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PROFESSIONAL APPOINTMENTS & EDUCATION

2021 - Present	Department of Biomedical Engineering, Texas A&M University, TX, USA Assistant Professor
2021 - Present	Center for Remote Health Technologies & Systems, Texas A&M University, TX, USA Assistant Professor
2018 - 2021	Department of Electrical and Computer Engineering, UCLA, CA, USA Assistant Project Scientist
2013 - 2018	Department of Electrical and Computer Engineering, UCLA, CA, USA Postdoctoral Scholar
2010 - 2013	METU-MEMS Research and Application Center, Ankara, Turkey Scientific Project Expert
2007 - 2010	Graduate School of Natural and Applied Sciences, Middle East Technical University (METU), Ankara, Turkey Research Assistant
2013, Ph.D.	METU, Ankara, Turkey Department of Chemical Engineering
2007, M.Sc.	METU, Ankara, Turkey Department of Chemical Engineering
2004, Minor	METU, Ankara, Turkey Department of Food Engineering
2004, B.Sc.	METU, Ankara, Turkey Department of Environmental Engineering

PUBLICATIONS

Refereed Journal Articles =====

([†] denotes equal contributions)

1. J. Leonard[†], **H. Ceylan Koydemir[†]**, V. Koutnik, D. Tseng, A. Ozcan, S. Mohanty, “Rapid quantification of microplastics using a smartphone”, *Journal of Hazardous Materials*, (Under review).
2. V. Koutnik, A. Borthakur, J. Leonard, S. Alkidim, **H. Ceylan Koydemir**, D. Tseng, A. Ozcan, S. Ravi, S. Mohanty, “Mobility of polypropylene microplastics in stormwater biofilters under freeze-thaw cycles”, *Journal of Hazardous Materials Letters*, 2022, <https://doi.org/10.1016/j.hazl.2022.100048>.
3. V. Koutnik, J. Leonard, J. B. Glasman, J. Brar, **H. Ceylan Koydemir**, A. Novoselov, R. Bertel, D. Tseng, A. Ozcan, S. Ravi, S. Mohanty, “Microplastics retained in stormwater control measures: Where do they come from and where do they go?”, *Water Research*, 2021, <https://doi.org/10.1016/j.watres.2021.118008>.
4. **H. Ceylan Koydemir** and A. Ozcan, “Smartphone-based sensors and imaging devices for global health”, *Advanced Optical Technologies*, 2021, <https://doi.org/10.1515/aot-2021-0031>.

5. C. Isil[†], K. de Haan[†], Z. Gorocs[†], **H. Ceylan Koydemir[†]**, S. Peterman, D. Baum, F. Song, T. Skandakumar, E. Gumustekin, A. Ozcan, "Phenotypic analysis of microalgae populations using a label-free imaging flow cytometer and deep learning", *ACS Photonics*, 2021, <https://doi.org/10.1021/acspophotonics.1c00220>.
6. **H. Ceylan Koydemir** and A. Ray, "Mobile Diagnostic Devices for Digital Transformation in Personalized Healthcare", *Diagnostics*, 2020, <https://doi.org/10.3390/diagnostics10121008>.
7. Z. Gorocs, D. Baum, F. Song, K. de Haan, **H. Ceylan Koydemir**, Y. Qiu, Z. Cai, T. Skandakumar, S. Peterman, M. Tamamitsu, A. Ozcan, "Label-free detection of *Giardia lamblia* cysts using a deep learning-enabled portable imaging flow cytometer", *Lab on a Chip*, 2020, <https://doi.org/10.1039/DOLC00708K>.
8. K. de Haan[†], **H. Ceylan Koydemir[†]**, Y. Rivenson, D. Tseng, E. A. Van Dyne, L. Bakic, D. Karinca, K. Liang, M. Ilango, E. Gumustekin, A. Ozcan, "Automated screening of sickle cells using a smartphone-based microscope and deep learning", *Nature: npj Digital Medicine*, 2020, <https://doi.org/10.1038/s41746-020-0282-y>.
9. H. Wang[†], **H. Ceylan Koydemir[†]**, Y. Qiu[†], B. Bai, Y. Zhang, Y. Jin, S. Tok, E.C. Yilmaz, E. Gumustekin, Y. Rivenson, A. Ozcan, "Early-detection and classification of live bacteria using time-lapse coherent imaging and deep learning", *Nature: Light Science and Applications*, 2020, <https://doi.org/10.1038/s41377-020-00358-9>.
10. F. Ghaderinezhad, **H. Ceylan Koydemir**, D. Tseng, D. Karinca, K. Liang, A. Ozcan, S. Tasoglu, "Sensing of electrolytes in urine using a miniaturized paper-based device", *Nature: Scientific Reports*, 2020, <https://doi.org/10.1038/s41598-020-70456-6>.
11. **H. Ceylan Koydemir[†]**, S. Rajpal[†], E. Gumustekin, D. Karinca, K. Liang, Z. Gorocs, D. Tseng, A. Ozcan, "Smartphone-based turbidity reader", *Nature: Scientific Reports*, 2019, DOI: 10.1038/s41598-019-56474-z.
12. Y. Zhang , M. Ouyang , A. Ray, T. Liu, J. Kong, B. Bai, D. Kim, A. Guziak , Y. Luo , A. Feizi, K. Tsai, Z. Duan, X. Liu, D.H. Kim, C. Cheung, S. Yalcin, **H. Ceylan Koydemir**, O. Garner, D. Di Carlo, and A. Ozcan, "Computational cytometer based on magnetically-modulated coherent imaging and deep learning", *Nature: Light Science and Applications*, 2019, DOI: 10.1038/s41377-019-0203-5.
13. S. Tok, K. de Haan, D. Tseng, **H. Ceylan Koydemir**, A. Ozcan, "Early detection of *E. coli* and total coliform using an automated, colorimetric and fluorometric fiber optics-based device", *Lab on a Chip*, 2019, DOI: 10.1039/C9LC00652D.
14. T. Ghonge, **H. Ceylan Koydemir**, E. Valera, G. Berger, C. Garcia, N. Nawar, J. Tiao, G. Damhorst, A. Ganguli, U. Hassan, A. Ozcan, R. Bashir, "Smartphone-imaged, microfluidic technique for measuring CD64 expression from whole blood", *Analyst*, 2019, DOI: 10.1039/C9AN00532C, (Selected as cover article of the journal).
15. J. W. Snow, **H. Ceylan Koydemir**, D. K. Karinca, K. Liang, D. Tseng, A. Ozcan, "Rapid imaging, detection, and quantification of *Nosema ceranae* spores in honey bees using mobile phone based fluorescence microscopy", *Lab on a Chip*, 2019, DOI: 10.1039/C8LC01342J.
16. **H. Ceylan Koydemir**, J.T. Coulibaly, D. Tseng, I. I. Bogoch, A. Ozcan, "Design and validation of a wide-field mobile-phone microscope for the label-free diagnosis of *Schistosomiasis*", *Travel Medicine and Infectious Disease*, 2018, DOI: 10.1016/j.tmaid.2018.12.001.
17. V. Müller, J. Sousa, **H. Ceylan Koydemir**, M. Veli, D. Tseng, L. Cerqueira, A. Ozcan, N. Azevedo, F. Westerlund, "Identification of pathogenic bacteria in complex samples using a smartphone based fluorescence microscope", *RSC Advances*, 2018, DOI: 10.1039/C8RA06473C.
18. Y. Zhang[†], **H. Ceylan Koydemir[†]**, M. Schimogowa[†], S. Yalcin, A. Guziak, T. Liu, I. Oguz, Y. Huang, B. Bai, Y. Luo, Y. Luo, Z. Wei, H. Wang, V. Bianco, B. Zhang, R. Nadkarni, K. Hill, and A. Ozcan, "Motility-based label-free detection of parasites in bodily fluids using holographic speckle analysis and deep learning", *Nature: Light Science and Applications*, 2018, <https://doi.org/10.1038/s41377-018-0110-1>.

