

## Assoc. Prof. FATİMA SUSANNA F. AERTS KAYA

### Personal Information

**Office Phone:** [+90 312 305 2821](tel:+903123052821) Extension: 159

**Email:** fatima.aerts@hacettepe.edu.tr

**Web:** <https://avesis.hacettepe.edu.tr/fatima.aerts>

**Address:** Hacettepe Üniversitesi Kök Hücre Bilimleri AD Kök Hücre Araştırma ve Uygulama Merkezi 06100 Sıhhiye Ankara

### International Researcher IDs

ORCID: 0000-0002-9583-8572

Yoksis Researcher ID: 277458

### Education Information

Doctorate, Erasmus Universiteit Rotterdam, Molecular Medicine, Netherlands 2005 - 2010

Undergraduate, Erasmus Universiteit Rotterdam, Tıp, Netherlands 1994 - 2000

### Foreign Languages

English, C1 Advanced

### Dissertations

Doctorate, Radioprotective agents stimulating hematopoietic stem cell reconstitution. A translational approach., Erasmus Universiteit Rotterdam, Erasmus Medical Center, Molecular Medicine, 2010

### Research Areas

Medicine, Health Sciences, Fundamental Medical Sciences, Medical Biology

### Academic Titles / Tasks

Associate Professor, Hacettepe University, Sağlık Bilimleri Enstitüsü, Kök Hücre Bilimleri A.B.D., 2021 - Continues

Assistant Professor, Hacettepe University, Sağlık Bilimleri Enstitüsü, Kök Hücre Bilimleri A.B.D., 2015 - 2021

Lecturer PhD, Hacettepe University, Sağlık Bilimleri Enstitüsü, Kök Hücre Bilimleri A.B.D., 2011 - 2015

### Courses

KÖK HÜCRE LABORATUVAR YÖNTEMLERİ I, Doctorate, 2019 - 2020, 2018 - 2019

Mecmua Klubu I, Doctorate, 2019 - 2020, 2018 - 2019

REJENARATİF TIPTA KÖK HÜCRE VE GEN TEDAVİLERİ, Doctorate, 2019 - 2020

## Advising Theses

- Aerts Kaya F. S. F., Optimization of Hematopoietic Stem Cell Gene Therapy Culture Conditions and Engraftment , Postgraduate, M.Emin(Student), 2021
- Aerts Kaya F. S. F., Assessment of the role and antioxidative and antiapoptotic effects of delta-opioid peptide d-ala2-leu5-enkephalin on the viability of hematopoietic stem cells, Postgraduate, A.MAMMADOVA(Student), 2019
- Aerts Kaya F. S. F., Yanık T., Assessment of the role of neuropeptide y in the regulation of hematopoietic stem cells, Doctorate, B.ULUM(Student), 2019
- Aerts Kaya F. S. F., Griscelli sendromu uyarılmış pluripotent kök hücre geliştirilmesi, karakterizasyonu ve in vitro hematopoetik farklılaşması, Doctorate, G.ESKEN(Student), 2018
- Aerts Kaya F. S. F., Değişik kaynaklı MKH'lerin detaylı karakterizasyonu, lenfohematopoezi destekleyici özellikleri ve izolasyonunda cd271 antijeninin önemi, Doctorate, G.AYDIN(Student), 2018
- Aerts Kaya F. S. F., Özbek E., Isı Şok Protein 10 (Hsp10)'un Mezenkimal Kök Hücrelerin İmmün Modülasyonundaki Rolünün Araştırılması, Postgraduate, A.SARIKAYA(Student), 2018
- Aerts Kaya F. S. F., Analyse de la Niche Hematopoietique Humaine: Expression de PDGF et de son Recepteur., Postgraduate, G.Güney(Student), 2014

