**Списък с научни трудове на проф. дбн Сорен Б. Хайрабедян**

**НАУЧНИ ТРУДОВЕ:**

**АВТОРЕФЕРАТИ НА ДИСЕРТАЦИОННИ ТРУДОВЕ:**

1. **Сорен Хайрабедян.** Дисертационен труд на тема „Ангиогенни фактори и туморни маркери при ендометриоза”, за присъждане на образователна и научна степен “Доктор” – 2006 г.
2. **Сорен Хайрабедян.** Дисертационен труд на тема „Роля на инфламазомната вродена имунна сигнализация за нарушаване на кръвно-тестисната бариера, като адаптивен механизъм, водещ до развитие на инфертилитет”, за присъждане на научна степен “Доктор на науките” – 2016 г.

**МОНОГРАФИЯ:**

1. **Сорен Хайрабедян.** „Роля на инфламазомната вродена имунна сигнализация за нарушаване на кръвно-тестисната бариера, като адаптивен механизъм, водещ до развитие на инфертилитет”, за присъждане на научна степен “ – 2021 г.

**ГЛАВИ ОТ КНИГИ:**

1. Krassimira Todorova and **Soren Hayrabedyan**. Handbook of Prostate Cancer Cell Research – Growth, Signaling and Survival. NOVA BIOMEDICAL. The Stem Cell Paradigm and Its Application to prostate Cancer – An Old and Young Idea. Chapter 3, 127-177., **2009**. ISBN: 978-1-60741-954-9. (Published by Nova Science Publishers, Inc. New York)
2. Ivailo Vangelov, Julieta Dineva, Krassimira Todorova, **Soren Hayrabedyan** and Maria D. Ivanova (**2012**). Ovarian Biomarkers in Infertility, Trends in Immunolabelled and Related Techniques, Eltayb Abuelzein (Ed.), ISBN: 978-953-51-0570-1, InTech, (<http://www.intechopen.com/books/trends-in-immunolabelled-and-related-techniques/ovarian-biomarkers-in-infertility>)
3. **Soren Hayrabedyan**, Krassimira Todorova. Recent Trends in Cancer Biology: Spotlight on Signaling Cascades and microRNAs. Cell Signaling Pathways and microRNAs in Cancer Biology. Chapter 14. “When the Molecules Start Playing Chess, or How MicroRNAs Acquire Dualistic Activity During Cancer Progression.” 1, Springer-Nature International Publishing AG, **2018**, ISBN:978-3-319-71552-0, DOI:10.1007/978-3-319-71553-7

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| **ПАТЕНТИ:** |  |  |
| • Дати |  | **2020** |
| • наименование |  | *Издаден от Национално патентно бюро “*МЕТОД И КИТ ЗА ОТКРИВАНЕ НА ОНКОФУЗИОНЕН ПРОТЕИН*”*, Заявител:ИБИР-БАН, Красимира Тодорова, **Сорен Хайрабедян**, Изобретатели: Красимира Тодорова, **Сорен Хайрабедян** |
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| • Дати |  | **2015, 2016** |
| наименование |  | *Издаден международен патент (Заявен в Американския патентен офис, издаден за САЩ, Европа и Евразия)* *- Pub. No. WO/2015/061483 (30.04.2015), International Application No.: PCT/US2014/061814:* “PIF-transfected cells and methods of use.” Inventors: Eytan R. Barnea, **Soren Bohos Hayrabedyan**. Applicant: BioIncept, Llc. (NJ, US) |

