

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

### Personal Information

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### International Researcher IDs

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### 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 and risk assessment of RAB27A-/- Gene Therapy alternatives using current molecular techniques and technologies, Doctorate, Ö.DOĞUŞ(Student), 2024
- Aerts Kaya F. S. F., Assessment of the effects of melatonin on the funtional deficits induced by cellular stress in obese donor derived mesenchymal STEM cells, Postgraduate, E.GİZEM(Student), 2024
- 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 antioxıdative 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 Hematopoiétique 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
- Doctoral Examination, Doctoral Examination, Hacettepe Üniversitesi, August, 2019
- Post Graduate, Post Graduate, 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
- Doctorate, Doctorate, Hacettepe Üniversitesi, July, 2018
- Post Graduate, Post Graduate, İhsan Doğramacı Bilkent 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. **Assessment of non-myelotoxic agents as a preparatory regimen for hematopoietic stem cell gene therapy**  
Şeker M. E., Erol Ö. D., Pervin B., Wagemaker G., Van Til N. P., Aerts Kaya F. S. F.  
HUMAN CELL, vol.38, no.9, pp.1-12, 2024 (SCI-Expanded)
- II. **Correction of Griscelli Syndrome Type 2 causing mutations in the RAB27A gene with CRISPR/Cas9**

Erol Ö. D., Şenocak Ş., Özçimen Batman B., Güney Esken G., Kılıç H. B., Kocaefe Y. Ç., Van Til N. P., Aerts Kaya F. S. F. *TURKISH JOURNAL OF BIOLOGY*, vol.48, no.5, pp.290-298, 2024 (SCI-Expanded)

- III. **Bone marrow mesenchymal stromal cells support regeneration of intestinal damage in a colitis mouse model, independent of their CXCR4 expression**  
Pervin B., Gizer M., Şeker M. E., Erol Ö. D., Gür S. N., Polat E. G., Degirmenci B., Korkusuz P., Aerts Kaya F. S. F. *CLINICAL AND TRANSLATIONAL SCIENCE*, vol.2024, no.17(5), pp.1-13, 2024 (SCI-Expanded)
- IV. **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)
- V. **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)
- VI. **Comparison of immune modulatory properties of human multipotent mesenchymal stromal cells derived from bone marrow and placenta**  
Sarikaya A., Aydın G., Ozyuncu Ö., Sahin E., Çetinkaya F. D., Aerts Kaya F. S. F. *BIOTECHNIC & HISTOCHEMISTRY*, vol.97, no.2, pp.79-89, 2022 (SCI-Expanded)
- VII. **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)
- VIII. **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)
- IX. **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)
- X. **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)
- XI. **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)
- XII. **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)
- XIII. **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)
- XIV. **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)
- XV. **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)

- XVI. **Neurological Regulation of the Bone Marrow Niche**  
Aerts-Kaya F. S. F., Ulum B., Mammadova A., Köse S., Aydin 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)
- XVII. **Characterization of mesenchymal stem cells in mucopolipidosis type II (I-cell disease)**  
Kose S., Aerts Kaya F. S. F., Kuskonmaz B. B., Uckan Cetinkaya D.  
TURKISH JOURNAL OF BIOLOGY, vol.43, no.3, pp.171-178, 2019 (SCI-Expanded)
- XVIII. **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., UCKAN-CETINKAYA D., AERTS-KAYA F. S. F.  
JOURNAL OF CELLULAR PHYSIOLOGY, vol.233, no.11, pp.8429-8436, 2018 (SCI-Expanded)
- XIX. **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)
- XX. **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)
- XXI. **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)
- XXII. **Bone Marrow Mesenchymal Stem Cells from Donors with a High BMI Display ER Stress and Are  
Functionally Impaired.**  
Ulum B., Teker H. T., Sarıkaya A., BALTA G., KUŞKONMAZ B. B., ÇETİNKAYA F. D., AERTS KAYA F. S. F.  
JOURNAL OF CELLULAR PHYSIOLOGY, vol.2018, pp.1-8, 2018 (SCI-Expanded)
- XXIII. **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)
- XXIV. **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)
- XXV. **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)
- XXVI. **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)
- XXVII. **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)
- XXVIII. **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)
- XXIX. **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)
- XXX. **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)
- XXXI. **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, volüm 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 Challenge**  
Kose S., Aerts-Kaya F. S. F., ÇETİNKAYA F. D., Korkusuz P.  
in: Advances in Experimental Medicine and Biology, Kursad Turksen, Editor, Springer, pp.135-162, 2021
- IV. **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, Kursad Türksen, Editor, Springer, pp.1-28, 2021

- V. **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 Türkşen, Editor, Springer, pp.127-153, 2020
- VI. **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
- VII. **Radioprotective agents stimulating hematopoietic stem cell reconstitution. A translational approach.**  
AERTS KAYA F. S. F.  
Optima Grafi Sche Communicatie, Rotterdam, 2010
- VIII. **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
- IX. **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
- X. **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., ŞENOC AK 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., ŞENOC AK 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.

