

LIST OF PUBLICATIONS (1976 — 1978)

Department of Molecular Biology

Satoh, N. & Nomura, T.

Culture of a single embryoid body from the testicular teratoma of a strain 129 mouse in a diffusion chamber. Proceedings of the 35th General Meeting of the Japanese Cancer Association, Oct., 1976, 86p.

Iida, Y.

Postnatal developmental changes in microtubule protein of rat brain. *Seikagaku*, 49, 848, 1977.

Satoh, N., Nomura, T. & Kameyama, T.

Culture of a single cell from embryoid body of testicular teratocarcinoma of strain 129 mouse in a diffusion chamber. Proceedings of the 36th General Meeting of the Japanese Cancer Association, Oct., 1977, 111p.

Satoh, N., Nomura, T. & Kameyama, T.

Diffusion chamber culture of a single embryoid body from the testicular teratoma of strain 129 mouse. *Development Growth and Differentiation*, 19, 249–255, 1977.

Kontani, T.

Studies on the circular dichroism of polypeptide and protein. *Juzen Igk. Z.*, 87, 524–538, 1978 (in Japanese).

Matsuda, M. & Kameyama, T.

RNA synthesis and regulation during germination of *Bacillus subtilis* spore. *Seikagaku*, 50, 852, 1978 (in Japanese).

Matsuda, M. & Kameyama, T.

Studies on RNA synthesis in the step of germination of *Bacillus subtilis* spore. Proceedings of the 1st Annual Meeting of the Molecular Biology Society of Japan, Dec., 1978, 37p. (in Japanese).

Satoh, N., Nomura, T. & Kameyama, T.

Some properties of cells, derived from a single embryoid body of 129 mouse teratoma, growing in a diffusion chamber. Proceedings of the 11th Annual Meeting of the Japanese Society of Developmental Biologists, May, 1978, 52p. (in Japanese).

Satoh, N., Nomura, T. & Kameyama, T.

On the diffusion chamber cultured cells started from a single cell of the 129 mouse teratoma embryoid body. Proceedings of the 11th Annual Meeting of the Japanese Society of Developmental Biologists, May, 1978, 53p. (in Japanese).

Satoh, N., Nomura, T. & Kameyama, T.

Delayed expression of H-2 antigens of teratocarcinoma cells by the diffusion chamber culture. Proceedings of the 37th General Meeting of the Japanese Cancer Association, Aug., 1978, 102p.

Department of Virology

Iida, H., Matsui, K., Kawasaki, M., Kobayashi, K. & Matsuda, S.

Unique epidemics of influenza out of season at Katsuyama City in Fukui Prefecture. *Nippon Koshueiseizashi*, 23, 339–342, 1976 (in Japanese).

Kaji, T., Onishi, H., Kimura, N. & Hatano, M.

Isolation of Myxo- and Paramyxoviruses from upper respiratory diseases in children using MDCK or VERO cells supplemented with dilute trypsin. Proceedings of the 24th Annual Meeting of the Society of Japanese Virologists, Oct., 1976 (Osaka), 1002 (in Japanese).

Ogura, H., Tanaka, J. & Hatano, M.

Analysis of cellular immune responses caused by xenogenized tumor cell membrane antigen after persistent infection with HVJ. Proceedings of the 24th Annual Meeting of the Society of Japanese Virologists, Oct., 1976 (Nagoya), 3051 (in Japanese).

Ogura, H., Tanaka, J. & Hatano, M.

Relationship between tumor formation and cellular immunity in hamsters transplanted with HVJ-carrying tumor cells cultured *in vitro*. Proceedings of the 35th Annual Meeting of the Japanese Cancer Association, Oct., 1976 (Tokyo), 54 (in Japanese).

Sato, M., Yamada, T., Yamamoto, K. & Yamamoto, N.

Evidence for hybrid formation between rubella virus and latent virus of BHK-21/WI-2 cells. *Virology*, 69, 691–699, 1976.

Tanaka, J.

Enhanced formation of cowpox virus-specific cell surface antigens in HVJ (Sendai virus) carrier cells: analysis of the enhancing mechanisms by infection with wild type and temperature sensitive mutants. *Juzen Igk. Z.*, 85, 115–128, 1976 (in Japanese).

Tanaka, J., Morita, O. & Hatano, M.

Factors involved in the expression of cowpox virus-specific antigens in Sendai virus carrier cells. *J. gen. Virol.*, 33, 87–97, 1976.

Iida, H., Wada, Y., Kawasaki, M., Kobayashi, K. & Matsuda, S.

Observation on epidemic viral gastroenteritis at Eiheijicho in Fukui Prefecture. *Nippon Koshueisei-joho*, 7, 30–33, 1977 (in Japanese).

Fukuda, S., Koshiura, R., Miyamoto, K. & Hatano, M.

Suggestive evidence for relationship between sensitivity and repair capability in rat AH hepatoma cells treated with the antitumor drug, 1-(*o*-chloropropyl)-2-chloromethyl piperidine hydrobromide. *GANN*, 68, 175–182, 1977.

Kaji, T., Onishi, H. & Kimura, N.

Isolation of influenza virus using cultured cells in comparison to that in developing chick embryos and its characteristics. *Kinsho to Vrius*, 5, 333-338, 1977 (in Japanese).

Kaji, T., Onishi, H., Kimura, N. & Hatano, M.

Unique antigenicity of newly isolated influenza virus (B/Ishikawa/1/76): antigenic conversion depending on the cells used for virus isolation and passages. Proceedings of the 25th Annual Meeting of the Society of Japanese Virologists, Oct., 1977 (Osaka), 365 (in Japanese).

Ogura, H., Tanaka, J. & Hatano, M.

Acceleration of poxvirus growth in persistently infected cells with HVJ. Proceedings of 25th Annual Meeting of the Society of Japanese Virologists, Oct., 1977 (Osaka), 342 (in Japanese).

