

**Research Records**  
(Oct. 1959~Sept. 1960)

**1. Articles Published in Scientific Journals**

(a) In "Yakugaku Zasshi" (Journal of the Pharmaceutical Society of Japan)

**Kichitaro Takatori and Shingo Asano:** Thiocyanation of 2-Aminothiazoles. Syntheses of 2-Formamido- and 2-Ethoxycarbonylamino-5-thiocyanothiazoles.

In continuation of the preceding work, thiocyanation was carried out by the Kaufmann method on 2-formamido-, 2-formamido-4-methyl-, 2-ethoxycarbonylamino-, and 2-ethoxycarbonylamino-4-methyl-thiazoles, and four kinds of corresponding 5-thiocyano derivatives were prepared. Of these derivatives, 2-formamido-5-thiocyanothiazole had the best solubility in solvents and seemed hopeful as the antifungal agent. (80, 789 (1960)).

**Takachiyo Okuda:** Studies on Alkylation with Mannich Bases. VI. Mannich Reaction of Theophylline and Benzimidazole (80, 205 (1960)).

**Takachiyo Okuda:** Studies on Alkylation with Mannich Bases VII. Transaminomethylation of N-Mannich Bases of Theophylline and Benzimidazole with Indole. (80, 208 (1960)).

**Kazuo Ito:** Studies on the Alkaloids of Magnoliaceous Plants XXIV. Alkaloids of *Michelia compressa* Maxim. (1). (80, 705 (1960)).

(b) In "Chemical & Pharmaceutical Bulletin"

**Torizō Takahashi, Mixio Hori, and Akio Kambara:** Synthesis of Analgesics. XXV. Aminocyclohexane Derivatives. (11)

**Shigeo Tomomatsu and Ziro Kitamura:** Separation of 3-Chloro-4,6-dimethoxysalicylic Acid from the Urine of Rabbit Administered Griseofulvin. (8, 755 (1960)).

(c) In "The Journal of Hygienic Chemistry"

**Yōhi Ose, Taira Ikeda, Shōzō Morishita, Toku Kawaguchi, Shozi Wakai, Gorō Sugishita, and (Miss) Michiko Nakashima:** Fundamental Studies on Environs of Schools. V. (7, 29 (1959)).

**Yōki Ose, Sumi Nishiwaki, Shōzō Morishita, Kōzō Ikuta, Ryōichi Hayashi and Taira Ikeda:** Fundamental Studies on Environs of Schools. VI. (7, 32 (1959)).

**Yōki Ose, Sumi Nishiwaki, Shōzō Morishita, Kōzō Ikuta, Ryōichi Hayashi, Taira Ikeda, Nobuo Hino and Eiichi Shimizu:** Fundamental Studies on Environs of Schools. VII (7, 33 (1959)).

**Yōki Ose, Shōzō Morishita, Takehiko Ikuta, Sumi Nishiwaki, Zirō Usui and Toshikatsu Marui:** Fundamental Studies on Environs of Schools. VIII. (7, 35 (1959)).

**Yōki Ose, Taira Ikeda, Kazuo Hirose, Mitsugu Nakao, Shigemi Nakao, Shōzō Morishita, Zenji Andō, Toshikatsu Marui and Ariyuki Shiraki:** Fundamental Studies on Environs of Schools. X. (7, 144 (1959)).

**Yōki Ose, Taira Ikeda, Shōzō Morishita, Gorō Sugishita, and Kyōichi Ōno:** Fundamental Studies on Environs of Schools. XI. (7, 147 (1959)).

**Yōki Ose:** Fundamental Studies on Environs of Schools. XIII. (7, 149 (1959)).

(d) In "The Journal of Japanese Biochemical Society"

**Kazuo Hotta, Isao Ishiguro, (Miss) Zyunko Naito and Hiroshi Kuzuya:** Studies on the Kynurenine Content in the Hair of Rat(I). Influence of the Low Protein and Tryptophan Deficient Diet. (32, 28 (1960)).

**Kazuo Hotta, Isao Ishiguro, (Miss) Zyunko Naito and Hiroshi Kuzuya:** Studies on the Kynurenine Content in the Hair of Rat(II). Relation between kynurenine in the Hair and Tryptophan Metabolism.

(e) In "Vitamin"

**Kazuo Hotta, Isao Ishiguro and (Mrs) Kimi Tanaka:** Effect of the Over-Dose of Edible Pigments on the Riboflavin Content in the Internal Organ of Rat(II) Experiment on Xanthene Dyes. (19, 500 (1960)).

