

BIOGRAPHICAL SKETCH

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NAME Takeshi Fukuhara		POSITION TITLE Post doctoral Scholar	
eRA COMMONS USER NAME			
EDUCATION/TRAINING <i>(Begin with baccalaureate or other initial professional education, such as nursing, and include postdoctoral training.)</i>			
INSTITUTION AND LOCATION	DEGREE <i>(if applicable)</i>	YEAR(s)	FIELD OF STUDY
Tokyo Institute of Technology	B.S.	1993-1997	Genomic Imprinting
Tokyo Institute of Technology	M.Sc.	1997-1999	Telomerase & Stem cell
Tokyo Institute of Technology		1999-2002	Meiotic Cell Cycle
Tokyo Medical and Dental University	Ph.D	2002-2006	Pre-mRNA splicing & Kinase inhibitor

A. Positions and Honors**Positions**

- 1999-2002 **JSPS Research Fellow (DC1)**, Laboratory of Cell and Developmental Biology, Tokyo Institute of Technology and The Japan Society for the Promotion of Science, Yokohama, JAPAN
- 2002 **Research Assistant**, Laboratory of Cytometry and Proteome Research, Medical Research Institute, Tokyo Medical and Dental University, Tokyo, JAPAN
- 2002-2003 **Research Fellow**, Laboratory of Cytometry and Proteome Research, Medical Research Institute, Tokyo Medical and Dental University, Tokyo, JAPAN
- 2003-2006 **Research graduate student**, Department of Functional Genomics, Medical Research Institute, Tokyo Medical and Dental University, Tokyo, JAPAN
- 2006-2007 **Post doctoral Fellow**, Department of Genetics, School of Medicine, Stanford University, Stanford, California, U.S.A. (Dr. Leonore Herzenberg lab.)
- 2008-current **Post doctoral Fellow**, Department of Neurology and Neurological Sciences, School of Medicine, Stanford University, Stanford, California, U.S.A. (Dr. Tony Wyss-Coray lab.)

Honors and Awards

- 1993-1997 **Undergraduate Student Fellowship**, The Takamura Foundation.
- 1997-1999 **Graduate Student Fellowship**, The Japan Scholarship Foundation.
- 1997-1999 **Special Graduate Student Fellowship (5 years program)**, The Itoh Foundation.
- 1999-2002 **JSPS Research Fellowship, DC1**, The Japan Society for the Promotion of Science.
- 2001 **Excellence of honor**, TITECH 120th Memorial Fest. Student Writing Contest
- 2003 **Young Investigator Award**, Medical Research Institute in TMDU
- 2007 **Best Presentation Award**, Novartis Biocamp2007 (role: CEO)
- 2007 **Best Business Plan Award**, Novartis Biocamp2007 (role: CEO)
- 2009 **Best Poster Presentation Award**, JST Neurogenesis2009 at Awaji in JAPAN

B. Publications, Presentations, and Patents

Publications

1. **Takeshi Fukuhara**, Robert H. Andres, Kira Irving, Maiko Moriyama, Aline Zorian, Raphael Guzman, and Tony Wyss-Coray. Neural progenitor cells secrete unique set of immune regulatory factors which regulate microglial function in the brain. In preparation.
2. Maiko Moriyama*, **Takeshi Fukuhara***, Markus Britschgi, Hector D. Molina, and Tony Wyss-Coray. Complement receptor 2 is expressed by neural progenitor cells and regulates adult hippocampal neurogenesis in mice. In revision. **equally contributed*.
3. **Takeshi Fukuhara**, Takamitsu Hosoya, Saki Shimizu, Kengo Sumi, Takako Oshiro, Yoshiyuki Yoshinaka, Masaaki Suzuki, Naoki Yamamoto, Leonore A. Herzenberg, Leonard A. Herzenberg, and Masatoshi Hagiwara. Utilization of host SR protein kinases and RNA-splicing machinery during viral replication. Proc. Natl. Acad. Sci. U.S.A. 103(30): 11329-11333 (2006)
4. Daisaku Hiraoka, Sawako Hori-Osawa, **Takeshi Fukuhara**, Kazunori Tachibana, Eiichi Okumura, Takeo Kishimoto. PDK1 is required for the hormonal signaling pathway leading to meiotic resumption in starfish oocytes. Dev. Biol. 276(2): 330-336 (2004)
5. Eiichi Okumura, **Takeshi Fukuhara**, Hitoshi Yoshida, Shin-ichiro Hanada, Rie Kozutsumi, Masashi Mori, Kazunori Tachibana, Takeo Kishimoto. Akt inhibits Myt1 in the signaling pathway that leads to meiotic G2/M-phase transition. Nat. Cell Biol. 4(2): 111-116 (2002)
6. Shinji Hatakeyama, Kazuhiko Takahashi, **Takeshi Fukuhara**, Fuyuki Ishikawa. Chromosome rearrangement involving telomeres in cancers. Nippon Rinsho. 56(5): 1115-1120 (1998)