19. Z. Gorocs, M. Tamamitsu, V. Bianco, P. Wolf, S. Roy, K. Shindo, K. Yanny, Y. Wu, **H. Ceylan Koydemir**, Y. Rivenson, and A. Ozcan, "A deep learning-enabled portable imaging flow cytometer for cost-effective, high-throughput and label-free analysis of natural water", *Nature: Light Science and Applications*, 2018, DOI:10.1038/s41377-018-0067-0.
20. Y. Wu, A. Calis, Y. Luo, C. Chen, M. Lutton, Y. Rivenson, X. Lin, **H. Ceylan Koydemir**, Y. Zhang, H. Wang, Z. Göröcs, and A. Ozcan, "Label-free bio-aerosol sensing using mobile microscopy and deep learning", *ACS Photonics*, 2018, DOI: 10.1021/acspophotonics.8b01109.
21. **H. Ceylan Koydemir** and A. Ozcan, "Smartphones Democratize Advanced Biomedical Instruments and Foster Innovation", *Clinical Pharmacology & Therapeutics*, 2018, DOI: 10.1002/cpt.1081.
22. Y. Rivenson[†], **H. Ceylan Koydemir**[†], H. Wang[†], Z. Wei, Z. Ren, H. Günaydin, Y. Zhang, Z. Göröcs, K. Liang, D. Tseng, and A. Ozcan, "Deep learning enhanced mobile-phone microscopy", *ACS Photonics*, 2018, DOI:10.1021/acspophotonics.8b00146.
23. **H. Ceylan Koydemir** and A. Ozcan, "Wearable and implantable sensors for biomedical applications", *Annual Review of Analytical Chemistry*, 2018, DOI: 10.1146/annurev-anchem-061417-125956.
24. **H. Ceylan Koydemir**, S. Feng, K. Liang, R. Nadkarni, P. Benien, and A. Ozcan, "Comparison of supervised machine learning algorithms for waterborne pathogen detection using mobile-phone fluorescence microscopy," *Nanophotonics*, 2017, DOI: nanoph-2017-0001.
25. **H. Ceylan Koydemir**, A. Ozcan, "Mobile phones create new opportunities for microbiology related research and clinical applications", *Future Microbiology*, 2017, DOI: 10.2217/fmb-2017-0046.
26. I.I. Bogoch, **H. Ceylan Koydemir**, D. Tseng, R.K.D. Ephraim, E. Duah, J. Tee, J.R. Andrews, and A. Ozcan, "Evaluation of a mobile phone based microscope for screening of *Schistosoma haematobium* infection in rural Ghana", *The American Journal of Tropical Medicine and Hygiene*, 2017, DOI: <https://doi.org/10.4269/ajtmh.16-0912>.
27. Z. Göröcs, Y. Rivenson, **H. Ceylan Koydemir**, D. Tseng, T. L. Troy, V. Demas, and A. Ozcan, "Quantitative fluorescence sensing through highly autofluorescent, scattering, and absorbing media using mobile microscopy", *ACS Nano*, 2016, DOI: 10.1021/acsnano.6b05129.
28. B. Cortazar[†], **H. Ceylan Koydemir**[†], D. Tseng, S. Feng and A. Ozcan, "Quantification of plant chlorophyll content using Google Glass," *Lab on a Chip*, 2015, DOI: 10.1039/c4lc01279h.
29. **H. Ceylan Koydemir**, Z. Göröcs, D. Tseng, B. Cortazar, S. Feng, R.Y.L. Chan, J. Burbano, E. McLeod, and A. Ozcan, "Rapid imaging, detection and quantification of Giardia lamblia cysts using mobile-phone based fluorescent microscopy and machine learning," *Lab on a Chip*, 2015, DOI: 10.1039/C4LC01358A, (Selected as a cover article of the journal, and it is a part of the themed collection: Lab on a Chip Recent HOT articles).
30. **H. Ceylan Koydemir**, H. Külah, A. Alp, A. Uner, G. Hasçelik, C. Özgen, "A fully microfabricated electrochemical sensor and its implementation for detection of methicillin resistance in *Staphylococcus aureus*", *IEEE Sensors*, 2014, DOI: 10.1109/JSEN.2014.2305152.
31. **H. Ceylan Koydemir**, H. Külah, C. Özgen, "Solvent compatibility of parylene C film layer", *JMEMS*, 2014, DOI: 10.1109/JMEMS.2013.2273032.
32. **H. Ceylan Koydemir**, H. Külah, C. Özgen, A. Alp, G. Hasçelik, "MEMS biosensors for detection of methicillin resistant *Staphylococcus aureus*", *Biosensors and Bioelectronics*, 2011, DOI: 10.1016/j.bios.2011.07.071, (In the list of most downloaded articles between October 2011 - February 2012).

