



Endogenous Stem Cell Production and Innate Immunity

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Abstract:

Protein misfolding has long been considered a pathogenic process to body tissue. However, recent work by Moirat Harvard demonstrates that certain plaques, here to fore considered harmful misfolded amyloid structure, actually are part of an innate immune response. These unfolded proteins are classifiable as antimicrobial peptides. Antimicrobial peptide sexertvarious mechanisms such as changing cell membrane permeability which leads to inhibition or death of bacterial cells. Mesenchymal stemcells (MSCs) are key to produce antimicrobial peptides and to inhibit the growth of pathogens.

In this talk Dr. Lewis will discuss how common “plaques” seen in the anterior and posterior chamber of the eye, are protective amyloid formations. Ubiquitous stemcells including the endogenous stemcells – known as lensepithelial stemcells (LECs) – generate replacement lencells throughout a person's life butmayalso be responsible for immune activity.

In addition Dr. Carter will discuss how generating a mild, accousticinsult through non-invasive shock wave therapy, enhances local production of endogenous stemcells and antimicrobial peptides including LL-37



Biography:

Dr. Thomas J. Lewis: Dr. Lewis holds a Ph.D. from MIT and continuingeducation from the Harvard School of Public Health. Sincehisdadcame down with Alzheimer's 20 years ago, he hasdedicatedhis life to determininghow to betterpredictAlzheimer's and chronicdiseases in geneDr. Thomas J. Lewis: Dr. Lewis holds a Ph.D. from MIT and continuingeducation from the Harvard School of Public Health. Sincehisdadcame down with Alzheimer's 20 years ago, he hasdedicatedhis life to determininghow to betterpredictAlzheimer's and chronicdiseases in general.

Dr. Michael L. Carter. Dr. Carter is a board-certifiedphysician. Over the past 10 years, Dr. Carter hasexpandedhiseducationintofunctional or root-cause medicine, initiallydriven by a personal struggle with glaucoma. He hasobtained an impressive amount of continuing educational certifications in topicsincluding: stemcells, energy medicine, nutrition, advancedpeptides, cancer treatment, and solutions

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