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Her lab expertise includes nanophotonics including plasmonics and dielectric metamaterials, micro/nanofluidic integration and new nanofabrication schemes for high-throughput and low-cost manufacturing.

Dr. Altug is the recipient of 2012 Optical Society of America Adolph Lomb Medal, which is presented to a person who has made a noteworthy contribution to optics at an early age. She received U.S. Presidential Early Career Award for Scientists and Engineers (PECASE), which is highest honor bestowed by the United States government on outstanding scientists and engineers in their early career. She is also the recipient of European Research Council Consolidator Award, U.S. Office of Naval Research (ONR) Young Investigator Award, U.S. National Science Foundation CAREER Award, Massachusetts Life Science Center New Investigator Award, IEEE Photonics Society Young Investigator Award. She received Intel Graduate Student Fellowship, IEEE Photonics Society Graduate Student Fellowship. She is the winner of the Inventors' Challenge competition of Silicon Valley in 2005, best paper and research excellence award by IEEE Photonics Society in 2005. She has been named to Popular Science Magazine's "Brilliant 10" list in 2011.

Web-page: <https://bios.epfl.ch/>