Oral Presentations *presenting person

1. "PCR based new method for the detection of Telomere association." presented at The 56th Annual Meeting of the Japanese Cancer Association in Kyoto, JAPAN (***T. Fukuhara**, K. Takahashi, Y. Ishikawa, H. Makimura, M. Oshimura, F. Ishikawa) 25th-27th, Sep. 1997.
2. "Complete signaling pathway leading to the activation of cyclinB-Cdc2 at meiosis reinitiation in starfish oocyte." presented at The 72th Annual Meeting of the Zoological Society of Japan in Fukuoka, JAPAN (***T. Fukuhara**, E. Okumura, H. Yoshida, S. Hanada, K. Tachibana, T. Kishimoto) 6th-8th, Oct. 2001.
3. "Proteomics analysis of CREB downstream in *C.elegans*." presented at M.R.I. in TMDU in Tokyo, JAPAN (***T. Fukuhara**, Y. Kimura, M. Hagiwara) 15th Mar. 2003. - **Young Investigator Awards**
4. "Proteomics analysis of *C.elegans* CREB transcriptional targets." presented at The 12th Neuroscience Conference of Basic and Clinical Research in Nagoya, JAPAN (***T. Fukuhara**, Y. Kimura, M. Hagiwara) 19th Apr. 2004.
5. "Function of SR proteins in viral replication." presented at the 3rd joint meeting of Grant in Aid for Scientific Research on Priority Areas "Spatiotemporal Network of RNA Information Flow" in Shizuoka, JAPAN (***T. Fukuhara**, M. Hagiwara) 7th Jan. 2005.
6. "Anti-viral drugs targeting SR protein kinases." presented at the 2nd meeting of Grants in Aid for

Scientific Research on Priority Areas “Molecular Basis on Infection and Host Response” in Tokyo, JAPAN (***T. Fukuhara**) 8th Jan. 2005.

7. “Novel kinase inhibitor, SRPIN340, utilizes RNA splicing and suppress viral replication.” presented at the annual meeting of Grants in Aid for Scientific Research on Priority Areas “Molecular Basis on Infection and Host Response” in Tokyo, JAPAN (***T. Fukuhara**) 3rd Feb. 2006.

Poster Presentations **presenting person*

1. “Signaling pathway leading to activation of cyclinB/Cdc2 kinase at entry into M-phase” presented at The 23rd Annual Meeting of the Molecular Biology Society of Japan in Kobe, JAPAN (***T. Fukuhara**, E. Okumura, H. Yoshida, D. Hiraoka, K. Tachibana, T. Kishimoto) 13th -16th Dec. 2000.

2. “AKT signaling pathway leading to activation of cyclinB-Cdc2 kinase at entry into M-phase” presented at The 24th Annual Meeting of the Molecular Biology Society of Japan in Yokohama, JAPAN (***T. Fukuhara**, E. Okumura, K. Tachibana, T. Kishimoto) 9th -12th Dec. 2001.

3. “Proteome analysis of CREB-downstream genes in *C.elegans*” presented at 76th Annual Meeting of the Japanese Biochemistry Society in Yokohama, JAPAN (***T. Fukuhara**, Y. Kimura, M. Hagiwara) 16th -18th Oct. 2003.

4. “Signal-dependent regulation of SR proteins and its effect on HIV replication” presented at the 1st meeting of Grant in Aid for Scientific Research on Priority Areas “Molecular Basis on Infection and Host Response” and the Awaji international forum on infection and immunity in Hyogo, JAPAN (***T. Fukuhara**, S. Shimizu, T. Hosoya, M. Suzuki, N. Yamamoto, M. Hagiwara) 30th Aug. -2nd Sep. 2004.

5. “Signal-dependent regulation of SR proteins and its effect on HIV replication” presented at the 10th Annual Meeting of the RNA society in Banff, Canada (***T. Fukuhara**, T. Hosoya, S. Shimizu, T. Oshiro, K. Sumi, M. Suzuki, N. Yamamoto, M. Hagiwara) 24th -29th May 2005.

6. “Complement receptor 2 is expressed by neural progenitor cells and regulates adult hippocampal neurogenesis in mice” presented at the JST Neurogenesis2009 meeting in Hyogo, JAPAN (***T. Fukuhara**, M. Moriyama, M. Britschgi, SA. Villeda, R. Narasimhan, HD. Molina, T. Wyss-Coray) 2nd -3rd Jun. 2009 –**Best Poster Presentation Award**

7. “Complement receptor 2 is expressed by neural progenitor cells and regulates adult hippocampal neurogenesis in mice” presented at the Alzheimer’s researchers’ symposium at Buck Institute in Novato, CA (***T. Fukuhara**, M. Moriyama, M. Britschgi, SA. Villeda, R. Narasimhan, HD. Molina, T. Wyss-Coray) 30th Jun. 2009

Patent

1. Takeshi Fukuhara, Takamitsu Hosoya, Masaaki Suzuki, and Masatoshi Hagiwara. Antiviral kinase Inhibitors targeting phosphorylation of SR proteins. PCT/JP2004/19393, December 24, 2004.