

The Invitation List of the 4th International Student Seminar

Name of Invitee	Status	Name of PI	Affiliation	Selected Publications	Invite Lab.
Mr. Chu Yeh-Shiu	PD	Dr. Jean Paul Thiery	Institut Curie	<ul style="list-style-type: none"> •Chu YS, Eder O, Thomas WA, Simcha I, Pincet F, Ben-Ze'ev A, Perez E, Thiery JP, Dufour S. Prototypical Type-I E-cadherin and Type-II cadherin-7 mediate very distinct adhesiveness through their extracellular domain (revised in JBC) •Chu YS, Dufour S, Thiery JP, Perez E, Pincet F. Johnson-Kendall-Roberts theory applied to living cells. <i>Phys. Rev. Lett.</i> 94:08102, 2005 •Chu YS, Thomas WA, Eder O, Pincet F, Perez E, Thiery JP, Dufour S. Force measurements in E-cadherin-mediated cell-cell contacts reveal rapid adhesion strengthened by actin cytoskeleton remodeling through Rac and Cdc42. <i>J. Cell Biol.</i> 167:1183-94, 2004 •Lo HS, Chiang HC, Lin AM, Chiang HY, Chu YC, Kao LS. Synergistic effects of dopamine and Zn2+ on the induction of PC12 cell death and dopamine depletion in the striatum: possible implication in the pathogenesis of Parkinson's disease. <i>Neurobiol. Dis.</i> 17:54-61, 2004 	Sabé Lab.
Mr. Horace Rhee	student	Dr. Elaine Fuchs	The Rockefeller University	<ul style="list-style-type: none"> •DasGupta R, Rhee H, Fuchs E. A developmental conundrum: a stabilized form of beta-catenin lacking the transcriptional activation domain triggers features of hair cell fate in epidermal cells and epidermal cell fate in hair follicle cells. <i>Journal of Cell Biology</i> 2002; 158(2): 331-344. •Choi KS, Eom YW, Kang Y, Ha MJ, Rhee H, Yoon JW, Kim SJ, Cd42 and Cdk2 kinase activated by transforming growth factor-beta1 triggers apoptosis through the phosphorylation of retinoblastoma protein in FaO hepatoma cells. <i>Journal of Biological Chemistry</i> 1998; 274(45): 31775-31783. •Choi SG, Yi Y, Kim YS, Kato M, Chang J, Chung HW, Hahn KB, Yang HK, Rhee HH, Bang YJ, Kim SJ. A novel ets-related transcription factor, ERT/ESX/ESE-1, regulates expression of the transforming growth factor-β type II receptor. <i>Journal of Biological Chemistry</i> 1998; 273(1): 110-117. 	New York, USA
Mr. Jeff Kovacs	student	Dr. Tso-Pang Yao	Duke University	<ul style="list-style-type: none"> •Kovacs J.J., Cohen, T.J., Yao, T.P. Chaperoning steroid hormone signaling via reversible acetylation. <i>Nuclear Receptor Signaling</i>. (In press). •Kovacs J.J., Murphy, P.J., Gaillard, S., Zhao, X., Wu, J.T., Nicchitta, C.V., Yoshida M., Toft, D.O., Pratt, W.B., Yao, T.P.. HDAC6 regulates Hsp90 acetylation and chaperone-dependent activation of glucocorticoid receptor. <i>Mol Cell</i> 2005 May 27;18(5):760-7. •Murphy P.J., Morishima, Y., Kovacs, J.J., Yao, T.P., Pratt, W.B., Regulation of the dynamics of hsp90 action on the glucocorticoid receptor by acetylation/deacetylation of the chaperone. <i>J Biol Chem.</i> 2005 Aug 8; Epub ahead of print. •Kawaguchi, Y., Kovacs, J.J., McLaurin, A., Vance, J.M., Ito, A., Yao, T.P.. The deacetylase HDAC6 regulatesaggresome formation and cell viability in response to misfolded protein stress. <i>Cell.</i> 2003 Dec 12;155(6):727-38. 	Durham, USA
Mr. Jeff Vieregg	student	Dr. Ignacio Tinoco Jr.	University of California Berkeley, USA	<ul style="list-style-type: none"> •Modeling RNA Folding Under Mechanical Tension J.R. Vieregg and I. Tinoco, Jr. <i>Molecular Physics</i>, in press. •Dynamic Nuclear Polarization at 9 Tesla Using a Novel 250 GHz Gyrotron Microwave Source C.T. Farrar, K.E. Kreischer, J.R. Vieregg, I. Mastovsky, B. Elena, R.J. Temkin, and R.G. Griffin J. Magnetic Res. 160, 85 (2003) •A CW Gyrotron Oscillator for use in Dynamic Nuclear Polarization Bachelor's Thesis, MIT Department of Physics, May 2000 •The Development of a 250 GHz CW Gyrotron for EPR and NMR Spectroscopy K. Kreischer, C. Farrar, R. Griffin, R. Temkin, and J. Vieregg, Proc. 24th Int. Conf. Infrared and Millimeter Waves, Paper IU-A3, 1999 and one more paper. 	Takeyasu Lab.