Conference Proceedings/Presentations =====

1. C. Isil, K. de Haan, Z. Göröcs, **H. Ceylan Koydemir**, S. Peterman, D. Baum, F. Song, T. Skandakumar, E. Gumustekin, and A. Ozcan, "Label-free imaging flow cytometry for phenotypic analysis of microalgae populations using deep learning," OSA Frontiers in Optics (FiO) Conference, November 1-4, 2021, Virtual Conference.
2. H. Wang, **H. Ceylan Koydemir**, Y. Qiu, B. Bai, Y. Zhang, Y. Jin, S. Tok, E.C. Yilmaz, E. Gumustekin, Y. Rivenson, and A. Ozcan, "Early identification of live bacteria in water samples using

- timelapse holographic imaging and deep learning”, SPIE Optics and Photonics Conference, August 1-5, 2021, Virtual Conference, Paper # 11804-64
3. Z. Göröcs, D. Baum, F. Song, K. de Haan, **H. Ceylan Koydemir**, Y. Qiu, Z. Cai, T. Skandakumar, S. Peterman, M. Tamamitsu, A. Ozcan, “Deep Learning-enabled Holographic Imaging FlowCytometry for Label-Free Detection of Giardia Lamblia in Water Samples,” OSA Imaging and Applied Optics Congress, July 19-23, 2021, Virtual Conference
 4. H. Wang, **H. Ceylan Koydemir**, Y. Qiu, B. Bai, Y. Zhang, Y. Jin, S. Tok, E.C. Yilmaz, E. Gumustekin, Y. Rivenson, A. Ozcan. “Deep Learning-enabled Coherent Imaging Achieves Early Detection and Classification of Bacteria in Water Samples,” OSA Conference on Lasers and Electro-optics (CLEO), May 9-14, 2021, Virtual Conference
 5. D.J. Leonard, **H. Ceylan Koydemir**, V. Smirnova, D. Tseng, A. Ozcan, S. Mohanty, “Rapid detection of microplastics using mobile phone technology”. ACS Spring 2021, Division of Environmental Chemistry (ENVR), April 5-16, 2021, Virtual Conference.
 6. Z. Göröcs, D. Baum, F. Song, K. DeHaan, **H. Ceylan Koydemir**, Y. Qiu, Z. Cai, T. Skandakumar, S. Peterman, M. Tamamitsu, and A. Ozcan, “High throughput detection and quantification of Giardia lamblia cysts using holographic imaging flow-cytometry and deep learning,” American Physical Society, APS March Meeting, March 15-19, 2021, Virtual Conference
 7. H. Wang, **H. Ceylan Koydemir**, Y. Qiu, B. Bai, Y. Zhang, Y. Jin, S. Tok, E.C. Yilmaz, E. Gumustekin, Y. Rivenson, and A. Ozcan, “Early detection and classification of live bacteria using holography and deep learning,” American Physical Society, APS March Meeting, March 15-19, 2021, Virtual Conference
 8. C. Isil, K. de Haan, Z. Gorocs, **H. Ceylan Koydemir**, D. Baum, F. Song, T. Skandakumar, E. Gumustekin, A. Ozcan, “Label-free analysis of micro-algae populations using a high-throughput holographic imaging flow cytometer and deep learning”, SPIE Photonics West, Label-free Biomedical Imaging and Sensing (LBIS), March 6-11, 2021, San Francisco, CA, USA.
 9. K. De Haan, **H. Ceylan Koydemir**, Y. Rivenson, D. Tseng, E. Van Dyne, L. Bakic, D. Karinca, K. Liang, M. Ilango, E. Gumustekin, A. Ozcan, “Screening of sickle cell disease using a smartphone-based microscope and deep-learning,” SPIE Photonics West, Optics and Biophotonics in Low-Resource Settings VII, March 6-11, Virtual Conference, Paper # 11632-9
 10. T. Liu, Y. Zhang, M. Ouyang, A. Ray, J. Kong, B. Bai, D. Kim, A. Guziak, Y. Luo, A. Feizi, K. Tsai, Z. Duan, X. Liu, D. Kim, C. Cheung, S. Yalcin, **H. Ceylan Koydemir**, O.B. Garner, D. Di Carlo, A. Ozcan, “Deep learning-based cytometer using magnetically modulated coherent imaging,” SPIE Photonics West, Optics and Biophotonics in Low-Resource Settings VII, March 6-11, 2021, San Francisco, CA, USA.
 11. Z. Gorocs, D. Baum, F. Song, K. de Haan, **H. Ceylan Koydemir**, Y. Qiu, Z. Cai, T. Skandakumar, S. Peterman, M. Tamamitsu, A. Ozcan, “Label-free detection of Giardia lamblia cysts in water samples using a field-portable imaging flow cytometer and deep learning,” SPIE Photonics West, Optics and Biophotonics in Low-Resource Settings VII, March 6-11, 2021, San Francisco, CA, USA.
 12. T. Liu, Y. Zhang, M. Ouyang, A. Ray, J. Kong, B. Bai, D. Kim, A. Guziak, Y. Luo, A. Feizi, K. Tsai, Z. Duan, X. Liu, D. Kim, C. Cheung, S. Yalcin, **H. Ceylan Koydemir**, O.B. Garner, D. Di Carlo, A. Ozcan, “Deep learning-based cytometer using magnetically modulated coherent imaging,” SPIE Optics and Photonics Conference, August 24-28, 2020, Virtual Conference, Paper # 11469-49.
 13. K. de Haan, **H. Ceylan Koydemir**, Y. Rivenson, D. Tseng, E. Van Dyne, L. Bakic, D. Karinca, K. Liang, M. Ilango, E. Gumustekin, A. Ozcan, “Sickle cell disease screening from thin blood smears using a smartphone-based microscope and deep learning,” SPIE Optics and Photonics Conference, August 24-28, 2020, Virtual Conference, Paper # 11469-54.
 14. K. de Haan, **H. Ceylan Koydemir**, Y. Rivenson, D. Tseng, E. Van Dyne, L. Bakic, D. Karinca, K. Liang, M. Ilango, E. Gumustekin, A. Ozcan, “Automated screening of sickle cells using a smartphone-based microscope and deep learning,” OSA Conference on Lasers and Electro-optics (CLEO), May 11-15, 2020, San Jose, CA USA.

