

CURRICULUM VITAE
(February 9, 2015)

Tadatsugu Taniguchi, Ph.D.

Present Position and Address:

Project Professor, Department of Molecular Immunology, Institute of Industrial Science, University of Tokyo

Director, Max Planck-The University of Tokyo Center for Integrative Inflammation

E-mail: tada@m.u-tokyo.ac.jp

Educational Background:

1971: B. Sci. in Biology, Tokyo University of Education, Tokyo, Japan

1978: Ph.D. in Molecular Biology, University of Zurich, Zurich, Switzerland

Professional Experience:

- 1972 - 1974: Borsa di Studio (Research Fellow), Laboratory of Biological Chemistry, University of Naples, Naples, Italy
- 1974 - 1978: Forschungs-Assistent (Research Assistant), University of Zurich, Zurich, Switzerland
- 1978 - 1980: Associate, Department of Biochemistry, Cancer Institute, Japanese Foundation for Cancer Research, Tokyo, Japan
- 1980 - 1983: Associate Member, Department of Biochemistry, Cancer Institute, Japanese Foundation for Cancer Research
- 1980 - 1982: Visiting Associate Professor, New York University Medical Center, New York, U.S.A.
- 1983 - 1984: Member and Chief, Department of Biochemistry, Cancer Institute, Japanese Foundation for Cancer Research
- 1984 - 1994: Professor, Division of Molecular Biology, Institute for Molecular and Cellular Biology, Osaka University
- 1995 - 1997: Professor, Department of Immunology, Faculty of Medicine, The University of Tokyo
- 1997 - 2012: Professor, Department of Immunology, Graduate School of Medicine and Faculty of Medicine, The University of Tokyo
- 1998-2000: Member of the Science Council, Ministry of Education, Culture, Sports, and Science of Japan.
- 2002-2008: Co-chair person, International Affairs Committee, American Association for Cancer Research
- 2003-present: Foreign Associate Member, National Academy of Sciences, U.S.A.
- 2005-present: Member of the Science Council of Japan

2006-present Visiting Professor, Wakayama Medical University
2006-present Adjunct Professor, New York University Medical School, U.S.A.
2007-2009 Director, Institute for Disease Biology and Integrative Medicine, University of Tokyo
Graduate School of Medicine
2012-present Project Professor, Department of Molecular Immunology, Institute of Industrial
Science, The University of Tokyo
2013-present Director, Max Planck-The University of Tokyo Center for Integrative
Inflammation.

Societies:

The American Association of Immunologists (Honorary Member)
American Association for Cancer Research (Member)
International Cytokine Society (Honorary Member)
The Japanese Society for Immunology (Member)
Japanese Cancer Association (Honorary Member)
Japanese Biochemical Society (Member)
Japan Molecular Biology Society (Member)

Editorial Boards:

Proceedings of the National Academy of Sciences, U.S.A.
eLife (Senior Editor)
Immunity

Honors:

1978: Prix Jacques de Bedriaga (University of Zurich)
1981: Japanese Biochemical Society Shoreisho Award
1983: The Scientific Award of Japanese Foundation for Cancer Research
1985: The Noguchi Memorial Medical Award (Japan)
1986: Hammer Prize (U.S.A.)
1988: Behring-Kitasato Prize (Japan/Germany)
1988: The Milstein Award (International Society of Interferon Research)
1989: The Asahi Prize (Japan)
1989: Osaka Science Prize (Japan)
1989: Wakayama Prefecture Culture Award 3rd Prize (Japan)
1991: Robert-Koch Prize (Germany)
1993: Honorary Member, The American Association of Immunologists
1994: The Uehara Prize (Japan)
1995: Academic Award of the Mochida Memorial Foundation (Japan)
1995: The Fulbright 50th Anniversary Distinguished Fellow (U.S.A.)
1996: The Prize of Princess Takamatsunomiya Cancer Research Foundation

- 1996: Fujihara Award (Japan)
- 1997: Wakayama Prefecture Culture Award Grand Prize (Japan)
- 1997: Keio Medical Science Prize (Japan)
- 1999: Lifetime Honorary Membership Award (International Cytokine Society)
- 2000: Japan Academy Prize (Japan)
- 2000: ISI Citation Laureate Award
- 2003: Foreign Associate Member, National Academy of Sciences, U.S.A.
- 2006: "Laurea Honoris Causa" from University of Verona (Italy)
- 2006: The Harvey Lecture (Harvey Society, New York)
- 2006: Pezcoller Foundation-AACR International Award for Cancer Research (Italy/
U.S.A)
- 2007: The Feodor Lynen Lecture Award (U.S.A)
- 2007: Honorable Doctorate Degree, University of Zurich (Switzerland)
- 2008: The Tomizo Yoshida Prize (Japanese Cancer Association)
- 2009: Person of Cultural Merit (Government of Japan)
- 2010: The Naito Foundation Research Prize (Japan)
- 2010: Honorary Citizenship, Aridagawa-town, Wakayama Prefecture (Japan)
- 2011: Professor Emeritus, The University of Tokyo

Lectures:

- 1987: The Mill Hill Lecture (Medical Research Council, London, UK)
- 1987: Honor's program Lecture (New York University Medical School, New York, U.S.A.)
- 1994: Plenary Lecture; International Union of Biochemistry and Molecular Biology, New Delhi, India
- 1995: Plenary Lecture; Annual Meeting of The International Cytokine Society, Horrogate, UK
- 1996: NIH Distinguished Lectureship (Washington, USA)
- 1998: Zoltan Ovary Lecture; New York University Medical Center, U.S.A.
- 1998: Philip Levine Memorial Lecture (Rockefeller University)
- 2001: Plenary Lecture; International Symposium on "Molecular Basis of Immune Cell Activation and Immunological Disorders" (San Diego, U.S.A.)
- 2001: Sunrise Lecture; Annual Meeting of The America Association for Cancer Research (New Orleans, U.S.A.)
- 2002: The EMBL Distinguished Lecture (Heidelberg, Germany)
- 2002: Honor's program Lecture; New York University Medical School (New York, U.S.A.)
- 2004: Joint International Journal of Cancer and Meyenburg-Stiftung Lectureship (Heidelberg, Germany)
- 2004 Keynote Lecture, Cold Spring Harbor Mouse Molecular Genetics Meeting (Cold Spring Harbor, U. S. A.)
- 2005: Ernst A. H. Friedheim Memorial Lecture (Rockefeller University)
- 2006: Stanley J. Korsmeyer Memorial Lecture (University of Padova, Italy)
- 2006: Harvey Lecture (Harvey Society, New York)
- 2006: Plenary Lecture, Annual Meeting of The American College of Rheumatology

- (Washington DC, U.S.A.)
- 2006: The 22nd Annual Richard K. Gershon Memorial Lecture (Yale University, U.S.A.)
- 2007: Feodor Lynen Lecture, Miami Winter Symposium (U.S.A.)
- 2008: Keynote Lecture, The 7th Joint Meeting of the International Cytokine Society and the International Society for Interferon and Cytokine Research (Montreal, Canada)
- 2009: Plenary Lecture, Federation of Clinical Immunology Societies (San Francisco, U.S.A.)
- 2009: Plenary Lecture, The 9th World Congress on Inflammation (Tokyo, Japan)
- 2010: Keynote Lecture, James Watson Symposium on Cancer (Suzhou, China)
- 2011: Opening Lecture, “Brothers in Arms”: From Basic Research to Clinical Application (Medical University of Vienna, Austria)
- 2012: Keynote Lecture, Keystone Symposium on “The Biology of Cytokines/Th17 Cells in Health and Disease” (Keystone, U.S.A.)
- 2012: The Marsh Lecture in Molecular Medicine; The Feinstein Institute for Medical Research (Manhasset, U.S.A.)
- 2013: Honor’s program Lecture; New York University Medical School (New York, U.S.A.)
- 2013: Perspectives in Immunology Lecture, The 15th International Congress of Immunology (Milan, Italy)
- 2014: Keynote Lecture, 13th International Symposium on Dendritic Cells (Tours, France)
- 2014: Keynote Lecture, DANA-FARBER/Harvard Cancer Center, 7th Annual BIDMC Cancer Symposium (Boston, U.S.A.)

Publication List ; 1972-2014

1. Taniguchi, T., Libonati, M. and Leone, E.; Azione della subtilisina sulla ribonucleasi BS-1. (1972). *Boll. Soc. Ital. Biol. Sper.* XLVIII, 1115-1119.
2. Libonati, M., Taniguchi, T. and Leone, E.; Resistance of ribonuclease dimers to subtilisin. (1973). *Biochem. Biophys. Acta.*, 317, 160-163.
3. Taniguchi, T. and Libonati, M.; Action of ribonuclease BS-1 on a DNA-RNA hybrid. (1974). *Biochem. Biophys. Res. Comm.*, 58, 280-286.
4. Taniguchi, T. and Libonati, M.; DNA-dependent RNA polymerase from the hepatopancreas of *Octopus vulgaris* Lam. (1975). *Comp. Biochem. Physiol.*, 52B, 269-276.
5. Weissmann, C., Taniguchi, T., Domingo, E., Sabo, D. and Flavell, R. A.; Site-directed mutagenesis as a tool in genetics. (1977). In: *Miami Winter Symposia* (Academic Press), 14, 11-36.
6. Domingo, E., Sabo, D., Taniguchi, T. and Weissmann, C.; Nucleotide sequence heterogeneity of an RNA phage population. (1978). *Cell*, 13, 735-744.
7. Weissmann, C., Taniguchi, T., Domingo, E., Sabo, D. and Flavell, R.A.; Site-directed mutagenesis

- as a tool in genetics. (1978). In: *Frontiers in Physicochemical Biology*, Academic Press Inc. N.Y., 167-182.
8. Taniguchi, T. and Weissmann, C.; Site-directed mutations in the initiator region of the bacteriophage Qb coat cistron and their effect on ribosome binding. (1978). *J. Mol. Biol.*, 118, 533-565.
 9. Taniguchi, T., Palmeri, M. and Weissmann, C.; Qb DNA-containing hybrid plasmids giving rise to Qb phage formation in the bacterial host. (1978). *Nature*, 274, 223-228.
 10. Taniguchi, T. and Weissmann, C.; Inhibition of Qb RNA 70S ribosome initiation complex formation by an oligonucleotide complementary to the 3' terminal region of E.coli 16S ribosomal RNA. (1978). *Nature*, 275, 770-772.
 11. Weissmann, C., Weber, H., Taniguchi, T., Müller, W. and Meyer, F.; Site-directed mutagenesis as a tool in genetics: Application to RNA and DNA genomes. (1978). In: *Genetic Engineering*, Boyer, H.W. and Nicosia, S., eds., Elsevier, North-Holland Biomedical Press, 65-76.
 12. Weber, H., Taniguchi, T., Müller, W., Meyer, F. and Weissmann, C.; Application of site-directed mutagenesis to RNA and DNA genomes. (1978). *Cold Spring Harbor Symp. Quant. Biol.*, 43, 669-677.
 13. Weissmann, C., Weber, H., Taniguchi, T., Müller, W. and Meyer, F.; Application of site-directed mutagenesis to RNA and DNA genomes. (1979). *Biochem. Soc. Symp. (London)* 44, 43-55.
 14. Weissmann, C., Weber, H., Taniguchi, T., Müller, W. and Meyer, F.; Reversed genetics: a new approach to the elucidation of structure-function relationship. (1979). In: *Human Genetics, Possibilities and Realities*, CIBA Found. Symp. No.66, Excerpta Medica, Amsterdam, 47-61.
 15. Taniguchi, T. and Weissmann, C.; Escherichia coli ribosomes bind to non-initiator sites of Qb RNA in the absence of formylmethionyl-tRNA. (1979). *J. Mol. Biol.*, 128, 481-500.
 16. Weissmann, C., Mantei, N., Boll, W., Weaver, R. F., Wilkie, N., Clements, B., Taniguchi, T., van Ooyen, A., van den Berg, J., Fried M. and Murray, K.; Expression of cloned viral and chromosomal plasmid-linked DNA in cognate host cells. (1979). In: *From gene to protein: Information transfer in normal and abnormal cells.*, 1th Miami Winter Symp., Academic Press, 99-132.
 17. Weissmann, C., Nagata, S., Taniguchi, T., Weber, H. and Meyer, F.; The use of site directed mutagenesis in reversed genetics. (1979). *Genetic Engineering (Plenum Press)*, 1, 133-150.
 18. Taniguchi, T., Sakai, M., Fujii-Kuriyama, Y., Muramatsu, M., Kobayashi, S. and Sudo, T.; Construction and identification of a bacterial plasmid containing the human fibroblast interferon gene sequence. (1979). *Proc. Jpn. Acad.*, 55B, 464-469.