Sugiura, K., Yabuki, Y., Kuwabara, S., Yamamoto, A. & Hatano, M.

Studies on occurrence of anomalies of fetus by rubella virus infection in relation to infection with rubella variant virus. Proceedings of the 25th Annual Meeting of the Society of Japanese Virologists, Oct., 1977 (Osaka), 106 (in Japanese).

Tanaka, J., Ogura, H. & Hatano, M.

Cellular proteases increased in paramyxovirus (Sendai virus) carrier cells possibly responsible for enhanced formation of cowpox virus-specific cell surface antigen. *Arch. of Virol.*, 53, 87-99, 1977.

Yabuki, Y., Sugiura, K., Kato, T., Kuwabara, S. & Kimura, N.

Epidemiologic and etiological studies on regional high incidence of anencephaly. *Acta Obst. Gynec. JPN*, 29, 913-921, 1977 (in Japanese).

Yamamoto, A., Ogura, H., Hatano, M. & Yamada, T.

Loss or lowering of transplantability in rubella virus carrier tumor cells established *in vitro* from hamster lung or kidney cells. Proceedings of the 36th Annual Meeting of the Japanese Cancer Association, Oct., 1977 (Tokyo), 98 (in Japanese).

Hatano, M.

Alteration of adenoid-tonsillar cells by virus infection. Proceedings of the 18th Annual Meeting of the Society of Tonsilla Researches, Oct., 1978 (Kanazawa), 25 (in Japanese).

Hatano, M., Ogura, H., Tanaka, J. & Sato, H.

Decreased transplantability of persistently infected tumor cells with HVJ or Rubella virus. Proceedings of the 26th Annual Meeting of the Society of Japanese Virologists, Oct., 1978 (Tokyo), 162 (in Japanese).

Hatano, M., Ogura, H., Sato, H. & Tanaka, J.

Decreased transplantability of cultured tumor cells

persistently infected with nononcogenic viruses. International Workshop on Immunological Xenogenization of Tumor cells, June, 1978 (Sapporo), 11. (GANN monograph No. 24, 1978 (in press)).

Ogasawara, K., Hatano, M. & Ata, S.

Medical Microbiology, Asakura Publ. Co., Tokyo, 1978 (in Japanese).

Ogura, H.

Antigenic conversion of cultured tumor cells by persistent infection with paramyxovirus: HVJ (Sendai virus), analysis by temperature-sensitive variant of HVJ. *Juzen Igk. Z.*, 87, 122-134, 1978 (in Japanese).

Shibata, T.

Studies of interferon effect on mouse tumor cells which show spontaneous production of endogenous C type RNA virus. *Juzen Igk. Z.*, (in press) 1978 (in Japanese).

Takimoto, T., Maesaka, A.

Furukawa, M., Kase, M. Kawanaka, T. & Morishita, K.

Studies on whole blood microculture for *in vitro* lymphoblastogenesis by mitogen: application to otorhinolaryngeal fields, Otorhinolaryngology, (in press), 1978 (in Japanese).

Takimoto, T.

Experimental studies on viral etiology of Epstein-Barr virus (EBV) in nasopharyngeal carcinoma (NPC): establishment of EBV infection on human epithelial cells from nasopharyngeal tissues. Otorhinolaryngology, (in press), 1978 (in Japanese).

Takimoto, T.

Diagnostic evaluation of anti-EBV (VCA and EA) antibody titration in patients with nasopharyngeal carcinoma. Otorhinolaryngology, (in press), 1978 (in Japanese).

Tanaka, J., Ogura, H., Fukuda, S. & Hatano, M.

Effect of double infection of cowpox virus-infected cells with paramyxovirus (Sendai virus) on formation of cowpox virus specific cell surface antigen. *Microbiol. & Immunol.*, 22, (in press) 1978.

Tanaka, K., Kato, Y. Hattori, N.

Ito, F. Sato, H. & Hatano, M.

A study of anti-viral substance in the serum of patients with malignancies. Proceedings of the 37th Annual Meeting of the Japanese Cancer Association, Aug., 1978 (Tokyo), 231 (in Japanese).

Tatsumura, T., Komori, Y., Segawa, Y.

Nakagawa, M., Sato, H., Mori, A.

Ainoda, Y., Hatano, M., Sugino, Y. & Tsuda, M.

Blastoidal response of lymphocytes in cancer patients to a new mitogen: RBA. Proceedings of the 37th Annual Meeting of the Japanese Cancer As-

sociation, Aug., 1978 (Tokyo), 94 (in Japanese).

Department of Molecular Immunology

**Kawachi-Takahashi, S., Tanaka, K.,
Takahashi, M., Kawashima, T. &
Shimada, K.**

Determination of serum C9 level by immunodiffusion. Elevation in patients with infections or allergic skin diseases. *Int. Archs. Allergy appl. Immunol.*, **48**, 161-170, 1975.

**Takahashi, M., Kawachi-Takahashi, S.
& Matsuura, M.**

Interaction of collagen with serum complement: Inhibition of complement-mediated hemolysis. *Int. Archs. Allergy appl. Immunol.*, **48**, 642-652, 1975.

**Yamamoto, K., Natsuume-Sakai, S. &
Takahashi, M.**

Lymphocyte membrane receptors in cultures treated with mitogen: Enhancement of rosette forming activity. *Jap. J. Exper. Med.*, **45**, 49-51, 1975.

Yamamoto, K. & Takahashi, M.

Inhibition of the terminal stage of complement-mediated lysis (reactive lysis) by zinc and copper ions. *Int. Arch. Allergy appl. Immunol.*, **48**, 653-663, 1975.

Migita, S. (ed.)

"Methods in Immunological Experiment" V; pp. 1243-1566, Japanese Society for Immunology, 1976 (in Japanese).

Migita, S.

