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Bölüm : Biyomedikal Mühendisliği
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Kişisel Akademik Bilgiler**Eğitim:**

Doktora, Biyomedikal Mühendisliği, Houston Üniversitesi, 2011-2015
 Doktora Üstü Araştırmacı, Psikiyatri, Harvard Tıp Okulu, 2015-2017
 Ziyaretçi Araştırmacı, Dankook University, Korea, 2018
 Ziyaretçi Araştırmacı, Xi'an Jiatong University, China, 2018
 Dr.Öğretim Üyesi, İstinye Üniversitesi (Mühendislik Fak. Dekan Yar.), 2018-2020

Araştırma Alanları:

Multimodal Beyin Görüntüleme
 İşlevsel Yakın Kızılaltı Spektroskopi
 Serebrovasküler Dolaşım Görüntüleme
 Nöroergonomi
 Cerrahi Eğitimi
 İnsan Bilgisayar Etkileşimi
 Mikro-Nano Teknolojiler

Patentler:

In vitro maturation için oocyte silo tasarımı - G. Kore Patent O. * Onaylandı (10-2005807)
 In vitro fertilization için mikroakiskan cip tasarımı - G. Kore Patent O. * Araştırmada

Yayınlar:**Makaleler:**

Moon, S., **Keles, H. O.**, Ozcan A., Haeggstrom E., Kuritzkes D., Khademhosseini A., Demirci, U., "Integrating microfluidics and Lens-less Imaging for point of care testing" Biosensors and Bioelectronics, 2009; 24, 3208-14. PMID: PMC2733855

Alyassin, M.*, Moon, S.*, **Keles, H.O.**, Manzur, F., Lin R.L., Hasan, S. K., Hæggstrom E., Kuritzkes, D.R., Demirci, U., "Rapid automated cell quantification on HIV microfluidic devices" Lab on a Chip, 2009; 9, 3364-69. PMID: PMC3839566

Hasan, S.K., Moon, S., Song, Y.S., **Keles, H. O.**, Manzur F., Mikkilineni, S., Nagatomi, J., J.W. Hong, Haeggstrom E., Khademhosseini A., Demirci, U., "Layer by layer 3D Tissue Epitaxy by Cell Laden Hydrogel Droplets" Tissue Engineering, 2009; Part C, 15. PMID:PMC2818246

Samot, J., Sangjun, M., Shao, L., Xiaohui, X., Xu, F., Song, Y.S., **Keles, H.O.**, Matloff, L., Markel, J., and Demirci, U., "Blood banking in living droplets" PLoS ONE 2011; 6(3): e17530. PMID: PMC3055869

Xu, F., Chung-an Max Wu, C.M., Rengarajan, V., Finley, T. D., **Keles, H.O.**, Sung, Y., Li, B., Gurkan, U.A., and Demirci, U., "Three-dimensional magnetic assembly of microscale hydrogels" Advanced Materials 2011; 23(37): 4254-4260. PMID: PMC 3534971

Zhang, X., Khimji, P. I., **Keles, H. O.**, Gurkan, U. A., Kayaalp, E., Nureddin, A., Demirci, U., "Lensless imaging for simultaneous microfluidic sperm monitoring and sorting." Lab on a Chip 2011; 11: 2535. PMID: PMC 3812937

Gurkan U. A., T. Anand, Tas H., Elkan D., Akay A., **Keles, H.O.** and Demirci U., Controlled viable release of selectively captured label-free cells in microchannels" Lab on a Chip 2011; 11(23):3979-89. PMID: PMC 3814023

Zhang, X., Khimji, P. I., Shao, L., Safaee, H., Desai, K., **Keles, H. O.**, Gurkan, U. A., Kayaalp, E., Nureddin, A., Anchan, R., Maas, R., and Demirci U., "Nanoliter Droplet Vitrification for Oocyte Cryopreservation" Nanomedicine 2012; 7(4): 553-564. PMID: PMC3319864

