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Personal Information

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Education Information

Doctorate, Bursa Uludağ University, Veteriner Fakültesi, Klinik Bilimler, Turkey 2009 - 2012

Undergraduate, İstanbul University-Cerrahpaşa, Faculty Of Veterinary Medicine, Turkey 1998 - 2004

Dissertations

Doctorate, In Vitro and In Vivo Investigation of Embryo Development Following Biopsy with Different Techniques in Preimplantation Mouse Embryos , Bursa Uludağ University, Veteriner Fakültesi, Klinik Bilimler, 2012

Research Areas

Health Sciences, Veterinary Reproduction and Artificial Insemination, Biotechnology, Animal Biology, Molecular Biology and Genetics, Natural Sciences

Academic Titles / Tasks

Associate Professor, İstanbul University, Aziz Sancar Institute of Experimental Medicine, Department of Laboratory Animal Science, 2023 - Continues

Assistant Professor, İstanbul University, Aziz Sancar Institute of Experimental Medicine, Department of Laboratory Animal Science, 2021 - Continues

Lecturer, Kocaeli University, 2005 - 2008

Academic and Administrative Experience

Ethics Committee Member, Koc University, Research Center For Translational Medicine, Hayvan Deneyleri Yerel Etik Kurulu, 2013 - 2021

Ethics Committee Member, Kocaeli University, Tıp Fakültesi, Hayvan Deneyleri Yerel Etik Kurulu, 2006 - 2008

Published journal articles indexed by SCI, SSCI, and AHCI

1. Boric Acid Improved Cryopreserved Mouse Embryo Development

Kocabay A., TAŞKIN A. C.

Biological Trace Element Research, vol.202, no.9, pp.4101-4105, 2024 (SCI-Expanded)