**ПУБЛИКАЦИИ В РЕФЕРИРАНИ И РЕЦЕНЗИРАНИ СПИСАНИЯ**

**СТАТИИ 60 (Общ IF – 96.851)**

**2021**

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**2020**

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**2019**

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**2004 - 2008**

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2. **Soren Hayrabedyan**, Ilka Tsvetkova, Radostina Tsvetankova, Albena Pamukova, Gabriel Elmadjian, Krassimira Todorova. Direct RNA sequencing of poly(A)+ and poly(A)- enriched transcriptome provides opportunity for studying the changes in mRNA / lncRNA landscape and epitranscriptomic modifications promoting cancer stemness and metastatic phenotype. *Nanopore Community Meeting 2020 online conference*. 01.12.2020 - 03.12.2020, London, United Kingdom, ***short video presentation & poster***
3. Krassimira Todorova, Ilka Tsvetkova, **Soren Hayrabedyan**. Sertoli cells have non-canonical functional inflammasome network, including Nlrp3 and Nlrc4, being able to potentially perturb the testis niche immune tolerance by differentially inflicting caspase-1-dependent cell death. *14th Congress of International Society for Immunology of Reproduction*. 13.11.2019 - 16.11.2019, Nara, Japan, ***poster***
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5. **Soren Hayrabedyan**. Role of inflammasome signaling in reproduction. *6th Black Sea International Immunology School*, 25.10.2019 - 27.10.2019, Teteven, Bulgaria, ***plenary lecture***
6. **Soren Hayrabedyan.** Immunological contribution of the father to successful implantation. *ESRI Summer School Athens 2019*. 04.10.2019 - 06.10.2019, Athens, Greece, ***invited plenary lecturer***
7. **Soren Hayrabedyan**, Krassimira Todorova. TLR4/NOD1-2 interplay in Sertoli cells modulates autophagyinflammasome interactions, autophagy flux, and perturbs testis niche immune tolerance and inflicts cell death via a noncanonical functional inflammasome network. *3rd TRANSAutophagy CA15138 Annual Meeting 2019*, 23.04.2019 - 25.04.2019, Sofia, Bulgaria, ***plenary lecture***
8. Albena Apostolova, Vladimir Stoev, Radostina Tsvetankova, Ilka Tsvetkova, **Soren Hayrabedyan**, Krassimira Todorova. Hsa-miR-141 rescue induces transcriptome and protein changes towards autophagy induction, innate immunity pathways modulation and suppresses pro-oncogenic transcriptional factors. *3rd TRANSAutophagy CA15138 Annual Meeting 2019*, 23.04.2019 - 25.04.2019, Sofia, Bulgaria, ***poster***
9. Leyla Askova, Ilka Tsvetkova, Elina Avramska, Krassimira Todorova, **Soren Hayrabedyan**. Induction of TLR4/NOD1 innate immunity pathways incur transcriptome and metabolic changes activating autophagy in Sertoli cells in the context of a functional non-canonical inflammasome network inflicting cell death. *3rd TRANSAutophagy CA15138 Annual Meeting 2019*, 23.04.2019 - 25.04.2019, Sofia, Bulgaria, ***poster***
10. **Hayrabedyan S.**, Todorova K. Advantages of Oxford Nanopore native molecule sequencing for personalized diagnostics and its application in Sertoli cell transcriptomics for innate immunity and inflammasome signaling research. 15th International Symposium for Immunology of Reproduction. “*50 Years of International Coordination Committee for Immunology of Reproduction*”, 15–17 June, 2018, Varna, Bulgaria, ***plenary lecture***
11. Barnea E.R., Mueller, M., Di Simone N., Fernandez, N., Vialard, F., **Hayrabedyan, S.** Paidas, M.J. PIF protective, immune regulatory and regenerative properties: translation to treatment of pregnancy and non -pregnancy related pathologies. 15th International Symposium for Immunology of Reproduction, 15–17 June, 2018, Varna, Bulgaria, ***plenary lecture***
