

ON THE MICROFLORA OF THE ANTARCTIC ZONE*

Hiroshi IIZUKA**

南極の微生物について*

飯塚 広**

Part 1. On the Bacterialflora

Bacteria and fungi were isolated from the materials collected bacteri-free and brought back in the refrigerators (1-3°C).

With regard to bacteria, 846 strain were isolated and identified.

Of those, *Brevibacterium* were 386, *Pseudomonas* and *Achromobacter* 383 and others 77.

As for low temperature bacteria, *Brevibacterium* which should be called obligate psychrophiles and have most favorable temperature for growth somewhere between 5°C and 10°C were obtained. And many *Pseudomonas* were got,

which can live also at low temperature as the scope of temperature favorable for living are of a wide range.

Bacteria which do not require nutrition though of low temperature quality were found in pieces of the seal flesh.

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** Institute of Applied Microbiology, University of Tokyo.

NOTES ON SOME FUNGI AND YEASTS FROM ATARCTICA*

Keisuke TUBAKI**

南極採集品から分離された菌類について*

樽 啓 介**

With regard to fungi, five species of Hyphomycetes, and with yeasts, three species of anasporogenous group were isolated from nearly 50 soil samples which were collected by Dr. H. FUKUSHIMA (The 3rd J.A.R.E.) and by Dr. HAGA & Dr. MATSUDA (The 4th J.A.R.E.). For the isolation, malt agar and Czapek agar were employed at 15°, 20° and 25°C. No fungus or yeast were found from 25 samples of these soil materials. Of these cultures, isolated, the two species of fungi and a species of yeast are con-

sidered growing in the Antarctic, but others were probably brought in by the members of the Japanese Expedition or mixed during transportation of materials for the isolation.

At present, the following cultures were identified. The detailed description of them will be held otherwise.

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** Nagao Institute.