- 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. **Hematopoetik 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., Günel Özcan A., Kocafe Y. Ç., Aerts Kaya F. S. F.  
İstinye Üniversitesi Kök Hücre ve Doku Mühendisliği Sempozyumu, İstanbul, 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
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- XCI. **Demir partikülleri ile işaretli insane mezenkimal kök hücrelerin immünolojik özellikleri ve preliminier hayvan modellerinde in vivo hücre takibi.**  
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36th Annual Meeting of the European-Group-for-Blood-and-Marrow-Transplantat/9th Meeting of the EBMT Data-Management-Group/26th Meeting of the EBMT Nurses Group/2nd EBMT Qual Management Meeting, Vienna, Austria, 21 - 24 March 2010, vol.45
- XCIV. **Kordon kanından Mezenkimal Kök Hücre İzolasyonu**  
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1. Ulusal Mezenkimal Kök Hücre Sempozyumu, Turkey, 5 - 06 February 2010
- XCV. **'I-Cell' hastalığında kemik iliği kökenli mezenkimal kök hücrelerin karakterizasyonu**  
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6. Ulusal KİT ve Kök Hücre Tedavileri Kongresi 2010, Turkey, 4 - 06 March 2010, pp.141
- XCVI. **LENTIVIRAL GENE THERAPY OF MURINE HEMATOPOIETIC STEM CELLS LEADS TO CORRECTION OF THE POMPE DISEASE PHENOTYPE**  
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- XCIX. HUMAN LIVER HEMATOPOIETIC STEM CELLS HAVE A MULTI-POTENT AND SELF-RENEWAL CAPACITY AND MAY FUNCTION AS LOCAL PROGENITORS FOR LIVER-RESIDENT LEUKOCYTES**  
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- C. MOBILIZATION, IMMUNOMODULATION AND HEPATIC DIFFERENTIATION OF HUMAN GRAFT MESENCHYMAL STEM CELLS IN LIVER TRANSPLANTATION**  
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- CII. Influence of Immune Modulation Gene Therapy on Environmental Risk Assessment**  
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- CIII. Kök Hücre Genetik Modifikasyonlarının Biyogüvenlik ve Risk Değerlendirmesi**  
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- CIV. İnsan kaynaklı mezenkimal kök hücrelerin demir oksit partikülleri ile işaretlenmesi.**  
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- CV. Osteopetrosisli hastalardan izole edilen mezenkimal kök hücrelerde adipozit farklılaşma defekti**  
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- CVI. Mobilization, Immunomodulation and Hepatic Differentiation of Graft-Resident Human Mesenchymal Stem Cells in Liver Transplantation.**  
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- CVII. Transplanted CD34 cells stimulated with Flt3 ligand and Granulocyte-Colony Stimulating Factor display an impaired early reconstitution capacity.**  
AERTS KAYA F. S. F., Hartong S., Visser T. P., Verstegen M. M., wognum a., Wagemaker G.  
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- CVIII. 5-Androstene-3b,17b-Diol Administration of Mice Exposed to Total Body Irradiation Results in Rapid Reconstitution of Immature Bone Marrow Progenitor Cells and Synergizes with Thrombopoietin but Not with Granulocyte-Colony Stimulating Factor.**