- II. **Effects of Boric acid as Maternal Feed Additives on the Development and Sex Ratio of Mouse pups**
Aykal M., GEÇİN M. N., Sogut I., KAR F., TAŞKIN A. C.
Biological Trace Element Research, 2024 (SCI-Expanded)
- III. **TW68, cryptochromes stabilizer, regulates fasting blood glucose levels in diabetic ob/ob and high fat-diet-induced obese mice**
Surme S., Ergun C., Gul S., AKYEL Y. K., Gul Z. M., Ozcan O., Ipek O. S., Akarlar B. A., Ozlu N., TAŞKIN A. C., et al.
Biochemical Pharmacology, vol.218, 2023 (SCI-Expanded)
- IV. **Discovery of a small molecule that selectively destabilizes Cryptochrome 1 and enhances life span in *p53* knockout mice**
Gul Ş., Akyel Y. K., Gul Z. M., Isin S., Ozcan O., Korkmaz T., Selvi S., Danis I., Ipek O. S., Aygenli F., et al.
NATURE COMMUNICATIONS, vol.13, no.1, 2022 (SCI-Expanded)
- V. **Can remote ischemic preconditioning counteract the renal functional deterioration attributable to partial nephrectomy under warm ischemia? Results of an animal study**
Mut T. T., Acar O., Armutlu A., Incir S., Uhlig A., Ertuglu L. A., Ozel M., Taskin A. C., Baydar D. E., Kanbay M., et al.
BMC NEPHROLOGY, vol.22, no.1, 2021 (SCI-Expanded)
- VI. **Roles of developmentally regulated KIF2A alternative isoforms in cortical neuron migration and differentiation**
Akkaya C., Atak D., Kamacioglu A., Akarlar B. A., Guner G., Bayam E., Taskin A. C., Ozlu N., Ince-Dunn G.
DEVELOPMENT, vol.148, no.4, 2021 (SCI-Expanded)
- VII. **A CLOCK-binding small molecule disrupts the interaction between CLOCK and BMAL1 and enhances circadian rhythm amplitude.**
Doruk Y., Yarpavar D., Akyel Y., Gul Ş., Taskin A. C., Yilmaz F., Baris I., Ozturk N., Türkay M., Ozturk N., et al.
The Journal of biological chemistry, vol.295, no.11, pp.3518-3531, 2020 (SCI-Expanded)
- VIII. **Treatment with Melatonin Enhances the Embryo Quality and the Development of Vitrified/warmed Eight Cell Mouse Embryos by Solid Surface Vitrification (SSV).**
Caglar K., Kocabay A., Taskin A. C., Arat S.
Cryo letters, vol.41, no.2, pp.62-67, 2020 (SCI-Expanded)
- IX. **Leptin treatment of in vitro cultured embryos increases outgrowth rate of inner cell mass during embryonic stem cell derivation**
Taskin A. C., Kocabay A., Ebrahimi A., Karahuseyinoglu S., Sahin G. N., Ozcimen B., Ruacan A., Onder T. T.
IN VITRO CELLULAR & DEVELOPMENTAL BIOLOGY-ANIMAL, vol.55, no.7, pp.473-481, 2019 (SCI-Expanded)
- X. **Leptin supplementation in embryo culture medium increases in vivo implantation rates in mice**
Taskin A. C., Kocabay A.
TURKISH JOURNAL OF VETERINARY & ANIMAL SCIENCES, vol.43, no.3, pp.359-363, 2019 (SCI-Expanded)
- XI. **Comparison of the development of mouse embryos manipulated with different biopsy techniques**
Taskin A. C., Akkoc T., SAĞIRKAYA H., Bagis H., Arat S.
TURKISH JOURNAL OF VETERINARY & ANIMAL SCIENCES, vol.40, no.2, pp.157-162, 2016 (SCI-Expanded)
- XII. **Gene expression profiles of vitrified in vitro- and in vivo-derived bovine blastocysts**
Aksu D. A., Agca C., Aksu S., Bagis H., Akkoc T., Caputcu A. T., Arat S., Taskin A. C., Kizil S. H., Karasahin T., et al.
MOLECULAR REPRODUCTION AND DEVELOPMENT, vol.79, no.9, pp.613-625, 2012 (SCI-Expanded)
- XIII. **Expression of Biologically Active Human Interferon Gamma in the Milk of Transgenic Mice Under the Control of the Murine Whey Acidic Protein Gene Promoter**
Bagis H., Aktoprakligil D., Gunes C., Arat S., Akkoc T., Cetinkaya G., Kankavi O., Taskin A. C., ARSLAN K., DÜNDAR M., et al.
BIOCHEMICAL GENETICS, vol.49, no.3-4, pp.251-257, 2011 (SCI-Expanded)
- XIV. **Optimal Method of Mouse Blastomere Biopsy: In vitro Developmental Potential of the Biopsied Embryo to Blastocyst Stage after Aspirated Eight-Cell Mouse Embryos**
Taskin A. C., Akkoc T., Caputcu A. T., Arat S., Bagis H.
JOURNAL OF ANIMAL AND VETERINARY ADVANCES, vol.10, no.22, pp.3027-3030, 2011 (SCI-Expanded)

- XV. **The Effect of Solid Surface Vitrification (SSV) Versus Classic Vitrification Technique on Survive Rate of in vitro Produced Bovine Blastocysts**
Akkoc T., Taskin A. C., Caputcu A. T., Arat S., Bagis H.
JOURNAL OF ANIMAL AND VETERINARY ADVANCES, vol.10, no.22, pp.2885-2891, 2011 (SCI-Expanded)
- XVI. **Comparison of Different Cryopreservation Techniques: Higher Survival and Implantation Rate of Frozen-Thawed Mouse Pronuclear Embryos in the Presence of Beta-Mercaptoethanol in Post-Thaw Culture**
Bagis H., Akkoc T., Taskin C., Arat S.
REPRODUCTION IN DOMESTIC ANIMALS, vol.45, no.6, 2010 (SCI-Expanded)