15. T. Liu, Y. Zhang, M. Ouyang, A. Ray, J. Kong, B. Bai, D. Kim, A. Guziak, Y. Luo, A. Feizi, K. Tsai, Z. Duan, X. Liu, D. Kim, C. Cheung, S. Yalcin, **H. Ceylan Koydemir**, O. B. Garner, D. Di Carlo, A. Ozcan, "Deep learning-enabled computational cytometer using magnetically modulated coherent imaging," 2020 OSA Biophotonics Congress: Biomedical Optics (BioMed 2020), April 20-23, 2020, Fort Lauderdale, FL USA.
16. H. Wang, **H. Ceylan Koydemir**, Y. Qiu, B. Bai, Y. Zhang, Y. Jin, S. Tok, E. C. Yilmaz, E. Gumustekin, Y. Luo, Y. Rivenson, A. Ozcan, "Deep learning enables high-throughput early detection and classification of bacterial colonies using time-lapse coherent imaging", SPIE Photonics West, Optics and Biophotonics in Low Resource Settings VI, February 1-6, 2020, San Francisco, CA, USA.
17. S. Tok, K. de Haan, D. K. Tseng, C. F. Usanmaz, **H. Ceylan Koydemir**, A. Ozcan, "Early detection of *E.coli* and total coliform using an automated fiber optics-based sensing system", SPIE Photonics West, Optics and Biophotonics in Low Resource Settings VI, February 1-6, 2020, San Francisco, CA, USA.
18. **H. Ceylan Koydemir**, J. T. Coulibaly, D. Tseng, I. I. Bogoch, A. Ozcan, "Field-testing of a mobile microscope for label-free detection of *Schistosoma* eggs in urine and stool samples", SPIE Photonics West, Optics and Biophotonics in Low Resource Settings VI, February 1-6, 2020, San Francisco, CA, USA.
19. **H. Ceylan Koydemir**, S. Rajpal, E. Gumustekin, D. Karinca, K. Liang, Z. Gorocs, D. Tseng, A. Ozcan, "Turbidity analysis using a smartphone-based reader", SPIE Photonics West, Optics and Biophotonics in Low Resource Settings VI, February 1-6, 2020, San Francisco, CA, USA.
20. V. Müller, J.M. Sousa, **H. Ceylan Koydemir**, M. Veli, D. Tseng, L. Cerqueira, A. Ozcan, N. F. Azevedo, F. Westerlund, "Mobile-phone microscopy-based identification of pathogenic bacteria in complex samples", SPIE Photonics West, Optics and Biophotonics in Low Resource Settings VI, February 1-6, 2020, San Francisco, CA, USA.
21. J. Snow, **H. Ceylan Koydemir**, D. Tseng, D. Karinca, K. Liang, and A. Ozcan, "Rapid and automated detection of *Nosema* infection in honey bees using a mobile microscope", BMES (Biomedical Engineering Society) Annual Meeting, Advances in Sensing and Imaging Technology, October 16-19, 2019, Philadelphia, Pennsylvania, USA.
22. **H. Ceylan Koydemir**, S. Rajpal, E. Gumustekin, D. Karinca, K. Liang, Z. Gorocs, D. Tseng, and A. Ozcan, "Water quality analysis using a smartphone-based turbidity reader", BMES (Biomedical Engineering Society) Annual Meeting, Advances in Sensing and Imaging Technology, October 16-19, 2019, Philadelphia, Pennsylvania, USA.
23. Y. Wu, A. Calis, Y. Luo, C. Chen, M. Lutton, Y. Rivenson, X. Lin, **H. Ceylan Koydemir**, Y. Zhang, H. Wang, Z. Göröcs, and A. Ozcan, "Deep-learning based label free bio-aerosol sensing", BMES (Biomedical Engineering Society) Annual Meeting, Advances in Sensing and Imaging Technology, October 16-19, 2019, Philadelphia, Pennsylvania, USA.
24. Y. Wu, A. Calis, Y. Luo, C. Chen, M. Lutton, Y. Rivenson, X. Lin, **H. Ceylan Koydemir**, Y. Zhang, H. Wang, Z. Göröcs, and A. Ozcan, "Mobile label-free bio-aerosol sensing using deep neural networks," 20th Annual UC Systemwide Bioengineering Symposium, June 27-29, 2019, University of California, Merced, CA, USA.
25. Z. Göröcs, M. Tamamitsu, V. Bianco, P. Wolf, S. Roy, K. Shindo, K. Yanny, Y. Wu, **H. Ceylan Koydemir**, Y. Rivenson, and A. Ozcan, "Label-free monitoring of algae using a high throughput, field-portable imaging flow cytometer," 20th Annual UC Systemwide Bioengineering Symposium, June 27-29, 2019, University of California, Merced, CA, USA.
26. J. Snow, **H. Ceylan Koydemir**, D. Tseng, D. Karinca, K. Liang, and A. Ozcan, "Detection of *Nosema ceranae* in honey bees using a mobile microscope," 20th Annual UC Systemwide Bioengineering Symposium, June 27-29, 2019, University of California, Merced, CA, USA.
27. **H. Ceylan Koydemir**, J. T. Coulibaly, D. Tseng, I. I. Bogoch, and A. Ozcan, "Field testing of a mobile phone microscope for label-free screening of *Schistosoma* eggs," 20th Annual UC Systemwide Bioengineering Symposium, June 27-29, 2019, University of California, Merced, CA, USA.

