

September 18, 03

The Organism Quinone Research Group, Opening of The Second Lecture Meeting

The Second Lecture Meeting of the Organism Quinone Research Group (being chaired by Prof. Kishi Takeo, Director of the Pharmaceutics Faculty, Kobe Gakuinn Univ.) will be held on September 26 in Tokyo.

There is a lot of quinonoids in the natural world such as coenzyme Q₁₀, Vitamin K₂, Shikonin, Pyrrolo Quinoline Quinon (PQQ), etc., which are all sharing important roles in organic bodies. In these days, they are being much watched as pharmaceutical products and food supplements because of their physiological actions inside organic bodies. The Organism Quinone Research Group was established in August 2002 with the purpose of investigating and studying wider and deeper the quinonoids. The secretariat of the group is organized at Biochemical Department of Mitsubishi Gas Chemicals Co., Inc.

The first meeting was opened on October 11, 2002, putting an emphasis on Coenzyme Q₁₀. The second meeting will now be held on Friday, September 26 this year at the Surugadai Memorial Hall of Chuo University in Ochanomizu (from 10:30 to 17:50). A sociable will follow from 18:00 till 20:00.

At this time of the meeting, a special lecture will be given by Prof. Niki Etsuo of Sansoken on the PQQ, which is attracting much world interests as the Fourteenth Vitamin. Your participation without prior reservation is welcome.

The titles and lecturers being scheduled for the meeting are as follows:

The Metabolism of Coenzyme Q₁₀ by Prof. (Nakamura Tetsuya, Shibaura Inst. of Tech.)

Vitamin K and Bone Metabolism - A Latest Topic by Prof. (Koshihara Yasuko, Tokyo Met. Gerontology Inst.)

Shikonin - Plant naphthoquinone system red pigment - its biosynthesis and application by Prof. (Yazaki Kazufumi, Kyoto Univ.)

The Antioxidant Action of Organism Quinone - The Facts about The Known and The Unknown by Prof. (Niki Etsuo, Sansoken)

Symposium - A New Vitamin = The Latest Research Development about Coenzyme PQQ

(1) The Molecular Engineering of PQQ Enzyme and Its Application to Sensing Technology by Prof. (Sode Koji, Tokyo Agri. & Eng. College) (2) Fixing A New Vitamin - A Discovery of PQQ Enzyme in Mammals by Prof. (Kasahara Takaoki, Riken) (3) PQQ and Oxidation Stress - Focusing Peripheral Ischemia and Reperfusion injury Defects by Prof. Nukada Hitoshi, Otago Univ.

Coenzyme Q₁₀, which is a coenzyme widely distributed within any organic bodies, is well in use for pharmaceutical products and raw materials of food supplements as it holds the function of supplying energy as well as the antioxidation property. Vitamin K₂ is known to coagulate blood and to improve the decrease of bone mass and also finds its application in pharmaceutical products and raw materials of food supplements. Shikonin is a vegetable pigment of reddish purple extracted from the root of wandering Jew and has the property of antibacterial action and anti-inflammatory action. This substance is used as an additive to cosmetic products such as lipsticks. PQQ is one of the coenzymes for the essential oxidation reducing enzymes in the energy acquiring systems of organic bodies. This was discovered in 1979 in a microbe. In 1989, PQQ deficiency was reported on mouse and in April, this year, an enzyme having the coenzyme of PQQ was discovered on mouse, which attracted interests in PQQ as a new Vitamin.

The Organism Quinone Research Group will continue to open similar lecture meetings in the future



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for a better understanding of coenzyme Q₁₀, PQQ, and other organic quinonoids.

For inquiries, please contact:

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- (c) PQQ and Oxidation Stress - Focusing Peripheral Ischemia and Re-defusion deficiency Defects by Prof.

Nukada Hitoshi (Med., Otago Univ.)

- (7) The closing address

17:45 - 17:50

Lecturer

Nakamura Tetsuya (Eng., Shibaura Inst. Tech.)

Sociable:

18:00 - 20:00

At Restaurant Prior (1F)