(f) In "Japanese Journal of Public Health"

**Yōki Ose:** Studies on Swimming Pool Sanitation. (7, 21 (1960)).

(g) In "The Journal of Home Economics"

**(Mrs) Fumiko Takai, Motoko Mori and Yōki Ose:** On the Calcium Supplementation of Cooked

Foods. (11, 135 (1960)).

(h) In "Yakkyoku no Ryōiki"

**Jinkichi Yoshida**: On the Retail Gross Margin

(i) In "Meijō Shōgaku" 9, (2)

**Jinkichi Yoshida**: On New Drug Development. (Nov. 1959).

## II Articles to be Published in Scientific Journals

(a) In "Yakugaku Zasshi (Journal of the Pharmaceutical Society of Japan)"

**Kazumi Toyoshi and Hisashi Murakami**: Studies on Organic Mercurials I. Mercuri Compounds of Theophylline Series.

**Kazumi Toyoshi and Hisashi Murakami**: Studies on Organic Mercurials. II. Mercuri Compounds of Theophylline Series.

**Kazumi Toyoshi**: Studies on Organic Mercurials. III. Synthesis of *p*-(N-( $\gamma$ -Acetoxymercuri- $\beta$ -methoxypropyl)-carbonyl)phenoxyacetic acid.

**Kazuo Ito**: Studies on the Alkaloids of Magnoliaceous Plants. XXVI. Alkaloids of *Michelia compressa* Maxim. (2) Structure of Micepressine

(b) In "Chemical & Pharmaceutical Bulletin"

**Torizo Takahashi, Mikiō Hori and Noriaki Tokai**: Synthesis of Analgesics. XXVIII. Aminocyclohexane Derivatives (12)

(c) In "The Journal of Hygienic Chemistry"

**Yōki Ose, Taira Ikeda, and Shin-ichi Ōoto**: Fundamental Studies on Environs of Schools III-2.

(d) In "Vitamin"

**Kazuo Hotta, Isao Ishiguro, (Miss) Zyunko Naito and (Mrs) Kimi Tanaka**: Studies on the Riboflavin Content and Phosphatase Activity of the Milk in Various Animals

**Kazuo Hotta, Isao Ishiguro and (Miss) Zyunko Naito**: Studies on the Separation of Three Forms of Riboflavin by Cramer's Method

(e) In "The Archives of Practical Pharmacy"

**Mamoru Sugiura, Hirokazu Makita, and (Miss) Sachiko Kurano**: Studies on the Effect of PAS on the Tryptophan Metabolism II. On the Excretion of the Tryptophan Metabolites by continuous Administration of PAS

## III Oral Reports in Scientific Society

(a) In the 13th Annual Meeting of "The Pharmaceutical Society of Japan" (Apr. 1960).

**Kichitarō Takatori, Isao Ishiguro, Singo Asano and Yasuzō Hiramatsu**: The Inhibition on the Liver Catalase of 3-Aminotriazol and its Analogues.

**Takeo Ohno and Itsuo Mori**: Studies on the Mercuric Compounds of Phthalein Derivatives. IV. Synthesis of Chlorofluoresceins and their Mercuric Compounds. (1).

**Shigeo Senda, and Hiroshi Izumi**: Syntheses of Aminotetraline Derivatives.

**Isao Ishiguro and (Miss) Zyunko Naitō**: Studies on the Tryptophan Metabolism III.

**Shōzō Morishita and Yōki Ose**: Fundamental Studies on Environs of Schools XIV.

**Yōki Ose, Taira Ikeda, and Shin-ichi Ōoto**: Fundamental Studies on Environs of Schools III-2.

(b) In the Annual Meeting of the Tokai Branch of the Pharmaceutical Society of Japan (Nov. 1959)

**Kazuo Hirose, and Shigeo Ukai**: The Reaction of Phenols with Arylsulfexides.

**Isao Ishiguro, (Miss) Zyunko Naitō and (Mrs) Kimi Tanaka**: Biochemical Studies of the Royal Jelly I.

**Mamoru Sugiura and Etsuko Tanaka**: Studies on the Fluorescent Substances in the Bile (I).

**Mitsugu Nakao, Shigemi Andō, Shōzō Morishita, Zenzi Andō, Kazuo Hirose, Yosi Ose, and Taira Ikeda**: Fundamental Studies on Environs of Schools X.