28. Y. Zhang, **H. Ceylan Koydemir**, M. M. Schimogawa, S. Yalcin, A. Guziak, T. Liu, I. Oguz, Y. Huang, B. Bai, Y. Luo, Y. Luo, Z. Wei, H. Wang, V. Bianco, B. Zhang, R. Nadkarni, K. Hill, and A. Ozcan, "Label-free and high-throughput detection of motile parasites in bodily fluids using time-resolved speckle imaging," 20th Annual UC Systemwide Bioengineering Symposium, June 27-29, 2019, University of California, Merced, CA, USA.
29. **H. Ceylan Koydemir**, S. Rajpal, E. Gumustekin, D. Karinca, K. Liang, Z. Gorocs, D. Tseng, and A. Ozcan, "Field portable smartphone based reader for turbidity analysis," 20th Annual UC Systemwide Bioengineering Symposium, June 27-29, 2019, University of California, Merced, CA, USA.
30. Y. Wu, A. Calis, Y. Luo, C. Chen, M. Lutton, Y. Rivenson, X. Lin, **H. Ceylan Koydemir**, Y. Zhang, H. Wang, Z. Göröcs, A. Ozcan, "Label-free bio-aerosol sensing using on-chip holographic microscopy and deep learning", OSA Conference on Lasers and Electro-optics (CLEO'19), May 5-10, 2019, San Jose, CA USA.
31. Z. S. Göröcs, M. Tamamitsu, V. Bianco, P. Wolf, S. Roy, K. Shindo, K. Yanny, Y. Wu, **H. Ceylan Koydemir**, Y. Rivenson, A. Ozcan, "Portable imaging flow-cytometer using deep learning-based holographic image reconstruction", OSA Conference on Lasers and Electro-optics (CLEO'19), May 5-10, 2019, San Jose, CA USA.
32. Y. Zhang, **H. Ceylan Koydemir**, M. Shimogowa, S. Yalcin, K. Hill, A. Ozcan, " High-throughput and label-free detection of motile parasites in bodily fluids using lensless time-resolved speckle imaging" OSA Conference on Lasers and Electro-optics (CLEO'19), May 5-10, 2019, San Jose, CA USA.
33. J. Snow, **H. Ceylan Koydemir**, D. Karinca, K. Liang, D. Tseng, A. Ozcan, "Honey bee parasite detection using a smartphone", The Emerging Researchers National (ERN) Conference in Science, Technology, Engineering and Mathematics (STEM), Feb 21-23, 2019, Washington, DC, USA.
34. Y. Wu, A. Calis, Y. Luo, C. Chen, M. Lutton, Y. Rivenson, X. Lin, **H. Ceylan Koydemir**, Y. Zhang, H. Wang, Z. Göröcs, A. Ozcan, "Deep-learning enabled label-free bio-aerosol sensing using mobile microscopy", SPIE Photonics West 2019, Optics and Biophotonics in Low Resource Settings V, February 2-7, 2019, San Francisco, CA, USA.
35. Y. Rivenson, **H. Ceylan Koydemir**, H. Wang, Z. Wei, Z. Ren, H. Gunaydin, Y. Zhang, Z. Gorocs, K. Liang, D. Tseng, A. Ozcan, "Deep learning enhances mobile microscopic imaging", SPIE Photonics West 2019, Optics and Biophotonics in Low Resource Settings V, February 2-7, 2019, San Francisco, CA, USA.
36. Z. S. Göröcs, M. Tamamitsu, V. Bianco, P. Wolf, S. Roy, K. Shindo, K. Yanny, Y. Wu, **H. Ceylan Koydemir**, Y. Rivenson, A. Ozcan, "Deep learning-based label-free imaging flow cytometry for on-site analysis of water samples", SPIE Photonics West 2019, Optics and Biophotonics in Low Resource Settings V, February 2-7, 2019, San Francisco, CA, USA.
37. J. Snow, **H. Ceylan Koydemir**, D. Karinca, K. Liang, D. Tseng, A. Ozcan, "Bee parasite detection using a smartphone", SPIE Photonics West 2019, Optics and Biophotonics in Low Resource Settings V, February 2-7, 2019, San Francisco, CA, USA.
38. Y. Zhang, **H. Ceylan Koydemir**, M. Shimogowa, S. Yalcin, K. Hill, A. Ozcan, "Time-resolved holographic speckle analysis for label-free and high-throughput detection of motile parasites in bodily fluids", SPIE Photonics West 2019, Optics and Biophotonics in Low Resource Settings V, February 2-7, 2019, San Francisco, CA, USA.
39. Y. Rivenson, **H. Ceylan Koydemir**, H. Wang, Z. Wei, Z. Ren, H. Gunaydin, Y. Zhang, Z. Gorocs, K. Liang, D. Tseng, A. Ozcan, "Deep learning bridges the gap between mobile and laboratory grade microscopes", BMES (Biomedical Engineering Society) Annual Meeting, Advances in Sensing and Imaging Technology, October 17-20, 2018, Atlanta, Georgia, USA.
40. Y. Zhang, **H. Ceylan Koydemir**, M. Shimogowa, S. Yalcin, K. Hill, A. Ozcan, "Label-free and high-throughput detection of motile parasites from bodily fluids using time-resolved speckle imaging", BMES (Biomedical Engineering Society) Annual Meeting, Advances in Sensing and Imaging Technology, October 17-20, 2018, Atlanta, Georgia, USA.

41. S. Rajpal, **H. Ceylan Koydemir**, Z. Gorocs, D. Karnica, A. Ozcan, "Turbidity Measurement Using A Smartphone," BMES (Biomedical Engineering Society) Annual Meeting, October 17–20, 2018, Atlanta, Georgia, USA
42. T. Ghonge, **H. Ceylan Koydemir**, E. Valera, J. Berger, A. Ganguli, G. Damhorst, A. Ozcan, and R. Bashir, "A smartphone-assisted microfluidic assay for measuring CD64 expression on neutrophils in suspected sepsis-positive patients", BMES (Biomedical Engineering Society) Annual Meeting, Nanotechnologies for Global Health and Infectious Diseases, October 17-20, 2018, Atlanta, Georgia, USA.
43. Y. Rivenson, **H. Ceylan Koydemir**, H. Wang, Z. Wei, Z. Ren, H. Gunaydin, Y. Zhang, Z. Gorocs, K. Liang, D. Tseng, A. Ozcan, "Deep learning improves mobile-phone microscopy", SPIE Optical Engineering and Applications 2018, August 19-23, 2018, San Diego, CA, USA.
44. H. Wang, Y. Rivenson, **H. Ceylan Koydemir**, Z. Wei, Z. Ren, H. Gunaydin, Y. Zhang, Z. Gorocs, K. Liang, D. Tseng and A. Ozcan, "Deep learning enhances mobile microscopy," OSA Imaging and Applied Optics Congress, June 25-28, 2018, Orlando, Florida, USA (Post-deadline Paper).
45. Y. Rivenson, **H. Ceylan Koydemir**, H. Wang, Z. Wei, Z. Ren, H. Günaydin, Y. Zhang, Z. Göröcs, K. Liang, D. Tseng, A. Ozcan, "Deep learning improves smartphone microscopy using a convolutional neural network," 20th TechConnect World Innovation Conference, Chemical, Physical & Bio-Sensors Symposium, May 13-16, 2018, Anaheim, CA, USA.
46. Z. Göröcs, Y. Rivenson, **H. Ceylan Koydemir**, D. Tseng, T.L. Troy, V. Demas and A. Ozcan, "Compact imaging system for quantitative fluorescence sensing through autofluorescent, scattering and absorbing media", SPIE Photonics West 2018, Optics and Biophotonics in Low Resource Settings III, 27 January – 1 February 2018, San Francisco, CA, USA, Paper # 10485-23.
47. Z. Göröcs, Y. Rivenson, **H. Ceylan Koydemir**, D. Tseng, T.L. Troy, V. Demas and A. Ozcan, "Quantitative fluorescence sensing through an autofluorescent skin tissue phantom using a portable microscope," 18th Annual UC Systemwide Bioengineering Symposium, June 28-30, 2017, University of California, Los Angeles, CA, USA.
48. **H. Ceylan Koydemir**, I. I. Bogoch, D. Tseng, R.K.D. Ephraim, E. Duah, J. Tee, J. R. Andrews, and A. Ozcan, "Field testing of a mobile phone microscope for screening of schistosomiasis in Sub-Saharan Africa," 18th Annual UC Systemwide Bioengineering Symposium, June 28-30, 2017, University of California, Los Angeles, CA, USA.
49. **H. Ceylan Koydemir**, S. Feng, K. Liang, D. Tseng, R. Nadkarni, P. Benien, and A. Ozcan, "Automated detection and enumeration of waterborne pathogens using mobile phone microscopy and machine learning," OSA Conference on Lasers and Electro-optics (CLEO '17), May 14-19, 2017, San Jose, CA, USA.
50. Z. Göröcs, Y. Rivenson, **H. Ceylan Koydemir**, D. Tseng, T. Troy, V. Demas, and A. Ozcan "Mobile microscope for quantitative fluorescence sensing through highly autofluorescent and scattering media" OSA Conference on Lasers and Electro-optics (CLEO '17), May 14-19, 2017, San Jose, CA USA.
51. **H. Ceylan Koydemir**, S. Feng, K. Liang, R. Nadkarni, D. Tseng, P. Benien and A. Ozcan, "Rapid detection and quantification of waterborne pathogens using smartphone based fluorescence microscopy and machine learning," The Emerging Researchers National (ERN) Conference in Science, Technology, Engineering and Mathematics (STEM), March 2-4, 2017, Washington, DC, USA.
52. **H. Ceylan Koydemir**, S. W. Feng, K. Liang, R. Nadkarni, D. Tseng, P. Benien, A. Ozcan, "A survey of supervised machine learning models for mobile-phone based pathogen identification and classification", SPIE Photonics West 2017, Optics and Biophotonics in Low Resource Settings III, 28 January – 2 February 2017, San Francisco, CA, USA, Paper # 10055-9.
53. **H. Ceylan Koydemir**, and A. Ozcan, "Waterborne pathogen detection using a smartphone-based fluorescence microscope and machine learning", Biological and Chemical Sensors Summit, December 5-7, 2016, La Jolla, CA, USA.