12. Hakam M.S., Miranda-Sayago J.M., **Hayrabedyan S.,** Todorova K., Spencer P.S., Khayyat B., Jabeen A., Barnea E.R., Fernández N. Regulation of HLA gene products and progesterone during pregnancy development: Role of Preimplantation Factor, PIF. 15th International Symposium for Immunology of Reproduction, 15–17 June, 2018, Varna, Bulgaria, ***plenary lecture***
13. Sezer L., Avramska E., Todorova K., **Hayrabedyan S.** Innate immunity TLR4 receptor signaling modulates Sertoli cells metabolic profile and induced NF-κB in MAPK1-dependent manner. 15th International Symposium for Immunology of Reproduction, 15–17 June, 2018, Varna, Bulgaria, ***poster presentation***
14. Apostolova A., Sezer L., **Hayrabedyan S.,** Todorova K. MicroRNA15a could participate in prostate cancer progression by modulating cell proliferation and pro-inflammatory signaling. 15th International Symposium for Immunology of Reproduction, 15–17 June, 2018, Varna, Bulgaria, ***poster presentation***
15. Apostolova A., **Hayrabedyan S.,** Todorova K. Hsa-miR-141 whole transcriptome changes in prostate cancer metastasis with stem cell enriched phenotype – seeking for new markers for personalized medicine. 15th International Symposium for Immunology of Reproduction, 15–17 June, 2018, Varna, Bulgaria, ***poster presentation***
16. **Hayrabedyan S.** Advantages of native nanopore sequencing (Oxford Nanopore) for personalized diagnostics. 40 years sequencing - a new era in contemporary diagnostics and personalised medicine. Personalized Medicine School organized by the Bulgarian Association for Personalized Medicine (BAPEMED) and Medical University of Plovdiv, Plovdiv, Bulgaria, 3-7 Nov, 2017, ***plenary lecture***
17. Krassimira Todorova, **Soren Hayrabedyan**. Talk on Single cell resolution 3D compartmentalization analysis of inflammasome and autophagy interaction in Sertoli cells. Working Group 2 (WG2) "Strategies for Autophagy analyses and modulation" Meeting 1 of COST Action Transautophagy. 6-8 March, Tübingen, Germany, 2017
18. **Soren Hayrabedyan**, Elina Avramska, Krassimira Todorova. Single cell resolution 3D compart-mentalization analysis of inflammasome and autophagy interaction in Sertoli cells challenged with TLR4 and NOD1 ligands. First Joint WG Meetings and the second MC Meeting of the COST Action “European Network of Multidisciplinary Research and Translation of Au-tophagy knowledge” Warsaw, Poland, October 6-7th, 2016
19. Krassimira Todorova, **Soren Hayrabedyan**. Effect of Hsa-miR-204 on autophagy modulation in prostate cancer. First Joint WG Meetings and the second MC Meeting of the COST Action “European Network of Multidisciplinary Research and Translation of Autophagy knowledge” Warsaw, Poland, October 6-7th, 2016
20. Krassimira Todorova, **Soren Hayrabedyan**. Cancer Stem Cells. Bulgarian Academy of Sciences. Exhibition on „Scientific view on stem cells “, 21st – 26th of April, 2016
21. G. Di Sante, G. Migliara, A. Piermattei, M. Valentini, **S. Hayrabedyan**, M. Foti, G. Constantin, M. Geloso, G. Delogu, F. Ria; A single non-synonimous polymorphism of Toll Like Receptor 2 modifies a binding site for small ligands, alters Th1/Th17 and Treg polarization of T cells and modifies clinic outcome of EAE, 4th European Congress of Immunology - ECI, 2015 - Vienna, Austria
