



Steve K. Cho, Ph.D.

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Education

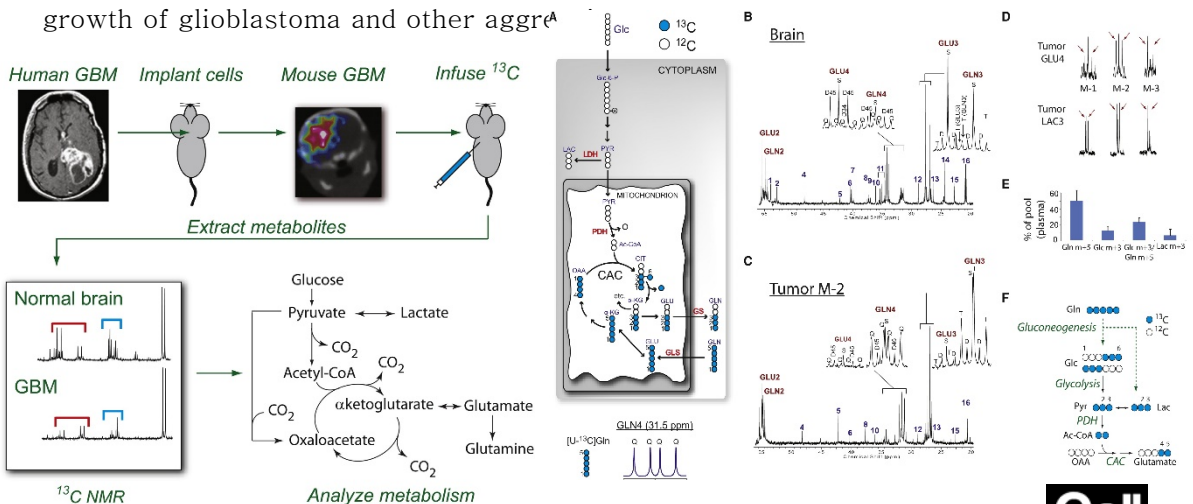
2004 : Ph.D., Cell Regulation, UT Southwestern Medical Center
1995 : B.S., Biochemistry, University of California, Los Angeles (UCLA)

Experience

- 2016~Present : Assistant Professor
Department of Biomedical Science & Engineering
School of Life Sciences
- 2010~2016 : Assistant Professor
Division of Liberal Arts and Science, GIST College
- 2006~2010 : Postdoctoral Research Fellow
Department of Neurology
The Annette Strauss Center for Neuro-Oncology
Simmons Comprehensive Cancer Center
University of Texas Southwestern Medical Center
- 2004~2006 : Postdoctoral Research Fellow
Department of Neuropathology
University of Texas Southwestern Medical Center
- 1994~1996 : Research Associate
Division of Hematology-Oncology
Cedars-Sinai Medical Center
UCLA School of Medicine

연구실소개

My research focuses on a collaborative project seeking to identify novel therapies for glioblastoma multiform (GBM), the most lethal form of brain cancer. The primary research interest is to understand the unusual metabolic activities that allow cells to escape the normal physiological constraints on growth and proliferation. I think that these metabolic abnormalities are at the root of rapid growth of glioblastoma and other aggr



Cell Metabolism 2012 15, 827-837



교육·연구 성과

주요 개설교과목

- GS1301 The Principles of Biology (일반생물학 I)
- GS1303 The Principles of Biology-Honors (고급일반생물학 I)
- GS1311 Biology Laboratory (일반생물학 실험)
- GS2311 Exploring Life Science through Experimentations (생명과학실험이론)
- GS3311 Gene Expression and Analysis (유전자 발현과 분석)
- GS3301 Physical Biology of the Cell (세포물리생물학)-계절학기
Caltech Rob Phillips 교수와 공동운영
- GS4301 Evolutionary Biology with field trip (진화생물학 및 필드트립)-계절학기
Caltech Rob Phillips 교수와 공동운영
- GS2804 에너지와 인간, 융합강의-공동강의
- GS2808 음식과 약, 융합강의-공동강의
- MD5101 생명과학개론, 팀티칭

주요 연구과제

- 실버헬스바이오 기술개발 사업 (2015-17)
- Initiatives for New GIST Education (INGE)-미래형 강의개발사업 (2016-17)
- 생명노화 융합연구사업 (2014)
- 융합인재교육(STEAM) 아웃리치 프로그램 개발사업 (2014)
- 대학생 창의, 융합형 연구과제 (2013)

주요논문

- Oncogenes Activate an Autonomous Transcriptional Regulatory Circuit That Drives Gliomagenesis. *Submitted*
- Enhanced conjugation stability and blood circulation time of macromolecular gadolinium-DPTA contrast agent. [Materials Science and Engineering C, 2016 Jan 7;61:659-664.](#)
- Analysis of Tumor Metabolism Reveals Mitochondrial Glucose Oxidation in Genetically Diverse Human Glioblastomas in the Mouse Brain *in vivo*. [Cell Metabolism. 2012 Jun 6;15\(6\):827-37](#)
- Glucose Metabolism via the Pentose Phosphate Pathway, Glycolysis and Krebs cycle in an Orthotopic Mouse Model of Human Brain Tumors. [NMR in Biomedicine. 2012. Oct;25\(10\):1177-86.](#)
- Anti-EGFR Aptamer Biochip for Cancer Cell Isolation and Detection. [Cancer Res. 2010 Nov 15;70 22\): 9371-80.](#)
- The Telomerase Antagonist, Imetelstat, Efficiently Targets Glioblastoma Tumor-Initiating Cells Leading to Decreased Proliferation and Tumor Growth. [Clin Cancer Res. 2010 Jan 1;16\(1\):62-75.](#)

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