

# 白血病細胞におけるlineage crossoverの臨床的意義

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# 2001 Fiscal Year Final Research Report Summary

## Clinical significance of lineage crossover in leukernic cells

Research Project

### Project/Area Number

11672292

### Research Category

Grant-in-Aid for Scientific Research (C)

### Allocation Type

Single-year Grants

### Section

一般

### Research Field

Laboratory medicine

### Research Institution

Kanazawa University

### Principal Investigator

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### Project Period (FY)

1999 - 2001

### Keywords

Acute Myeloid Leukemia / Immunoglobulin gene / CDR3 / PCR

### Research Abstract

1. We have analyzed complementarity-determining region 3(CDR3) of immunoglobulin heavy (IgH) chain gene rearrangement in leukerhic cells from 40 untreated acute myeloid leukemia patients using semi-nested PCR method and polyacrylamide gel electrophoresis.
2. Clonal IgH gene rearrangement was detected in 34 patients (85%).
3. IgH gene CDR3 DNA sequence was analyzed in patients showing clonal rearrangement. Thirty sequences (65%) out of 46 analyzed had common sequence.
4. This sequence was 5 'ATTACTAGATA3 ' and has. Been registered as "D3-22" in V-Base Database in the Internet.
5. It was not clarified how this phenomenon was caused and what kind of biological significance it had. Further research focusing recombination activating gene development may clarify this phenomenon.

6. We have found clonal IgH gene rearrangement in DNA from serum of patients with B lymphoid malignancy. It is anticipated that the application of this method in clinical laboratory examination in the case of Blymphoid malignancy.

## Research Products (18 results)

All Other  
All Publications

[Publications] 大竹 茂樹: "急性骨髄性白血病の治療"内科. 84 · 3. 460-46 (1999) ▼

[Publications] Ohtake S: "Randomized clinical trial of response-oriented individualized versus fixed schedule induction chemotherapy in adult acute myeloid leukemia : the JALSG AML95 study"Blood. 94 · S1. 298a (1999) ▼

[Publications] 大竹 茂樹: "急性骨髄性白血病"臨床成人病. 30 · 4. 480-484 (2000) ▼

[Publications] Okumura H: "CD8-depleted donor leukocyte transfusions for cytomegalovirus antigenemia in patient with acute lymphoblastic leukemia treated with allogeneic CD34(+) cell transplantation"Am J Hematol. 65 · 4. 278-280 (2000) ▼

[Publications] Kaya: "Trisomy 14 with thrombocytosis and monocytosis"Acta Haematol. 103 · 4. 206-209 (2000) ▼

[Publications] Ohnishi K: "Multicenter prospective study of interferon-alpha versus bone marrow transplantation for newly diagnosed patients with chronic myelogenous leukemia : a preliminary analysis"Cancer Chemother Pharmacol. 48 · S1. 59-64 (2001) ▼

[Publications] Asou N: "Analysis of prognostic factors in newly diagnosed patients with acute promyelocytic leukemia : the APL92 study of the Japan Adult Leukemia Study Group (JALSG)"Cancer Chemother Pharmacol. 48 · S1. 65-71 (2001) ▼

[Publications] 大竹 茂樹: "血液・免疫・腫瘍"大規模臨床試験成績. 7 · 1. 73-80 (2002) ▼

[Publications] 大野 竜三: "白血病とAra-C大量療法"医薬ジャーナル. 95 (2001) ▼

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[Publications] Ohtake S, et al: "Randomized clinical trial of response-oriented individualized versus fixed schedule induction chemotherapy in adult acute myeloid leukemia : the JALSGAML95 study"Blood. 94-S1. 298a (1999) ▼

[Publications] Ohtake s: "Acute Myeloid Leukemia"Rinsho Seijinbyou. 30-4. 480-484 (2000) ▼

[Publications] Okumura H, Ohtake S, et al: "CD8-depleted donor leukocyte transfusions for cytomegalovirus antigenemia in patient with acute lymphoblastic leukemia treated with allogeneic CD34(+) cell transplantation"Am J Hematol. 65-4. 278-280 (2000) ▼

[Publications] Kaya H, Ohtake S, et al: "Trisomy 14 with thrombocytosis and monocytosis"Acta Haematol. 103-4. 206-209 (2000) ▼

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[Publications] Asou N, Ohtake S, et al: "Analysis of prognostic factors in newly diagnosed patients with acute promyelocytic leukemia : the APL92 study of the Japan Adult Leukemia Study Group(JALSG)"Cancer Chemother Pharmacol. 48-S1. 65-71 (2001) ▼

[Publications] Ohtake S: "Result of Large Scale Clinical Trial : AML"Blood · Immunity · Cancer. 7-1. 73-80 (2002) ▼

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