Theoretical basis of single radial immunodiffusion and its practice. *Rinsho Kensa*, **20**, 259-271, 1976 (in Japanese).

Migita, S.

Antigen antibody reaction. *Kobunshi*, **25**, 587-593, 1976 (in Japanese).

Migita, S. & Matsushita, H.

Agar electrophoresis for fractioning large amount of sample. "Methods in Immunological Experiment" V; 1401-1410, 1976 (in Japanese).

**Migita, S., Konda, S., Kawamura, A. &
Matsuhashi, C.**

Evaluation of commercially available antisera (2) Anti mouse immunoglobulin and anti mouse complement. "Methods in Immunological Experiment" V; 1383-1390, 1976 (in Japanese).

**Notake, K., Kobayashi, S., Kaneko, Y.,
Natsuume-Sakai, S., Migita, S.,
Kawanishi, M. & Ito, Y.**

Immunological and virological studies on the mouse myeloma cells in vitro. I. Establishment of two myeloma cultured lines and their growth characteristics. *J. Aichi Med. Univ. Ass.*, **4**, 253-265, 1976 (in Japanese).

**Natsuume-Sakai, S., Daimaru, O.,
Tsukuda, K. & Migita, S.**

Preparation of antisera against mouse immunoglobulin subclass, complements and α_2 macroglobulin. "Methods in Immunological Experiment" V; 1375-1382, 1976 (in Japanese).

**Natsuume-Sakai, S., Ryoyama, K.,
Koshimura, S. & Migita, S.**

Studies on the properties of a streptococcal preparation OK-432 (NSC-B116209) as an immunopotentiator. I. Activation of serum complement components and peritoneal exudate cells by group A streptococcus. *Jap. J. Exp. Med.*, **46**, 123-133, 1976.

Migita, S.

Structure and function of immunoglobulin D. *Saishin-Igaku* **32**, 447-456, 1977 (in Japanese).

Migita, S. & Natsuume-Sakai, S.

Immunoglobulin V-gene and its expression. *Nihon Rinsho*, **35**, 1611-1620, 1977 (in Japanese).

Migita, S.

Quantitative immunoelectrophoresis for analysis of serum protein of patients. *Rinsho Byori*, **30**, 200-211, 1977 (in Japanese).

**Ishida, S., Migita, S., Lint, T. F.,
Yamamoto, K. & Gewurz, H.**

Total complement activity and activity of complement on alternate pathway by single radial hemolysis methods. "Methods in Immunological Experiment" VI, 1941-1948, 1977 (in Japanese).

**Natsuume-Sakai, S., Kondo, K. &
Migita, S.**

Quantitative estimation of serum Ss level changes upon the development of autoantibodies, environment and acute inflammation in inbred mice. *Jap. J. Exp. Med.*, **47**, 117-123, 1977.

**Natsuume-Sakai, S., Motonishi, K. &
Migita, S.**

Quantitative estimation of five classes of immunoglobulin in inbred mouse strains. *Immunology*, **32**, 861-866, 1977.

**Ohno, S., Natsuume-Sakai, S. &
Migita, S.**

Alteration of cell-surface antigenicity of the mouse plasmacytoma. II. Lack of correlation between synthesis of myeloma protein and alteration of surface antigen. *J. Nat. Cancer Inst.*, **58**, 229-237, 1977.

**Ohno, S., Luka, J., Falk, L. &
Klein, G.**

Detection of a nuclear, EBNA-type antigen in apparently EBNA-negative *Herpesvirus papio* (HVP)-transformed lymphoid lines by the acid-fixed nuclear binding technique. *Int. J. Cancer*, **20**, 941-946, 1977.

Ohno, S., Wiener, F. & Klein, G.

Histochemical studies on the EBV-determined nuclear antigen (EBNA). *Biomedicine*, *26*, 268-275, 1977.

Ohno, S., Luka, J., Lindahl, T. & Klein, G.

Identification of a purified complement-fixing antigen as the Epstein-Barr virus-determined nuclear antigen (EBNA) by its binding to metaphase chromosomes. *Proc. Nat. Acad. Sci. USA*, *74*, 1605-1609, 1977.

Lindahl, T., Luka, J., Ohno, S., Siegert, W. & Klein, G.

Properties of the Epstein-Barr virus-determined nuclear antigen (EBNA). *INSERM*, *69*, 161-164, 1977.

Yamamoto, K., Lint, T. F. & Gewurz, H.

Enhancement of C56-initiated lysis by cell-bound C3 fragments: Evidence for mechanism independent of the prior binding of C56 to C3b. *J. Immunol.*, *119*, 1346-1350, 1977.

Yamamoto, K.

Lytic activity of C5-9 complexes for erythrocytes from the species others than sheep: C9 rather than C3 dependent variation in lytic activity. *J. Immunol.*, *119*, 1482-1485, 1977.

Migita, S. (ed.)

"Methods in Immunological Experiment" VI, 1567-1970, Japanese Society for Immunology, 1977 (in Japanese).

Terashima, K., Takahashi, K., Kojima, M., Imai, Y., Tsuchida, S., Kikuchi, T., Migita, S., Ebina, S. & Ito, C.

Histiocytosis with characteristic accumulated crystal light chain of immunoglobulin. *Jap. J. Reticuloendothelial System*, *17*, 209-226, 1978 (in Japanese).

Notake, K., Kobayashi, S., Yoshikawa, K., Iwate, M., Kawamura, O., Migita, S., Sugawara, K. & Ito, Y.

Studies in human myeloma in vitro. I. Long-term cultivation of bone marrow cells from a patient with multiple myeloma. *J. Aichi Med. Univ. Ass.*, *6*, 161-169, 1978 (in Japanese).

Migita, S.

Origin and evolution of Immunoglobulin. *Physico-chemical Biology*, *22*, 9-13, 1978.

Migita, S.

Regulation of immunoglobulin synthesis. *Medical Education Series*, *121*, 19-26, 1978 (in Japanese).