54. **H. Ceylan Koydemir**, and A. Ozcan, "Waterborne pathogen detection using a smartphone-based fluorescence microscope and machine learning", Clean Air and Water Solutions Conference, American Filtration and Separations Society, October 25-26, 2016, San Diego, CA, USA.
55. **H. Ceylan Koydemir**, I.I. Bogoch, D. Tseng, R.K.D. Ephraim, E. Duah, J. Tee, J. R. Andrews, and A. Ozcan, "Label-free field screening of *Schistosoma haematobium* eggs in urine samples using a cost-effective smartphone based microscope", BMES (Biomedical Engineering Society) Annual Meeting, Micro/Nano Tools in Medicine, October 5-8, 2016, Minneapolis, Minnesota, USA.
56. **H. Ceylan Koydemir**, E. Van Dyne, D. Tseng, S. Feng, D. Karinca, K. Liang, R. Nadkarni, R. Varma, and A. Ozcan, "Sickle cell detection using a smartphone based transmission microscope", 17th Annual UC Systemwide Bioengineering Symposium, June 13-15, 2016, University of California, San Francisco, CA, USA.
57. **H. Ceylan Koydemir**, I. I. Bogoch, D. Tseng, R.K.D. Ephraim, E. Duah, J. Tee, J.R. Andrews, and A. Ozcan, "Field-testing of a cost-effective mobile-phone based microscope for screening of *Schistosoma haematobium*", SPIE Photonics West 2016, Optics and Biophotonics in Low Resource Settings II, February 13-18, 2016, San Francisco, CA, USA, Paper # 9699-23.
58. **H. Ceylan Koydemir**, Z. Göröcs, D. Tseng, B. Cortazar, S. W. Feng, R. Yan Lok Chan, J. Burbano, E. McLeod, A. Ozcan, "Rapid and sensitive detection of waterborne pathogens using machine learning on a smartphone based fluorescence microscope", SPIE Photonics West 2016, Optics and Biophotonics in Low Resource Settings II, February 13-18, 2016, San Francisco, CA, USA, Paper # 969934.
59. **H. Ceylan Koydemir** and A. Ozcan, "Mobile-phone based optical imaging platform for rapid and accurate detection and quantification of waterborne pathogens in low resource settings", The Knowledge Foundation's Sensor Global Summit 2015, Track 3: Sensor R&D – Advanced Materials, Design, Modeling & Fusion for Sensor Applications, November 10 - 11, 2015, La Jolla, California, USA (Invited Talk).
60. **H. Ceylan Koydemir**, Z. Göröcs, D. Tseng, B. Cortazar, S. Feng, R. Yan Lok Chan, J. Burbano, E. McLeod, and A. Ozcan, "Mobile-phone based optical microscopy and machine learning platform for rapid detection and quantification of waterborne pathogens in low resource settings", IEEE Global Humanitarian Technology Conference (GHTC), October 8-11, 2015, Seattle, Washington, USA.
61. B. Cortazar, **H. Ceylan Koydemir**, D. Tseng, S. Feng, and A. Ozcan, "Non-destructive and rapid plant chlorophyll quantification using Google Glass," BMES (Biomedical Engineering Society) Annual Meeting, October 7-10, 2015, Tampa, Florida, USA.
62. **H. Ceylan Koydemir**, B. Cortazar, D. Tseng, S. Feng, and A. Ozcan, "Non-invasive and field-based quantification of plant chlorophyll content using Google Glass", 16th Annual UC Systemwide Bioengineering Symposium, June 22-24, 2015, University of California, Santa Cruz, CA, USA.
63. **H. Ceylan Koydemir**, Z. Göröcs, D. Tseng, and A. Ozcan, "Rapid and sensitive detection and counting of *Giardia lamblia* cysts in water samples using a field portable and cost-effective fluorescence imaging platform on a mobile-phone", University of California, Global Health Day, April 18, 2015, University of California, Los Angeles, CA, USA.
64. **H. Ceylan Koydemir**, Z. Göröcs, E. Mcleod, D. Tseng and A. Ozcan, "Field portable fluorescence microscopy for detection of *Giardia lamblia* cysts in water samples," SPIE Photonics West, Optics and Biophotonics in Low-Resource Settings, February 7-12, 2015, San Francisco, CA, USA, Paper # 9314-28.
65. B. Cortazar, **H. Ceylan Koydemir**, D. Tseng, S. W. Feng, and A. Ozcan, "Field quantification of plant chlorophyll content using Google Glass," SPIE Photonics West, Optics and Biophotonics in Low Resource Settings, February 7-12, 2015, San Francisco, CA, USA, Paper # 9314-4.
66. **H. Ceylan Koydemir**, Z. Göröcs, E. McLeod, D. Tseng, A. Ozcan, "Waterborne pathogen detection using a smart phone based fluorescent microscopy," MicroTAS 2014 – The 18th International Conference on Miniaturized Systems for Chemistry and Life Sciences, October 26-30, 2014, San Antonio, Texas, USA.

