Speaker:  Dusko Ilic  
Department of Stomatology,  
University of California San Francisco  

Title:  “FAK, a multitasking protein: crosstalk with p53 and a role in skin barrier formation”  

Date:  Monday, December 6  
Time:  17:00 P.M.-18:00 P.M.  
Place:  1F Auditorium of Building C, CDB  

Summary  

FAK is major structural and enzymatic component in focal adhesions, sites of cell - extracellular matrix (ECM) interaction. Lack of signals from ECM component fibronectin through FAK at late gastrulation stage of mouse embryos resulted in a proliferation block of either fibronectin- or FAK-null mouse embryonic fibroblasts by p53/p21-dependent mechanism. Tissue-specific deletion of FAK in keratinocytes affected pH-dependent formation of skin barrier through control of sodium-proton exchanger NHE1, which provides a crucial mechanism for regulation of stratum corneum pH.  

Host: Shinichi Aizawa  
<Vertebrate Body Plan, CDB >  
E-mail: kuro@cdb.riken.jp Tel: 078-306-3149;  
RIKEN Center for Developmental Biology,  
http://www.cdb.riken.go.jp/