## Jury Memberships

- Post Graduate, Post Graduate, Hacettepe Üniversitesi, August, 2021
- Post Graduate, Post Graduate, Hacettepe Üniversitesi, August, 2021
- Post Graduate, Post Graduate, Hacettepe Üniversitesi, September, 2020
- Doctoral Examination, Doctoral Examination, Hacettepe Üniversitesi, August, 2020
- Doctoral Examination, Doctoral Examination, Hacettepe Üniversitesi, August, 2020
- Post Graduate, Post Graduate, Hacettepe Üniversitesi, August, 2019
- Doctoral Examination, Doctoral Examination, Hacettepe Üniversitesi, August, 2019
- Post Graduate, Post Graduate, Hacettepe Üniversitesi, July, 2019
- Doctorate, Doctorate, Hacettepe Üniversitesi, June, 2019
- Post Graduate, Post Graduate, Orta Doğu Teknik Üniversitesi, January, 2019
- Post Graduate, Post Graduate, Orta Doğu Teknik Üniversitesi, January, 2019
- Doctorate, Doctorate, Hacettepe Üniversitesi, October, 2018
- Post Graduate, Post Graduate, İhsan Doğramacı Bilkent Üniversitesi, July, 2018
- Doctorate, Doctorate, Hacettepe Üniversitesi, July, 2018
- Post Graduate, Post Graduate, Sakarya Üniversitesi, April, 2018
- Doctorate, Doctorate, Hacettepe Üniversitesi, January, 2018
- Doctorate, Doctorate, Hacettepe Üniversitesi, March, 2017
- Doctoral Examination, Doctoral Examination, Hacettepe Üniversitesi, January, 2016
- Doctoral Examination, Doctoral Examination, Hacettepe Üniversitesi, January, 2016
- Doctoral Examination, Doctoral Examination, Hacettepe Üniversitesi, September, 2015

## Published journal articles indexed by SCI, SSCI, and AHCI

- I. **The Role of Rab GTPases in the development of genetic and malignant diseases.**  
Erol Ö. D., Şenocak Ş., Aerts-Kaya F. S. F.  
Molecular and cellular biochemistry, vol.479, no.2, pp.255-281, 2024 (SCI-Expanded)
- II. **Gene and Cellular Therapies for Leukodystrophies**  
Aerts Kaya F. S. F., Van Til N. P.  
PHARMACEUTICS, vol.15, no.11, pp.1-25, 2023 (SCI-Expanded)
- III. **Comparison of immune modulatory properties of human multipotent mesenchymal stromal cells**

**derived from bone marrow and placenta**

Sarikaya A., Aydın G., Ozyuncu O., Sahin E., Çetinkaya F. D., Aerts Kaya F. S. F.  
BIOTECHNIC & HISTOCHEMISTRY, vol.97, no.2, pp.79-89, 2022 (SCI-Expanded)

- IV. **Global miRNA expression of bone marrow mesenchymal stem/stromal cells derived from Fanconi anemia patients**  
Cagnan I., Keles M., Keskus A. G., Tombaz M., ŞAHAN Ö. B., AERTS KAYA F. S. F., ÇETİNKAYA F. D., KONU KARAKAYALI Ö., ÖZCAN A.  
HUMAN CELL, vol.35, no.1, pp.111-124, 2022 (SCI-Expanded)
- V. **Effects of storage media, supplements and cryopreservation methods on quality of stem cells**  
Erol O. D., Pervin B., Seker M. E., Aerts-Kaya F. S. F.  
WORLD JOURNAL OF STEM CELLS, vol.13, no.9, 2021 (SCI-Expanded)
- VI. **Development, characterization, and hematopoietic differentiation of Griscelli syndrome type 2 induced pluripotent stem cells.**  
Güney-Esken G., Erol Ö. D., Pervin B., Gürhan Sevinç G., Önder T., Bilgiç E., Korkusuz P., Günel-Özcan A., Uçkan-Çetinkaya D., Aerts-Kaya F. S. F.  
Stem cell research & therapy, vol.12, no.1, pp.287, 2021 (SCI-Expanded)
- VII. **Strategies to Protect Hematopoietic Stem Cells from Culture-Induced Stress Conditions.**  
Aerts-Kaya F. S. F.  
Current stem cell research & therapy, vol.16, pp.755-770, 2021 (SCI-Expanded)
- VIII. **Stem Cell Applications in Lysosomal Storage Disorders: Progress and Ongoing Challenges.**  
Köse S., Aerts-Kaya F. S. F., Uçkan Çetinkaya D., Korkusuz P.  
Advances in experimental medicine and biology, vol.1347, pp.135-162, 2021 (SCI-Expanded)
- IX. **CXCR4 expression by mesenchymal stromal cells is lost after use of enzymatic dissociation agents, but preserved by use of non-enzymatic methods.**  
Pervin B., Aydın G., Visser T., Uçkan-Çetinkaya D., Aerts-Kaya F. S. F.  
International journal of hematology, vol.113, pp.5-9, 2021 (SCI-Expanded)
- X. **G-CSF treatment of healthy pediatric donors affects their hematopoietic microenvironment through changes in bone marrow plasma cytokines and stromal cells.**  
Aerts-Kaya F. S. F., Kilic E., Köse S., Aydın G., Cagnan I., Kuskonmaz B., Uçkan-Cetinkaya D.  
Cytokine, vol.139, pp.155407, 2020 (SCI-Expanded)
- XI. **SUL-109 Protects Hematopoietic Stem Cells from Apoptosis Induced by Short-Term Hypothermic Preservation and Maintains Their Engraftment Potential.**  
Aerts-Kaya F. S. F., Visser T., Pervin B., Mammadova A., Özyüncü Ö., Wagemaker G., Uçkan-Çetinkaya F. D.  
Biology of blood and marrow transplantation : journal of the American Society for Blood and Marrow Transplantation, vol.26, no.4, pp.634-642, 2020 (SCI-Expanded)
- XII. **Neuropeptide Y is involved in the regulation of quiescence of hematopoietic stem cells**  
Ulum B., Mammadova A., Özyüncü Ö., Uçkan-Cetinkaya D., Yanık T., Aerts-Kaya F. S. F.  
NEUROPEPTIDES, vol.80, 2020 (SCI-Expanded)
- XIII. **Neurological Regulation of the Bone Marrow Niche**  
Aerts-Kaya F. S. F., Ulum B., Mammadova A., Köse S., Aydın G., Korkusuz P., Uçkan-Çetinkaya D.  
CELL BIOLOGY AND TRANSLATIONAL MEDICINE, VOL 6: STEM CELLS: THEIR HETEROGENEITY, NICHE AND REGENERATIVE POTENTIAL, vol.1212, pp.127-153, 2020 (SCI-Expanded)
- XIV. **Characterization of mesenchymal stem cells in mucopolidosis type II (I-cell disease)**  
Kose S., Aerts Kaya F. S. F., Kuskonmaz B. B., Uçkan Cetinkaya D.  
TURKISH JOURNAL OF BIOLOGY, vol.43, no.3, pp.171-178, 2019 (SCI-Expanded)
- XV. **Bone marrow mesenchymal stem cell donors with a high body mass index display elevated endoplasmic reticulum stress and are functionally impaired**  
ULUM B. B., TEKER H. T., SARIKAYA A., BALTA G., Kuskonmaz B., UÇKAN-CETINKAYA D., AERTS-KAYA F. S. F.  
JOURNAL OF CELLULAR PHYSIOLOGY, vol.233, no.11, pp.8429-8436, 2018 (SCI-Expanded)
- XVI. **B lymphocyte subsets and outcomes in patients with an initial diagnosis of transient hypogammaglobulinemia of infancy**