Kaneko, Y., Natsuume-Sakai, S. &

Migita, S.

Cytotoxic T lymphocytes to murine plasmacytoma cells in allogeneic and syngeneic mice: H-2 antigens are essential in the induction and effector stages of cytotoxic T lymphocytes. *J. Immunol.*, *121*, 427-437, 1978.

Migita, S.

Quantitation of immunoglobulin by single radial immunodiffusion method. pp. 289-298, "Immunoserological Reactions and Examinations" ed. by Ministry of Health and Welfare, 1978 (in Japanese).

Terashima, K., Takahashi, K., Kojima, M., Imai, Y., Tsuchida, S., Migita, S., Ebina, S. & Ito, C.

Kappa-type light chain crystal storage histiocytosis. *Acta Path. Jap.*, *28*, 11-138, 1978.

Migita, S. & Matsuhashi, C.

Immunization schedule for every antigens and experimental animals. "Methods in Immunological Experiment" VII, pp. 1978-1978-43, 1978 (in Japanese).

Migita, S. & Matsuhashi, C.

Evaluation of commercially available antisera and its list. "Methods in Immunological Experiment" VII, pp. 1978-45-1978-76, 1978 (in Japanese).

Migita, S. (ed.)

"Methods in Immunological Experiment" Vol. VII, pp. 1971-2326, Japanese Society for Immunology, 1978 (in Japanese).

Natsuume-Sakai, S., Daimaru, O. & Migita, S.

Occurrence of antibody with the restricted heterogeneity in mice immunized with *E. coli* o55: B5 lipopolysaccharide: Demonstration of restricted heterogeneity, determination of immunoglobulin class and the role of polyclonal activation by lipid A. *J. Immunol.*, in press, 1979.

Tokuyama, H. & Migita, S.

Cell-surface major glycoprotein of BALB/c mouse plasmacytoma 58-8 cells. *J. Nat. Cancer Inst.*, *61*, 203-208, 1978.

Yoshida, M. C., Moriwaki, K. & Migita, S.

Specificity of the deletion of chromosome #15 in mouse plasmacytoma. *J. Nat. Cancer Inst.*, *60*, 235-237, 1978.

Ohno, S., Luka, J., Falk, L. & Klein, G.

Serological reactivities of human and baboon sera against EBNA and Herpesvirus papio-determined nuclear antigen (HUPNA). *Europ. J. Cancer*, *14*, 955-960, 1978.

Wiener, F., Spira, J., Ohno, S., Haran-Ghera, N. & Klein, G.

Chromosomal changes (thisomy 15) associated with tumor progression in T-cell leukemia induced by 7, 12-dimethylbenz(a)anthracene (DMBA). *Int. J. Cancer*, 22, 447-453, 1978.

Ohno, S., Luka, J. & Klein, G.

Evidence for antigenic distinctness of the Epstein-Barr virus-determined nuclear antigen (EBNA) and the Herpesvirus papio-determined nuclear antigen (HUPNA). *Cancer Letters*, Sept, 1978.

Wiener, F., Ohno, S., Spira, J., Haran-Ghera, N. & Klein, G.

Chromosomal changes (trisomy 15 and 17) associated with tumor progression in leukemias induced by radiation leukemia virus (RadLV). *J. Nat. Cancer Inst.*, 60, 227-237, 1978.

Shapiro, I. M., Moar, M. H., Ohno, S. & Klein, G.

Acetic acid treatment denatures DNA while preserving chromosomal morphology during the *in situ* hybridization procedure. *Exp. Cell Research*, 115, 411-414, 1978.

Wiener, F., Ohno, S., Spira, J., Haran-Ghera, H. & Klein, G.

Cytogenetic mapping of the trisomic segment of chromosome 15 in murine T-cell leukemia. *Nature*, 275, 658-660, 1978.

Yamamoto, K. & Gewurz, H.

The complex of C5b and C6: Isolation, characterization and identification of a modified form of C3b consisting of three polypeptide chains. *J. Immunol.*, 120, 2008-2015, 1978.

Nemerow, G. R., Lint, T. F.,

Yamamoto, K., Glasser, R., Schwartz, B. & Gewurz, H.

Isolation and characterization of a new serum protein with C567-INH activity. *Fed. Proc.*, 37, 1751, 1978.

Yamamoto, K. & Gewurz, H.

The proteolytic cleavage of the major fragment of C5 (C5b) by proteolytic serum enzymes: A possible mechanism for controlling the formation of the cytolytic complex of complement. *J. Immunol.*, 1979 (in press).

Migita, S.

Adjuvant granuloma and the onset of plasmacytoma in mouse. "Immunopathology" ed. A. Okabayashi, pp. 142-151, Bunkodo, Tokyo, 1979 (in Japanese).

Hirayama, C. & Migita, S. (ed.)

"Plasma proteins, its Structure, Function and Pathology" Ishiyaku Shuppan, Tokyo, in press, 1979 (in Japanese).

Department of Biophysics

Murakami, S., Murakami, Sh. &

Yoshikawa, H.

A novel gene which controls the initiation of chromosome replication and prophage induction in *Bacillus subtilis*. *Proc. 1975 Mol. Biol. Meet. Japan*, 99-101, 1975.

Yamaguchi, K. & Yoshikawa, H.

Isolation of a soluble DNA-protein complex containing a single chromosomal fragment from the replication origin of the *Bacillus subtilis* chromosome. *Proc. 1975 Mol. Biol. Meet. Japan*, 96-98, 1975.

Murakami, S., Murakami, Sh. & Yoshikawa, H.

Gene that controls initiation of chromosome replication and prophage induction in *Bacillus subtilis*. *Nature*, 259, 215-218, 1976.

Murakami, S., Inuzuka, N., Yamaguchi, M., Yamaguchi, K. & Yoshikawa, H.