19. Taniguchi, T., Fujii-Kuriyama, Y. and Muramatsu, M.; Molecular cloning of human interferon cDNA. (1980). Proc. Natl. Acad. Sci. USA, 77, 4003-4006.
20. Taniguchi, T., Ohno, S., Fujii-Kuriyama, Y. and Muramatsu, M.; The nucleotide sequence of human fibroblast interferon cDNA. (1980). Gene, 10, 11-15.
21. Taniguchi, T., Mantei, N., Schwarzstein, M., Nagata, S., Muramatsu, M. and Weissmann, C.; Human leukocyte and fibroblast interferons are structurally related. (1980). Nature, 285, 547-549.
22. Taniguchi, T., Guarente, L., Roberts, T. M., Kimelman, D., Douhan III, J. and Ptashne, M.; Expression of the human fibroblast interferon gene in E.coli. (1980). Proc. Natl. Acad. Sci. USA, 77, 5230-5233.
23. Ohno, S. and Taniguchi, T.; Structure of a chromosomal gene for human interferon- β . (1981). Proc. Natl. Acad. Sci. USA, 78, 5305-5309.
24. Taniguchi, T., Pang, R. H. L., Yip, Y. K., Henriksen, D. and Vilcek, J.; Partial characterization of γ (immune) interferon mRNA extracted from human lymphocytes. (1981). Proc. Natl. Acad. Sci. USA, 78, 3469-3472.
25. Fujii-Kuriyama, Y., Taniguchi, T., Mizukami, Y., Sakai, M., Tashiro, Y. and Muramatsu, M.; Construction and identification of a hybrid plasmid containing DNA sequence complementary to phenobarbital-inducible cytochrome P-450 messenger RNA from rat liver. (1981). J. Biochem., 89, 1869-1879.
26. Ohno, S. and Taniguchi, T.; Inducer-responsive expression of the cloned human interferon- β gene introduced into cultured mouse cells. (1982). Nucleic Acids Res., 10, 967-977.
27. Taniguchi, T., Ohno, S. and Takaoka, C.; Expression of the cloned genes for human interferon- β in E.coli and in cultured mouse cells. (1982). In: Interferons (Academic Press), 15-25.
28. Taniguchi, T., Ohno, S., Fujii-Kuriyama, Y. and Takaoka, C.; Studies on a human interferon- β gene. (1982). In: The Clinical Potential of Interferons (Univ. of Tokyo Press), 341-351.
29. Taniguchi, T., Matsui, H., Fujita, T., Takaoka, C., Kashima, N., Yoshimoto, R. and Hamuro, J.; Structure and expression of a cloned cDNA for human interleukin-2. (1983). Nature, 302, 305-310.
30. Ohno, S. and Taniguchi, T.; The 5'-flanking sequence of human interferon- β 1 gene is responsible for viral induction of transcription. (1983). Nucleic Acids Res., 11, 5403-5412.
31. Fujita, T., Takaoka, C., Matsui, H. and Taniguchi, T.; Structure of the human interleukin-2 gene. (1983). Proc. Natl. Acad. Sci. USA, 80, 7437-7441.
32. Higashi, Y., Sokawa, Y., Watanabe, Y., Kawade, Y., Ohno, S., Takaoka, C. and Taniguchi, T.;

- Structure and expression of a cloned cDNA for mouse interferon- β . (1983). *J. Biol. Chem.*, 258, 9522-9529.
33. Nishi, T., Sato, M., Saito, A., Itoh, S., Takaoka, C. and Taniguchi, T.; Construction and application of a novel plasmid vector for direct expression of foreign genes in *Escherichia coli*; ATG vector. (1983). *DNA*, 2, 265-273.
34. Taniguchi, T., Matsui, H., Fujita, T., Takaoka, C., Kashima, N., Yoshimoto, R. and Hamuro, J.; Structure and expression of human interleukin-2 gene. (1983). *Progress in Immunology (Academic Press)*, V, 273-277.
35. Taniguchi, T., Ohno, S., Nishi, T., Itoh, S. and Takaoka, C.; Expression of the human interferon- β 1 gene in heterologous host cells. (1983). In : *Humoral Factors in Host Defense*, Yamamura, Y. et al. eds., (Academic Press), 131-139.
36. Itoh, S., Mizukami, T., Matsumoto, T., Nishi, T., Saito, A., Oka, T., Furuya, A., Takaoka, C. and Taniguchi, T.; Efficient expression in *Escherichia coli* of a mature and a modified human interferon- β . (1984). *DNA*, 3, 157-165.
37. Shows, T., Eddy, R., Haley, L., Byers, M., Henry, M., Fujita, T., Matsui, H. and Taniguchi, T.; Interleukin 2 (IL-2) is assigned to human chromosome 4. (1984). *Somat. Cell Mol. Genet.*, 10, 315-318.
38. Fuse, A., Fujita, T., Yasumitsu, H., Kashima, N., Hasegawa, K. and Taniguchi, T.; Organization and structure of the mouse interleukin-2 gene. (1984). *Nucleic Acids Res.*, 12, 9323-9331.
39. Kashima, N., Nishi-Takaoka, C., Fujita, T., Taki, S., Yamada, G., Hamuro, J. and Taniguchi, T.; Unique structure of murine interleukin-2 as deduced from cloned cDNAs. (1985). *Nature*, 313, 402-404.
40. Nishi, T., Fujita, T., Nishi-Takaoka, C., Saito, A., Matsumoto, T., Sato, M. Oka, T., Itoh, S., Yip, Y. K., Vilcek, J. and Taniguchi, T.; Cloning and expression of a novel variant of human interferon-g cDNA. (1985). *J. Biochem.*, 97, 153-159.
41. Shiroza, T., Nakazawa, K., Tashiro, N., Yamane, K., Yanagi, K., Yamasaki, M., Tamura, G., Saito, H., Kawade, Y. and Taniguchi, T.; Synthesis and secretion of biologically active mouse interferon- γ using a *Bacillus subtilis* a-amylase secretion vector. (1985). *Gene*, 34, 1-8.
42. Taniguchi, T., Fuse, A., Nishi-Takaoka, C., Yamada, G., Hasegawa, K., Fujita, T., Kashima, N., Matsui, H. and Hamuro, J.; Structure and organization of the murine interleukin-2 gene. (1985). In: *Cellular and Molecular Biology of Lymphokines*, Sorg, C. & Schimpl, A. eds. Academic press, Orlando, U.S.A., 587-593.
43. Fujita, T., Ohno, S., Yasumitsu, H. and Taniguchi, T.; Delimitation and properties of DNA

- sequences required for the regulated expression of human interferon- β gene. (1985). *Cell*, 41, 489-496.
44. Taniguchi, T., Fujita, T., Matsui, H., Kashima, N., Yoshimoto, R., Hamuro, J. and Nishi-Takaoka, C.; Molecular cloning, structural analysis and expression of the human interleukin-2 gene. (1985). In: *T cell Clones, Research Monographs in Immunology*, 8, von Boehmer, H. & Haas, W. eds., Elsevier, Amsterdam, 69-78.
45. Hatakeyama, M., Minamoto, S., Uchiyama, T., Hardy, R. R., Yamada, G. and Taniguchi, T.; Reconstitution of functional receptor for human interleukin-2 in mouse cells. (1985). *Nature*, 318, 467-470.
46. Matsui, H., Fujita, T., Nishi-Takaoka, C., Hamuro, J. and Taniguchi, T.; Molecular cloning and expression of the human interleukin 2 gene. (1985). *Lymphokines (E. Picked.) Academic Press Inc.*, 12, 1-12.
47. Seiki, M., Hikikoshi, A., Taniguchi, T., Yoshida, M.: Expression of the pX gene of HTLV-1: General splicing mechanism in the HTLV family. (1985). *Science*, 228, 1532-1534.
48. Taniguchi, T., Matsui, H., Fujita, T., Hatakeyama, M., Kashima, N., Fuse, A., Hamuro, J., Nishi-Takaoka, C. and Yamada, G.; Molecular analysis of the interleukin-2 system. (1986). *Immunol. Rev.*, 92, 121-133.
49. Fujita, T., Shibuya, H., Ohashi, T. Yamanishi, K. and Taniguchi, T.; Regulation of human interleukin-2 gene.: Functional DNA sequences in the 5' flanking region for the gene expression in activated T lymphocytes. (1986). *Cell*, 46, 401-407.
50. Hasegawa, K., Maruyama, M., Fujita, T., Ohashi, T., Hatakeyama, M., Minamoto, S., Yamada, G. and Taniguchi, T.; Structure and regulation of the genes encoding interleukin-2 and its receptor. (1986). In: *Regulation of Immune Gene Expression*, Feldmann, M. & McMichael, A. eds., The Humana Press Inc., Clifton, U.S.A., 85-93.
51. Hatakeyama, M., Minamoto, S. and Taniguchi, T.; Intracytoplasmic phosphorylation sites of Tac antigen (p55) are not essential for the conformation, function and regulation of the human interleukin 2 receptor. (1986). *Proc. Natl. Acad. Sci. USA*, 83, 9650-9654.
52. Yamada, G., Fujita, T., Hatakeyama, M. and Taniguchi, T.; Molecular biology of interleukin-2 and its receptor: The current status. (1986). In: *Progress in Immunology VI*, B. Cinader & R. Miller eds., Academic Press Inc., Toronto, 469-475.
53. Kuga, T., Hattori, S., Yoshida, M. and Taniguchi, T.; Expression of human T-cell leukemia virus type I envelope protein in *Saccharomyces cerevisiae*. (1986). *Gene*, 44, 337- 340.
54. Hirano, T., Yasukawa, K., Harada, H., Taga, T., Watanabe, Y., Matsuda, T., Kashiwamura, S.,