67. A.P. Gifford, **H. Ceylan Koydemir**, and A. Ozcan, "Automated Detection of *Giardia lamblia* Cysts and *Cryptosporidium parvum* Oocysts in Microscopy Images Using Digital Image Processing," BMES (Biomedical Engineering Society) Annual Meeting, October 22-25, 2014, San Antonio, Texas, USA.
68. **H. Ceylan Koydemir**, Z. Göröcs, E. McLeod, D. Tseng, A. Ozcan, "Smartphone enabled waterborne pathogen detection using fluorescence microscopy", 15th Annual UC Systemwide Bioengineering Symposium, June 18-20, 2014, University of California, Irvine, USA.
69. G. Bahrieh, **H. Ceylan Koydemir**, M. Erdem, E. Özgür, U. Gündüz, H. Külah, "Dielectric characterization of imatinib resistant K562 leukemia cells through electrorotation with 3-D electrodes", IEEE SENSORS 2013 Conference, November 3-6, 2013, Baltimore, Maryland, USA.
70. **H. Ceylan Koydemir**, D. Hocaoglu, H. Külah, C. Özgen, "Femtogram-level detection of *Staphylococcal enterotoxin* B using MEMS based micro electrochemical sensor", 44th World Chemistry Congress, August 11-16, 2013, İstanbul, Turkey.
71. H. Torul, U. Tamer, Y. Adıgüzel, H. Çiftçi, **H. Ceylan Koydemir**, and H. Külah, "SERS based nonenzymatic glucose detection on chip", 8th International Conference on Instrumental Methods of Analysis Modern Trends and Applications, September 15-19, 2013, Thessaloniki, Greece.
72. **H. Ceylan Koydemir**, H. Külah, C. Özgen, "Integration of a disposable microelectrochemical sensor with microfluidics for point of care applications", Uluslararası Katılımlı Elektrokimya Çalıştayı – Nanoyapı Modifiye Elektrokimyasal ve Biyoelektrokimyasal Sistemler, June 23-28, 2013, Muğla, Turkey.
73. **H. Ceylan Koydemir**, H. Külah, C. Özgen, "Thin film biosensor for electrochemical detection of hybridization of DNA", 10th National Chemical Engineering Congress, September 3-6, 2012, İstanbul, Turkey.
74. **H. Ceylan Koydemir**, H. Külah, C. Özgen, İ. Tosun, "Effects of solvents on dissolution of photoresist in parylene microchannels", TechConnect World 2012(Nanotech), June 18-21, 2012, Santa Clara, California, USA.
75. **H. Ceylan Koydemir**, H. Külah, C. Özgen, A. Alp, G. Hasçelik, "MEMS based micro electrochemical sensor for detection of MRSA", 7th National Molecular and Diagnostic Microbiology Congress, June 5-8, 2012, Ankara, Turkey.
76. **H. Ceylan Koydemir**, H. Külah, C. Özgen, "A micro electrochemical sensor for the detection of methicillin resistance in *Staphylococcus aureus*", 22nd Anniversary World Congress on Biosensors, May 15-18, 2012, Cancun, Mexico.
77. D. Ertürkan, **H. Ceylan Koydemir**, H. Külah, and C. Özgen, "Detection of *Candida albicans* with the use of protocol developed for MEMS based biosensors", Turkish National Committee of Automatic Control, September 14-16, 2011, İstanbul, Turkey.
78. **H. Ceylan**, H. Külah, A. Alp, G. Hasçelik, C. Özgen, "Design and fabrication of MEMS based electrochemical biosensor", 9th National Chemical Engineering Congress, June 22-25, 2010, Ankara, Turkey.
79. **H. Ceylan**, H. Külah, A. Alp, C. Özgen and G. Hasçelik, "A disposable MEMS DNA biosensor for antibiotic resistant gene detection in *Staphylococcus aureus*", 15th National Biomedical Engineering Meeting, April 21-24, 2010, Antalya, Turkey.
80. **H. Ceylan**, H. Külah, C. Özgen, A. Alp, G. Hasçelik, "Detection of bacterial DNA using MEMS based DNA biosensor", Turkish National Committee of Automatic Control, October 13-16, 2009, İstanbul, Turkey.
81. **H. Ceylan**, C. Özgen, "Dynamic modelling and optimal control of a multicomponent batch distillation column", 17th IFAC World Congress, July 6-11, 2008, Seoul, Korea.
82. **H. Ceylan**, C. Özgen, "Dynamic modeling and simulation studies for a multicomponent batch packed distillation column", 8th National Chemical Engineering Congress, August 26-28, 2008, Malatya, Turkey.
83. **H. Ceylan**, C. Özgen, "Optimal control of multicomponent batch packed distillation column", Turkish National Committee of Automatic Control, September 05-07, 2007, İstanbul, Turkey.

Book Chapter

1. A. Ray and **H. Ceylan Koydemir**, “Mobile Diagnosis 2.0”, *Diagnostics*, MDPI, Special Issue E-book, 2021.
2. **H. Ceylan Koydemir**, H. Külah, C. Özgen, “Thin films and biosensors”, in “Thin Films and Coatings in Biology”, Editors: S. Nazarpour, M. Chaker, Springer, 2014.

Patents

1. A. Ozcan, Y. Rivenson, H. Wang, **H. Ceylan Koydemir**, Y. Qui, “System and method for the early detection and classification of live microorganisms using time-lapse coherent imaging and deep learning” submitted disclosure document through UCLA Tech Transfer Office, filed in Jan 2020.
2. A. Ozcan, Y. Rivenson, K. de Haan, **H. Ceylan Koydemir**, “Portable electronic microscope for automated screening of sickle cells using deep learning”, submitted disclosure document through UCLA Tech Transfer Office, filed in Nov 2019.
3. A. Ozcan, K. de Haan, **H. Ceylan Koydemir**, S. Tok, D. Tseng, “Early detection of *E.coli* and total coliform using an automated colorimetric and fluorometric fiber optics-based device”, submitted disclosure document through UCLA Tech Transfer Office, filed in Sep 2019.
4. A. Ozcan, Y. Zhang, **H. Ceylan Koydemir**, “Motility-based label-free detection of parasites in bodily fluids using holographic speckle analysis and deep learning”, submitted disclosure document through UCLA Tech Transfer Office, filed in July 2018.
5. A. Ozcan, S. Feng, D. Tseng, B. Cortazar, **H. Ceylan Koydemir**, “Method and device for quantification of plant chlorophyll content” (U.S. Patent No. **10,175,215**, issued 1/8/2019).
6. **H. Ceylan Koydemir**, H. Külah, C. Özgen, “Micro electrochemical sensor”, (TR 2014 14481 B).

