

Clinical significance of lineage crossover in leukemic cells

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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)

AllOther

AllPublications

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