

GVL(抗白血病)効果増強による骨髄移植後再発予防の研究

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1995 Fiscal Year Final Research Report Summary

Mechanism of graft-versus-leukemia (GVL) effect to prevent leukemia relapse after allogeneic bone marrow transplantation

Research Project

Project/Area Number

06671081

Research Category

Grant-in-Aid for General Scientific Research (C)

Allocation Type

Single-year Grants

Research Field

Hematology

Research Institution

Kanazawa University

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Keywords

Bone marrow transplantation / Graft-versus-leukemia effect / Graft-versus-host disease / Donor leukocyte transfusion / T cell clone / Adoptive immuno-therapy / Allo-cell therapy

Research Abstract

Graft-versus-leukemia (GVL) effect is important to maintain durable remission after allogeneic marrow transplantation. We have studied mixed hematopoietic chimerism in patients with CML received alloBMT and found a small number of host-derived normal hematopoietic progenitor cells may persist after lethal chemoradiotherapy despite Ph⁺-positive clones could be eradicated ; suggesting patient T cells can recognize host-derived normal progenitor cells and Ph⁺-positive clone separately.

Furthermore, we disclosed (1) ; donor leukocyte infusion (DLT) can enhance this GVL effect, (2) ; eradicate leukemia clone in transplant patients with relapsing CML,(3) ; this effect was depend on disease and stage at DLT.Preliminary survey of 26 Japanese patients with relapsing leukemia after alloBMT showed the induction rate of DLT were 100% of CML in chronic phase, 50% of MDS but 0% of CML in blastic phase and 20-30% of acute leukemia.

We have studied Tcell clonotype following DLT by using PCR product of T cell receptors and found one clear band in TCRV beta15+T cells ; suggested a specific T cell may eradicate leukemia without GVHD.

In summary, these data showed allo cell therapy like DLT opened a new promising area to eradicate leukemia clone.

Research Products (13 results)

All Other

All Publications (13 results)

- [Publications] 高見昭良: "非血縁者間同種骨髄移植における慢性GVHD →血縁者間同種骨髄移植との比較" 臨床血液. 36. 6-11 (1995) ▼
- [Publications] Nakao,S.: "Clonal hematopoiesis detected in allogeneic marrow recipients with poor engraftment." Transplantation. 57. 1266-1268 (1994) ▼
- [Publications] 山崎宏人: "同種骨髄移植後の再発に対するドナーリンパ球輸注後に急性GVHDを経過せずに寛解が得られた慢性骨髄性白血病" 臨床血液. 36. 677-681 (1995) ▼
- [Publications] Yamaguchi,M.: "Early recovery of host-derived hemato poiesis in marrow transplant recipients conditioned with high-dose busulfan and cyclophosphamide." Bone Marrow Transplantation. 15. 787-789 (1995) ▼
- [Publications] Morishima,Y.: "Low incidence of acute GVHD in patients transplanted with marrow from HLA-A,B,DR compatible unrelated donors in Japanese." Bone Marrow Transplantation. 15. 235-239 (1995) ▼
- [Publications] 杉森尚美: "同種骨髄移植後重症GVHDの治療中拒絶を来した急性骨髄性白血病の一例." 臨床血液. 37. 134-138 (1996) ▼
- [Publications] Nakao S.et al: "Clonal hematopoiesis detected in allogeneic marrow recipient with poor engraftment" Transplantation. 57. 1266-1268 (1994) ▼
- [Publications] Takami Y.et al: "Analysis of chronic graft-versus-host disease after unrelated donor bone marrow transplantation." (in japanese). Japan Journal of Clinical Hematology. 36. 6-11 (1995) ▼
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- [Publications] Yamazaki H.et al: "Successful treatment of recurrent chronic myelogenous leukemia in allogeneic marrow transplantation with the donor leukocyte transfusion, without induction of acute graft-versus-host disease (in japanese)" Japan journal of Clinical Hematology. 36. 677-681 (1995) ▼
- [Publications] Morishima Y.et al: "Low incidence of acute GVHD in patients transplanted with marrow from HLA-A,B,DR compatible unrelated donors in japanese" Bone Marrow Transplantation. 15. 235-239 (1995) ▼
- [Publications] Sugimori N.et al: "Rejection of an allogeneic bone marrow graft following successful treatment of severe graft-versus-host disease (in japanese)" Japan journal of Clinical Hematology. 37. 134-138 (1996) ▼
- [Publications] Koderu Y,et al: "Analysis of 55 transplants from unrelated volunteer donors facilitated by Thokai Marrow Donor Bank" Internal Medicine. 35. 78-83 (1996) ▼

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