- Nakajima, K., Koyama, K., Iwamatsu, A., Tsunasawa, S., Sakiyama, F., Matsui, H., Takahara, Y., Taniguchi, T. and Kishimoto, T.; Complementary DNA for anovel human interleukin (BSF-2) that induces B lymphocytes to produce immunoglobulin. (1986). *Nature*, 324, 73-76.
55. Taniguchi, T., Fujita, T., Hatakeyama, M., Mori, H., Matsui, H., Sato, T., Hamuro, J., Minamoto, S., Yamada, G. and Shibuya, H.; Interleukin-2 and its receptor: Structure and functional expression of the genes. (1986). *Cold Spring Harbor Symp.*, LI, 577-586.
56. Hatakeyama, M., Minamoto, S., Mori, H. and Taniguchi, T.; Structure and Function of the human interleukin-2 receptor. (1986). In: *Oncogenes and Growth Control*, P. Kahn & T. Graf eds., Springer-Verlag Berlin Heidelberg, 129-134.
57. Shibuya, H., Harada, H., Maruyama, M., Fujita, T., Seiki, M., Inoue, J., Yoshida, M., Hatakeyama, M. and Taniguchi, T.; Two step activation of the interleukin-2 autocrine loop may be involved in ATL development. (1987). In: *Molecular Basis of Lymphokine Action*, David R. Webb, Carl W. Pierce, and Stanley Cohen eds., The Humana Press, New Jersey, U.S.A., 161-169.
58. Tanaka, T., Saiki, O., Doi, S., Hatakeyama, M., Doi, T., Kono, T., Mori, H., Fujii, M., Sugamura, K., Negoro, S., Taniguchi, T. and Kishimoto, S.; Functional interleukin 2 receptors on B cells lacking Tac antigens. (1987). *Eur. J. Immunol.*, 17, 1379-1382.
59. Taniguchi, T.; B.C., D.C., and A.C. of an interferon gene. (1987). *J. Interferon Res.*, 7, 481-485.
60. Sato, T., Matsui, H., Shibahara S., Kobayashi T., Morinaga, Y., Kashima, N., Yamasaki, S., Hamuro, J. and Taniguchi, T.; New approaches for the high-level expression of human interleukin-2 cDNA in *Escherichia coli*. (1987). *J. Biochem.*, 101, 525-534.
61. Maruyama, M., Shibuya, H., Harada, H., Hatakeyama, M., Seiki, M., Fujita, T., Inoue, J-I., Yoshida, M. and Taniguchi, T.; Evidence for aberrant activation of the interleukin-2 autocrine loop by HTLV-1-encoded p40x and T3/Ti complex triggering. (1987). *Cell*, 48, 343-350.
62. Fujita, T., Shibuya, H., Hotta, H., Yamanishi, K. and Taniguchi, T.; Interferon- β gene regulation: Tandemly repeated sequences of a synthetic 6bp oligomer function as a virus inducible enhancer. (1987). *Cell*, 49, 357-367.
63. Hatakeyama, M., Doi, T., Kono, T., Maruyama, M., Minamoto, S., Mori, H., Kobayashi, M., Uchiyama, T. and Taniguchi, T.; Transmembrane signaling of interleukin 2 receptor: Conformation and function of human interleukin 2 receptor (p55)/insulin receptor chimeric molecules. (1987). *J. Exp. Med.*, 166, 362-375.
64. Yamada, G., Kitamura, Y., Sonoda, H., Harada, H., Taki, S., Mulligan, R.C., Osawa, H., Diamantstein, T., Yokoyama, S. and Taniguchi, T.; Retroviral expression of the human IL-2 gene in a murine T cell line results in cell growth autonomy and tumorigenicity. (1987). *EMBO J.*, 6, 2705-2709.

65. Taniguchi, T.; Regulation of cytokine gene expression. (1988). *Annu. Rev. Immunol.*, 6, 439-464.
66. Hatakeyama, M. and Taniguchi, T.; Dysregulation of growth factor receptor system in cellular transformation. (1988). *Jpn. J. Cancer Res.*, 79, 885-901.
67. Miyamoto, M., Fujita, T., Kimura, Y., Maruyama, M., Harada, H., Sudo, Y., Miyata, T. and Taniguchi, T.; Regulated expression of a gene encoding a nuclear factor, IRF-1, that specifically binds to IFN- β gene regulatory elements. (1988). *Cell*, 54, 903-913.
68. Yamasaki, K., Taga, T., Hirata, Y., Yawata, H., Kawanishi, Y., Seed, B., Taniguchi, T., Hirano, T. and Kishimoto, T.; Cloning and expression of the human interleukin-6 (BSF 2/IFN β 2) receptor. (1988). *Science*, 241, 825-828.
69. Yamada, G., Hatakeyama, M., Fujita, T. and Taniguchi, T.; Molecular biology of the interleukin-2 system. (1988). *Gann Monograph on Cancer Res. (Tokyo)*, 34, 167-175.
70. Buchan, G., Barrett, K., Fujita, T., Taniguchi, T., Maini, R. and Feldmann, M.; Detection of activated T cell products in the rheumatoid joint using cDNA probes to interleukin-2 (IL-2) IL-2 receptor and IFN- γ . (1988). *Clin. Exp. Immunol.*, 71, 295-301.
71. Tagawa, S., Hatakeyama, M., Shibano, M., Taniguchi, T. and Kitani, T.; The expression of the p75 subunit of interleukin 2 receptor in Tac negative leukemic cells of two patients with large granular lymphocytic leukemia. (1988). *Blood*, 71, 1161-1194.
72. Taniguchi, T., Fujita, T., Yamada, G., Miyamoto, M., Harada, H., Kimura, Y., Maruyama, M. and Shibuya, H.; Cytokine gene expression: Regulation in the type I IFN and the IL-2 systems. (1988). In: *The Biology of the Interferon System 1988*, Kawade, Y., & Kobayashi, S. eds., Kodansha Scientific, 3-10.
73. Fujita, T., Sakakibara, J., Sudo, Y., Miyamoto, M., Kimura, Y., and Taniguchi, T.; Evidence for a nuclear factor(s), IRF-1, mediating induction and silencing properties to human IFN- β gene regulatory elements. (1988). *EMBO J.*, 7, 3397-3405.
74. Yamasaki, K., Taga, T., Hirata, Y., Yawata, H., Kawanishi, Y., Seed, B., Taniguchi, T., Hirano, T., and Kishimoto, T.; Molecular structure of interleukin 6 receptor. (1988). In: *Proceedings of the Japan Academy*, 64, Ser. B, 209-210.
75. Fujita, T., Reis, L.F.L., Watanabe, N., Kimura, Y., Taniguchi, T., and Vilcek, J.; Induction of the transcription factor IRF-1 and interferon- β mRNAs by cytokines and activators of second-messenger pathways. (1989). *Proc. Natl. Acad. Sci. USA*, 86, 9936-9940.
76. Fujita, T., Kimura, Y., Miyamoto, M., Barsoumian, E. L. and Taniguchi, T.; Induction of endogenous IFN- α and IFN- β gene by a regulatory transcription factor, IRF-1. (1989). *Nature*, 337,

270-272.

77. Fujita, T., Miyamoto, M., Kimura, Y., Hammer, J. and Taniguchi, T.; Involvement of a cis-element that binds an H2TF-1/NFkB like factor(s) in the viurs-induced interferon- β gene expression. (1989). *Nucleic Acids Res.*, 17, 3335-3346.
78. Doi, T., Hatakeyama, M., Itoh, S. and Taniguchi, T.; Transient induction of IL-2 receptor in cultured T cell lines by HTLV-1 LTR-linked tax-1 gene. (1989). *EMBO J.*, 8, 1953-1958.
79. Hatakeyama, M., Tsudo, M., Minamoto, S., Kono, T., Doi, T., Miyata, T., Miyasaka, M. and Taniguchi, T.; Interleukin-2 receptor β chain gene: Generation of three receptor forms by cloned human α and β chain cDNA's. (1989). *Science*, 244, 551-556.
80. Harada, H., Fujita, T., Miyamoto, M., Kimura, Y., Maruyama, M., Furia, A., Miyata, T. and Taniguchi, T.; Structurally similar but functionally distinct factors, IRF-1 and IRF-2, bind to the same regulatory elements of IFN and IFN-inducible genes. (1989). *Cell*, 58, 729-739.
81. Shibuya, H., Yoneyama, M. and Taniguchi, T.; Involvement of a common transcription factor in the regulated expression of IL-2 and IL-2 receptor genes. (1989). *Int. Immunol.*, 1, 43-49.
82. Shibuya, H. and Taniguchi, T.; Identification of multiple cis-elements and trans-acting factors involved in the induced expression of human IL-2 gene. (1989). *Nucleic Acids Res.*, 17, 9173-9184.
83. Hatakeyama, M., Mori, H., Doi, T. and Taniguchi, T.; A restricted cytoplasmic region of IL-2 receptor β chain is essential for growth signal transduction but not for ligand binding and internalization. (1989). *Cell*, 59, 837-845.
84. Doi, T., Hatakeyama, M., Minamoto, S., Kono, T., Mori, H. and Taniguchi, T.; Human interleukin 2 (IL 2) receptor β chain allows transduction of IL 2-induced proliferation signal(s) in a murine cell line. (1989). *Eur. J. Immunol.*, 19, 2375-2378.
85. Taniguchi, T.; Regulation of interferon- β gene: Structure and function of cis-elements and trans-acting factors. (1989). *J. Interferon Res.*, 9, 633-640.
86. Kuga, T., Fujita, T. and Taniguchi, T.; Nucleotide sequence of the mouse interferon- β gene. (1989). *Nucleic Acids Res.*, 17, 3291.
87. Maruyama, M., Fujita, T. and Taniguchi, T.; Sequence of a cDNA coding for human IRF-1. (1989). *Nucleic Acids Res.*, 17, 3292.
88. Itoh, S., Harada, H., Fujita, T., Mimura, T. and Taniguchi, T.; Sequence of a cDNA coding for human IRF-2. (1989). *Nucleic Acids Res.*, 17, 8372.
89. Taniguchi, T., Hatakeyama, M., Minamoto, S., Kono, T., Doi, T., Tsudo, M. and Miyasaka, M.;

- Molecular analysis of the interleukin-2 receptor complex: Expression of the human α and β chain cDNAs. (1989). *Progress in Immunology* Vol, VII, F. Melchers et al. eds. Berlin, 627-632.
90. Taniguchi, T., Hatakeyama, M., Minamoto, S., Kono, T., Doi, T., Tsudo, M., Miyasaka, M. and Miyata, T.; Interleukin-2 receptor β chain: Molecular cloning and functional expression of the human cDNA. (1989). *Cold Spring Harbor Symposia on Quantitative Biology*, Vol. LIV, 689-694.
91. Kono, T., Doi, T., Yamada, G., Hatakeyama, M., Minamoto, S. Tsudo, M., Miyasaka, M., Miyata, T. and Taniguchi, T.; Murine interleukin 2 receptor β chain: Dysregulated gene expression in lymphoma line EL-4 caused by a promoter insertion. (1990). *Proc. Natl. Acad. Sci. USA*, 87, 1806-1810.
92. Hatakeyama, M. and Taniguchi, T.; Interleukin-2. (1990). In: *Handbook of Experimental Pharmacology*, Vol.95/I; Peptide Growth Factors and Their Receptors I, M. B. Spron & A. B. Roberts eds., (Springer-Verlag Berlin Heidelberg), 523-540.
93. Shibuya H., Yoneyama, M., Nakamura, Y., Harada, H., Hatakeyama, M., Minamoto, S., Kono, T., Doi, T., White, R. and Taniguchi, T.; The human interleukin-2 receptor β -chain gene: Genomic organization, promoter analysis and chromosomal assignment. (1990). *Nucleic Acids Res.*, 18, 3697.
94. Harada, H., Willison, K., Sakakibara, J., Miyamoto, M., Fujita, T. and Taniguchi, T.; Absence of the type I IFN system in EC cells: Transcriptional activator (IRF-1) and repressor (IRF-2) genes are developmentally regulated. (1990). *Cell*, 63, 303-312.
95. Tsudo, M., Karasuyama, H., Kitamura, F., Tanaka, T., Kubo, S., Yamamura, Y., Tamatani, T., Hatakeyama, M., Taniguchi, T. and Miyasaka, M.; The IL-2 Receptor β chain (p70): Ligand binding ability of the cDNA-encoding membrane and secreted forms. (1990). *J. Immunol.*, 145, 599-606.
96. Reis, L. F. L., Fujita, T., Lee, T. H., Taniguchi, T. and Vilcek, J.; TNF and IL-1 induce mRNAs for the transcription factors IRF-1 and IRF-2: Possible roles in the regulation of IFN- β expression. (1990). *Molecular and Cellular Biology of Cytokines* (Wiley-Liss, Inc.), 1-6.
97. Okamoto, Y., Minamoto, S., Shimizu, K., Mogami, H. and Taniguchi, T.; Interleukin 2 receptor β chain expressed in an oligodendrogloma line binds interleukin 2 and delivers growth signal. (1990). *Proc. Natl. Acad. Sci. USA*, 87, 6584-6588.
98. Mori, H., Barsoumian, E. L., Hatakeyama, M., and Taniguchi, T.; Signal transduction by interleukin 2 receptor β chain: importance of the structural integrity as revealed by site directed mutagenesis and generation of chimeric receptors. (1990). *Int. Immunol.*, 3, 149-156.
99. Yamada, G., Ogawa, M., Akagi, K., Miyamoto, H., Nakano, N., Itoh, S., Miyazaki, J., Nishikawa, S., Yamamura, K., and Taniguchi, T.; Specific depletion of the B cell population induced by aberrant expression of human IRF-1 (interferon regulatory factor-1) gene in transgenic mice. (1991). *Proc. Natl. Acad. Sci. USA*, 88, 532-536.