- Eroglu F. K., Kaya F. S. F., Cagdas D. N., Ozgur T. T., Yilmaz T., Tezcan I., Sanal O.  
SCANDINAVIAN JOURNAL OF IMMUNOLOGY, vol.88, no.4, 2018 (SCI-Expanded)
- XVII. **Automated washing of long-term cryopreserved peripheral blood stem cells promotes cell viability and preserves CD34+ cell numbers**  
Aerts-Kaya F. S. F., Koca G., Sharafi P., Sayla F. C., Uckan-Cetinkaya D., Ozdemir E.  
BONE MARROW TRANSPLANTATION, vol.53, no.9, pp.1225-1227, 2018 (SCI-Expanded)
- XVIII. **Bone Marrow Mesenchymal Stem Cells Carrying FANCD2 Mutation Differ from the Other Fanconi Anemia Complementation Groups in Terms of TGF-beta 1 Production**  
CAGNAN I., GUNEL-OZCAN A., AERTS-KAYA F. S. F., Ameziane N., Kuskonmaz B., Dorsman J., GÜMRÜK F., UCKAN D.  
STEM CELL REVIEWS AND REPORTS, vol.14, no.3, pp.425-437, 2018 (SCI-Expanded)
- XIX. **Human bone marrow mesenchymal stem cells secrete endocannabinoids that stimulate in vitro hematopoietic stem cell migration effectively comparable to beta-adrenergic stimulation**  
KOSE S., AERTS-KAYA F. S. F., Kopru C. Z., NEMUTLU E., Koskonmaz B., KARAOSMANOĞLU B., TASKIRAN E. Z., ALTUN B., CETINKAYA D. U., KORKUSUZ P.  
EXPERIMENTAL HEMATOLOGY, vol.57, pp.30-41, 2018 (SCI-Expanded)
- XX. **Stably expressed reference genes during differentiation of bone marrow-derived mesenchymal stromal cells**  
Cagnan I., Aerts Kaya F. S. F., Uckan D., Gunel Ozcan A.  
TURKISH JOURNAL OF BIOLOGY, vol.41, no.1, pp.88-97, 2017 (SCI-Expanded)
- XXI. **Evaluation of biocompatibility of random or aligned electrospun polyhydroxybutyrate scaffolds combined with human mesenchymal stem cells**  
KOSE S., AERTS KAYA F. S. F., DENKBAŞ E. B., KORKUSUZ P., ÇETİNKAYA F. D.  
TURKISH JOURNAL OF BIOLOGY, vol.40, no.2, pp.410-419, 2016 (SCI-Expanded)
- XXII. **Structural investigation of donor age effect on human bone marrow mesenchymal stem cells: FTIR spectroscopy and imaging**  
Aksoy C., Kaya F. A., KUŞKONMAZ B. B., Uckan D., Severcan F.  
AGE, vol.36, no.4, 2014 (SCI-Expanded)
- XXIII. **5-Androstene-3 beta,17 beta-diol Promotes Recovery of Immature Hematopoietic Cells Following Myelosuppressive Radiation and Synergizes With Thrombopoietin**  
Aerts-Kaya F. S. F., Visser T. P., Arshad S., Frincke J., Stickney D. R., Reading C. L., Wagemaker G.  
INTERNATIONAL JOURNAL OF RADIATION ONCOLOGY BIOLOGY PHYSICS, vol.84, no.3, 2012 (SCI-Expanded)
- XXIV. **Keratinocyte Growth Factor and Stem Cell Factor to Improve Thymopoiesis after Autologous CD34(+) Cell Transplantation in Rhesus Macaques**  
Wils E., Aerts-Kaya F. S. F., Rombouts E. J. C., van Mourik I., Rijken-Schelen A., Visser T. P., Braakman E., Wagemaker G., Cornelissen J. J.  
BIOLOGY OF BLOOD AND MARROW TRANSPLANTATION, vol.18, no.1, pp.55-65, 2012 (SCI-Expanded)
- XXV. **Mobilization of Hepatic Mesenchymal Stem Cells From Human Liver Grafts**  
Pan Q., Fouraschen S. M. G., Kaya F. S. F. A., Verstegen M. M., Pescatori M., Stubbs A. P., van IJcken W., van der Sloot A., Smits R., Kwekkeboom J., et al.  
LIVER TRANSPLANTATION, vol.17, no.5, pp.596-609, 2011 (SCI-Expanded)
- XXVI. **Lentiviral gene therapy of murine hematopoietic stem cells ameliorates the Pompe disease phenotype**  
van Til N. P., Stok M., Kaya F. S. F. A., de Waard M. C., Farahbakhshian E., Visser T. P., Kroos M. A., Jacobs E. H., Willart M. A., van der Wegen P., et al.  
BLOOD, vol.115, no.26, pp.5329-5337, 2010 (SCI-Expanded)
- XXVII. **Mesenchymal stem cell studies in children with inherited diseases: A proposal for identification of candidate diseases for mesenchymal stem cell therapies (PEDI-STEM project)**  
Uckan D., Kilic E., Aerts F. S. F., Cetin M., Gumruk F., Tezeaner A.  
CYTOTHERAPY, vol.8, 2006 (SCI-Expanded)