Articles Published in Other Journals

- I. **The study of exposure times and dose-escalation of tick saliva on mouse embryonic stem cell proliferation**
Kocabay A., EBRAHIMI A., TAŞKIN A. C., KAR S.
Acarological Studies, vol.4, no.1, pp.1-8, 2022 (Peer-Reviewed Journal)
- II. **Farklı fare ırklarında parthenogenetik oosit aktivasyonun in vitro gelişim oran ve kalitesinin karşılaştırılması**
TAŞKIN A. C., Kocabay A., Çağlar Erkal K.
Veteriner Hekimler Derneği Dergisi, vol.92, no.1, pp.42-48, 2021 (Peer-Reviewed Journal)
- III. **Intracytoplasmic Sperm Injection (ICSI) in B6D2F1 and CB6F1 Strain Mice Using Cauda Epididymal Spermatozoa**
TAŞKIN A. C., Kocabay A., Coşkun N.
EXPERIMED, vol.11, no.3, pp.179-183, 2021 (Peer-Reviewed Journal)
- IV. **Effects of different parthenogenetic activation periods on mouse embryo development and quality**
TAŞKIN A. C., Coşkun N., Kocabay A.
Kocatepe Veterinary Journal, vol.13, no.4, pp.383-387, 2020 (Peer-Reviewed Journal)

Refereed Congress / Symposium Publications in Proceedings

- I. **M47 Molekülünün Sıçanda Maksimum Tolere Edilebilir Dozunun (MTD) Araştırılması**
İyigün B., Taşkın A. C., Öztürk Civelek D., Çevik A., Kaptan E., Kavaklı İ. H., Okyar A.
5.Ulusal Laboratuvar Hayvanları Bilimi Kongresi, İstanbul, Turkey, 14 - 16 September 2023, pp.189-190
- II. **Dosing-time and cryptochrome dependent changes in oxaliplatin tolerability and pharmacokinetics**
Öztürk Seyhan N., Akyel Y. K., Gül Ş., Çelik M., Taşkın A. C., Sancar A., Kavaklı İ. H., Okyar A.
26th National and 1st International Pharmacology Congress, 10th Clinical Pharmacology Symposium, 9th Clinical Toxicology Symposium, İstanbul, Turkey, 4 - 06 November 2021, pp.280-281
- III. **Boric acid supplementation in embryo culture medium treatment vitrified mouse embryo by Solid Surface Vitrification (SSV)**
Kocabay A., TAŞKIN A. C.
1st INTERNATIONAL MICROSCOPY and SPECTROSCOPY CONGRESS, online, 22 - 24 September 2021, pp.58
- IV. **The Use of CRISPR/Cas9 systems for the evaluation of implantation parameters in a Three-Dimensional implantation model**
SÖYLER G., Şahin G. N., Çomar M. Y., A. K., TAŞKIN A. C., Kocabay A., KARAHÜSEYİNOĞLU S.
1st INTERNATIONAL MICROSCOPY and SPECTROSCOPY CONGRESS, online, 22 September 2021, pp.56
- V. **Boric acid supplementation in embryo culture medium increases in vitro development rates of mouse embryo**
TAŞKIN A. C., Kocabay A.
BIO Türkiye - International Biotechnology Congress, 9 - 11 September 2021