100. Tanaka, T., Tsudo, M., Karasuyama, H., Toyama, N., Hatakeyama, M., Taniguchi, T., and Miyasaka, M.; Signal transduction through the human IL-2 receptor β -chain expressed in IL-6-dependent mouse B cell hybridoma. (1991). *Int. Immunol.*, 3, 105-108.
101. Taniguchi, T., Fujita, T., Harada, H., Sakakibara, J., and Watanabe, N.; Regulation of cellular responses by cytokines: Positive and negative transcription factors affecting the interferon system. (1991). In: *Origins of Human Cancer: A Comprehensive Review*, (Cold Spring Harbor Laboratory Press), 501.
102. Hatakeyama, M., Kono, T., Kobayashi, N., Kawahara, A., Levin, S. D., Perlmutter, R. M., and Taniguchi, T.; Interaction of the IL-2 receptor with the src-family kinase p56lck: Identification of novel intermolecular association. (1991). *Science*, 252, 1523-1528.
103. Taniguchi, T., Fujita, T., Harada, H., Sakakibara, J., Watanabe, N., and Kimura T.; Cytokine gene expression: Molecular basis for the regulation of type I interferon system. (1991). In: *Cytokine Interactions and their Control*. Edited by A. Baxter and R. Ross. (John Wiley & Sons Ltd.), 39-50.
104. Pleiman, C. M., Gimpel, S. D., Park, L. S., Harada, H., Taniguchi, T., and Ziegler, S. F.; Organization of the murine and human interleukin-7 receptor genes: Two mRNAs generated by differential splicing and presence of a type I-interferon-inducible promoter. (1991). *Mol. Cell. Biol.*, 11, 3052-3059.
105. Taniguchi, T., Fujita, T., Harada, H., Sakakibara, J., Watanabe, N., and Kimura, T.; Molecular basis for the regulation of type I IFN system. (1991). In: *Serono Symposia Publications from Raven Press Vol. 82., The Status of Differentiation Therapy of Cancer vol. II*, 215-220. Eds. S. Waxman, G.B. Rossi, F. Takaku.
106. Watanabe, N., Sakakibara, J., Hovanessian, A., Taniguchi, T., and Fujita, T.; Activation of IFN- β promoter element by IRF-1 requires a pos-translational event in addition to IRF-1 synthesis. (1991). *Nucleic Acids Res.* 19, 4421-4428.
107. Itoh, S., Harada, H., Nakamura, Y., White, R., and Taniguchi, T.; Assignment of the human interferon regulatory factor-1 (IRF1) gene to chromosome 5q23-q31. (1991). *Genomics* 10, 1097-1099.
108. Miyazaki, T., Maruyama, M., Yamada, G., Hatakeyama, M. and Taniguchi, T.; The integrity of the conserved "WS motif" common to IL-2 and other cytokine receptors is essential for ligand binding and signal transduction. (1991). *EMBO J.*, 10, 3191-3197.
109. Taniguchi, T., Hatakeyama, M., Minamoto, S., Kono, T., Mori, H., Okamoto, Y., and Shimizu, K.; Molecular analysis of human IL-2 and IL-2 receptors. (1992). In: *Drug Resistances as A Biochemical Target in Cancer Chemotherapy*, (Academic Press, Inc.) 211-222.

110. Reis, L. F. L., Harada, H., Wolchok, J. D., Taniguchi, T., and Vilcek, J.; Critical role of a common transcription factor, IRF-1, in the regulation of IFN- β and IFN-inducible genes. (1992). *EMBO J.*, 11, 185-193.
111. Hatakeyama, M., Kawahara, A., Mori, H., Shibuya, H., and Taniguchi, T.; c-fos gene induction by IL-2: Identification of the critical cytoplasmic regions within the IL-2 receptor β chain. (1992). *Proc. Natl. Acad. Sci. USA.*, 89, 2022-2026.
112. Tanaka, T., Tsudo, M., Karasuyama, H., Kitamura, F., Kono, T., Hatakeyama, M., Taniguchi, T., and Miyasaka, M.; A novel monoclonal antibody against murine IL-2 receptor β chain: Characterization of receptor expression in normal lymphoid cells and EL 4 cells. (1992). *J. Immunol.*, 147, 2222-2228.
113. Nakanishi, K., Hirose, S., Yoshimoto, T., Ishizashi, H., Hiroishi, K., Tanaka, T., Kono, T., Miyasaka, M., Taniguchi, T.; Role and regulation of interleukin (IL)-2 receptor α and β chains in IL-2-driven B-cell growth. (1992). *Proc. Natl. Acad. Sci. USA.*, 89, 3551-3555.
114. Shibuya, H., Yoneyama, M., Ninomiya-Tsuji, J., Matsumoto, K., and Taniguchi, T.; IL-2 and EGF receptors stimulate the hematopoietic cell cycle via different signaling pathways: Demonstration of a novel role for c-myc. (1992). *Cell*, 70, 57-67.
115. Shibuya, H., Irie, K., Ninomiya-Tsuji, J., Goebel, M., Taniguchi, T., and Matsumoto, K.; New human gene encoding a positive modulator of HIV Tat-mediated transactivation. (1992). *Nature*, 357, 700-702.
116. Satoh, T., Minami, Y., Kono, T., Yamada, K., Kawahara, A., Taniguchi, T., and Kaziro, Y.; Interleukin 2-induced activation of Ras requires two domains of interleukin 2 receptor β subunit, the essential region for growth stimulation and Lck-binding domain. (1992). *J. Biol. Chem.*, 267, 25423-25427.
117. Minami, Y., Kono, T., Yamada, K., and Taniguchi, T.; The interleukin-2 receptors: Insights into a complex signalling mechanism. (1992). *Biochim. Biophys. Acta*, 1114, 163-177.
118. Tanaka, N., and Taniguchi, T.; Cytokine gene regulation: Regulatory cis-elements and DNA binding factors involved in the interferon system. (1992). *Adv. Immunol.*, 52, 263-281.
119. Minami, Y., Kono, T., Yamada, K., Kobayashi, N., Kawahara, A., Perlmutter, R. M., and Taniguchi, T.; Association of p56lck with IL-2 receptor β chain is critical for the IL-2 induced activation of p56lck. (1993). *EMBO J.*, 12, 759-768.
120. Harada H., Kitagawa, M., Tanaka, N., Yamamoto, H., Harada, K., Ishihara, M., and Taniguchi, T.; Anti-oncogenic and oncogenic potentials of interferon regulatory factors-1 and-2. (1993). *Science*, 259, 971-974.

121. Willman, C. L., Sever C. E., Pallavicini, M. G., Harada, H., Tanaka, N., Slovak, M. L., Yamamoto, H., Harada, K., Meeker, T. C., List, A. F., and Taniguchi, T.; Deletion of IRF 1, mapping to chromosome 5q31.1, in human leukemia and preleukemic myelodysplasia. (1993). *Science*, 259, 968-971.
122. Minami, Y., Kono, T., Miyazaki, T., and Taniguchi, T.; The IL-2 receptor complex: Its structure, function, and target genes. (1993). *Annu. Rev. Immunol.*, 11, 245-267.
123. Kobayashi, N., Kono, T., Hatakeyama, M., Minami, Y., Miyazaki, T., Perlmutter, M.R., and Taniguchi, T.; Functional coupling of the src-family protein tyrosine kinases, p59fyn and p53/56lyn with the interleukin-2 receptor; Implications for redundancy and pleiotropism in cytokine signal transduction. (1993). *Proc. Natl. Acad. Sci. USA*, 90, 4201-4205.
124. Taniguchi, T., and Minami, Y.; The IL-2/IL-2 receptor system: A current overview. (1993). *Cell*, 73, 5-8.
125. Tanaka, N., Kawakami, T., and Taniguchi, T.; Recognition DNA sequences of interferon regulatory factor 1 (IRF-1) and IRF-2, regulators of cell growth and the interferon system. (1993). *Mol. Cell. Biol.*, 13, 4531-4538.
126. Kobayashi, N., Nakagawa, S., Minami, Y., Taniguchi, T. and Kono, T.; Cloning and sequencing of the cDNA encoding a mouse IL-2 receptor γ . (1993). *Gene*, 130, 303-304.
127. Matsuyama, T., Kimura, T., Kitagawa, M., Pfeffer, K., Kawakami, T., Watanabe, N., K dig, M. T., Amakawa, R., Kishihara, K., Wakaeham, A., Potter, J., Furlonger, L. C., Narendran, A., Suzuki, H., Ohashi, P. S., Paige, J. C., Taniguchi, T. and Mak, T. W.; Targeted disruption of IRF-1 or IRF-2 results in abnormal type I IFN gene induction and aberrant lymphocyte development. (1993). *Cell*, 75, 83-97.
128. Kono, T., Minami, Y. and Taniguchi, T.; The interleukin-2 receptor complex and signal transduction: role of the β -chain. (1993). *Seminars in Immunol.*, 5, 299-307.
129. Harada, H., Takahashi, E., Itoh, S., Harada., K., Hori, T., and Taniguchi, T.; Structure and regulation of the human interferon regulatory factor 1 (IRF-1) and (IRF-2) genes: Implications for a gene network in the interferon system. (1994). *Mol. Cell. Biol.*, 14, 1500-1509.
130. Kamijo, R., Harada, H., Matsuyama, T., Bosland, M., Gerecitano, J., Shapiro, D., Koh, S. I., Kimura, T., Green, J. S., Mak, T. W., Taniguchi, T., Vilcek, J.; Essential role for the transcription factor IRF-1 in the induction of nitric oxide synthase in macrophages. (1994). *Science*, 263, 1612-1615.
131. Yamanoto, H., Lamphier, M.S., Fujita, T., Taniguchi, T. and Harada, H.; The oncogenic transcription factor IRF-2 possesses a transcriptional repression and a latent activation domain. (1994). *Oncogene*, 9, 1423-1428.