Mr. Lance Thomas	PD	Dr. Eugene M. Oltz	Nashville, Tennessee, USA	Vanderbilt University School of Medicine	Shinkai Lab.	<ul style="list-style-type: none"> Thomas LR, Bender LM, Morgan MJ, Thorburn A. (2005) Extensive regions of the FADD death domain are required for binding to the TRAIL receptor DR5. In press. Cell Death Differ. Thomas LR, Johnson RL, Reed JC, Thorburn A. (2004) The C-terminal tails of tumor necrosis factor-related apoptosis-inducing ligand (TRAIL) and Fas receptors have opposing functions in Fas-associated death domain (FADD) recruitment and can regulate agonist-specific mechanisms of receptor activation. J Biol Chem. 279: 52479-86. Thomas LR, Henson A, Reed JC, Salsbury FR, Thorburn A. (2004) Direct binding of Fas-associated death domain (FADD) to the tumor necrosis factor-related apoptosis-inducing ligand receptor DR5 is regulated by the death effector domain of FADD. J Biol Chem. 279: 32780-5. Thomas LR, Stillman DJ, Thorburn A. (2002) Regulation of Fas-associated death domain interactions by the death effector domain identified by a modified reverse two-hybrid screen. J Biol Chem. 2002 277, 34343-8. and six more papers.
Mr. Marc Bally	student	Dr. Eric Westhof	Strasbourg, France	Université Louis Pasteur	Inoue Lab.	<ul style="list-style-type: none"> Sharma M, Li X, Wang Y, Zarngar M, Huang CY, Palivimo JJ, Lim B, Sun Z, hZmp10 is an androgen receptor co-activator and forms a complex with SUMO-1 at replication foci. EMBO J. 2003 Nov 17;22(22):6101-14. Haves SA, Zarngar M, Sharma M, Yang F, Peehi DM, ten Dijke P, Sun Z, SMAD3 represses androgen receptor-mediated transcription. Cancer Res. 2001 Mar 1;61(5):2112-8. Yang F, Li X, Sharma M, Zarngar M, Lim B, Sun Z. Androgen receptor specifically interacts with a novel p21-activated kinase, PAK6. J Biol Chem. 2001 May 4;276(18):15245-53. Epub 2001 Jan 25. Sharma M, Zarngar M, Li X, Lim B, Sun Z. Androgen receptor interacts with a novel MYST protein, HBO1. J Biol Chem. 2000 Nov 10;275(45):3520-8.
Mr. Mark Zarngar	student	Dr. Ellen Rothenberg	Pasadena, USA	California Institute of Technology	Ikuta Lab.	<ul style="list-style-type: none"> Goehring, NW., and J. Beckwith (2005) Diverse paths to midcell: assembly of the bacterial cell division machinery. Current Biology. 15(13): R514-526. (Review) Goehring, N.W., F. Guieros-Filho, and J. Beckwith (2005). Premature targeting of a cell division protein to midcell allows dissection of divisome assembly in <i>Escherichia coli</i>. Genes and Development. 19(1): 27-37. Brandon, L. D., N. Goehring, A. Janakiraman, A. Yancik, J. Beckwith, and M. Goldberg (2003). IcsA, a polarly localized autotransporter with an atypical signal peptide, uses the Sec apparatus for secretion, although the Sec apparatus is circumferentially distributed. Molecular Microbiology. 50 (1): 45-60. Klein, C., U. Gopfert, N. Goehring, Y.D. Shierhof, and T. Ifl (1989). Proteophosphoglycans of Leishmania mexicana. Identification, purification, structural and ultrastructural characterization of the secreted promastigote proteophosphoglycan PPPG2, a stage-specific glycoisomer of amastigote aPPG. Biochemical Journal. 344:775-86.