- VI. **The Results of Timed Pregnant Model in Wistar Albino and Sprague Dawley Strain Rats**
Coşkun N., TAŞKIN A. C.
6th International Congress on Veterinary and Animal Sciences, online, 2 - 04 September 2021, pp.109
- VII. **Somatik Hücre Nükleer Transfer (SCNT) Fare Embriyolarının Gelişim Potansiyelinin Araştırılması.**
TAŞKIN A. C., Kocabay A.
VIII. Ulusal ve II. Uluslararası Veteriner Doğum ve Jinekoloji Kongresi, 10 October 2019
- VIII. **Mikroenjeksiyon Operasyonları için Rotasyonel Osilasyonlu Civasız Mikrodeliçi Tasarımı**
NAK H., Kocabay A., TAŞKIN A. C., ERGENÇ A. F.
9. Ulusal Reprodüksiyon ve Suni Tohumlama Bilim Kongresi, Hatay, Turkey, 5 - 09 September 2018, pp.64
- IX. **CRISPR/Cas9 genome editing to reveal the effect of implantation related genes on specific cell types which contribute to implantation process in human and mouse models**
Sahin G. N., Karahuseyinoglu S., Taskin A. C.
34th Annual Meeting of the European-Society-of-Human-Reproduction-and-Embryology (ESHRE), Barcelona, Spain, 1 - 04 June 2018, vol.33, pp.117
- X. **Kene Tükürük Salgısının Fare Embriyonik Kök Hücreleri Üzerine Etkilerinin İncelenmesi**
Kocabay A., EBRAHİMİ A., TAŞKIN A. C., KAR S.
14.Ulusal Histoloji Embriyoloji Kongresi, İzmir, Turkey, 10 - 13 May 2018, pp.167
- XI. **Construction of gel based 3D endometrial co -culture systems: Can human mesenchymal stem cells be an alternative?**
Karahuseyinoglu S., Sari K., Sahin G. N., YÜCEL D., Kocabay A., Taskin A. C.
33rd Annual Meeting of the European-Society-of-Human-Reproduction-and-Embryology (ESHRE), Geneva, Switzerland, 2 - 05 July 2017, vol.32, pp.340-341
- XII. **Two-dimensional and three-dimensional endometrial co-cultures: novel approach for in vitro implantation models**
KARAHÜSEYİNOĞLU S., Sarı K., Şahin G. N., YÜCEL D., Kocabay A., TAŞKIN A. C.
15th Int. Congress Histochemistry and Cytochemistry, Antalya, Turkey, 18 - 21 May 2017
- XIII. **Effect of Leptin on Derivation Rate of Mouse Embryonic Stem (ES) Cell Line**
TAŞKIN A. C., Kocabay A., EBRAHİMİ A., ÖNDER T. T.
13th Transgenic Technology Meeting, prag, Czech Republic, 20 - 23 March 2016, pp.265
- XIV. **Endometrium co-culture, 3D endometrium co-culture, 3D polymeric carrier aided endometrium co-culture: Comparative effects on implantation**
KARAHÜSEYİNOĞLU S., Şahin G. N., TAŞKIN A. C., YÜCEL D.
The 32nd annual meeting of European Society of Human Reproduction & Embryology (ESHRE), Helsinki, Finland, 3 - 06 June 2016, pp.278
- XV. **Cellular and Molecular Dynamics Of In-vitro 2D and 3D Cultured Blastocysts Throughout The Implantation Process**
Karahuseyinoglu S., YÜCEL D., Sahin G. N., Kocabay A., Taskin A. C.
Annual Meeting of the American-Society-for-Cell-Biology (ASCB), San-Francisco, Costa Rica, 3 - 07 December 2016, vol.27
- XVI. **Use of polymeric cell carriers supplemented with endometrial co-culture systems to enhance blastocyst implantation**
KARAHÜSEYİNOĞLU S., YÜCEL D., Şahin G. N., TAŞKIN A. C., A K., A K., E K., E K., TP O., TP O., et al.
The 2015 Annual Meeting of the American Society for Cell Biology (ASCB), San Diego, United States Of America, 12 - 16 December 2015
- XVII. **Time Pregnant Protocol in Mouse**
Kocabay A., M Y., TAŞKIN A. C.
ICLAS, St Petersburg 2014, St. Petersburg, Russia, 17 - 19 November 2014, pp.90
- XVIII. **Fare Embriyonik Kök Hücre Elde Edilmesi**
Kocabay A., TAŞKIN A. C.
3. Laboratuvar Hayvanları Bilimi Kongresi, Kayseri, Turkey, 26 - 28 September 2013, pp.142-143
- XIX. **In Vitro and In Vivo Development of Embryo Following Biopsy with Different Techniques in Mouse**

Embryos

TAŞKIN A. C., BAĞIŞ H., SAĞIRKAYA H., AKKOÇ T., ARAT S.