132. Tanaka, N., Ishihara, M., Kitagawa, M., Harada, H., Kimura, T., Matsuyama, T., Lamphier, M. S., Aizawa, S., Mak, T. W. and Taniguchi, T.; Cellular commitment to oncogene-induced transformation or apoptosis is dependent on the transcription factor IRF 1. (1994). *Cell*, 77, 829-839.
133. Kimura, T., Nakayama, K., Penninger, J., Kitagawa, M., Harada, H., Matsuyama, T., Tanaka, N., Kamijo, R., Vilcek, J., Mak, T. W., Taniguchi, T.; Involvement of the IRF-1 transcription factor in antiviral responses to interferons. (1994). *Science*, 264, 1921-1924.
134. Minami, Y., Oishi, I., Liu, Z-J., Nakagawa, S., Miyazaki, T. and Taniguchi, T.; Signal transduction mediated by the reconstituted IL-2 receptor. (1994). *J. Immunol.*, 152, 5680-5690.
135. Kawahara, A., Minami, Y. and Taniguchi, T.; Evidence for a critical role for the cytoplasmic region of the Interleukin 2 (IL-2) receptor chain in IL-2, IL-4, and IL-7 signaling. (1994). *Mol. Cell. Biol.*, 14, 5433-5440.
136. Tanaka, N., Ishihara, M., Taniguchi, T.; Suppression of c-myc or fos B-induced cell transformation of by the transcription factor IRF-1. (1994). *Cancer Letters*, 83, 191-196.
137. Shibuya, H., Kofu, K., Yamada, K., Barsoumian, L. E., Perlmutter, M. R. and Taniguchi, T.; Functional dissection of p56lck a protein tyrosine kinase which mediates Interleukin-2-Induced activation of the c-fos gene. (1994). *Mol. Cell. Biol.*, 14, 5812-5819.
138. Harada, H., Kondo, T., Ogawa, S., Tamura, T., Kitagawa, M., Tanaka, N., Lamphier, M.S., Hirai, H., and Taniguchi, T.; Accelerated exon skipping of IRF-1 mRNA in human myelodysplasia; leukemia; a possible mechanism of tumor suppressor inactivation. (1994). *Oncogene* 9, 3313-3320.
139. Miyazaki, T., Kawahara, A., Fujii, H., Nakagawa, Y., Minami, Y., Liu, Z-J., Oishi, I., Silvennoinen, O., Witthuhn, B.A., Ihle, J.N., and Taniguchi, T.; Functional activation of Jak 1 and Jak3 by selective association with IL-2 receptor subunits. (1994). *Science*, 266, 1045-1047.
140. Uegaki, K., Shirakawa, M., Harada, H., Taniguchi, T. and Kyogoku, Y.; Unique structure of the DNA binding domain of interferon regulatory factor 2 determined by NMR spectroscopy. (1994). *Proc. Japan Acad.*, 70, 200-204.
141. Minami, Y., Nakagawa, Y., Kawahara, A., Miyazaki, T., Sada, K., Yamamura, H. and Taniguchi, T.; Protein tyrosine kinase Syk is associated with and activated by the IL-2 receptor, possible link with the c-myc induction pathway. (1995). *Immunity*, 2, 89-100.
142. Kawakami, T., Matsumoto, M., Sato, M., Harada, H., Taniguchi, T., and Kitagawa, M.; Possible involvement of the transcription factor ISGF3g in virus-induced expression of the IFN- β gene. (1995). *FEBS Letters*, 358, 225-229.
143. Uegaki, K., Shirakawa, M., Harada, H., Taniguchi, T. and Kyogoku, Y.; Secondary structure and

folding topology of the DNA binding domain of interferon regulatory factor 2, as revealed by NMR spectroscopy. (1995). *FEBS Letters*, 359, 184-188.

144. Miyazaki, T., Liu, Z-J., Kawahara, A., Minami, Y., Yamada, K., Tsujimoto, Y., Barsoumian, E. L., Perlmutter, R. M. and Taniguchi, T.; Three distinct IL-2 signaling pathways mediated by bcl-2, c-myc and lck cooperate in hematopoietic cell proliferation. (1995). *Cell*, 81, 223-231.
145. Taniguchi, T.; Cytokine signaling through nonreceptor protein tyrosine kinases. (1995). *Science*, 268, 251-255.
146. Fujii, H., Nakagawa, Y., Schindler, U., Kawahara, A., Niru, H., Gouilleux, F., Groner, B., Ihle, J. N., Minami, Y., Miyazaki, T., and Taniguchi, T.; Activation of Stat5 by interleukin 2 requires a carboxyl-terminal region of the interleukin 2 receptor β chain but is not essential for the proliferative signal transmission. (1995). *Proc. Natl. Acad. Sci. USA*, 92, 5482-5486.
147. Suzuki, H., Kündig, M. T., Furlonger, C., Wakeham, A., Timms, E., Matsutama, T., Schmits, R., Simard, L.J.J., Ohashi, S.P., Griesser, H., Taniguchi, T., Paige, J.C., and Mak, W. T.; Deregulated T cell activation and autoimmunity in mice lacking interleukin-2 receptor β . (1995). *Science*, 268, 1472-1476.
148. Tamura, T., Ishihara, M., Lamphire, M.S., Tanaka, N., Oishi, I., Aizawa, S., Matsuyama, T., Mak, T. W., Taki, S. and Taniguchi, T.; An IRF-1-dependent pathway of DNA damage-induced apoptosis in mitogen-activated T lymphocytes. (1995). *Nature*, 376, 596-599.
149. Kawahara, A., Minami, Y., Miyazaki, T., Ihle, J.N., and Taniguchi, T.; Critical role of the interleukin 2 (IL-2) receptor γ -chain-associated Jak3 in the IL-2-induced c-fos and c myc, but not bcl-2, gene induction. (1995). *Proc. Natl. Acad. Sci. USA*, 92, 8724-8728.
150. Vaughan PS, Aziz F, van Wijnen AJ, Wu S, Harada H, Taniguchi T, Soprano KJ, Stein JL, Stein GS. ; Activation of a cell-cycle-regulated histone gene by the oncogenic transcription factor IRF-2. (1995) *Nature*, 377, 362-5.
151. Taniguchi, T.; IRF-1 and IRF-2 as regulators of the interferon system and cell growth. (1995). *Indian J. Biochemistry & Biophysics*, 32, 235-239.
152. Yamaguchi, K., Shirakabe, K., Shibuya, H., Irie, K., Oishi, I., Ueno, N., Taniguchi, T., Nishida, E. and Matsumoto, K.; Identification of member of the MAPKKK family as a potential mediator of TGF- β signal transduction. (1995). *Science*, 270, 2008-2011.
153. Taniguchi, T., Harada, H. and Lamphier, M.; Regulation of the interferon system and cell growth by the IRF transcription factors. (1995). *J. Cancer Res. Clin. Oncol.*, 121, 516-520.

154. Kimura, T., Kadokawa, Y., Harada, H., Matsumoto, M., Sato, M., Kashiwazaki, Y., Tarutani, M., Tan, S-P. R., Takasugi, T., Matsuyama, T., Mak, W. T., Noguchi, S. and Taniguchi, T.; Essential and non-redundant roles of p48 (ISGF3 γ) and IRF-1 in both type I and type II interferon responses, as revealed by gene targeting studies. (1996). *Genes to Cells*, 1, 115-124.
155. Yamagata, T., Nishida, J., Tanaka, T., Sakai, R., Mitani, K., Yoshida, M., Taniguchi, T., Yazaki, Y. and Hirai, H.; A novel interferon regulatory factor family transcription factor, ICSAT/Pip/LSIRF, that negatively regulates the activity of interferon-regulated genes. (1996). *Mol. Cell. Biol.*, 4, 1283-1294.
156. Tan, S-P. R., Taniguchi, T. and Harada, H.; Identification of the lysyl oxidase gene as a target of the antioncogenic transcription factor, IRF-1, and its possible role in tumor suppression. (1996). *Cancer Res.*, 56, 2417-2421.
157. Miyazaki, T., Liu, Z-J. and Taniguchi, T.; Selective cooperation of HTLV-1-encoded p40tax-1 with cellular oncoproteins in the induction of hematopoietic cell proliferation. (1996). *Oncogene*, 12, 2403-2408.
158. Tanaka, N., Ishihara, M., Lamphier, M., Nozawa, H., Matsuyama, T., Mak, T.W., Aizawa, S., Tokino, T., Oren, M. and Taniguchi, T.; Cooperation of the tumor suppressors IRF-1 and p53 in response to DNA damage. (1996). *Nature*, 382, 816-818.
159. Miyazaki, T. and Taniguchi, T.; Coupling of the IL-2 receptor complex with non receptor protein tyrosine kinases. (1996). *Cancer Surveys*, 27, 25-40.
160. Adachi, M., Sekiya, M., Torigoe, T., Takayama, S., Reed, J. C., Miyazaki, T., Minami, Y., Taniguchi, T., and Imai, K.; Interleukin-2 (IL-2) upregulates BAG-1 gene expression through serine-rich region within IL-2 receptor β c chain. (1996). *Blood*, 88, 4118-4123.
161. Harada, H., Matsumoto, M., Sato, M., Kashiwazaki, Y., Kimura, T., Kitagawa, M., Yokochi, T., Tan, S-P. R., Takasugi, T., Kadokawa, Y., Schindler, C., Schreiber, R. D., Noguchi, S. and Taniguchi, T.; Regulation of IFN- α/β genes: evidence for a dual function of the transcription factor complex ISGF3 in the production and action of IFN- α/β . (1996). *Genes to Cells*, 1, 995-1005.
162. Taniguchi, T., Lamphier, M. S., and Tanaka, N.; IRF-1; the transcription factor linking the interferon response and oncogenesis. (1997). *Biochem. Biophys. Acta Reviews on Cancer*, 1333, M9-M17.
163. Endo, A, T., Maruhara, M., Yokouchi, M., Suzuki, Y., Sakamoto, H., Mitsui, K., Matsumoto, A., Taniura, S., Ohtsubo, M., Misawa, H., Miyazaki, T., Nogueira, L., Taniguchi, T., Fujita, T., Kanekura, Y., Komiyama, S. and Yoshimura, A.; A new protein containing an SH2 domain that inhibits JAK kinases. (1997). *Nature*, 387, 921-924.
164. Taki, S., Sato, T., Ogasawara, K., Fukuda, T., Sato, M., Hida, S., Suzuki, G., Mitsuyama, M.,

