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Fields of Expertise

Bio-Nanotechnology; Fusion Protein/peptide biotechnology; Peptide based materials assembly and synthesis; Biofabrication; Bio-material interface, Cell-material interactions

Vitae

Candan Tamerler is Professor in Materials Science & Engineering Department in University of Washington, Seattle, WA-USA. She is also assistant director in Genetically Engineering Science & Engineering Center (GEMSEC), an MRSEC-NSF center in UW. She holds an adjunct professor position in Molecular Biology and Genetics Department in Istanbul Technical University (ITU), where she served as department chair in 2000-2009. Tamerler is also on the scientific advisory board of Molecular Biology-Biotechnology and Genetics Research Center (MOBGAM) in ITU where she has been the director of the research center between 2004-2010 (Founding director). Tamerler has been one of the first researchers in Molecular Biomimetics, adapting phage and cell surface display approaches for the selection of solid binding peptides, and their implementations in biotechnology and nanomedicine. She focuses her research in protein/peptide biotechnology, in recent years; her focus is more on the fundamental understanding of the bio/nano interface and the practical implementation of the engineered hybrid materials systems using short peptides as the major building blocks for the bio-nanotechnological applications. She holds her B.Sc., M.S. and Ph.D. degree in Chemical Engineering from Bogazici University, Istanbul-Turkey. Tamerler has published more than 90 SCI articles, 7 book chapters, and 35 proceedings articles and >350 abstracts and delivered many invited and plenary talks in international conferences. She has patents filed on the design and application of solid peptide interactions. She is in the editorial board of different scientific journals. She is an associate member of National Nanotechnology Research Center (UNAM) located in Bilkent University, and she has been also the founding co-coordinator of Nanobiotechnology Network in Turkey. She served as a National Expert on European Union Frame Work 7 projects on Nanoscience and Nanotechnologies Related Areas assigned by TUBITAK.