International Embryo Transfer Society (IETS) Conference, Hannover, Germany, 19 - 22 January 2013, pp.223

- XX. **The Effect of Solid Surface Vitrification (SSV) Versus Classic Vitrification Technique on Survive Rate of In Vitro Produced Bovine Blastocysts**
AKKOÇ T., TAŞKIN A. C., ARAT S., TAŞ A., BAĞIŞ H.
Molecular Immunology & Immunogenetics Congress, İstanbul, Turkey, 27 - 29 April 2012, pp.179
- XXI. **Nükleer Transferlerde Oosit Yaşının İnek Blastosist Gelişim Oranlarına Etkileri**
ARAT S., TAŞ A., AKKOÇ T., ÇETİNKAYA CAMPARI G., TAŞKIN A. C.
VI. Ulusal Reprodüksiyon ve Suni Tohumlama Kongresi, Antalya, Turkey, 18 May - 22 November 2011, pp.48-49
- XXII. **Superovulasyonun Farklı Fare Irklarında Sekiz Hücreli Embriyo Sayısı Üzerine Etkisi**
TAŞKIN A. C., AKKOÇ T., ARAT S., BAĞIŞ H.
VI. Ulusal Reprodüksiyon ve Suni Tohumlama Kongresi, Antalya, Turkey, 18 - 22 May 2011, pp.104-105
- XXIII. **Gene expression profiling of in vitro-derived and in vivo-derived bovine blastocysts using microarray analysis**
Aksu D. A., Agca C., Aksu S., Bagis H., Akkoc T., Caputcu A. T., Arat S., Taskin A. C., Kizil S. H., SAĞIRKAYA H., et al.
European Biotechnology Congress, İstanbul, Turkey, 28 September - 01 October 2011, vol.22
- XXIV. **Determination of human interferon-gamma in the transgenic mice milk by modified Kynurenine bioassay test**
Bagis H., Aktoprakligil D., Gunes C. G., Akkoc T., Cetinkaya G., Kankavi O., Taskin A. C., Arat S., ARSLAN K., DÜNDAR M., et al.
European Biotechnology Congress, İstanbul, Turkey, 28 September - 01 October 2011, vol.22
- XXV. **Comparing SSV and OPS vitrification techniques and different solutions on cryopreservation of mouse blastocysts**
Akkoc T., Taskin A. C., Caputcu A. T., Arat S., Bagis H.
European Biotechnology Congress, İstanbul, Turkey, 28 September - 01 October 2011, vol.22
- XXVI. **8 Hücreli Fare Embriyolarında Blastomer Aspiration Tekniğinin Blastosist Gelişimine Etkisi Üzerine Etkisi**
TAŞKIN A. C., AKKOÇ T., BAĞIŞ H., ARAT S.
IV-Veteriner Jinekoloji Kongresi, Antalya, Turkey, 4 - 07 November 2010, pp.104-105
- XXVII. **Katı yüzey vitrifikasyon (SSV) ve klasik vitrifikasyon tekniklerinin in vitro elde edilmiş inek blastosit canlılık oranları üzerine etkisi**
AKKOÇ T., TAŞKIN A. C., ARAT S., BAĞIŞ H.
IV-Veteriner Jinekoloji, Antalya, Turkey, 4 - 07 November 2010, pp.66-67
- XXVIII. **Research on The Different Periods of Mouse Embryos Obtained by Superovulation'**
TAŞKIN A. C., AKKOÇ T., BAĞIŞ H., ARAT S.
3rd East Mediterranean Iclas (International Council For Laboratory Animal Science), İstanbul, Turkey, 13 June 2010 - 15 June 2011, pp.66-67
- XXIX. **Biyopsi uygulamasinin in vitro siğir blastosist gelişimi üzerine etkisi**
TAŞKIN A. C., AKKOÇ T., BAĞIŞ H., ARAT S.
1.Veteriner Hekimlik Kongresi, İstanbul, Turkey, 3 - 06 June 2010, pp.136
- XXX. **Beta-mercaptoethanolün siğir yumurtasının maturasyonuna ve blastosist gelişimi oranı üzerine etkisi**
AKKOÇ T., BAĞIŞ H., TAŞKIN A. C., ARAT S.
X. Ulusal Histoloji - Embriyoloji Kongresi, 17 - 20 May 2010, pp.44
- XXXI. **The Effect of Equilibration Time on Survival and Development Rates of Mouse Blastocyst Stage Embryos Vitrified in Solid Surface (SSV)''**
AKKOÇ T., TAŞKIN A. C., BAĞIŞ H., ARAT S.
The 1st International Congress on Cryopreservation of Stem Cells, Reproductive Cells, Valencia, Spain, 22 - 25 April 2010
- XXXII. **Fertilizasyon Sürelerinin ve Farklı Kültür Medyumlarının Siğir Blastosist Gelişimi Oranı Üzerine**