TEACHING EXPERIENCE

- 2021 - 2022, (Fall 2021) BMEN 452, Mass and Energy Transport in Biosystems, Department of Bioengineering, Texas A&M University
- 2022 – Present, BMEN 491, Department of Bioengineering, Texas A&M University
- 2007 – 2012, Teaching Assistantship at Department of Chemical Engineering, METU, Course name: CHE 420 Chemical Engineering Laboratory III

EDITORIAL BOARDS & PROFESSIONAL SERVICE

- 2021 – Present, Reviewer, Measurement (Elsevier)
- Fall 2021, Graduate Committee Member, TAMU, Biomedical Engineering
- 2021 – Present, Facilities Member, TAMU, Biomedical Engineering
- 2021 – Present, Reviewer, Optics & Laser Technology
- 2020, Abstract Reviewer, Biomedical Engineering Society (BMES) Annual Meeting
- 2020, Guest Editor, Diagnostics, Mobile Diagnosis 2.0
- 2020, Guest Editor, Sensors, Bioimaging and Biosensing in Telemedicine
- 2020, Session Chair, SPIE Photonics West, Machine Learning Enabled Microscopy and Sensing
- 2019, Session Chair, SPIE Photonics West, Tomographic Methods
- 2019 - Present, Technical Program Committee Member, IEEE Global Humanitarian Technology Conference
- 2016 – Present, Member, BMES
- 2022-Present, Member, IEEE
- 2015, 2017, 2018, Organizing Committee Member, HHMI Undergraduate Research Day at UCLA

AWARDS & FELLOWSHIPS

- 2013, METU Ph.D. Thesis of the Year Award, given by METU Prof. Dr. Mustafa N. Parlar Education and Research Foundation
- 2013, Dr. Haluk Sanver Technology Award, given by the Department of Chemical Engineering, METU

- 2011, Prof. Dr. Hasan Orbey, Ph.D. Thesis Award, given by the Department of Chemical Engineering, METU
- 2011, The Scientific and Technological Research Council of Turkey Incentive Award for the International Scientific Publications, given by TUBITAK
- 2011, METU Publication Award, given by METU
- 2010, The Best Paper Award in the 15th National Biomedical Engineering Conference
- 2005 – 2012, The Scientific and Technological Research Council of Turkey Ph.D. and M.Sc. Fellowships

DISSERTATIONS

- Ph.D. Thesis: MEMS based electrochemical DNA sensor to detect methicillin resistant *Staphylococcus aureus* (MRSA) and vancomycin resistant *Enterococcus* species
Supervisors: Prof. Canan Özgen (METU, Department of Chemical Engineering) & Prof. Haluk Külah (METU, Department of Electrical and Electronics Engineering)
This work comprises the design, fabrication, and implementation of a micro electrochemical sensor for early diagnosis of MRSA infection using MEMS technology and surface chemistry procedures.
- M.Sc. Thesis: Control and simulation studies for a multicomponent batch packed distillation column
Supervisor: Prof. Canan Özgen (METU, Department of Chemical Engineering)

INVITED TALKS

- **H. Ceylan Koydemir**, “Mobile Health Technologies for Global Health Applications”, Department of Electrical and Computer Engineering, ECEN681 Graduate Seminar, Texas A&M University, Nov 2021.
- **H. Ceylan Koydemir**, “Mobile microscopy”, DelNAM SS2, Portugal, 2021 (Invited Virtual Talk).
- **H. Ceylan Koydemir**, “Deep learning enables high-throughput early detection and classification of bacterial colonies using time-lapse coherent imaging”, GarageTalk, Koc R&D, 2020 (Invited Talk).
- **H. Ceylan Koydemir**, “Engineering smart and mobile technologies for global health”, Department of Bioengineering, UCLA, 2019.
- **H. Ceylan Koydemir**, “Mobile phone-based microscopes as digital imaging, sensing, and diagnostic tools”, Environmental Science Colloquium, UCLA, 2018.
- **H. Ceylan Koydemir** and A. Ozcan, "Mobile-phone based optical imaging platform for rapid and accurate detection and quantification of waterborne pathogens in low resource settings", The Knowledge Foundation's Sensor Global Summit 2015, Track 3: Sensor R&D – Advanced Materials, Design, Modeling & Fusion for Sensor Applications, November 10 - 11, 2015, La Jolla, California, USA (Invited Talk).

MEDIA COVERAGE

- Phys.org, “[Deep learning enables early detection and classification of live bacteria using holography](#),” 7/2020
- Daily Bruin, “[UCLA researchers develop prototype to more efficiently detect rare cells in blood](#),” 10/2019
- Phys.Org, “[AI-based cytometer detects rare cells in blood using magnetic modulation and deep learning](#),” 10/2019
- Daily Bruin, “[UCLA researchers develop smartphone-based microscope to detect lethal bee parasites](#),” 2/2019
- Phys.Org, “[Mobile-phone microscope detects the 'silent killer' of honeybees](#),” 1/2019
- Phys.Org, “[Mobile device makes the detection of parasitic infections faster and more sensitive using artificial intelligence](#),” 12/2018
- R&D Magazine, “[Detection Device Identifies Parasitic Infections Faster, with More Sensitivity](#),” 12/2018

- Daily Bruin, “[UCLA researchers developing improved device for detecting dangerous algal blooms](#),” 9/2018
- Science Daily, “[Deep learning transforms smartphone microscopes into laboratory-grade devices](#),” 4/2018
- Laser Focus World, “[Microscopy: Deep learning improves microscopy images-without system adjustments](#),” 1/2018
- Science Discoveries, “[Detecting waterborne pathogen using a smartphone-based microscope](#),” 12/2017
- BioOptics World, “[Noninvasive app captures chlorophyll content quickly, cheaply](#),” 3/2015
- Scientific American, “[Google Glass Takes Sharp Look At Plant Health](#),” 2/2015
- Daily Bruin, “[UCLA lab develops Google Glass app for rapid diagnosis of plant health](#),” 2/2015
- RSC Chemistry World, “[Google Glass to monitor plant health](#),” 2/2015