Initiation of DNA replication in *Bacillus subtilis*. III. Analysis of molecular events involved in the initiation using a temperature sensitive *dna* mutant. *J. Mol. Biol.*, 108, 683-704, 1976.

Murakami, Sh., Murakami, S., Yamaguchi, K. & Yoshikawa, H.

Macromolecular synthesis after a nutritional shift up of *Bacillus subtilis*. *Mol. Gen. Genet.*, 145, 293-302, 1976.

Yamaguchi, K. & Yoshikawa, H.

Isolation of a DNA-protein complex containing a single chromosomal fragment which is at or near the replication origin. *Mol. Biol. Reports*, 2, 439-443, 1976.

Yoshikawa, H.

Cell cycle in Bacteria. p81-118, in *Gendai Dobutsugaku no Kadai*. vol. 6, "Cell cycle" K. Dan (Ed.) Tokyo Univ. Press, 1976 (in Japanese).

Yoshikawa, H.

Gene duplication. p1-62, in *Seibutsu Kagaku Koza* vol. 3, "Gene Expression". F. Osawa et al. (Ed.) Asakura, Shoten, 1976, (in Japanese).

Murakami, Sh.

Macromolecular synthesis after a nutritional shift-up of *Bacillus subtilis*. *Juzen Igk. Z.*, 85, 259-271, 1977. (in Japanese).

Yamaguchi, K. & Yoshikawa, H.

Chromosome-membrane association in *Bacillus subtilis*. III. Isolation and characterization of a DNA-protein complex carrying replication origin marker. *J. Mol. Biol.*, 110, 219-253, 1977.

Yoshikawa, H.

Self-replication of the gene. *Mathematical Science*, 169, 46-52, 1977. (in Japanese).

Yoshikawa, H. & Abe, M.

In vivo DNA synthesis. p7-30, in *Seikagaku Jikken*

Koza vol. 8, "Nucleic acid biosynthesis" Japanese Biochem. Society (Ed.), Tokyo Kagaku Dojin, 1977 (in Japanese).

Yoshikawa, H., Murakami, S., Yamaguchi, K., Inuzuka, N. & Murakami, Sh.

DNA replication cycle in bacteria, with emphasis on regulation of initiation. NRI Symposia on Modern Biology, 37-58, 1977.

Aoyama, S.

Study on the temporally ordered replication of DNA in HeLa S3 cells. Juzen Igk. Z., 87, 440-452, 1978 (in Japanese).

Toyoda, H.

A DNA-membrane complex from *Bacillus subtilis*. Juzen Igk. Z., 87, 333-343, 1978 (in Japanese).

Toyoda, H., Yamaguchi, K. & Yoshikawa, H.

Chromosome-membrane association in *Bacillus subtilis*. IV. Further purification of DNA-membrane complex using a combination of centrifugation and electrophoresis. J. Bact., 136, 799-802, 1978.

Yoshikawa, H., Yamaguchi, K. & Toyoda, H.

DNA replication. Second symposium on *Bacillus subtilis*. 6-12, 1978 (in Japanese).

Yoshikawa, H., Yamaguchi, K.,

Seiki, M., Ogasawara, N. & Toyoda, H.
Organization of the replication origin region of the *Bacillus subtilis* chromosome. Cold. Spr. Harb. Symp. Quant. Biol. (in press).

Department of Immunobiology

Nonaka, M. & Terayama, H.

Thymidine kinase activation in unfertilized sea urchin eggs by homogenization and fertilization. Develop. Biol., 43, 322, 1975.

Amano, S. & Hagiwara A.

In vivo study on the process of solid tumor formation from embryoid bodies of mouse teratocarcinoma. Develop. Growth and Diff., 18, 95, 1976.

Takahashi, M., Ferreira, J. Czop. A. & Nussenzweig, V.

Mechanisms of solubilization of immune aggregates by complement. Implication for immunophatology. Transpl. Rev., 32, 121, 1976.

Ferreira, A., Takahashi, M. & Nussenzweig, V.

Purification and characterization of a mouse serum protein with specific binding affinity for C4 (Ss protein). J. Exp. Med., 146, 1001, 1977.

Natsuume-Sakai, S., Kondo, K. &

Migita, S.

Quantitative estimation of serum Ss level; Changes upon the development of autoantibodies, environment and acute inflammation in inbred mice. Jap. J. Exp. Med., 47, 117, 1977.

Natsuume-Sakai, S., Motonishi, K. & Migita, S.

Quantitative estimation of five classes of immunoglobulin in inbred mouse strains. Immunology, 32, 861, 1977.

Natsuume-Sakai, S., Motonishi, K. & Takahashi, M.

Serum C3 level in inbred mice; Variation dependent upon strain, age and environment. Int. Arch. Allergy, 53, 269, 1977.

Nonaka, M. & Terayama, H.

Compartmentation of thymidine kinase in unfertilized sea urchin eggs and possible release of thymidine kinase from particulates in activated eggs. Develop. Biol., 56, 68, 1977.

Ohno, S. Natsuume-Sakai, S. & Migita, S.

Alteration of cell-surface antigenicity of the mouse plasmacytoma. II. Lack of correlation between synthesis of myeloma protein and alteration of surface antigen. J. nat. Cancer Inst., 58, 229, 1977.

Takahashi, M., Tack, B. F. & Nussenzweig, V.

Requirements for solubilization of immune aggregates by complement. Assembly of a factor-B dependent C3 convertase on immune complexes. J. Exp. Med., 145; 86, 1977.

Amano, S., Uno, K. & Hagiwara, A.

Cardiac muscle cell differentiation *in vitro* from a characteristic cell line isolated from mouse teratocarcinoma. Develop. Growth and Differ., 20, 41, 1978.

Kaneko, Y., Natsuume-Sakai, S. & Migita, S.,

Cytotoxic T lymphocytes to murine plasmacytoma cells in allogeneic and syngeneic mice: H-2 antigens are essential in the induction and effector stages of CTL. J. Immunol., 121, 427, 1978.