- Shin, E.-H., Kojima, S., Taniguchi, T. and Asano, Y.; Multistage regulation of Th1-type immune responses by the transcription factor IRF-1. (1997). *Immunity*, 6, 673-679.
165. Taniguchi, T.; Transcription factors IRF-1 and IRF-2: linking the immune responses and tumor suppression. (1997). *J. Cellular Physiology*, 173, 128-130.
166. Fujimura, M., Tominaga, T., Kato, I., Takasawa, S., Kawase, M., Taniguchi, T., Okamoto, H. and Yoshimoto, T.; Attenuation of nitric oxide synthase induction in IRF-1-deficient glial cells. (1997). *Brain Research*, 759, 247-250.
167. Penninger, J.M., Sirard, C., Mittücker, H-W., Chidgey, A., Koziaradzki, I., Nghiem, M., Hakem, A., Kimira, T., Timms, E., Boyd, R., Taniguchi, T., Matsuyama, T. and Mak, T.W.; The interferon regulatory transcription factor IRF-1 controls positive and negative selection of CD8+ thymocytes. (1997). *Immunity*, 7, 243-254.
168. Kondo, T., Minamino, N., Nagamura-Inoue, T., Matsumoto, M., Taniguchi, T. and Tanaka, N.; Identification and characterization of nucleophosmin/ B23/numatrin which binds the anti-oncogenic transcription factor IRF-1 and manifests oncogenic activity. (1997). *Oncogene*, 15, 1275-1281.
169. Minami, Y. and Taniguchi, T.; Interleukin-2 and the IL-2 receptor. (1997). *Encyclopedia of Human Biology*, 5, 125-131.
170. Tanaka, N., Sato, M., Lamphier, M. S., Oda, E., Schreiber, R. D., Tsujimoto, Y. and Taniguchi, T.; Type I interferons are essential mediators of apoptotic death in virally infected cells. (1998). *Genes to Cells*, 3, 29-37.
171. Vaughan, P. S., van der Meijden, C. M. J., Aziz, F., Harada, H., Taniguchi, T., van Wijnen, A. J., Stein J. L. and Stein, G. S.; Cell cycle regulation of histone H4 gene transcription requires the oncogenic factor IRF-2. (1998). *J. Biol. Chem*, 273, 194-199.
172. Ogasawara, K., Hida, S., Azimi, N., Tagaya, Y., Sato, T., Yokochi-Fukuda, T., Waldmann, T.A., Taniguchi, T. and Taki, S.; Requirement of IRF-1 for the microenvironment supporting natural killer cell development. (1998). *Nature*, 391, 700-703.
173. Miyazaki, T., Takaoka, A., Nogueira, L., Dikic, I., Fujii, H., Tsujino, S., Mitani, Y., Maeda, M., Schlessinger, J. and Taniguchi, T.; Pyk2 is a downstream mediator of the IL-2 receptor-coupled Jak-signaling pathway. (1998). *Genes. Dev.* 12, 770-775.
174. Sato, M., Tanaka, N., Hata, N., Oda, E. and Taniguchi, T.; Involvement of the IRF family transcription factor IRF-3 in virus-induced activation of the IFN- β gene. (1998). *FEBS Letters*, 425, 112-116.
175. Furui, J., Uegaki, K., Yamazaki, T., Shirakawa, M., Swindells, M. S., Harada, H., Taniguchi, T. and Kyogoku, Y.; Solution structure of the IRF-2 DNA-binding domain: a novel subgroup of the

- winged helix-turn-helix family. (1998). *Structure*, 6, 491-500.
176. Nozawa, H., Oda, E., Ueda, S., Tamura, G., Maesawa, C., Muto, T., Taniguchi, T. and Tanaka, N.; Functionally inactivating point mutation in the tumor-suppressor IRF-1 gene identified in human gastric cancer. (1998). *Int. J. Cancer*, 77, 522-527.
177. Fujii, H., Ogasawara, K., Otsuka, H., Suzuki, M., Yamamura, K., Yokochi, T., Miyazaki, T., Suzuki, H., Mak, T. W., Taki, S. and Taniguchi, T.; Functional dissection of the cytoplasmic subregions of the IL-2 receptor β c chain in primary lymphocyte populations. (1998). *EMBO J.*, 17, 6551-6557.
178. Sato, M., Hata, N., Asagiri, M., Nakaya, T., Taniguchi, T. and Tanaka, N.; Positive feedback regulation of type I IFN genes by the IFN-inducible transcription factor IRF-7. (1998). *FEBS Letters*, 441, 106-110.
179. Takaoka, A., Tanaka, N., Mitani, Y., Miyazaki, T., Fujii, H., Sato, M., Kovarik, P., Decker, T., Schlessinger, J. and Taniguchi, T.; Protein tyrosine kinase Pyk2 mediates the Jak-dependent activation of MAPK and Stat1 in the IFN- γ , but not IFN- α , signaling. (1999). *EMBO J.*, 18, 2480-2488.
180. Nozawa, H., Oda, E., Nakao, K., Ishihara, M., Ueda, S., Yokochi, T., Ogasawara, K., Nakatsuru, Y., Shimizu, S., Ohira, Y., Hioki, K., Aizawa, S., Ishikawa, T., Katsuki, M., Muto, T., Taniguchi, T., and Tanaka, N.; Loss of transcription factor IRF-1 affects tumor susceptibility in mice carrying the Ha-ras transgene or nullizygosity for p53. (1999). *Genes. Dev.* 12, 1240-1245.
181. Matsumoto, M., Tanaka, N., Harada, H., Kimura, T., Yokochi, T., Kitagawa, M., Schindler, C. and Taniguchi, T.; Activation of the transcription factor ISGF3 by interferon. (1999). *Biol. Chem.*, 380, 699-703.
182. Fujii, Y., Shimizu, T., Kusumoto, M., Kyogoku, Y., Taniguchi, T. and Hakoshima, T.; Crystal structure of an IRF-DNA complex reveals novel DNA recognition and cooperative binding to a tandem repeat of core sequences. (1999). *EMBO J.*, 18, 5028-5041.
183. Taniguchi, T., Tanaka, N., Ogasawara, K., Hida, S., Sato, M. and Takaoka, A.; Regulation of interferon and immune systems by the IRF family of transcription factors. (1999). *J. Interferon and Cytokine Res.*, 19(Sup. 1), S55.
184. Taniguchi, T., Tanaka, N., Ogasawara, K., Taki, S., Sato, M. and Takaoka, A.; The transcription factor IRF-1 and its family members in the regulation of host defense. (1999). *Cold Spring Harbor Symposia on Quantitative Biology*, Vol 64, 465-472.
185. Oda, E., Ohki, R., Murasawa, H., Nemoto, J., Shibue, T., Yamashita, T., Tokino, T., Taniguchi, T. and Tanaka, N.; Noxa, a BH3-only member of the Bcl-2 family, and candidate mediator of p53-induced apoptosis. (2000). *Science*, 288, 1053-1058.

186. Takaoka, A., Mitani, Y., Suemori, H., Sato, S., Yokochi, T., Noguchi, S., Tanaka, N., and Taniguchi, T.; Crosstalk between interferon- γ and α/β signaling components at caveolar membrane domain. (2000). *Science*, 288, 2357-2360.
187. Ohki, R., Nemoto, J., Murasawa, H., Oda, E., Inazawa, J., Tanaka, N., and Taniguchi, T.; Reprimo: A new candidate mediator of the p53-mediated cell cycle arrest at the G2 phase. (2000). *J. Biol. Chem.*, 275, 22627-22630.
188. Tanaka, N. and Taniguchi, T.; The interferon regulatory factors and oncogenesis. (2000). *Sem. Cancer Biol.*, 10, 73-81.
189. Tsujino, S., Di Santo, J. P., Takaoka, A., Mckernan, T. L., Noguchi, S., Taya, C., Yonekawa, H., Saito, T., Taniguchi, T., and Fujii, H.; Differential requirement of the cytoplasmic subregions of γ chain in T cell development and function. (2000). *Proc. Natl. Acad. Sci. USA*, 97, 10514-10519.
190. Sato, M., Suemori, H., Hata, N., Asagiri, M., Ogasawara, K., Nakao, K., Nakaya, T., Katsuki, M., Noguchi, S., Tanaka, N., and Taniguchi, T.; Distinct and essential roles of transcription factors IRF-3 and IRF-7 in response to viruses for IFN- α/β gene induction. (2000). *Immunity*, 13, 539-548.
191. Hida, S., Ogasawara, K., Sato, K., Abe, M., Takayanagi, H., Yokochi, T., Sato, T., Hirose, S., Shirai, T., Taki, S. and Taniguchi, T.; CD8⁺ T cell-mediated skin disease in mice lacking IRF-2, the transcriptional attenuator of interferon- α/β signaling. (2000). *Immunity*, 13, 643-655.
192. Takayanagi, H., Ogasawara, K., Hida, S., Chiba, T., Murata, S., Sato, K., Takaoka, A., Yokochi, T., Oda, H., Tanaka, K., Nakamura, k. and Taniguchi, T.; T-cell-mediated regulation of osteoclastogenesis by signalling cross-talk between RANKL and IFN- γ . (2000). *Nature*, 408, 600-605.
193. Taniguchi, T., Ogasawara, K., Takaoka, A, and Tanaka, N.; IRF family of transcription factors as regulators of host defense. (2001). *Ann. Rev. Immunol.* 19, 623-655.
194. Taniguchi, T. and Takaoka, A.; A weak signal for strong responses: Interferon α/β Revisited. (2001). *Nature Rev. Mol. Cell Biology*, 2, 378-386.
195. Nakaya, T., Sato, M., Hata, N., Asagiri, M., Suemori, H., Noguchi, S., Tanaka, N., Taniguchi, T.; Gene induction pathways mediated by distinct IRFs during viral infection. (2001). *Biochem. Biophys. Res. Commun.*, 283:1150-1156.
196. Hata, N. Sato, M. Takaoka, A. Asagiri, M. Tanaka, N. Taniguchi, T.; Constitutive IFN- α/β signal for efficient IFN- α/β gene induction by virus. (2001). *Biochem Biophys Res Commun* 285, 518-525.
197. Mitani, Y., Takaoka, A., Kim, S. H., Kato, Y., Yokochi, T., Tanaka, N., and Taniguchi, T.; Cross talk of the interferon- α/β signaling complex with gp130 for effective interleukin-6 signaling. (2001).

Genes to Cells, 6, 631-640.

198. Sato, K., Hida, S., Takayanagi, H., Yokochi, T., Kayagaki, N., Takeda, K., Yagita, H., Okumura, K., Tanaka, N., Taniguchi, T., and Ogasawara, K.; Antiviral response by natural killer cells through TRAIL gene induction by IFN- α/β . (2001). *Eur J Immunol* 31, 3138-3146.
199. Nakazawa, T., Satoh, J., Takahashi, K., Sakata, Y., Ikehata, F., Takizawa, Y., Bando, S., Housai, T., Li, Y., Chen, C., Masuda, T., Kure, S., Kato, I., Takasawa, S., Taniguchi, T., Okamoto, H., and Toyota, T.; Complete suppression of insulinitis and diabetes in NOD mice lacking interferon regulatory factor-1. (2001). *J Autoimmun. Sep*;17(2):119-25.
200. Taniguchi, T., Takaoka, A.; Interferon- α/β system in antiviral response: Multimodal machinery of gene regulation by the IRF family of transcription factors. (2002). *Curr. Opin. Immunol.*, 14, 111-116.
201. Ogasawara, K., Hida, S., Weng, Y., Saiura, A., Sato, K., Takayanagi, H., Sakaguchi, S., Yokochi, T., Kodama, T., Naitoh, M., De Martino, J., and Taniguchi, T.; Requirement of the IFN- α/β -induced CXCR3 chemokine signaling for CD8⁺ T cell activation. (2002). *Genes to Cells*, 7, 309-320.
202. Takayanagi, H., Kim, S., Matsuo, K., Suzuki, H., Suzuki, T., Sato, K., Yokochi, T., Oda, H., Nakamura, K., Ida, N., Wagner, E. F., and Taniguchi, T.; RANKL maintains bone homeostasis through c-Fos-dependent induction of interferon- β . (2002). *Nature*, 416, 744-749.
203. Takayanagi, H., Kim, S., and Taniguchi, T.; Signaling crosstalk between RANKL and interferons in osteoclast differentiation. (2002). *Arthritis Res*, 4(suppl 3):S227-S232.
204. Takayanagi, H., Kim, S., Koga, T., and Taniguchi, T.; Induction and activation of the transcription factor NFATc1(NFAT2) integrate RANKL signaling in terminal differentiation of osteoclasts. (2002). *Developmental Cell*, 3, 889-901.
205. Takaoka, A., and Taniguchi, T.; New aspects of IFN- α/β signaling in immunity, oncogenesis and bone metabolism. (2003). *Cancer Science*, 94, 405-411.
206. Sakaguchi, S., Negishi, H., Asagiri, M., Nakajima, C., Mizutani, T., Takaoka, A., Honda, K., and Taniguchi, T.; Essential role of IRF-3 in lipopolysaccharide-induced interferon- β gene expression and endotoxin shock. (2003). *Biochem Biophys Res Commun* 306, 806-866.
207. Takaoka, A., Hayakawa, K., Yanai, H., Stoiber, D., Negishi, H., Kikuchi, H., Shibue, T., Honda, K., and Taniguchi, T.; Integration of IFN- α/β signalling to p53 responses in tumor suppression and antiviral defense. (2003). *Nature*, 424, 516-523.
208. Kim, S., Koga, T., Isobe, M., Kern, B. E., Yokochi, T., Karsenty, G., Taniguchi, T., and Takayanagi, H.; Stat1 functions as a cytoplasmic attenuator of Runx2 in the transcriptional program of osteoblast differentiation. (2003). *Genes. Dev.*, 17, 1979-1991.

