56: 1162-1169.
 17. Ngamskulrungrroj, P., Chang, Y.C., **Sionov E.** and Kwon-Chung, K.J. (2012). The primary target organ of *Cryptococcus gattii* is different from that of *Cryptococcus neoformans* in a murine model. *MBio.* 3: 103-112.
 18. Kagan, S., Ickowicz, D., Shmuel, M., Altschuler, Y., **Sionov, E.**, Pitusi, M., Weiss, A., Farber, S., Domb, A.J. and Polacheck, I. (2012). Toxicity mechanisms of amphotericin B and its neutralization by conjugation with arabinogalactan. *Antimicrob. Agents Chemother.* 56: 5603-5611.
 19. **Sionov, E.**, Chang, Y.C. and Kwon-Chung, K.J. (2013). Azole heteroresistance in *Cryptococcus neoformans*: emergence of resistant clones with chromosomal disomy in the mouse brain during fluconazole treatment. *Antimicrob. Agents Chemother.* 57: 5127-5130.
 20. Kagan, S., Jabbour, A., **Sionov, E.**, Alquntar, A.A., Steinberg, D., Srebnik, M., Nir-Paz, R., Weiss, A. and Polacheck, I. (2014). Anti-*Candida albicans* biofilm effect of novel heterocyclic compounds. *J. Antimicrob. Chemother.* 69: 416-427.
 21. Ickowicz, D.E., Farber, S., **Sionov, E.**, Kagan, S., Hoffman, A., Polacheck, I. and Domb, A.J. (2014). Activity, reduced toxicity, and scale-up synthesis of amphotericin B-conjugated polysaccharide. *Biomacromolecules.* 15: 2079-2089.
 22. Hagen, F., Khayhan, K., Theelen, B., Kolecka, A., Polacheck, I., **Sionov, E.**, Falk, R., Parnmen, S., Lumbsch, H.T. and Boekhout, T. (2015). Recognition of seven species in the *Cryptococcus gattii*/*Cryptococcus neoformans* species complex. *Fungal Genet. Biol.* 78: 16-48.
 23. **Sionov, E.**, Mayer-Barber, K.D., Chang, Y.C., Kauffman, K.D., Eckhaus, M.A., Salazar, A.M., Barber, D.L. and Kwon-Chung, K.J. (2015). Type I IFN induction via poly-ICLC protects mice against cryptococcosis. *PLoS Pathog.* 11: e1005040.
 24. Barad, S., **Sionov, E.** and Prusky, D. (2016). Role of patulin in post-harvest diseases. *Fungal Biol. Rev.* 30: 24-32.
 25. Shimshoni, J.A., Cuneah, O., Sulyok, M., Krska, R., **Sionov, E.**, Barel, S. and Meller Harel, Y. (2017). Newly discovered ergot alkaloids in Sorghum ergot *Claviceps africana* occurring for the first time in Israel. *Food Chem.* 219: 459-467.
 26. Maor, U., Sadhasivam, S., Zakin, V., Prusky, D. and **Sionov, E.** (2017). The effect of ambient pH modulation on ochratoxin A accumulation by *Aspergillus carbonarius*. *World Mycotoxin J.* 10: 339-348.
 27. Sadhasivam, S., Britzi, M., Zakin, V., Kostyukovsky, M., Trostanetsky, A., Quinn, E. and **Sionov, E.** (2017). Rapid detection and identification of mycotoxigenic fungi and mycotoxins in stored wheat grain. *Toxins.* 9: E302. doi: 10.3390/toxins9100302.

28. Kumar, D., Barad, S., **Sionov, E.**, Keller, N.P. and Prusky, D. (2017). Does the host contribute to modulation of mycotoxin production by fruit pathogens? *Toxins*. 9: E280. doi: 10.3390/toxins9090280.
29. Chang, M., **Sionov, E.**, Khanal Lamichhane, A., Kwon-Chung, K.J. and Chang, Y.C. (2018). Roles of three *Cryptococcus neoformans* and *Cryptococcus gattii* efflux pump-coding genes in response to drug treatment. *Antimicrob. Agents Chemother.* 62: pii: e01751-17. doi: 10.1128/AAC.01751-17.
30. Tannous, J., Kumar, D., Sela, N., **Sionov, E.**, Prusky, D. and Keller, N.P. (2018). Fungal attack and host defense pathways unveiled in near avirulent interactions of *Penicillium expansum creA* mutants on apples. *Mol. Plant Pathol.* 19: 2635-2650. doi: 10.1111/mpp.12734.
31. Kumar, D., Tannous, J., **Sionov, E.**, Keller, N.P. and Prusky, D. (2018). Apple intrinsic factors modulating the global regulator, LaeA, the patulin gene cluster and patulin accumulation during fruit colonization by *Penicillium expansum*. *Front. Plant Sci.* 9:1094. doi: 10.3389/fpls.2018.01094.
32. Solanki, M.K., Abdelfattah, A., Britzi, M., Zakin, V., Wisniewski, M., Droby, S. and **Sionov, E.** (2019). Shifts in the composition of the microbiota of stored wheat grains in response to fumigation. *Front. Microbiol.* 10:1098. doi: 10.3389/fmicb.2019.01098.