Etkisi

AKKOÇ T., BAĞIŞ H., TAŞKIN A. C., ARAT S.

V. Ulusal Reprodüksiyon ve Suni Tohumlama Kongresi, Elazığ, Turkey, 1 - 04 October 2009, pp.118-119

XXXIII. **Fare Blastosist Kesiminin İmplantasyon Oranlarına Etkisi**

TAŞKIN A. C., AKKOÇ T., BAĞIŞ H., ARAT S.

V. Ulusal Reprodüksiyon ve Suni Tohumlama Kongresi, Elazığ, Turkey, 01 October 2009

XXXIV. **Fertilizasyon Medyumlarının ve Sperma Yıkama Solüsyonlarının Sığır Blastosist Gelişim Oranları Üzerine Etkisi''**

AKKOÇ T., BAĞIŞ H., TAŞKIN A. C., ARAT S.

V. Ulusal Reprodüksiyon ve Suni Tohumlama Kongresi, Elazığ, Turkey, 1 - 04 October 2009, pp.76-77

XXXV. **Kültür Medyumundaki BSA Miktarlarının İnek Blastosist Gelişimi Üzerine Etkisi**

AKKOÇ T., BAĞIŞ H., TAŞKIN A. C., ARAT S.

V. Ulusal Reprodüksiyon ve Suni Tohumlama Kongresi, Elazığ, Turkey, 01 October 2009 - 04 October 2008, pp.182-183

XXXVI. **Expression of Human Gamma Interferin (Hifn-Gamma) in the Milk of Transgenic Mice''**

BAĞIŞ H., AKTOPRAKLIGİL AKSU D., Güneş Ç., KANKAVI O., AKKOÇ T., ÇETİNKAYA CAMPARI G., TAŞKIN A. C., ARSLAN K., ARAT S., Tsoncheva V. L., et al.

2nd. Mediterranean Clinical Immunology Meeting, Antalya, Turkey, 4 - 07 October 2008, pp.106

Metrics

Publication: 56

Citation (WoS): 114

Citation (Scopus): 132

H-Index (WoS): 5

H-Index (Scopus): 6

Congress and Symposium Activities

Turkish-German Lab Animal Science Meeting-Heidelberg, Attendee, Heidelberg, Germany, 2024

ESLAV-ECLAM-AAALAC 2024 , Audience, Amsterdam, Netherlands, 2024

th Joint Symposium on Cryobiology and Biobanking-Online Kongre, Invited Speaker, Tehran, Iran, 2023