

アンチセンスDNAを用いた新しい診断・治療法開発に関する日米英共同研究

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1998 Fiscal Year Final Research Report Summary

Cooperative Research toward Antisense Diagnosis and Therapy

Research Project

Project/Area Number

08045063

Research Category

Grant-in-Aid for international Scientific Research

Allocation Type

Single-year Grants

Section

University-to-University Cooperative Research

Research Field

General medical chemistry

Research Institution

Kanazawa University

Principal Investigator

YAMAMOTO Hiroshi Kanazawa Univ., Sch.Med., Dept.Biochem., Professor and Chairman, 医学部, 教授 (00115198)

Co-Investigator(Kenkyū-buntansha)

グラスビー ジェーン A シェフィールド大学, 化学部, 講師

ミカエル ブラックバーン シェフィールド大学, 生物有機化学部, 教授

RAMANATHAN Murali State Univ.of New York at Buffalo, Faculty of Health Sciences, Associate Prof, 薬学部, 助教授

ストロービンガー ロバー ニューヨーク州立大学, 薬学部, 助教授

ファン ホ・ロン ニューヨーク州立大学, 薬学部, 教授

BLACKBURN G.Michael Unive.of Sheffield, Dept.Chem., Professor

FUNG Ho-Leung State Univ.of New York at Buffalo, Faculty of Health Sciences, Professor

STRAUBINGER Robert M. State Univ.of New York at Buffalo, Faculty of Health Sciences, Associate Prof

GRASBY J.A. Univ.of Sheffield, Dept.Chem., Lecturer

Project Period (FY)

1996 - 1998

Keywords

antisense / antisense display / nucleoside / ribozyme / liposome / aptamer

Research Abstract

This international network study has been conducted in accordance of the agreements of scientific exchanges among Kanazawa University, State University of New York at Buffalo and The University of Sheffield. The outstanding researchers belonging to the three institutions who were qualified to have been contributing to antisense or related sciences were organized to advance organic and biological chemistry and pharmacology of antisense molecules beyond the bounhy of each specialty, and to develop novel principles for diagnosis and therapy of hitherto intractable human diseases.

The project has proceeded successfully as proposed, yielding the following results :

1. The Japanese party developed antisense DNA preparations that would seem to have potentials to combat (1) cancer growth and metastasis, (2) angiogenesis and (3) drug resistance, developed a novel antisense-oriented method for functional gene screening designated "Antisense Display Method", and, using it, successfully isolated new genes that are related to the control of angiogenesis.
2. The US party established dosage-effect relationships of various low-molecular-weight compounds employing a pharmacokinodynamism model, developed a method for high-efficiency delivery of nucleic acid drugs, isolated DNA of a short chain length that has a potent anti-interferon activity, and clarified the aptamer mechanism underlying it.
3. The UK party developed phosphonate-modified nucleotides that are resistant to hydrolysis, a novel nucleotide derivative with an anti-hemocoagulation activity and a new hairpin ribozyme type that is controllable by Mn²⁺.
4. In the first fiscal year of the project, a member of the Japanese party visited the US party at Buffalo, and a TJK member came to meet the Japanese party at Kanazawa, In the second year, the leader of the organization had a meeting with the UK party at Sheffield, and two US members came to meet the Japanese party. In the final year, the members of the three way network got together at Kanazawa to hold an open joint seminar.▲
Less

Research Products (222 results)

All Other

All Publications (222 results)

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