**Shōzō Morishita, Gorō Sugishita, Yōki Ose, Taira Ikeda, Nobuo Tanaka and Kyōichi Ōno**: Fundamental Studies on Environs of Schools XI.

**Kichisaburo Nishikawa, Gorō Sugishita, Zenzi Ando, Yōki Ose, Taira Ikeda, Ariyuki Shiraki, Keiki Sugiyama, Yoshio Mori, Tunezi Ōno, Nobuo Tanaka, Ginziro Muto and Kyoichi Ōno:** Fundamental Studies on Environs of Schools XII.

**Yōki Ose:** Fundamental Studies on Environs of Schools XIII.

**Kazuo Itō:** Studies on the Alkaloids of Magnoliaceous Plants XXVI. Alkaloids of *Michelia compressa* Maxim (2). Structure of Michepressine.

(c) In Ordinary Meeting of "The Tokai Branch of the Pharmaceutical Society of Japan"

**Takeshi Shimano, and (Miss) Kazuko Taki:** Studies on Triterpenoids. XIV. Triterpenes of Araliaceous plants. Components of the Barks of *Evodiopanax innoveus* Nakai, *Acanthopanax sciadophylloides* Franch et Sav. (May 1960).

**Kichitar Takatori, Isao Ishiguro, Shingo Asano, (Miss) Zyunko Naitō, and Yasuzi Hoir:** The Effect of 3-Aminotriazol for the Tyrosine and Tryptophan Metabolism of the Rat (Dec. 1959).

**Yoshio Kato and (Miss) Hiroko Kamiyama:** Pharmaceutical Studies on the Digestive Ferments (3). On the Activity and Stability of Pepsin (May 1960).

**Shigeo Senda and Hiroshi Izumi:** Studies on Ivanov Reaction (Dec. 1959).

**Isao Ishiguro, (Miss) Zyunko Naitō and, (Miss) Kiyoko Tanaka:** Biochemical Studies of the Royal Jelly (II) (Dec. 1959).

**Isao Ishiguro, (Miss) Zyunko Naitō and (Miss) Kiyoko Tanaka:** Biochemical Studies of the Royal Jelly (III) (Jan. 1960).

**Isao Ishiguro, (Miss) Zyunko Naitō and Yoshihiro Okada:** Biochemical Studies of the Royal Jelly (IV) (July 1960).

**Isao Ishiguro and (Miss) Zyunko Naitō:** Studies on the Method of Determination of Kynurenine in the Hair of Rat (July 1960).

**Torizo Takahashi, Mikio Hori and Noriaki Tōkai:** Synthesis of Analgesics. XXVIII. Aminocyclohexane Derivatives (12) (Dec. 1959).

**Mikio Hori, Tetsuo Tomita, Noriyuki Morikawa, Tatsuo Sakai and (Miss) Miwako Mitsuno:** Aminocyclohexane Derivatives (13) (Synthesis of Analgesics by Torizo Takahashi. XXXIII) (July 1960).

**Mikio Hori, Atsumi Yamamoto, Tetsuo Tomita, Hajime Fujimura and Yutaka Yamakawa:** Synthesis of Phenanthrene Derivatives (July 1960).

**Yōki Ose and Taira Ikeda:** On the Metabolic Products of Muscardin of Silkworm II (Dec. 1959).

(d)

**Kazuo Hotta, Isao Ishiguro and (Miss) Zyunko Naitō:** The Effect of the Riboflavin on the Tryptophan Metabolism (May 1960).

(e)

**Kichitarō Takatori, Isao Ishiguro, Shingo Asano, (Miss) Zyunko Naitō, Yasuzi Hori and (Miss) Masako Kubo:** The Metabolism of Tyrosine and Tryptophan of DAB-Fed Rats (Nov. 1959).

**Kazuo Hotta, Isao Ishiguro and (Miss) Zyunko Naitō:** The Tryptophan Metabolism and Kynurenine in the Hair of Rat.

(f) In the 6th Annual Meeting of "The Tokai Public Health Association (June 1960).

**Yōki Ose, Taira Ikeda, Shōzō Morishita and Sumi Nishiwaki:** Supplement to the Studies on Swimming Pool Sanitation I (June 1960).

(g)

**Kazuo Hotta, Isao Ishiguro, (Miss) Zyunko Naito and (Mrs) Kimi Tanaka:** Studies on the Riboflavin Content and Phosphatase Activity of the Milk of Various Animals. (May 1960).