22. G. Di Sante, M. Valentini, G. Migliara, A. Piermattei, B. Tolusso, G. Constantin, E. Stigliano, M. Geloso, **S. Hayrabedyan**, G. Delogu, F. Ria; Involvement of infectious agents on trafficking of effector T cells is mediated by a polymorphic site of TLR2 and CD44 isoforms expression. 4th European Congress of Immunology - ECI, 2015 - Vienna, Austria
23. Kristiyan Kanev, Elina Avramska, Krassimira Todorova, **Soren Hayrabedyan**. Application of 3D quantitative DNA methylation imaging for studying the global methylation status in Sertoli cells. Workshop of Experimental methods and models in biomedical research. May, 2015, Sofia.
24. ER Barnea, **S Hayrabedyan**, K Todorova, A Cooper. PIF regulates immune response in vitro and in vivo by targeting insulin degrading enzyme (IDE) and Kv1.3b proteins. 14th International Symposium for Immunology of Reproduction, Varna, Bulgaria, 2015, Am J Reprod Imunology (IF 2.438), ***plenary lecture***
25. **S Hayrabedyan**, M Metodiev, G Metodieva, A Jabeen, N Fernandez, K Todorova. Role of TLR4 and NOD1 signaling in Sertoli cell innate immunity in regard to male infertility. Sertoli inflammasome and beyond. 14th International Symposium for Immunology of Reproduction, Varna, Bulgaria, 2015, Am J Reprod Imunology (IF 2.438), ***plenary lecture***
26. K Todorova, **S Hayrabedyan**. miR-204 driven epigenetic regulation of androgen receptor. 14th International Symposium for Immunology of Reproduction, Varna, Bulgaria, 2015, Am J Reprod Imunology (IF 2.438), ***poster***
27. Todorova K, **Hayrabedyan S**. Genome disarrangement cell line models reveal an epigenetically driven miR-204 regulation of androgen receptor. EPICONCEPT Workshop 2014. Las Palmas, Spain 07 - 09 May 2014, ***poster***
28. **Hayrabedyan S**, Avramska E, Kacheva D, Kistanova E, Todorova K. DNA methylation landscape in Sertoli cells play role in its specific inflammasome regulation with implications to male fertility. EPICONCEPT Workshop 2014. Las Palmas, Spain 07 - 09 May 2014, ***poster***
29. Kanev K., Avramska E., Todorova K., **Hayrabedyan S**. Application of 3D image based assessment for studyng the impact of innate immunity signaling on global methylation status. 6th EFIS-ESI SEEIS. Timisoara. Romania. 26-29.09.2014***, poster***
30. **Soren B. Hayrabedyan**, Krassimira O. Todorova, Eytan R. Barnea. Structural design-based preimplantation factor (PIF\*) fusion peptide synthetic DNA cloning and eukaryote expression aimed for functional proteomic studies and possible chronic immune disorders therapy. Journal of Reproductive Immunology 101–102 (2014) 18–39. ESRI meeting, Budapest, Hungary, 29.03-1.04.2014, IF 2.373***, poster***
31. **Soren B. Hayrabedyan**, David Kirk, Krassimira O. Todorova, Eytan R. Barnea. Preimplantation factor (PIF\*) shares a common RIPK target to regulate global immune function required for maintained homeostasis. Journal of Reproductive Immunology 101–102 (2014) 18–39. ESRI meeting, Budapest, Hungary, 29.03-1.04.2014, IF 2.373, ***oral presentation***
32. Jabeen Asma, Boguslaw Obara, **Soren Hayrabedyan**, Soukaina M. Hakam, Jain Pallavi, Patrick S. Spencer, Pierre P. Laissue, Fernández Nelson. Effect of infection on heterotypic associations of immune receptors expressed on trophoblast-derived cells. Journal of Reproductive Immunology 101–102 (2014) 18–39. ESRI meeting, Budapest, Hungary, 29.03-1.04.2014, IF 2.373
33. Elina Avramska, **Soren Hayrabedyan**. TESTICULAR SERTOLI CELL FUNCTIONS. DIFFERENCES IN THE MODE OF PHAGOCYTOSIS OF BACTERIA BETWEEN MACROPHAGES AND SERTOLI CELLS. THE FIFTH WORKSHOP ON EXPERIMENTAL MODELS AND METHODS IN BIOMEDICAL RESEARCH. ISSN 1314-9091. Sofia, 2014