## Articles Published in Other Journals

- I. **Modelling of rare diseases with induced pluripotent stem cells**  
Erol Ö. D., Şeker M. E., Aerts Kaya F. S. F.  
Türkiye Klinikleri Tıbbi Genetik - Kök Hücre ve Rejeneratif Tıp , vol.1, pp.10-17, 2021 (Non Peer-Reviewed Journal)
- II. **Hematopoietic Stem Cell Gene Therapy for Inherited Monogenic Diseases and Its Implications for Future Gene Therapy Trials in Turke**  
Güney E. G., Erol Ö. D., AERTS KAYA F. S. F.  
Trakya University Journal of Natural Sciences, vol.20, pp.17-32, 2020 (ESCI)
- III. **Göbek kordon kanı hayat kurtarabilir atmayın, bağışlayın!**  
AERTS KAYA F. S. F.  
Bilim ve Utopya, vol.24, no.284, pp.26-30, 2018 (Non Peer-Reviewed Journal)
- IV. **Hematopoetik ve Mezenkimal Kök Hücreler**  
AERTS KAYA F. S. F., ÇELEBİ SALTIK B.  
Turkiye Klinikleri J Plast Surg-Special Topics, vol.4, no.3, pp.11-18, 2015 (Non Peer-Reviewed Journal)