Natsuume-Sakai, S., Hayakawa, J. & Takahashi, M.

Genetic polymorphism of murine C3 controlled by a single codominant locus on chromosome 17. J. Immunol., 121, 491, 1978.

Takahashi, M., Takahashi, S., Brade, V. & Nussenzweig, V.

Requirements for solubilization of immune aggregates by complement. The role of the classical pathway. J. Clin. Invest., 62, 349, 1978.

Natsuume-Sakai, S., Amano, S.,

Hayakawa, J. & Takahashi, M.

Preparation of an alloantiserum to murine C3 and demonstration of multiple alleles. *J. Immunol.*, *121*, 2025, 1978.

Amano, S., Natsuume-Sakai, S., Hayakawa, J. & Takahashi, M.

The expression of the allelic gene of murine C3 in fetal and neonatal mice. *J. Immunol.*, *122*, in press, 1979.

Takahashi, M.

Complement-dependent solubilization of antigen-antibody complexes. To be published in "Progr. Allergy" (Karger KG., Basel).

Department of Pathophysiology

Kurata, Y.

A membrane-bound spermatogenic cell-specific antigen and aspermatogenesis. *Hormone and Clinic*, *24*, 603-606, 1976 (in Japanese).

Kurata, Y.

Antigens in experimental allergic inflammations. In "Dynamics of Inflammation. Vol. 6, Inflammations of organs and their experimental models". (Yasuhira, K., Tsurufuji, S. and Mizushima, Y. eds.) pp. 24-45, Igakushoin, Tokyo, 1975 (in Japanese).

Okada, S. & Kurata, Y.

On the tumor-specific antigens in human renal cancers. Proceedings of the 35th General Meeting of the Japanese Cancer Association, 62p, 1976 (in Japanese).

Okada, S., Itaya, K. & Kurata, Y.

Tumor-specific antigens of rhabdo- and leiomyosarcoma. Proceedings of the 36th General Meeting of the Japanese Cancer Association, 62p, 1977 (in Japanese).

Kurata, Y.

Immunity to sperm cells. *Igaku no Ayumi*, *102*, 421-425, 1977 (in Japanese).

Okada, S., Itaya, K. & Kurata, Y.

Identification of a tumor-specific antigen in the insoluble fraction of human nephroblastoma. *Eur. J. Cancer*, 1979 (in press).

Department of Pharmacology

Kigoshi, S. & Ito, R.

The *in vitro* effect of adrenergic agents and related compounds on triglyceride levels of guinea-pig lymphoid cells. *Experientia*, *32*, 243-244, 1976.

Kigoshi, S. & Akiyama, M.

High levels of free fatty acids and their esters in lymphoid cells resistant to cortisone or cyclophosphamide. *Experientia*, *32*, 927-929, 1976.

Kigoshi, S., Akiyama, M. & Ito, R.

Close correlation between levels of cholesterol and free fatty acids in lymphoid cells. *Experientia*, *32*, 1244-1245, 1976.

Ryoyama, C.

Effect of strain differences on heat-susceptibility of L-asparaginase in the guinea pig. *Japan. J. Exp. Med.*, *48*, 327-336, 1978.

Department of Experimental Therapeutics

Koshimura, S.

Immunotherapy of cancer and picibanil. *Medicine & Drug Journal*, *1976*, 48-50, 1976 (in Japanese).

Natsuume-Sakai, S., Daimaru, O.,

Migita, S., Ryoyama, K. &

Koshimura, S.

Studies on the properties of a streptococcal preparation OK-432 (NSC-B116209) as an immunopotentiator. II. Selective stimulation of immunoglobulin production and delayed type hypersensitivity in inbred mice injected with some microorganisms. Proceedings of the 35th General Meeting of the Japanese Cancer Association, Oct, 1976. 68p. (in Japanese).

Yamamoto, Y., Kiriya, N.,

Shimizu, S. & Koshimura, S.

Antitumor activity of asterriquinone, a metabolic product from *Aspergillus terreus*. *Gann*, *67*, 623-624, 1976.

Koshimura, S. & Ryoyama, K.

Enhancement of antileukemic effect in the combination of 5-fluorouracil and OK-432. *Cancer Treat. Rep.*, *61*, 17-27, 1977.

Koshimura, S., Ryoyama, K.,

Ogawa, H., Yamamoto, A., Usami, H.,

Mitsui, H. & Takagaki, Y.

Antitumor activity of protoplast membrane from group A streptococcus. *Japan. J. Exp. Med.*, *47*, 341-349, 1977.

Koshimura, S.

Antitumor effect of a streptococcal preparation, OK-432, in relation to its immunopotentiating activity in the host. Proceedings of the 41th Annual Meeting of the East Japan Dermatological Society, Sep, 1977. 20 p. (in Japanese).

Ryoyama, K.

Cytotoxic sensitivity of the Yoshida sarcoma cells and its thio-TEPA-resistant subline against coelomic fluid preparation of the sea urchin *in vitro*. *Japan. J. Exp. Med.*, 327-334, 1977.

Ryoyama, K., Koshimura, S. &

Natsuume-Sakai, S.

Antitumor activity and immunopotentiating capacity of subcellular fractions prepared from group A streptococci. Proceedings of the 36th Genral Meet-

ing of the Japanese Cancer Association, Oct, 1977. 153 p. (in Japanese).

Ujiie, T. & Koshimura, S.

Chelating agents as anticancer drugs. Proceedings of the 36th General Meeting of the Japanese Cancer Association, Oct, 1977. 155 p. (in Japanese).

Koshimura, S.

Progress in anticancer drugs. Drug & Medical News, 556, 3-5, 1978 (in Japanese).

Koshimura, S., Ryoyama, K. & Ujiie, T.