34. **Soren Hayrabedyan**, Krasimira TODOROVA. Micro RNA Based Therapy of Cancer: Rationale, Current State of the Art and Future Perspectives. TOGETHER IN CANCER CONTROL: IMMUNOLOGY, VIRUSES, NATURAL REMEDIES. THE 8 -Th MEETING WITH INTERNATIONAL PARTICIPATION - Hasumi foundation. PLEVEN 24-25.10. 2014, ***plenary lecture***
35. K. Todorova, M. Mincheff, **S. Hayrabedyan**. miR-204 Regulatory Interaction Network affect c-Myb Transcriptional Activation in Prostate Cancer Cell Line Model. Oncoimmunology - new horison. Hasumi founation. The 6-th meeting with international participation. 26-27.10.2012 Pleven Bulgaria, ***plenary lecture***
36. **Hayrabedyan S**., Todorova K., Jabeen A., Pashova Sh., Zasheva D., Manolova N., Fernández. N., Mollova M. The role of the Nucleotide-binding oligomerization domain-containing protein 1 in the mouse Sertoli cell innate immunity and signaling. 13th International Symposium for Immunology of Reproduction, Varna, Bulgaria, 2012, AmJReprod Imunology IF 3.317 – ***plenary lecture***
37. Todorova K., Zasheva D.1, Manolova N., Mincheva J., Mincheff M., **Hayrabedyan S**. MiR-204 and miR-15a regulative interaction of c-Myb transcriptional activation in prostate cancer cell lines. 13th International Symposium for Immunology of Reproduction, Varna, Bulgaria, 2012, Am J Reprod Imunology IF 3.317 – ***oral presentation***
38. **Hayrabedyan S.,** Todorova K., Zasheva D., Moyankova D., Georgieva D., Todorova J., Mladenov P., Djilianov D. Anti-oxidative, genotoxic and inflammatory signaling modulation effects of Haberlea rhodopensis extract in prostate cancer. 13th International Symposium for Immunology of Reproduction, Varna, Bulgaria, 2012, Am J Reprod Imunology IF 3.317 – ***poster***
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41. Manolova N., **Hayrabedyan S**., Zasheva D., Belemezova K., Mourjeva M., Kyurkchiev St., Stamenova M. In search of factors in endometriosis peritoneal fluid that decreased decidualization process. 13th International Symposium for Immunology of Reproduction, Varna, Bulgaria, 2012, Am J Reprod Imunology IF 3.317, Poster young scientist award received
42. B. Georgiev, S**. Hayrabedyan**, K. Todorova, D. Zasheva, P. Taushanova, D. Kacheva, PJ Hansen. Boar Sperm Proteins as Potential Fertility Markers. 13th International Symposium for Immunology of Reproduction, Varna, Bulgaria, 2012, ***poster***
43. Todorova K., **Hayrabedyan S.,** Dineva J., Vangelov I., Ivanova M., Mollova M. Gene panel in human cumulus cells as biomarker for successful in vitro procedures. ESHRE. Copenhagen, Denmark, 23-27 August, 2011, IF 2.966 – ***poster***
44. K. Vitlianova, T.I. Donova, **S. Hairabedian**, Metaloproteinase -9 correlates independently with obstructive pulmonary disease in chronic heart failure patients. P3509; ESC Congress 2011, France, 27-31 August, 2011 – ***poster***
45. Katerina D. Vitlianova, Temenuga I. Donova, **Soren Hairabedian**. Plasma hemoxygenase-1 depends on left ventricle dilatation in chronic heart failure patients. Устен докладs From the WORLD CONGRESS OF CARDIOLOGY. Scientific Sessions 2012, Dubai, United Arab Emirates, April 18-21,2012. Abstract published in Circulation.2012;125:e659-e740;originallypublishedonlineApril15,2012;doi:10.1161/CIR.0b013e31824fcd6b - ***oral presentation, IF 15.202***