## Books & Book Chapters

- I. **Hematopoetik kök hücreler ve Hematopoez**  
AERTS KAYA F. S. F., Kansu E.  
in: İç Hastalıkları Kitabı, bölüm 2, Gürler İliçin, Kadir Biberoglu, Gültekin Süleymanlar, Serhat Ünal, Editor, Güneş Tıp Kitapevleri Yayınevi, pp.1477-1486, 2023
- II. **Generation and Hematopoietic Differentiation of Mesenchymal Stromal/Stem Cell-Derived Induced Pluripotent Stem Cell Lines for Disease Modeling of Hematopoietic and Immunological Diseases**  
Güney-Esken G., Aerts Kaya F. S. F.  
in: Methods in Molecular Biology, Kursad Turksen, Editor, Springer, London/Berlin , Berlin, pp.1-21, 2021
- III. **Stem Cell Applications In Lysosomal Storage Disorders: Progress And Ongoing Challenges.**  
KÖSE S., AERTS KAYA F. S. F., ÇETİNKAYA F. D., KORKUSUZ P.  
in: Advances in Experimental Medicine and Biology series, Cell Biology and Translational Medicine, Kürsad Türksen, Editor, Springer, pp.1-28, 2021
- IV. **Neurological regulation of the bone marrow niche**  
AERTS KAYA F. S. F., Ulum B., Mammadova A., KÖSE S., Aydın G., KORKUSUZ P., ÇETİNKAYA F. D.  
in: Cell Biology and Translational Medicine Volume 6, Kursad Türksen, Editor, Springer, pp.127-153, 2020
- V. **Kalp yetmezliğinde kök hücre uygulamaları**  
AERTS KAYA F. S. F., ÇETİNKAYA F. D.  
in: Kalp yetmezliği Cep Kitabı, Oto A., Kaya E.B., Aytemir K., Editor, Erkem Tıbbi Yayıncılık, Ankara, pp.173-183, 2016
- VI. **Radioprotective agents stimulating hematopoietic stem cell reconstitution. A translational approach.**  
AERTS KAYA F. S. F.  
Optima Grafi Sche Communicatie, Rotterdam, 2010
- VII. **Immune modulation in gene therapy studies. Points to consider for Environmental Risk Assessment.**  
AERTS KAYA F. S. F., Kaptein L., Wagemaker G.  
Erasmus University, Rotterdam, 2010
- VIII. **Mesenchymal Stem Cell Engineering and Transplantation**  
AERTS KAYA F. S. F., Wagemaker G.  
in: Genetic Engineering of Mesenchymal Stem Cells, Jan Nolte, Editor, Elsevier, pp.1-45, 2010
- IX. **Mesenchymal stem cell engineering and transplantation**  
AERTS KAYA F. S. F., Wagemaker G.  
in: Genetic engineering of mesenchymal stem cells, Nolte J.A., Editor, Elsevier Science, Oxford/Amsterdam , Amsterdam, pp.1-45, 2004