33. Davis, M.J., Moyer, S., Hoke, E.S., **Sionov, E.**, Mayer-Barber, K.D., Barber, D.L., Cai, H., Jenkins, L., Walter, P.J., Chang, Y.C. and Kwon-Chung, K.J. (2019). Pulmonary iron limitation induced by exogenous type I IFN protects mice from *Cryptococcus gattii* independently of T cells. *MBio.* 10: pii: e00799-19. doi: 10.1128/mBio.00799-19.
34. Frimpong, G.K., Adekunle, A.A., Ogundipe, O.T., Solanki, M.K., Sadhasivam, S. and **Sionov, E.** (2019). Identification and toxigenic potential of fungi isolated from *Capsicum* peppers. *Microorganisms.* 7: pii: E303. doi: 10.3390/microorganisms7090303.
35. Sadhasivam, S., Shapiro, O.H., Ziv, C., Barda, O., Zakin, V. and **Sionov, E.** (2019). Synergistic inhibition of mycotoxigenic fungi and mycotoxin production by combination of pomegranate peel extract and azole fungicide. *Front. Microbiol.* 10:1919. doi: 10.3389/fmicb.2019.01919.
36. Barda, O., Maor, U., Sadhasivam, S., Bi, Y., Zakin, V., Prusky, D. and **Sionov, E.** (2020). The pH-responsive transcription factor PacC governs pathogenicity and ochratoxin A biosynthesis in *Aspergillus carbonarius*. *Front. Microbiol.* 11:210. doi: 10.3389/fmicb.2020.00210.
37. Tannous, J., Barda, O., Luciano-Rosario, D., Prusky, D., **Sionov, E.** and Keller, N.P. (2020). New insight into pathogenicity and secondary metabolism of the plant pathogen *Penicillium expansum* through deletion of the epigenetic reader SntB. *Front. Microbiol.* 11:610. doi: 10.3389/fmicb.2020.00610.
38. Segal, E., Frenkel, M., Yunik, Y., Fleker, M., Blum, S., **Sionov, E.**, Elad, D. and Serhan, H. (2020). Fungi in sands of Mediterranean beaches of Israel – relevance to human health and well being. *Mycoses.* doi: 10.1111/myc.13144. Online ahead of print.
39. Solanki, M.K., Droby, S. and **Sionov, E.** (2020). The wheat microbiome in relation to mycotoxin occurrence in stored grain: an overview. In: *Postharvest pathology: next generation solutions to reducing losses and enhancing safety* (D. Spadaro, S. Droby and M.L. Gullino, eds.), pp. 1-8. Springer International Publishing, Springer Nature Switzerland AG.

40. Maor, U., Barda, O., Sadhasivam, S., Bi, Y., Zakin, V., Prusky, D. and **Sionov, E.** (2020). Host factors modulating ochratoxin A biosynthesis during fruit colonization by *Aspergillus carbonarius*. *J. Fungi*. 7: 10. doi: 10.3390/jof7010010.
41. Maor, U., Barda, O., Sadhasivam, S., Bi, Y., Levin, E., Zakin, V., Prusky, D. and **Sionov, E.** (2021). Functional roles of LaeA, polyketide synthase and glucose oxidase in the regulation of ochratoxin A biosynthesis and virulence in *Aspergillus carbonarius*. *Mol. Plant Pathol.* 22: 117-129. doi: 10.1111/mpp.13013.
42. Prusky, D. and **Sionov, E.** (2021). Special issue "Interplay between fungal pathogens and harvested crops and fruits". *Microorganisms*. 9: 553. doi: 10.3390/microorganisms9030553.
43. Han, Z., Wang, Z., Bi, Y., Zong, Y., Gong, D., Wang, B., Li, B., **Sionov, E.** and Prusky, D. (2021). The effect of environmental pH during *Trichothecium roseum* (pers.:fr.) link inoculation of apple fruits on the host differential reactive oxygen species metabolism. *Antioxidants*. 10: 692. doi: 10.3390/antiox10050692.
44. Sadhasivam, S., Barda, O., Zakin, V., Reifen, R. and **Sionov, E.** (2021). Rapid detection and quantification of patulin and citrinin contamination in fruits. *Molecules*. 26: 4545. doi: 10.3390/molecules26154545.
45. Zhang, X., Zong, Y., Gong, D., Yu, L., **Sionov, E.**, Bi, Y. and Prusky, D. (2021). NADPH oxidase regulates the growth and pathogenicity of *Penicillium expansum*. *Front. Plant Sci.* 12: 696210. doi: 10.3389/fpls.2021.696210.
46. Solanki, M.K., Abdelfattah, A., Sadhasivam, S., Zakin, V., Wisniewski, M., Droby, S. and **Sionov, E.** (2021). Analysis of stored wheat grain-associated microbiota reveals biocontrol activity among microorganisms against mycotoxigenic fungi. *J. Fungi*. 7: 781. doi: 10.3390/jof7090781.