209. Shibue, T., Takeda, K., Oda, E., Tanaka, H., Murasawa, H., Takaoka, A., Morishita, Y., Akira, S., Taniguchi, T., and Nobuyuki Tanaka, N.; Integral role of Noxa in p53-mediated apoptotic response. (2003). *Genes. Dev.* , 17, 2233-2238.
210. Honda, K., Sakaguchi, S., Nakajima, C., Watanabe, A., Yanai, H., Matsumoto, M., Ohteki, T., Kaisho, T., Takaoka, A., Akira, S., Seya, T., and Taniguchi, T.; Selective contribution of IFN- α / β signaling to the maturation of dendritic cells induced by double-stranded RNA or viral infection. (2003). *Proc. Natl. Acad. Sci. USA* , 100, 10872-10877.
211. Urushibara, M., Takayanagi, H., Koga, T., Kim, S., Isobe, MM., Morishita, Y., Nakagawa, T., Loeffler, M., Kodama, T., Kurosawa, H., and Taniguchi, T.; The antirheumatic drug leflunomide inhibits osteoclastogenesis by interfering with receptor activator of NF- κ B ligand-stimulated induction of nuclear factor of activated T cells c1. (2003). *Arthritis & Rheumatism*, 50, 794-804.
212. Honda, K., Mizutani, T. and Taniguchi, T.; Negative regulation of IFN- α / β signaling by IFN regulatory factor 2 for homeostatic development of dendritic cells. (2004). *Proc. Natl. Acad. Sci. USA*, 101, 2416-2421.
213. Koga, T., Inui, M., Inoue, K., Kim, S., Suematsu, A., Kobayashi, E., Iwata, T., Ohnishi, H., Matozaki, T., Kodama, T., Taniguchi, T., Takayanagi, H. and Takai, T.; Costimulatory signals mediated by the ITAM motif cooperate with RANKL for bone homeostasis. (2004). *Nature*, 428, 758-763.
214. Takaoka, A. and Taniguchi, T.; New aspects of IFN- α / β signalling in immunity, oncogenesis and bone metabolism. (2004). *Gann Monograph on Cancer Research*, 52, 141-156.
215. Honda, K., Yanai, H., Mizutani, T., Negishi, H., Shimada, N., Suzuki, N., Ohba, Y., Takaoka, A., Wen-Chen Yeh, and Taniguchi, T.; Role of a transductional-transcriptional processor complex involving MyD88 and IRF-7 in Toll-like receptor signaling. (2004). *Proc. Natl. Acad. Sci. USA*, 101, 15416-15421.
216. Stockinger, S., Reutterer, B., Schaljo, B., Schellack, C., Brunner, S., Materna, T., Yamamoto, M., Akira, S., Taniguchi, T., Murray, PJ., Muller, M., and Decker, T.; IFN regulatory factor 3-dependent induction of type I IFNs by intracellular bacteria is mediated by a TLR- and Nod2-independent mechanism. (2004). *J. Immunol*, 173, 7416-7425.
217. O'Connel, R. M., Saha, S. K., Vaidya S. A., Bruhn, K. W., Mirandam G. A., Zarnegar, B., Perry, A. K., Nguyen, B., Lane, T. F., Taniguchi, T., Miller, J. F. and Cheng, G.; Type I interferon production enhances susceptibility to *Listeria monocytogenes* infection. (2004). *J. Exp. Med.* 200, 437-445.
218. Takayanagi, H., Kim, S., Koga, T., and Taniguchi, T.; Stat1-Mediated Cytoplasmic Attenuation in Osteoimmunology. (2005). *J. Cell Biochem.*, 94, 232-240.

219. Taniguchi, T., and Takaoka, A.; Type I interferon system and IRF family of transcription factors in host defense regulation. (2005). *Proc. Jpn. Acad.* 81, 1-13.
220. Takaoka, A., Yanai, H., Kondo, S., Duncan, G., Negishi, H., Mizutani, T., Kano, S., Honda, K., Ohba, Y., Mak, T.M., and Taniguchi, T.; Integral role of IRF-5 in the gene induction programme activated by Toll-like receptors. (2005). *Nature*, 434, 243-249.
221. Honda, K., Yanai, H., Negishi, H., Asagiri, M., Sato, M., Mizutani, T., Shimada, N., Ohba, Y., Takaoka, A., Yoshida, N., and Taniguchi, T.; IRF-7 is the master regulator of type-I interferon-dependent immune responses. (2005). *Nature* 434, 772-777.
222. Honda, K., Ohba, Y., Yanai, H., Negishi, H., Mizutani, T., Takaoka, A., Taya, C., and Taniguchi, T.; Spatiotemporal regulation of MyD88-IRF-7 signalling for robust type I interferon induction. (2005). *Nature*, 434, 1035-1040.
223. Takayanagi, H., Sato, K., Takaoka, A., and Taniguchi, T.; Interplay between interferon and other cytokine systems in bone metabolism. (2005). *Immunol Rev*, 208, 181-193.
224. Okabe, Y., Kawane, K., Akira, S., Taniguchi, T., and Nagata, S.; Toll-like receptor-independent gene induction program activated by mammalian DNA escaped from apoptotic DNA degradation. (2005). *J. Exp. Med*, 202, 1333-1339.
225. Negishi, H., Ohba, Y., Yanai, H., Takaoka, A., Honma, K., Yui, K., Matsuyama, T., Taniguchi, T., and Honda, K.; Negative regulation of Toll-like-receptor signaling by IRF-4. (2005). *Proc. Natl. Acad. Sci. U S A.*, 102, 15989-15994.
226. Honda, K., Yanai, H., Takaoka, A., and Taniguchi, T.; Regulation of the type I IFN induction: a current view. (2005). *Int. Immunol.*, 17, 1367-1378.
227. Shingai, M., Inoue, N., Okuno, T., Okabe, M., Akazawa, T., Miyamoto, Y., Ayata, M., Honda, K., Kurita-Taniguchi, M., Matsumoto, M., Ogura, H., Taniguchi, T., and Seya T.; Wild-Type Measles Virus Infection in Human CD46/CD150-Transgenic Mice: CD11c-Positive Dendritic Cells Establish Systemic Viral Infection. (2005). *J. Immunol.*, 175, 3252-3261.
228. Yanai, H., Mizutani, T., Inuzuka, T., Honda, K., Takaoka, A. and Taniguchi, T.; IRF family transcription factors in type I interferon induction. (2005). *Int. Congress Series*, 1285, 104-113.
229. Honda, K. and Taniguchi, T.; Toll-like Receptor Signaling and IRF Transcription Factors. (2006). *IUBMB Life*, 58, 290-295.
230. Honda, K. and Taniguchi, T.; IRFs: master regulators of signalling by Toll-like receptors and cytosolic pattern-recognition receptors. (2006). *Nature Rev. Immunol.*, 6, 644-659.

231. Honda, K., Takaoka, A., and Taniguchi, T.; Type I interferon gene induction by the interferon regulatory factor family of transcription factors. (2006). *Immunity*, 25(3):349-60.
232. Negishi, H., Fujita, Y., Yanai, H., Sakaguchi, S., Ouyang, X., Shinohara, M., Takayanagi, H., Ohba, Y., Taniguchi, T., and Honda, K.; Evidence for licensing of IFN- γ -induced IFN regulatory factor 1 transcription factor by MyD88 in Toll-like receptor-dependent gene induction program. (2006). *Proc. Natl. Acad. Sci. U S A.*, 103, 15136-15141.
233. Shibue, T. and Taniguchi T.; BH3-only proteins: Integrated control point of apoptosis. (2006). *Int. J. Cancer*, 119, 2036-2043.
234. Shibue, T., Suzuki, S., Okamoto, H., Yoshida, H., Ohba, Y., Takaoka, A., and Taniguchi, T.; Differential contribution of Puma and Noxa in dual regulation of p53-dependent apoptotic pathways. (2006). *EMBO J*, 25, 4952-4962.
235. Ouyang, X., Negishi, H., Takeda, R., Fujita, Y., Taniguchi, T. and Honda, K.; Cooperation between MyD88 and TRIF pathways in TLR synergy via IRF5 activation. (2007). *Bioch. Biophys. Res. Comm.*, 354, 1045-1051.
236. Yanai, H., Chen, H., Inuzuka, T., Kondo, S., Mak, W. T., Takaoka, A., Honda, K. and Taniguchi, T.; Role of IFN regulatory factor 5 transcription factor in antiviral immunity and tumor suppression. (2007). *Proc. Natl. Acad. Sci. USA.*, 104, 3402-3407.
237. Onoguchi, K., Yoneyama, M., Takemura, A., Akira, S., Taniguchi, T., Namiki, H., and Fujita T.; Viral Infections Activate Types I and III Interferon Genes through a Common Mechanism. (2007). *J. Biological Chemistry*. 282(10), 7576-7581.
238. Takaoka, A., Wang, Z., Choi, MK., Yanai, H., Negishi, H., Ban, T., Yan, L., Miyagishi, M., Kodama, T., Honda, K., Ohba, Y. and Taniguchi, T.; DAI (DLM-1/ZBP1) is a cytosolic DNA sensor and an activator of innate immune response. (2007). *Nature*. 448(26), 501-506.
239. Kano, S., Sato, K., Morishita, Y., Vollstedt, S., Kim, S., Bishop, K., Honda, K., Kubo, M., and Taniguchi, T.; The contribution of transcription factor IRF1 to the interferon- γ -interleukin 12 signaling axis and TH-17 differentiation of CD4⁺ T cells. (2008). *Nat Immunol*, 9(1), 34-41.
240. Couzinet, A., Tamura, K., Chen, H., Nishimura, K., Wang, Z., Morishita, Y., Takeda, K., Yagita, H., Yanai, H., Taniguchi, T., and Tamura, T.; A cell type-specific requirement for IRF5 in Fas-induced apoptosis. (2008). *Proc. Natl. Acad. Sci. USA.*, 105, 2556-2561.
241. Takaoka, A., Tamura T, and Taniguchi T.; IRF family transcription factors and regulation of oncogenesis. (2008). *Cancer Sci.*, 99, 467-478..
242. Mizutani, T., Tsuji, K., Ebihara, Y., Taki, S., Ohba, Y., Taniguchi, T., and Honda, K.; Homeostatic erythropoiesis by the transcription factor IRF2 through attenuation of type I interferon