Enhancement of antitumor effect by OK-432 in combination therapy. Proceedings of the XIIth International Cancer Congress, Oct, 1978.

Natsuume-Sakai, S., Ryoyama, K., Murayama, T., Shang-Lin, Hsu & Koshimura, S.

Induction of immunoglobulins having antitumor activity in sera from mice treated with group A streptococcus. Proceedings of the 37th General Meeting of the Japanese Cancer Association, Aug. 1978. 95 p. (in Japanese).

Okamoto, H., Shoin, S. & Koshimura, S.

Streptolysin S-forming and antitumor activities of group A streptococci. In "Bacterial Toxins and Cell Membranes" (J. Jeljaszewicz and T. Wadström, eds.), pp. 259-289, Academic Press Inc., New York, 1978.

Ryoyama, K., Murayama, T., Ujiie, T., Shang-Lin, Hsu & Koshimura, S.

Enhancement of the effect of chemotherapy by OK-432 and its relation to host immune status. Proceedings of the 37th General Meeting of the Japanese Cancer Association, Aug, 1978. 157 p. (in Japanese).

Ryoyama, K., Murayama, T. & Koshimura, S.

Effect of OK-432 on immunization with mitomycin C-treated L1210 cells. Gann (in press).

Satoh, H., Sato, H., Kobayashi, H., Koshimura, S., Ota, K. & Kojima, K.

The list of transplantable tumors in Japan. Proceedings of the 37th General Meeting of the Japanese Cancer Association, Aug, 1978. 116 p. (in Japanese).

Ujiie, T. & Koshimura, S.

Combination therapy of L1210 leukemia with adriamycin, cyclophosphamide and OK-432. Proceedings of the 37th General Meeting of the Japanese Cancer Association, Aug, 1978. 169 p. (in Japanese).

Ujiie, T. & Goshima, T.

Caffeine releases G₂ arrest caused by adriamycin. Proceedings of the 37th General Meeting of the Japanese Cancer Association, Aug, 1978. 162 p. (in

Japanese).

Department of Internal Medicine

Kurakane, K.

Clinical-statistical review on primary carcinoma of the jejunum-ileum in Japan. Saishin-Igaku, 34, 1979. (accepted)

Department of Surgery

Asano, I., Kimura, S., Ojima, T., Nakagawara, G. & Kitano, T.

A case of blue rubber bleb nevus syndrome. Geka Shinryo, 18, 75-80, 1976 (in Japanese).

Kuroda, Y., Nakagawara, G., Koyama, H., Izumi, R. & Asano, K.
Cryohemorrhoidectomy. Syuzyutu, 30, 521-525, 1976 (in Japanese).

Kojima, Y., Noguchi, M., Takashima, S., Akimoto, R., Nagakawa, T., Nakagawara, G. & Miyazaki, I.

A case of congenital absence of the gallbladder. Geka Shinryo, 18, 91-94, 1976 (in Japanese).

Miyazaki, I., Nakagawara, G. & Kimura, S.

The surgical study of carcinoma of the colon and rectum. Geka Shinryo, 18, 11-15, 1976 (in Japanese).

Miyazaki, I., Nakagawara, G., Sodani, H., Fujita, H., Kanbayashi, I., Sasaki, T., Takashima, S. & Kojima, Y.
Surgical treatment of benign bile duct stenosis. Chir. Gastroent, 10, 211-215, 1976.

Murata, I. & Nakagawara, G.
Pathophysiology of the vomiting of serious multiple injuries. Rinsho, 2, 30-32, 1976 (in Japanese).

Nakagawara, G., Noguchi, M. & Miyazaki, I.
Diagnosis and treatment of early cancer of the rectum. Chir. Gastroent, 10, 63-69, 1976.

Nakagawara, G., Kimura, S., Sawazaki, K., Koyama, H., Kojima, Y., Watanabe, M. & Miyazaki, I.
Polyps and cancer of the colon. Rinsho Geka, 31, 503-506, 1976 (in Japanese).

Nakagawara, G. & Kimura, S.
Endoscopic diagnosis of early colorectal carcinoma. Ishikawa Ihō, 652, 2-4, 1976 (in Japanese).

Nakagawara, G.

Clinical Study of early cancer in the large intestine. *Ishikawa Ihō*, 650, 2-4, 1976 (in Japanese).

Nakagawara, G.

Diagnosis of early cancer in the large intestine. *Ishikawa Ihō*, 651, 3-5, 1976 (in Japanese).

Nakagawara, G.

Treatment of early colorectal carcinoma. *Ishikawa Ihō*, 653, 2-3, 1976 (in Japanese).

Nakagawara, G., Akimoto, R.,

Funaki, H., Sawazaki, K.,

Watanabe, M., Mizukami, T.,

Yonemura, Y. & Isobe, Y.

Surgical treatment for ulcerative colitis. *Syuzuyutu*, 30, 59-62, 1976 (in Japanese).

Nakagawara, G., Kojima, Y.,

Yamazaki, G., Kimura, S., Kato, H. &

Kuroda, Y.

Clinical studies of abdominoperineal resection for rectal cancer. *Syuzuyutu*, 30, 861-864, 1976 (in Japanese).

Nakagawara, G., Yamazaki, G. &

Miyazaki, I.

Rectal carcinoid. *Chir. Gastroent*, 10, 339-345, 1976.

Nakagawara, G. & Miyazaki, I.

Polyps and carcinoma of the large intestine. *Chir. Gastroent*, 11, 217-223, 1976.

Ojima, T., Nakagawara, G.,

Sawazaki, K., Uida, H., Kanno, S. &

Nakagami, A.

A case of foreign granuloma of the large intestine. *Geka Shinryo*, 18, 91-94, 1976 (in Japanese).

Shoji, M., Nakagawara, G., Sasaki, M.,

Kanbayashi, K. & Mura, T.

Surgical treatment of massive rectal prolapse. *Syuzuyutu*, 30, 675-680, 1976 (in Japanese).