Mr. Nathan Goehring	student	Dr. Jon Beckwith	Boston, USA	Harvard Medical School	Ito Lab.	<ul style="list-style-type: none"> van den Elzen P.*, Ria F.*, Maverakis E., Sercarz EE. Molecular characterization of the T cell repertoire using immunoscope analysis and its possible implementation in clinical practice. Curr Mol Med. 2001 Jul;(3):297-304. van den Elzen P, Meneses JS, Arnetan A, Maverakis E, Madakamuttil L, Tang X, Kumar V, Sercarz EE. Limited clonality in autoimmunity: Drivers and regulators. Autoimmun Rev. 2004, Nov;3(7-8):524-9. van den Elzen P*, Brigitte M*, Hartt-Meyers J., Bersar GD, Brenner MB, Gumpertz, JG. Conserved and heterogeneous lipid antigen specificities of CD1d-restricted NKT cells. Manuscript submitted. van den Elzen P*, Meneses JS*, Maverakis E, Thorney J, Huffman D., Drain N, Li N, Sercarz EE. A discrete population of T cells is responsible for EA-E induction: Driver Clones in Autoimmunity. Manuscript submitted.
Mr. Peter van den Elzen	PD	Dr. Michael Brenner	Boston, USA	Harvard Medical School[Brigham & Women's Hospital]	Sugita Lab.	<ul style="list-style-type: none"> Sorry, under construction.
Mr. Scott Kitchen	PD	Dr. Jerome A. Zack	Los Angeles, USA	University of California, Los Angeles (UCLA)	Koyanagi Lab.	

Mr. Takaki Komiyama	PD Dr. Liqun Luo	Stanford University	Stanford, USA	<ul style="list-style-type: none"> Komiyama T, Carlson JR, Luo L.. Olfactory receptor neuron axon targeting: intrinsic transcriptional control and hierarchical interactions. <i>Nat Neurosci</i>. 2004 Aug;7(8):819-25. Epub 2004 Jul 1. Komiyama T, Johnson WA, Luo L, Jeffferis GS.. From lineage to wiring specificity: POU domain transcription factors control precise connections of Drosophila olfactory projection neurons. <i>Cell</i>. 2003 Jan 24;112(2):157-67. 	Uemura Lab.
Mr. Yoontae Lee	student Dr. Narry Kim	Seoul National University	Soel, Korea	<ul style="list-style-type: none"> Lee Y., Jeon K.P., Lee J.I., Kim S and Kim V.N., MicroRNA maturation: stepwise processing and subcellular localization. <i>EMBO Journal</i>. 2002; 21:4663-4670. Lee Y., Ahn C., Han J., Choi H., Kim J., Yim J., Lee J., Provost P., Rädmark O., Kim S., and Kim V.N., The Nuclear RNase III Drosha Initiates MicroRNA Processing. <i>Nature</i>. 2003; 425:415-419. Lee Y., Kim M.J., Han J.U., Yeom K.H., Lee S.H., Baek S.H. and Kim V.N., MicroRNA genes are transcribed by RNA polymerase II. <i>EMBO Journal</i>. 2004; 23:4051-4060. Lee Y., and Kim V.N., Preparation and Characterization of Drosha. Methods in Molecular Biology. 2005; 309: 17. and three more papers. 	Ohno Lab.