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- CXII. **Recombinant spider silk fibres allow expansion of hematopoietic stem cells and can serve as biomatrices for adherence of mesenchymal stem cells**  
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- CXV. **LENTIVIRAL GENE THERAPY OF HEMATOPOIETIC STEM CELLS RESULTS IN PHENOTYPE CORRECTION IN A MOUSE MODEL OF POMPE DISEASE**  
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- CXVI. **5-ANDROSTENE-3 beta,17 beta-DIOL ADMINISTERED TO MICE EXPOSED TO TOTAL BODY IRRADIATION RESULTS IN RAPID RECONSTITUTION OF IMMATURE BONE MARROW PROGENITOR CELLS AND SYNERGIZES WITH TPO BUT NOT WITH G-CSF**  
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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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- CXVIII. **Safety assessment in murine recipients of hematopoietic cells transduced with gammaretroviral or lentiviral vectors: evidence for significantly reduced genotoxicity of SIN lentiviral vectors.**  
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- CXIX. **Cell density and viral vector load are determinant factors for Ex vivo lentiviral transduction efficiency of hematopoietic stem cells**  
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- ESGCT annual meeting 2007, Rotterdam, Netherlands, 27 - 30 October 2007, vol.18, pp.1010
- CXX. **Cell-density and viral vector load are determinant factors for the ex vivo lentiviral transduction efficiency of hematopoietic stem cells**  
van Til N., Verstegen M. M., oerlemans c., AERTS KAYA F. S. F., Visser T. P., Wagemaker G.  
ASGT annual meeting 2007, 30 May - 03 June 2007, vol.15, pp.397
- CXXI. **HE2100 (5-Androstene-3b,17b-diol) after Cytoreductive Total Body Irradiation of Rhesus Monkeys Promotes the Recovery of Immature CD34 Bone Marrow Cells, Accelerates Platelet, Granulocyte and Red Cell Reconstitution, and Alleviates Neutropenia and Anemia**  
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ASH annual meeting 2005, 10 - 13 December 2005, vol.106, pp.131
- CXXII. **HE2100 (5-androstene-3 beta,17 beta-diol) after cytoreductive total body irradiation of rhesus monkeys promotes the recovery of immature CD34+bone marrow cells, accelerates platelet, granulocyte and red cell reconstitution, and alleviates neutropenia and anemia**  
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- CXXIII. **Mesenchymal stem cell differentiation defect in malignant infantile osteopetrosis**  
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- CXXIV. **Characterization of bone marrow-derived mesenchymal stem cells from healthy marrow donors of pediatric age**  
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30 th International Society of Hematology World Congress 2005, İstanbul, Turkey, 28 September - 02 October 2005, vol.22, pp.181
- 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., KORKUSUZ P., Project Supported by Higher Education Institutions, Akut GvHD Modellerinde Bağırsak Mezenkimal Hücrelerin İmmün Modulator Etkilerinin Değerlendirilmesi 221S958 TÜBİTAK Projesine Ek Bütçe, 2024 - Continues
- AERTS KAYA F. S. F., Erol Ö. D., KAYIKÇI U., Şeker M. E., Şenocak Ş., DEREN Ö., Project Supported by Higher Education Institutions, Farklı Germ Yaprağı Kökenli Kök Hücrelerden Geliştirilen uPKH'lerin İn Vitro Farklılaşma Kapasitelerinin Karşılaştırılması, 2024 - Continues
- AERTS KAYA F. S. F., Gür S. N., PERVİN B., Project Supported by Higher Education Institutions, İn vitro İnflamatuar Bağırsak Hastalığı Modelinde Zonulin İnhibitörünün Etkisinin Araştırılması, 2023 - 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

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 - 2024

AERTS KAYA F. S. F., Polat E. G., Project Supported by Higher Education Institutions, Melatoninin Obez Donor Mezenkimal Kök Hücrelerinde Hücrel Strese Bağlı Olarak Oluşan Fonksiyon Bozuklukları Üzerindeki Etkilerinin Değerlendirilmesi, 2022 - 2024

AERTS KAYA F. S. F., Erol Ö. D., Project Supported by Higher Education Institutions, GRISCELLI SENDROMU UYARILMIŞ PLURIPOTENT KÖK HÜCRELERİNİN GENETİK MODİFİKASYONU VE GEN TEDAVİ GELİSTİRİLMESİ (219S675 TÜBİTAK ek bütçe desteği), 2022 - 2024

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

AERTS KAYA F. S. F., ÖZYÜNCÜ Ö., TUBITAK Project, Hematopoetik Kök Hücrelerin Hipotermik Saklama Koşullarının Optimizasyonunun 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., TUBITAK Project, Griscelli Sendromu Upkh (Uyarılmış Pluripotent Kök Hücre) Geliştirmesi, Karakterizasyonu ve Lenfohematopoetik Farklılaşması, 2015 - 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., 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

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 sayısı ve canlılığı üzerine etkisi, 2015 - 2016

## Metrics

Publication: 174

Citation (WoS): 363

Citation (Scopus): 350

H-Index (WoS): 9

H-Index (Scopus): 9

## 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