## Refereed Congress / Symposium Publications in Proceedings

- I. **Non-myelotoxic agents can be used as conditioning before hematopoietic stem cell gene therapy**  
ŞEKER M. E., EROL DUYAR Ö. D., PERVİN B., AERTS KAYA F. S. F.  
18. Tıbbi biyoloji ve genetik kongresi, Ankara, Turkey, 26 - 29 October 2023, vol.2
- II. **In vitro modeling of acute graft versus host disease using Rag2<sup>-/-</sup> mouse colonoids**  
PERVİN B., GİZER M., Sarı İ., GÜR S. N., POLAT E. G., ŞEKER M. E., EROL DUYAR Ö. D., DEĞİRMENCİ UZUN B., KORKUSUZ P., AERTS KAYA F. S. F.  
18. Tıbbi biyoloji ve genetik kongresi, 26 - 29 October 2023, vol.2, pp.48
- III. **CXCR4 expression is critical for migration of BM-MSCs, but not for regeneration of intestinal damage**  
PERVİN B., GİZER M., ŞEKER M. E., EROL DUYAR Ö. D., DEĞİRMENCİ UZUN B., KORKUSUZ P., AERTS KAYA F. S. F.  
18. Tıbbi biyoloji ve genetik kongresi, 26 - 29 October 2023, vol.2, pp.46
- IV. **RAB27A Gen Tedavisinin Olası Tümörjenik Etkilerinin İncelenmesi**  
EROL DUYAR Ö. D., ŞEKER M. E., PERVİN B., ÖZÇİMEN B., ŞENOCAK Ş., GİZER M., KORKUSUZ P., KILIÇ H. B., KOCAEFE Y. Ç., AERTS KAYA F. S. F.  
18. Tıbbi biyoloji ve genetik kongresi, 26 - 29 October 2023, vol.2, pp.15
- V. **Hematopoietik kök hücre gen tedavisine hazırlık rejimi olarak miyelotoksik olmayan ilaçların kullanılması**  
ŞEKER M. E., EROL DUYAR Ö. D., PERVİN B., AERTS KAYA F. S. F.  
49 Yıllık THD kongresi, 01 November 2023 - 05 February 0023
- VI. **The role of in vitro and in vivo models in the development of gene therapy for immune deficiencies**  
AERTS KAYA F. S. F.  
18. Tıbbi biyoloji ve genetik kongresi, 26 - 29 October 2023
- VII. **Comparison of different methods for genetic correction of Griscelli Syndrome type II-derived stem cells**  
EROL DUYAR Ö. D., ŞEKER M. E., PERVİN B., ÖZÇİMEN B., ŞENOCAK Ş., GÜR S. N., KILIÇ H. B., GİZER M., KORKUSUZ P., KOCAEFE Y. Ç., et al.  
EHA annual meeting 2023, 08 June 2023, vol.7
- VIII. **Non-Myelotoxic Chemicals As A Preparatory Regimen For Hematopoietic Stem Cell Gene Therapy**  
ŞEKER M. E., EROL DUYAR Ö. D., PERVİN B., Wagemaker G., van Til N. P., AERTS KAYA F. S. F.  
EHA annual meeting 2023, 08 June 2023, vol.7
- IX. **Correction of RAB27A from Griscelli Syndrome Type II-derived Mesenchymal Stem Cells**  
EROL DUYAR Ö. D., ŞEKER M. E., AERTS KAYA F. S. F.  
ESGCT 2021 annual congress, 19 - 22 October 2021, vol.32
- X. **Neuropeptide Y plays a role in the regulation of proliferation and quiescence of HSCs**  
EROL Ö. D., ŞEKER M. E., PERVİN B., B. U., ÖZYÜNCÜ Ö., YANIK T., AERTS KAYA F. S. F.  
İstinye Üniversitesi Kök Hücre ve Doku Mühendisliği Sempozyumu, Çevrimiçi, Turkey, 27 - 28 February 2021
- XI. **Hematopoietik Kök Hücre Naklinde Alıcıya Zarar Vermeyen Hazırlık Rejimlerinin Geliştirilmesi**  
ŞEKER M. E., EROL Ö. D., PERVİN B., AERTS KAYA F. S. F.  
İstinye Üniversitesi Kök Hücre ve Doku Mühendisliği Sempozyumu, Çevrimiçi, Turkey, 27 - 28 February 2021
- XII. **Repair of Griscelli Type 2 mesenchymal stem cells with a lentiviral vector carrying RAB27Aco**  
EROL Ö. D., ŞEKER M. E., Pervin B., van Til N. P., ÖZCAN A., KOCAEFE Y. Ç., AERTS KAYA F. S. F.  
İstinye Üniversitesi Kök Hücre ve Doku Mühendisliği Sempozyumu, Çevrimiçi, Turkey, 27 - 28 February 2021
- XIII. **Non-Enzymatic Dissociation Methods Preserve CXCR4 Expression of Mesenchymal Stem Cells**  
Pervin B., Aydın G., ÇETİNKAYA F. D., AERTS KAYA F. S. F.  
İstinye Üniversitesi Kök Hücre ve Doku Mühendisliği Sempozyumu, Çevrimiçi, Turkey, 27 - 28 February 2021
- XIV. **Role of Neuropeptide Y (NPY) in Regulating Hematopoietic Stem Cells.**  
Ulum B., Mammadova A., ÖZYÜNCÜ Ö., ÇETİNKAYA F. D., YANIK T., AERTS KAYA F. S. F.  
NIAID 13. annual fellows workshop, 13 November 2019
- XV. **Short-term hypothermic storage supports maintenance of transplantable hematopoietic stem cells.**  
AERTS KAYA F. S. F., Pervin b., Mammadova A., Wagemaker G., ÇETİNKAYA F. D.