Ms. Cynthia L. Johnson	student Dr. Michael Gale	The University of Texas Southwestern Medical Center	Dallas, USA	<ul style="list-style-type: none"> Johnson CL., Foy E., Gale M Jr.. Structure-Function Analysis of the Hepatitis C Virus NS3 Protein and the Interferon Regulatory 3 Pathway. Submitted. Johnson CL and Gale M Jr.. CARD games between virus and host: get a new player. <i>Trends in Immunology</i>. In Press. Foy E., Li K., Sumpter R., Loo YM., Johnson CL., Wang C., Fish PM., Yoneyama M., Fujita T., Lemon SM., and Gale M Jr.. (2005) Control of antiviral defenses through hepatitis C virus disruption of retinoic acid-inducible gene-1 signaling. <i>PNAS</i>. 102:2986-2991. Henderson CW., Johnson CL., Lodhi, SA., Billimoria SL.. (2001) Replication of Chilo iridescent virus in the cotton boll weevil, <i>Anthonomus grandis</i>, and development of an infectivity assay. <i>Archives of Virology</i>. 146(4): 767-775. 	Fujita Lab.
Ms. Edwina Naik	student Dr. Andreas Strasser	The Walter and Eliza Hall Institute of Medical Research	Parkville, Australia	<ul style="list-style-type: none"> Naik E & Strasser A. The role of the Bcl-2 protein family in tumorigenesis and cancer therapy in Debatin & Fulda. <i>Cancer Therapy</i> (in press). Willis SN, Chen L, Dewson G, Wei A, Naik E, Fletcher JI, Adams JM, Huang DC.. Proapoptotic Bak is sequestered by Mci-1 and Bcl-xL, but not Bcl-2, until displaced by BH3-only proteins. <i>Genes Dev</i>. 2005 Jun 1;19(11):1294-1305. Harder KW, Quilici C, Naik E, Inglesie M, Kountouri N, Turner A, Zatic K., Tarlinton DM, Hibbs ML. Perturbed myelo/erythropoiesis in Lyn^{-/-}deficient mice is similar to that in mice lacking the inhibitory phosphatases SHP-1 and SHP-1. <i>Blood</i>. 2004 Dec 15;104(13):3901-10. 	Yonehara Lab.
Ms. Emily Arias	student Dr. Johannes Walter	Harvard Medical School	Boston, USA	<ul style="list-style-type: none"> Arias, E.E., and Walter, J.C.. Initiation of DNA replication in <i>Xenopus</i> egg extracts. 2004. <i>Frontiers in Bioscience</i> 9: 3029-3045. (Review) Arias, E.E., and Walter, J.C.. Replication-dependent destruction of Cdt1 limits DNA replication to a single round per cell cycle in <i>Xenopus</i> egg extracts. 2005. <i>Genes & Development</i> 19: 114-126. Arias, E.E., and Walter, J.C.. Cdt1 binding to PCNA targets Cdt1 for proteolysis by Cul4DDB1 and prevents re-replication. 2005 (submitted) 	Ishikawa Lab.
Ms. Kiran N Meekings	student Dr. Charles Bangham	Imperial College London	London, UK		Matsuoka Lab.
Ms. Lina Li	student Dr. David M. Kehoe	Indiana University	Bloomington, USA	<ul style="list-style-type: none"> Li, L., Alvey R. M., Bezzy R. P., and Kehoe, D. M.. RcaC binds two red light induced promoters. (in preparation) Li, L., and Kehoe, D. M.. Phosphorylation-Dependent Regulation of a Prokaryotic Response Regulator. (in progress) Li, L., and Kehoe, D. M.. In Vivo Analysis of the Roles of Conserved Aspartate and Histidine Residues within a Complex Response Regulator. Mol. Micro. 55(5): 1538-1552. Swiderska, A., Berndtson, A. K., Cha, M-R., Li, L., Beaudoin, G. M. J., Zhu, J., and Fuqua, C. (2001) inhibition of the Agrobacterium tumefaciens TrR Quorum-sensing Regulator. <i>J. Biol. Chem.</i> 276(52), 49449-49458. and one more paper. 	Kohchi Lab.