46. **Soren Hayrabedyan**. Hospital information system at St. Ekaterina Hospital. National conference, 17.06.2010 Sofia – ***plenary lecture***
47. Karaivanov M., Todorova K., **Hayrabedyan S.** Immunohistochemical quantitative assessment of the expression of GSTP1, iNOS and COX-2 in PIA, PIN AND carcinoma in the prostate gland. 3rd Intercontinental Congress of Pathology, May 18-21, 2008, Barcelona, Spain; Virchows Arch, 452(Suppl 1):S1–S286 (2008). ISSN: 0945-6317. IF – 2.305 – ***poster***
48. Karaivanov M., K. Todorova, **S. Hayrabedyan,** V. Ivanova, A. Kuzmanov, I. Kehayov, S. Kyurkchiev. Differential diagnosis and predicative significance of AMACR and p63 in PIA, PIN and prostate carcinoma. IX National congress of pathology with international participants. 2-4 November 2006, Sofia, Bulgaria – ***poster***
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50. **Hayrabedyan S**, S. Kyurkchiev, I. Kehayov. Pro-angiogenic factors FGF-1 and S100A13 are over-expressed in endometriosis and positively correlate with the expression of the neo-angiogenic marker – endoglin. 11th International Symposium of Immunology of Reproduction. Varna, Bulgaria, June 2-4, 2006 – ***poster***
51. Karaivanov M., A. Kuzmanov, K. Todorova, **S. Hayrabedyan**, I. Kehayov, S. Kyurkchiev. Oxydative stress in PIA, PIN and PCA – immunohistochemical study on the expression of GSTP1 and COX-2. 11th International Symposium of Immunology of Reproduction. Varna, Bulgaria, June 2-4, 2006 – ***poster***
52. Todorova K., M. Karaivanov, A. Kuzmanov, **S. Hayrabedyan**, I. Kehayov, S. Kyurkchiev. Immunohistochemical comparative analysis of the expression of AMACR and p63 in PIA, PIN and PCA: diferential diagnosis and predicative significance. 11th International Symposium of Immunology of Reproduction. Varna, Bulgaria, June 2-4, 2006 – ***poster***
53. **Hayrabedyan S**., Ivanova, V., Kuyrkchiev S., Kehayov I.: Quantitative Immunohistochemistry approach for evaluation of the angiogenic status in cases of endometriosis. Third medical scientific conference for students and young doctors. 14-16 October 2004, Pleven, Bulgaria – ***oral presentation***
54. **Hayrabedyan S**., S. Kyurkchiev, I. Kehayov: Quantitative angiogenesis evaluation in endometriosis. 1st Balkan Congress of Reproductive Medicine, September 24-26 2004, Thessaloniki. Greece – ***oral presentation***
55. **Hayrabedyan S**., Ivanova V., Kyurkchiev S., Kehayov I. Tumor markers and angiogenic factors expression and angiogenic status evaluation in patients with adenomyosis and endometrial carcinoma. Immunological Days in Pleven, Pleven, Bulgaria, 20-23 May, 2004 – ***oral presentation***
56. **Hayrabedyan S**., M. Mourdjeva, S. Kyurkchiev, I. Kehayov: Angiogenic factors and ovarian-cancer specific antigen expressed in several cases of endometriosis. Hippokration congress on reproductive immunology. The 4th Congress of the European society for reproductive and development immunology. June 4-6, 2003 Rhodes – ***poster***
57. **Hayrabedyan S**., M. Mourdjeva, S. Kyurkchiev, I.Kehayov: Immunostaining pattern of severa langiogenic factors– FGF-1, IL-1α, S100A13 and endoglin in endometriosis and ovarian carcinoma. 10th Jubilee International Symposium of Immunology Reproduction, 4-6 September 2003, Varna, Bulgaria – ***oral presentation***
58. **Hayrabedyan S**., Mourdjeva M., Ivanova V., Kyurkchiev S., Kehayov I. Tumor and angiogenic markers localization in formalin-fixed paraffin embedded tissue sections from endometriosis. 2nd National Congress of Immunology, Sofia, 29 May – 1 June, 2003 – ***poster***