- signaling. (2008). *Exp Hematol.*, 36, 255-264..
243. Tamura. T., Yanai. H., Savitsky. D., and Taniguchi. T.; The IRF Family Transcription Factors in Immunity and Oncogenesis. (2008) *Annu. Rev. Immunol.*, 26, 535-584.
244. Takaoka, A., and Taniguchi, T.; Cytosolic DNA recognition for triggering innate immune responses. (2008). *Adv Drug Deliv Rev.*, 60, 847-57.
245. Wang, Z., Choi, MK., Ban, T., Yanai, H., Negishi, H., Lu, Y., Tamura, T., Takaoka, A., Nishikura, K., and Taniguchi, T.; Regulation of innate immune responses by DAI (DLM-1/ZBP1) and other DNA-sensing molecules. (2008). *Proc. Natl. Acad. Sci. USA.* 105 (14), 5477-5482.
246. Negishi, H., Osawa, T., Ogami, K., Ouyang, X., Sakaguchi, S., Koshiba, R., Yanai, H., Seiko, Y., Shitara, H., Bishop, K., Yonekawa, H., Tamura, T., Kaisho, T., Taya, C., Taniguchi, T., and Honda, K.; A critical link between Toll-like receptor 3 and type II interferon signaling pathways in antiviral innate immunity. (2008). *Proc. Natl. Acad. Sci. USA.* 105(51), 20446-20451.
247. Chen, HM., Tanaka, N., Mitani, Y., Oda, E., Nozawa, H., Chen, JZ., Yanai, H., Negishi, H., Choi, MK., Iwasaki, T., Yamamoto, H., Taniguchi, T., and Takaoka, A.; Critical role for constitutive type I Interferon signaling in the prevention of cellular transformation. (2008). *Cancer Sci.* 100(3), 449-456.
248. Stockinger, S., Kastner, R., Kernbauer, E., Pilz, A., Westermayer, S., Reutterer, B., Soulat, D., Stengl, G., Vogl, C., Frenz, T., Waibler, Z., Taniguchi, T., Rülcke, T., Kalinke, U., Müller, M., and Decker, T.; Characterization of the interferon-producing cell in mice infected with *Listeria monocytogenes*. *PLoS Pathog.* 2009 Mar;5(3):e1000355. Epub (2009)
249. Yanai, H., Savitsky, D., Tamura, T., and Taniguchi, T.; Regulation of the cytosolic DNA-sensing system in innate immunity: a current view. (2009) *Curr Opin Immunol.* 21(1), 17-22.
250. Suzuki, S., Nakasato, M., Shibue, T., Koshima, I., and Taniguchi, T.; Therapeutic potential of proapoptotic molecule Noxa in the selective elimination of tumor cells. (2009) *Cancer Sci.* 100(4), 759-769.
251. Taniguchi, T.; Aimez-vous Brahms? A story capriccioso from the discovery of a cytokine family and its regulators. (2009) *Nat Immunol.* 10(5), 447-449.
252. Nakajima, A., Nishimura, K., Nakaima, Y., Oh, T., Noguchi, S., Taniguchi, T., and Tamura, T.; Cell type-dependent proapoptotic role of Bcl2L12 revealed by a mutation concomitant with the disruption of the juxtaposed Irf3 gene. (2009) *Proc. Natl. Acad. Sci. U S A.* 106,: 2448-12452.
253. Choi, MK., Wang, Z., Ban, T., Yanai, H., Lu, Y., Koshiba, R., Nakaima, Y., Hangai, S., Savitsky, D., Nakasato, M., Negishi, H., Takeuchi, O., Honda, K., Akira, S., Tamura, T., and Taniguchi, T.; A

- selective contribution of the RIG-I-like receptor pathway to type I interferon responses activated by cytosolic DNA. (2009) *Proc. Natl. Acad. Sci. U S A.* 106, 19870-17875.
254. Yanai, H., Ban, T., Wang, Z., Choi, MK, Kawamura, T., Negishi, H., Nakasato, M., Lu, Y., Hangai, S., Koshiba, R., Savitsky, D., Ronfani, R., Akira, S., Marco E. Bianchi, ME, Honda, K., Tamura, T., Kodama, T., and Taniguchi, T.; HMGB proteins function as universal sentinels for nucleic acid-mediated innate immune responses. (2009) *Nature* 462, 99-103.
255. Lace, MJ., Anson, JR., Klingelutz, AJ., Harada, H., Taniguchi, T., Bossler, AD., Haugen, TH., Turek, LP.; Interferon-beta treatment increases human papillomavirus early gene transcription and viral plasmid genome replication by activating interferon regulatory factor (IRF)-1. (2009) *Carcinogenesis* 30:1336-44.
256. Sakai, S., Takaishi, H., Matsuzaki, K., Kaneko, H., Furukawa, M., Miyauchi, Y., Shiraishi, A., Saito, K., Tanaka, A., Taniguchi, T., Suda, T., Miyamoto, T., Toyama, Y.; 1-Alpha, 25-dihydroxy vitamin D3 inhibits osteoclastogenesis through IFN-beta-dependent NFATc1 suppression. (2009) *J Bone Miner Metab.* 27 643-52.
257. Savitsky, D., Tamura, T., Yanai, H. and Taniguchi, T; Regulation of immunity and oncogenesis by the IRF transcription factor family (2010). *Cancer Immunology Immunotherapy* 59, 489-510.
258. Savitsky, D., Yanai, H., Tamura, T., Taniguchi, T. and Honda, K.; Contribution of IRF5 in B cells to the development of murine SLE-like disease through its transcriptional control of the IgG2a locus. (2010) *Proc. Natl. Acad. Sci. USA* 107, 10154-10159.
259. Ebihara, T., Azuma, M., Oshiumi, H., Kasamatsu, J., Iwabuchi, K., Matsumoto, K., Saito, H., Taniguchi, T., Matsumoto, M., and Seya, T.; Identification of a polyI:C-inducible membrane protein, that participates in dendritic cell-mediated natural killer cell activation (2010) *J. Exp. Med.* 207, 2675-2687.
260. Atarashi, K., Tanoue, T., Shima, T., Imaoka, A., Kuwahara, T., Momose, Y., Cheng, G., Yamasaki, S., Saito, T., Ohba, Y., Taniguchi, T., Takeda, K., Hori, S., Ivanov, I., Umesaki, Y., Itoh, K. and Honda, K.; Induction of colonic regulatory T cells by indigenous *Clostridium* species. (2011) *Science* 331, 337-341
261. Tsushima, K., Osawa, T., Yanai, H., Nakajima, A., Takaoka, A., Manabe, I., Ohba, Y., Imai, Y., Taniguchi, T., and Nagai, R.; IRF3 regulates cardiac fibrosis but not hypertrophy in mice during angiotensin II -induced hypertension (2011) *The FASEB Journal* 25, 1531-1543.
262. Matsuda, A., Ogawa, M., Yanai, H., Naka, D., Goto, A., Ao, T., Tanno, Y., Takeda, K., Watanabe, Y., Honda, K., and Taniguchi, T. ; Generation of mice deficient in RNA-binding motif protein 3 (RBM3) and characterization of its role in innate immune responses and cell growth. (2011) *Biochem. Biophys. Res. Commun.*, 411, 7-13.

263. Yanai, H., Ban, T. and Taniguchi, T.; Essential role of high-mobility group proteins in nucleic acid-mediated innate immune responses. (2011) *J. Intern. Med.* 270, 301-308.
264. Yanai, H., Chiba, S., Ban, T., Nakaima, Y., Onoe, T., Honda, K., Ohdan, H. and Taniguchi, T.; Suppression of immune responses by nonimmunogenic oligodeoxynucleotides with high affinity for high-mobility group box proteins (HMGBs). (2011) *Proc. Natl. Acad. Sci. USA* 108, 11542-11547.
265. Idrus, E., Nakashima, T., Wang, L., Hayashi, M., Okamoto, K., Kodama, T., Tanaka, N., Taniguchi, T., and Takayanagi, H.; The role of the BH3-only protein Noxa in bone homeostasis. (2011). *Biochem Biophys Res Commun.* 410, 620-625.
266. Negishi, H., Yanai, H., Nakajima, A., Koshiba, R., Atarashi, K., Matsuda, A., Matsuki, K., Miki, S., Doi, T., Aderem, A., Nishio, J., Smale, ST., Honda, K., and Taniguchi, T. ; Cross-interference of RLR and TLR signaling pathways modulates antibacterial T cell responses. (2012) *Nature Immunol.* 13, 659-666.
267. Yanai, H., Ban, T., and Taniguchi, T.; High-mobility group box family of proteins: ligand and sensor for innate immunity. (2012) *Trends. Immunol.* 33, 633-640.
268. Yanai, H., Negishi, H., and Taniguchi, T.; The IRF family of transcription factors: Inception, impact and implications in oncogenesis. (2012) *Oncoimmunol.* 1, 1376-1386.
269. Negishi, H., Miki, S., Sarashina, H., Taguchi-Atarashi, N., Nakajima, A., Matsuki, K., Endo, N., Yanai, H., Nishio, J., Honda, K., and Taniguchi, T.; Essential contribution of IRF3 to intestinal homeostasis and microbiota-mediated Tslp gene induction. (2012) *Proc. Natl. Acad. Sci. USA.* 109, 21016-21.
270. Koshiba, R., Yanai, H., Matsuda, A., Goto, A., Nakajima, A., Negishi, H., Nishio, J., Smale, ST., and Taniguchi, T.; Regulation of cooperative function of the Il12b enhancer and promoter by the interferon regulatory factors 3 and 5. (2013) *Biochem. Biophys. Res. Commun.* 430, 95-100.
271. Atarashi, K., Tanoue, T., Oshima, K., Suda, W., Nagano, Y., Nishikawa, H., Fukuda, S., Saito, T., Narushima, S., Hase, K., Kim, S., Fritz, J. V., Wilmes, P., Ueha, S., Matsushima, K., Ohno, H., Olle, B., Sakaguchi, S., Taniguchi, T., Morita, H., Hattori, M., and Honda, K.; Treg induction by a rationally selected mixture of Clostridia strains from the human microbiota. (2013) *Nature* 500, 232-236.
272. Ikushima, H., Negishi, H., and Taniguchi, T.; The IRF family transcription factors at the interface of innate and adaptive immune responses. (2013) *Cold Spring Harbor Symposia on Quantitative Biology.* 78, 105-116.
273. Negishi H, Matsuki K, Endo N, Sarashina H, Miki S, Matsuda A, Fukazawa K , Taguchi-Atarashi N, Ikushima H, Yanai H, Nishio J, Honda K, Fujioka Y, Ohba Y, Noda T, Taniguchi S,

- Nishida E, Zhang Y, Chi H, Flavell RA, Taniguchi T.: Beneficial innate signaling interference for anti-bacterial responses by a TLR-mediated enhancement of the MKP-IRF3 axis. (2013) Proc. Natl. Acad. Sci. USA. 49, 19884-19889.
274. Yanai, H., Matsuda, A., An, J., Koshiba, R., Nishio, J., Negishi, H., Ikushima, H., Onoe, T., Ohdan, H., Yoshida, N., and Taniguchi, T.; Conditional ablation of HMGB1 in mice reveals its protective function against endotoxemia and bacterial infection. (2013) Proc. Natl. Acad. Sci. USA. 110, 20699-704.
275. Yanai H, Taniguchi T.; Nucleic acid sensing and beyond: virtues and vices of HMGB1. (2014) J. Intern. Med. 276, 444-453.
276. Chiba S, Ikushima H, Ueki H, Yanai H, Kimura Y, Hangai S, Nishio J, Negishi H, Tamura T, Saijo S, Iwakura Y, Taniguchi T.; Recognition of tumor cells by Dectin-1 orchestrates innate immune cells for anti-tumor responses. (2014) eLife, Aug 22:e04177.
277. Rongvaux A., Jackson R., Harman C.C., Li T., West A.P, de Zoete M.R., Wu Y., Yordy B., Lakhani S.A., Kuan C., Taniguchi T., Shadel G.S., Chen Z.J., Iwasaki A., Flavell R.A.; Apoptotic Caspases Prevent the Induction of Type I Interferons by Mitochondrial DNA. (2014) Cell, 159, 1563-1577.