Ms. Maria Lonn	student	Dr. Arne Holmgren	Medical Nobel Institute for Biochemistry [Karolinska Institute]	Stockholm, Sweden	<p>*Lilig CH, Berndt C, Vergnolle O, Lonn ME, Hudemann C, Bill E, Holmgren A. Characterisation of human glutaredoxin 2 as iron-sulfur protein: a possible role as redox sensor. <i>Proc Natl Acad Sci USA</i>. 2005 Jun 7;102(23):8168-73.</p> <p>*Lilig CH, Lonn ME, Eriksson M, Fernandes AP, Holmgren A. Short interfering RNA-mediated silencing of glutaredoxin 2 increases the sensitivity of HeLa cells toward doxorubicin and phenylarsine oxide. <i>Proc Natl Acad Sci USA</i>. 2004 Sep 7;101(36):13227-32.</p> <p>Yodoi Lab.</p>
Ms. Maxene Garcia-Illagan	PD	Dr. Raphael Kopan	The University of Washington	St. Louis, Missouri, USA	<p>*Huppert, S., S., M.X.G. Ilagan, B. de Strooper, and R. Kopan. 2004. Analysis of Notch function in presomitic mesoderm reveals a Notch-independent role for presenilins in somitogenesis. <i>Dev Cell</i> 8(5):677-88</p> <p>*Garcia, M.X.U., H. Alexander , D. Mahadeo, D. Cotter and S. Alexander. 2003. The Dictyostelium discoideum prespore-specific catalase B functions to control late development and to protect spore viability. <i>Biochim Biophys Acta</i> 1641:55-64.</p> <p>*Schroeter, E.H.* M.X.G. Ilagan*, A.L. Brunkan, S. Hecimovic, Y.M. Li, M. Xu, H.D. Lewis, M.T. Saxena, B. De Strooper, A. Coonrod, T. Tomita, T. Iwatsubo, C.L. Moore, A. Goate, M.S. Wolfe, M. Shearman and R. Kopan. 2003. A presenilin dimer at the core of the gamma-secretase enzyme: insights from parallel analysis of Notch 1 and APP proteolytic products. <i>Proc Natl Acad Sci USA</i>. 100(22):13075-13080. (*equal contributors)</p> <p>*Garcia, M.X.U., C. Foote, S. van Es, P. Devreotes, S. Alexander and H. Alexander. 2000 . Differential developmental expression and cell type specificity of Dictyostelium catalases and their response to oxidative stress and UV-light. <i>Biochim Biophys Acta</i> 1492: 295-310.</p> <p>and four more papers.</p>
Ms. Sophie Dumont	student	Dr. Carlos Bustamante	University of California	Berkeley, USA	<p>*Cheng W, Dumont S, Beran RK, Tinoco I Jr, Pyle AM, Bustamante C. Sequence stability dictates unwinding of double stranded RNA by HCV helicase NS3. Manuscript in preparation.</p> <p>*Dumont S, Cheng W, Serebrov V, Beran RK, Tinoco I Jr, Pyle AM, Bustamante C. Direct observation of substeps reveals the RNA unwinding mechanism of HCV NS3 helicase and its coordination by ATP. <i>Nature</i>, in press (2005)</p> <p>*Ono B, Dumont S, Liphardt J, Smith SB, Tinoco I Jr, Bustamante C. Identifying kinetic barriers to mechanical unfolding of the T. thermophila ribozyme. <i>Science</i> 299, 1892-1895 (2003)</p> <p>*Liphardt J, Dumont S, Smith SB, Tinoco I Jr, Bustamante C. Equilibrium information from nonequilibrium measurements in an experimental test of Jarzynski's equality. <i>Science</i> 296, 1832-1835 (2002)</p>
Ms. Ying Zeng	PD	Dr. Jim Paulson	The Scripps Research Institute	San Diego, California, USA	<p>*Zeng, Y., Yan, Z., & Kong, F. (2005). Synthesis of multivalent dendritic glyco-ligands. <i>Progress in Chemistry</i> 17, 111-121.</p> <p>*Zeng, Y., Ning, J., & Kong, F. (2003). Remote control of alpha- or beta-stereoselectivity in (1->3)-glucosylation in the presence of C-2 ester capable of neighboring group participation. <i>Carbohydrate Research</i> 338, 327-31.</p> <p>*Zeng, Y., Li, A., & Kong, F. (2003). A concise synthesis of arabinogalactan with beta-(1->6) galactopyranose backbone and alpha-(1->2) arabinofuranose side chains. <i>Tetrahedron Letter</i> 44, 8325-8328.</p> <p>*Zeng, Y., & Kong, F. (2003). Highly efficient synthesis of alternate alpha- and beta-(1->3)-linked glucose hepta- and octasaccharides. <i>Carbohydr Res</i> 338, 2047-56.</p> <p>and eight more papers.</p>

PD=Postdoctoral fellow

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