- 🔗 Anasayfa
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- 🔗 Kişisel PDF Dosyası
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Buccino P. A., **Keles, H. O.**, Omurtag A., Hybrid EEG+fNIRS asynchronous brain-computer interface for multiple motor tasks. *PLoS ONE* 2015; 11(1): e0146610

Keles, H. O., Barbour R.L., Omurtag A., Hemodynamic correlates of spontaneous neural activity measured by human whole head resting state EEG+fNIRS. *Neuroimage* 2016; 138: 76-87. PMID: 27236081

Omurtag A., Aghajani H., **Keles, H. O.**, Decoding human mental states by whole-head EEG+fNIRS during category fluency task performance. *Journal of Neural Engineering*, 14(6):066003. PMID: 28730995

Keles, H. O., Radoman M., Pachas, G.N., Evins A.E., Gilman J., Using functional near infrared spectroscopy to measure the effects of oral Delta 9-tetrahydrocannabinol (THC) on prefrontal cortex activity and working memory performance in cannabis user. *Frontiers in Human Neuroscience* 2017; 11: 488. PMID: 29066964

Keles, H. O., Cengiz C., Demiral I., Ozmen M., Omurtag A., High Density Optical Neuroimaging predicts surgeons's subjective experience and skill levels. *Neuroimage* (Under review)

Kitap ve Kitap Bölümleri:

Wang S., Xu F., **Keles, H. O.**, Demirci, U. "Emerging microscale technologies for global health: CD4 counts. *Bionanotechnology II : Global Prospects*, Taylor & Francis Imprint 2010.

Konferans Bildirileri:

Moon, S.J., **Keles, H. O.**, Demirci, U. "Microfluidic Devices for Point-of-Care Testing". Harvard-MIT Health Science and Technology Poster Session, Harvard Medical School, Boston, MA 2008.

Moon, S.J., **Keles, H. O.**, Demirci, U. "CD4 T-lymphocyte Counting with a Lens-free Monitoring system", MIT-Deshpande Center Open-House Boston, MA 2008.

Song Y.S., Adler, D., **Keles, H.O.** S., Kayaalp, E., Nureddin, A., Anchan, R.M., Maas, R., Demirci, U. "Levitating Vitrified Droplets" 46th Annual Meeting of the Society for Cryobiology, Japan 2009.

Moon, S.J., **Keles, H.O.**, Khademhosseini, A., Kuritzkes D., Demirci, U. "Integrating microfluidic and lens-less imaging for point-of-care test", 41st Annual Oak Ridge Conference Frontiers in Clinical Diagnostics, Washington, DC 2009.

Moon, S., **Keles, H.O.**, Yun-Gon K., Kuritzkes D., Demirci, U. "Lensless Imaging for Point-of-care Testing" 31st Annual International Conference of the IEEE in Medicine and Biology Society (EMBC), Minneapolis, MN 2009

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Hasan, S.K., Moon, S., Song, Y.S., **Keles, H. O.**, Manzur F., Mikkilineni, S., Nagatomi, J., J.W. Hong, Haeggstrom E., Khademhosseini A., Demirci, U., "Layer by layer 3D Tissue Epitaxy by Cell Laden Hydrogel Droplets "IEEE 35th Annual Northeast Bioengineering Conference, Boston, MA 2009.

Xu, F., Max W. C., **Keles, H. O.**, Demirci, U., "Directed Assembly of Magnetic Microscale Hydrogels" 2010 International Conference of Biofabrication Philadelphia, 2010.

Xu, F., Rengarajan, V., Finley, T. D., Sung, Y., Sridharan, B., Wu, C. M., **Keles, H. O.**, Demirci, U., "Directed assembly of magnetic microscale hydrogels." BWH 2010 Poster Session Research Excellence Awards, 2010.

Finley, T. D., Sung, Y., Wu, C. M., Rengarajana, V., Sridharana, B., **Keles, H. O.**, Xu, F., Demirci, U., "Assembly of microscale hydrogels for tissue engineering." 6th Annual Merck/BE-BMES Undergraduate Research Poster Session, Cambridge, MA, USA, 2010.