55. SLTB Congress Seville, Spain 2019, 2 - 04 October 2019

- XVI. **Östrojen reseptör pozitif MCF7 meme kanseri hücre hattı üzerine doğal biyoaktif bileşenlerden timokinon, kafeik asit fenetil ester fukoidanın antikanser etkilerinin karşılaştırmalı analizi.**  
Eroğlu Köksal E., BALTA G., AERTS KAYA F. S. F.  
23. Ulusal Kanser Kongresi 2019, Turkey, 17 - 21 April 2019, pp.319
- XVII. **Hematopoetik kök hücre regülasyonunda Nöropeptid Y (NPY)'in rolünün incelenmesi**  
Ulum B., Mammadova A., ÖZYÜNCÜ Ö., ÇETİNKAYA F. D., YANIK T., AERTS KAYA F. S. F.  
3. Kök Hücre ve Hücreyel Tedaviler Kongresi, Turkey, 12 - 14 April 2019, pp.137
- XVIII. **RAG2-/- ağır kombine immün yetmezliği hematopoetik kök hücre nakli ve gen tedavi optimizasyonu.**  
Pervin b., Erol Ö. D., ÇETİNKAYA F. D., Wagemaker G., AERTS KAYA F. S. F.  
3. Kök Hücre ve Hücreyel Tedaviler Kongresi 2019, Turkey, 12 - 14 April 2019, pp.67
- XIX. **Griscelli Tip 2 Mezenkimal Kök Hücrelerden Uyarılmış Pluripotent Kök Hücre Geliştirilmesi ve in vitro Hematopoetik Farklılaşması.**  
Güney Esken G., erol ö. d., BİLGİÇ E., KORKUSUZ P., gürhan sevinç g., ÖNDER T. T., ÇETİNKAYA F. D., AERTS KAYA F. S. F.  
3. Kök Hücre ve Hücreyel Tedaviler Kongresi 2019, Turkey, 12 - 14 April 2019, pp.72
- XX. **Doğal biyoaktif timokinon, kafeik asit fenetil ester ve fukoidan bileşenleri anti-meme kanseri aktivitelerinin triple-negatif MDA-MB-231 hücrelerinde araştırılması.**  
Eroğlu Köksal E., BALTA G., AERTS KAYA F. S. F.  
3. Kök Hücre ve Hücreyel Tedaviler Kongresi 2019, Turkey, 12 - 14 April 2019, pp.141
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- CVI. **Mobilization, Immunomodulation and Hepatic Differentiation of Graft-Resident Human Mesenchymal Stem Cells in Liver Transplantation.**  
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**CXVII. EFFICACY OF RECOMBINANT HUMAN AND RHESUS THROMBOPOIETIN STIMULATED BLOOD TRANSFUSIONS IN COMPARISON TO UNSTIMULATED WHOLE BLOOD OR THROMBOCYTE TRANSFUSIONS IN A NON-HUMAN PRIMATE MODEL**

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CXXV. **Mesenchymal stem cell studies in children with inherited diseases: A proposal for identification of candidate diseases for mesenchymal stem cell therapies (Pedi-Stem Project).**

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## Other Publications

### I. Göbek kordon kanı hayat kurtarabilir; atmayın, bankaya bağışlayın!

AERTS KAYA F. S. F.

Other, pp.26-30, 2018

## Supported Projects

AERTS KAYA F. S. F., KOCAEFE Y. Ç., KARAASLAN İ. Ç., Project Supported by Higher Education Institutions, Temel bilimlerde viral vektör ve genetik modifikasyon yöntemlerinin araştırılması, 2022 - Continues

AERTS KAYA F. S. F., Polat E. G., Project Supported by Higher Education Institutions, Melatoninin Obez Donor Mezenkimal Kök Hücrelerinde Hücresel Strese Bağlı Olarak Oluşan Fonksiyon Bozuklukları Üzerindeki Etkilerinin Değerlendirilmesi, 2022 - Continues

AERTS KAYA F. S. F., Pervin B., EROL Ö. D., ŞEKER M. E., ÖZYÜNCÜ Ö., Project Supported by Higher Education Institutions, Mezenkimal Hematopoetik ve uyarılmış Pluripotent Kök Hücrelerin DondurmaÇözme Süreçlerinin Optimizasyonunda SUL109 ve Resveratrolun Koruyucu Etkilerinin Araştırılması, 2022 - Continues

Aerts Kaya F. S. F., Değirmenci B., KORKUSUZ P., TUBITAK Project, Evaluation of Immune Modulatory Effects of Intestinal Mesenchymal Cells in Acute GvHD Models, 2022 - 2025

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AERTS KAYA F. S. F., EROL Ö. D., ŞEKER M. E., PERVİN B., Project Supported by Higher Education Institutions, İnflamatuar Bağırsak Hastalığı Modelinde CXCR4(+) Mezenkimal Kök Hücrelerin Etkinliğinin Değerlendirilmesi, 2021 - 2023

