

ASLI AYVERDI

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EDUCATION

- Drexel University, School of Biomedical Engineering, Science and Health Systems**, Philadelphia PA Sep 2010 - Present
Doctorate of Philosophy in Biomedical Engineering, currently enrolled
- Georgetown University, Department of Biochemistry and Molecular Biology**, Washington, DC Aug 06 - May 07
Master of Science in Biotechnology
 Relevant Courses: Core Concepts of Biochemistry, Core Methods in Biotechnology, Laboratory Applications: ELISA, Protein Purification, PCR, Southern Blot, Construction and Cloning of Recombinant DNA.
- University of Virginia, School of Engineering and Applied Science**, Charlottesville, VA Aug 02 - May 06
Bachelor of Science in Biomedical Engineering with Distinction
 Relevant Courses: Physiology, Cell Biology, Chemistry, Differential Equations, Biomaterials, and Tissue Engineering.
- Brown University, Summer Session in Biotechnology Laboratory**, Providence, RI Jun 01
 Relevant coursework: Recombinant DNA Techniques, Methods for Genome Analysis, and DNA Extraction.
- Lycée Français Pierre Loti**, Istanbul, Turkey Sept 98 - Jun 02
Baccalaureate Diploma in Science

EXPERIENCE

- TissueGene, Inc.**, Rockville, MD Jan 07 – March 2010
Research Associate
- Assisted in the engineering, characterization, and expression of a BMP2 expressing cell line for bone regeneration.
 - Inhibited osteoclast differentiation using siRNA techniques targeting osteoclastic genes for the prevention of osteoporosis.
 - Screened a phage display peptide library for cell-specific peptides designed for drug delivery: biopanning, phage amplification and titration, elution of bound phage to specific target.
 - Generated induced pluripotent stem cells via transduction of transcription factors into foreskin fibroblasts, isolation of single cell colonies, characterization by gene expression analysis, and differentiation into embryoid bodies.
- Global Cell Solutions**, Charlottesville, VA Jan 05 - Aug 05
Research Intern
- Developed a microcarrier-based system to increase eukaryotic cell production and cell quality for human therapy *in vitro*.
 - Evaluated and compared eukaryotic cell growth from the microcarrier-based cell culture process to conventional methods.
- Biomedical Engineering Department**, University of Virginia, Charlottesville, VA Oct 04 - Dec 04
Undergraduate Research Assistant
- Acquired and executed tissue culture techniques such as thawing, passaging, and feeding cells.
 - Created an *in vitro* model for monitoring peripheral immune response to adipose-derived stem cells.

PUBLICATIONS

- Yi Y, Choi KB, Lim CL, Hyun JP, Lee HY, Lee KB, Yun L, **Ayverdi A**, Hwang S, Yip V, Noh MJ, Lee KH. Irradiated Human Chondrocytes Expressing BMP2 Promote Healing of Osteoporotic Bone Fracture in Rats. *Tissue engineering. Part A*. 15(10):2853-63, 2009.

HONORS & AWARDS

- Georgetown University Biotechnology Internship Poster Presentation Winner, 2007.
- Awarded NCIIA's BME IDEAS Honorable Mention for Capstone Thesis Project, University of Virginia, 2006.
- Univ. of Virginia Engineering School Undergrad Research and Design Symposium Finalist, Capstone Thesis Project, 2005.
- University of Virginia Dean's List, Spring 2005.

SKILLS & TRAINING

Laboratory: Extensive cell culture experience and extensive radiation safety, GLP and cGMP training.

Languages: Turkish (Native), English (Fluent), French (Fluent), German (Proficient), Spanish (Proficient).