Xu, F., Gurkan, U.A., Finley T.D., Turkyaydin M., Yavuz A.S., **Keles, H. O.**, Demirci, U., "Directed Assembly of Microscale Particles by Acoustic Waver for Biomedical Applications", Society for Biomaterials, Orlando, FL 2011.

Rengarajan, V., Finley T.D., Sung, Y., Max W. C., Sridharan, B., **Keles, H. O.**, Xu, F., Demirci, U., "Directed Assembly of Microscale Hydrogels via Magnetics", Society for Biomaterials, Orlando, FL 2011.

Zhang X, Khimji I, Shao L., Safaee H., Desai K., **Keles H. O.**, Gurkan U. A., Kayaalp E., Nureddin A., Anchan R.M., Maas R., and Demirci U., "Nanoliter droplet vitrification for cell cryopreservation" SysCODE Consortium 2011, Waltham, MA, 2011

Zhang X, Khimji I, Shao L., Safaee H., Desai K., **Keles H. O.**, Gurkan U. A., Kayaalp E., Nureddin A., Anchan R.M., Maas R., and Demirci U., "Nanoliter droplet vitrification for cell cryopreservation", TERMIS NA Meeting Houston, TX, 2011

Zhang X, Khimji I, Shao L., Safaee H., Desai K., **Keles H. O.**, Gurkan U. A., Kayaalp E., Nureddin A., Anchan R.M., Maas R., Demirci U., "Nanoliter Droplet System for Cell Vitrification, Annual meeting of Biomedical Engineering Society(BMES 2011), Hartford, Connecticut 2011

Keles, H. O., Barbour R.L., Aghajani H., Omurtag A., "Multimodality mapping approach for evolving functional brain connectivity patterns: A fNIRS-EEG study". The Optical Society, BIOMED2014 , April 2014, Miami, FL

Keles, H. O., Barbour R.L., Aghajani H., Omurtag A., "Investigation of the neurovascular coupling from simultaneous fNIRS-EEG system using the triplet holder". The Society for Functional Near Infrared Spectroscopy, fNIRS2014, October 2014, Montreal, Canada

Keles, H. O., Omurtag A., "EEG-fNIRS Investigation of Mental Status". 5Th Annual International Conference in Computational Surgery and Dual Training, NIH Campus, January 2015, Bethesda, MD

Omurtag A., Aghajani H., **Keles, H. O.**, Classifying the Brain's Functional Status in Verbal Fluency Task: EEG+fNIRS, The Society for Functional Near Infrared Spectroscopy, fNIRS2016, October 2016, Paris, France.

Keles, H. O., Gilman J., Pachas, G.N., Omurtag A., Evins A.E., Graph based analysis of resting state fNIRS connectivity in Acute THC intoxication: Preliminary Results, MGH Clinical Research Days, October 2016, Boston

Keles, H. O., Gilman J., Pachas, G.N., Evins A.E., Using Portable imaging to determine marijuana intoxication in human, the CPDD 79th Annual Scientific Meeting, NIH-NIDA International Forum, June 2017, Montreal, Canada.

Gilman J. **Keles, H.O.**, Radoman, M., Pachas, G.N., Evins A.E., Using fNIRS to detect cannabis intoxication: A future clinical target for CUD interventions, 2017 American College of Neuropsychopharmacology (ACNP 56th Annual Meeting) December 2017, Palm Desert, California

İdari Görevler:

1. Mühendislik Fakültesi Dekan Yardımcısı, İstinye Üniversitesi, 2018-2020

2. Bölüm Başkanı, İstinye Üniversitesi, EE Bölümü, 2018-2020

Üyelikler:

Biomedical Engineering Society

Society for Neuroscience

The society of fNIRS

The Optical Society

SPIE – The International Society for Optics and Photonics