AERTS KAYA F. S. F., KORKUSUZ P., TUBITAK Project, Griscelli Sendromu Uyarılmış Pluripotent Kök Hücrelerinin Genetik Modifikasyonu ve Gen Tedavi Geliştirilmesi, 2020 - 2023

Aerts Kaya F. S. F., TUBITAK Project, Optimization of gene therapy culture conditions and engraftment of hematopoietic stem cells , 2020 - 2021

AERTS KAYA F. S. F., EROL Ö. D., VAN TIL N. P., Project Supported by Higher Education Institutions, GRISCELLI SENDROMU GENETİK MODİFİKASYON İÇİN CRISPR/CAS9 VE LENTİVİRAL KONSTRAKTLARIN HAZIRLANMASI, 2019 - 2021

AERTS KAYA F. S. F., ULUM B., TUBITAK Project, Hematopoetik Kök Hücre Regülasyonunda Nöropeptid Y (Npy)'nin Rolünün İncelenmesi, 2019 - 2020

AERTS KAYA F. S. F., Mammadova A., ÖZYÜNCÜ Ö., Project Supported by Higher Education Institutions, Delta-Opioid Peptide D-Ala2-Leu5-Enkephalin'in Hematopoetik Kök Hücrelerin Sağ Kalımındaki Rolü ve Antioksidatif ve Antiapoptotik Etkilerinin Araştırılması, 2018 - 2019

AERTS KAYA F. S. F., ÇETİNKAYA F. D., ULUM B., AYDIN SON Y., YANIK T., ÖZYÜNCÜ Ö., Project Supported by Higher Education Institutions, HEMATOPOETİK KÖK HÜCRE HİBERNASYONUNDA NÖROPEPTİD Y (NPY)'İN ROLÜNÜN İNCELENMESİ, 2018 - 2019

Aerts Kaya F. S. F., Wagemaker G., TUBITAK Project, Kalıtsal hastalıklar için hematopoetik kök hücre gen tedavisinin geliştirilmesi, 2018 - 2019



Aerts Kaya F. S. F., Yanık T., Project Supported by Higher Education Institutions, Assessment of the Role of Neuropeptide Y on Hibernation of Hematopoietic Stem Cells, 2017 - 2018

AERTS KAYA F. S. F., Project Supported by Higher Education Institutions, Plasenta, Kordon Kanı ve Kemik İliğinden İzole Edilen CD271+ MKH lerin Özelliklerinin Karakterizasyonu ve İmmünohematopoez Destekleyici Özelliklerinin İncelenmesi, 2013 - 2017

AERTS KAYA F. S. F., ÇETİNKAYA F. D., ÖZCAN A., ÇELEBİ SALTİK B., Project Supported by Higher Education Institutions, Kök Hücre Günü 2015, 2015 - 2016

Aerts Kaya F. S. F., Çetinkaya F. D., Project Supported by Other Private Institutions, Endoplasmik retikülüm (ER) stresi indükleyen ve azaltan kimyasalların Mezenkimal Kök Hücrelerin proliferasyonu ve farklılaşma kapasitesindeki rolünün araştırılması, 2015 - 2016

ÖZDEMİR E., KOCA G., AKBIYIK F., AYYILDIZ E., AYDOĞDU G., ÇAKMAK SAYLA F., Project Supported by Higher Education Institutions, DMSO ile kriyoprezerve edilen hematopoietik kök hücrelerden DMSO uzaklaştırılmasının kök hücre sayı ve canlılığı üzerine etkisi, 2015 - 2016

## Metrics

Publication: 166

Citation (WoS): 204

Citation (Scopus): 210

H-Index (WoS): 7

H-Index (Scopus): 8

## Congress and Symposium Activities

ISEH, Attendee, Frankfurt, Germany, 2017

ESGCT, Attendee, Florence, Italy, 2016

ESGCT, Attendee, Helsinki, Finland, 2015

ESGCT, Attendee, The Hague, Netherlands, 2014

ISEH, Attendee, Vienna, Austria, 2013

ASGT, Attendee, California, United States Of America, 2009

ASH, Attendee, California, United States Of America, 2008

ESGCT, Attendee, Bruges, Belgium, 2008

EHA, Attendee, Kobenhavn, Denmark, 2008

ESGCT, Attendee, Rotterdam, Netherlands, 2007

EBMT, Attendee, İstanbul, Turkey, 2003

EBMT, Attendee, Amsterdam, Netherlands, 1998

## Non Academic Experience

Erasmus University Rotterdam, Erasmus Medical Center

Erasmus University Rotterdam, Erasmus Medical Center