Yamazaki, G. Nakagawara, G.,

Okamoto, H., Akimoto, R., Kimura, S.,

Kojima, Y., Ohno, S. & Miyazaki, I.

Experimental studies of pancreatic islets transplantation in rats. *Ishoku*, 11, 87-91, 1976 (in Japanese).

Kimura, S., Nakagawara, G. Kojima, Y.,

Ohno, S., Isobe, Y. & Miyazaki, I.

Transplantation of pancreatic islets in rats. *Ishoku*, 12, 107-111, 1977 (in Japanese).

Kinami, Y., Mai, M., Akimoto, R.,

Yoshida, M. & Miyazaki, I.

Malignant lymphoma in Surgery. *Geka*, 39, 255-259, 1977 (in Japanese).

Kojima, Y., Nakagawara, G., Ohno, S.,

Yamazaki, G., Kimura, S.,

Mizukami, T., Miyazaki, I. &

Akimoto, R.

Preservation of rat pancreatic islets by tissue culture. *Ishoku*, 12, 37-41, 1977 (in Japanese).

Mai, M., Takamatsu, O., Makino, H.,

Sugioka, G. & Watanabe, K.

A case of Giant hypertrophic gastritis with hypoproteinemia. *Ito-Cho*, 12, 105-110, 1977 (in Japanese).

Mai, M., Takamatsu, O. &

Watanabe, K.

Giant hypertrophic gastritis (Menetrier's disease). *J. Belge Radiol.*, 60, 351-356, 1977.

Nakagawara, G., Yamazaki, G.,

Kimura, S., Kojima, Y., Ohno, S.,

Mizukami, T., Akimoto, R. &

Miyazaki, I.

Experimental study on pancreatic islet transplantation of the rat. Proceeding of the 2nd joint congress of asian and pacific federation international college of surgeons. December, 1977 (Japan).

Nakagawara, G., Kojima, Y.,

Mizukami, T., Ohno, T., Isobe, Y.,

Yamazaki, G., Kimura, S.,

Akimoto, R. & Miyazaki, I.

Experimental studies on pancreatic islets transplantation and organ culture. *Nichi-Ge-Kaishi*, 78, 1177-1190, 1977 (in Japanese).

Nakagawara, G., Asano, E., Kimura, S.,

Akimoto, R. & Miyazaki, I.

Blue rubber bleb nevus syndrome. Disease of the Colon and Rectum, 20, 421-427, 1977.

Yamazaki, G., Nakagawara, G.,

Okamoto, H., Akimoto, R., Kimura, S.,

Kojima, Y., Ohno, S., Mizukami, T. &

Miyazaki, I.

Preserved pancreatic islets transplantation in diabetic rats. *Ishoku*, 12, 78-82, 1977 (in Japanese).

Kuroda, Y., Asano, K., Mai, M.,

Shinmura, K., Nagata, D., Imabori, T.,

Akimoto, R. & Nakagawara, G.

Pathological study on cases of gastric cancer. *Gekashinryo*, 20, 826-831, 1978 (in Japanese).

Mai, M., Akimoto, R., Nakagawara, G.

& Watanabe, K.

Linitis plastica type of stomach cancer. *Rinsho-Geka*, 33, 1214-1215, 1978 (in Japanese).

Mai, M., Sawasaki, R., Akimoto, R.,

Kinami, Y., Takeuchi, I.,

Yamamoto, K. & Kitagawa, M.

A case of Crohn's disease associated with formations of aggregated "mucosal bridge". *Stomach and Intestine*, 13, 1097-1104, 1978 (in Japanese).

Mai, M.

Histological aspects of gastric polyps and their relation to gastritis verrucosa. *Progress of Digestive Endoscopy*, 12, 32-35, 1978 (in Japanese).

**Mizukami, T., Nakagawara, G.,
Ohno, S., Akimoto, R., Kimura, S.,
Yamazaki, G., Kojima, Y. &
Miyazaki, I.**

On the viability of perfused pancreas of rat cadaver. *Ishoku*, 13, 115-119, 1978 (in Japanese).

**Nakagawara, G., Yamazaki, G.,
Kimura, S., Kojima, Y. & Miyazaki, I.**

Insulin releasing activity and successful transplantation of pancreatic islets preserved by tissues culture. *Surgery*, 83, 188-193, 1978.

**Nakagawara, G., Kamimura, M.,
Koyama, H., Ohno, S., Mizukami, T.,
Kojima, Y. & Miyazaki, I.**

Clinical Studies of multiple cancer of large intestine. *Gekashinryo*, 20, 714-717, 1978 (in Japanese).

**Nakagawara, G., Kojima, Y.,
Kimura, S., Yamazaki, G., Ohno, S.,
Mizukami, T., Akimoto, R., Mai, M.,
Mura, T., Kitagawa, K., Hirano, K. &
Miyazaki, I.**

Pancreatic islet transplantation in diabetic rats. *Proceedings of the 5th world congress C.I.C.D.*, September, 1978 (Brazil).

**Nakagawara, G., Kimura, S.,
Yamazaki, G., Kojima, Y. &
Akimoto, R.**

Transplantation of pancreatic islets in rat. *Gastroenterological Surgery*, 12, 71-76, 1978.

**Ohno, S. Nakagawara, G.,
Mizukami, T., Akimoto, R., Kimura, S.,
Yamazaki, G., Kojima, Y. &
Miyazaki, I.**

Morphological observation of frozen isolated rat pancreatic L islets. *Ishoku*, 13, 110-114, 1978 (in Japanese).

**Yamazaki, G., Nakagawara, G.,
Okamoto, H., Akimoto, R., Kimura, S.,
Kojima, Y. & Miyazaki, I.**

Transplantation of preserved pancreatic islets into the portal vein of rats. *Jap. J. Surg.*, 8, 152-158, 1978.

ERRATA

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