

THE KONDO LABORATORY

Head: Prof. Dr. Kinsuke Kondo

In this laboratory the research is carried on in the following three categories:

- (1) Chemistry of Proteins.
- (2) Studies on the Biocatalysis.
- (3) Chemistry of Food.

The works made in these three categories have been published in the Bulletin of our institute and the Journal of the Agricultural Chemical Society of Japan.

Forty six papers issued during 1925-1935 are classified and summarized in the decennial memorial publication of our institute.

The works studied since 1936 have been published under the following fifty five titles.

1. Studies on the Egg-Albumin of the Logger-Head Turtle.

By Kinsuke Kondo.

Compt. rend. du Lab. Carlsberg, 22, 275 (1938).

2. On the Fractionation of Protein of Soy-bean.

By K. Kondo, S. Hayashi and S. Morishige.

Journ. Agr. Chem. Soc. Japan, 15, 727 (1939).

3. Studies on the Absorption Spectra of the Vitellin of the Logger-Head Turtle.

By K. Kondo and S. Morishige.

Ibid., 15, 739 (1939).

4. Studies on the Absorption Spectra of the Wheat-Glutenin.

By K. Kondo and H. Mitsuda:

Ibid., 16, 159 (1940).

5. On the Carbohydrate in the Wheat-Gliadin.

By K. Kondo and U. Sarada.

Ibid., 15, 163 (1939).

6. On the Carbohydrate in the Meat-Protein of the Crab and Lobster.

By K. Kondo and U. Sarada.

Ibid., 16, 227 (1940).

7. Studies on the Absorption Spectra of the Vitellins of Hen and Quail.

By K. Kondo, S. Shinano and H. Mitsuda.

Ibid., 16, 233 (1940).

8. On the Carbohydrate in the Hen's Egg-Vitellin.

By K. Kondo and U. Sarada.

Ibid., 16, 271 (1940).

9. On the Chemical Composition of the Meat of Four Forms of Shark.

By K. Kondo, S. Shinano and K. Yamamoto.

Ibid., 17, 870 (1941).

10. Studies on the Solubility of the Shark's Meat-Protein.

By K. Kondo and Y. Yamamoto.

Ibid., 17, 901 (1941).

11. On the Fractionation of the Shark's Meat-Protein.

By K. Kondo, T. Hata and S. Kimura.

Ibid., 17, 1095 (1941).

12. Studies on the Isoelectric Behavior and Absorption Spectra of the Shark's Meat-Protein.

By K. Kondo and T. Hata.

Ibid., 18, 1 (1942).

13. Studies on the Fractionation and Absorption Spectra of the Shark's Meat-Protein.

By Hisateru Mitsuda.

Bull. Inst. Chem. Res., Kyoto Univ., 11, 167 (1941).

14. A Determining Method of the SH-Group in the Protein.

By Shigeki Mori.

Ibid., 12, 123 (1941).

15. On the Chemical Form of Sulfur in the Protein of Soy-bean.

By Shigeki Mori.

Ibid., 18, 151 (1942).

16. On the Denaturation of the Protein of the Extracted Soy-bean during Storage.

By S. Mori.

Journ. Agr. Chem. Soc. Japan, 17, 875, 944 (1941); 19, 732 (1943).

17. On the Denaturation of the Protein of the Extracted Soy-bean.

By S. Mori.

Ibid., 19, 950 (1943), 20, 111 (1943).

18. On the Chemical Form of Sulfur in the Globulin of Cereal-Seed.

By S. Mori.

Ibid., 20, 179 (1944).

19. On the Denaturation of the Globulin of the Cereal-Seed.

By S. Mori.

Ibid., 20, 265 (1943).

20. On the Denaturation of the Meat-Protein.
By S. Mori.
Ibid., 20, 315 (1943).
21. On the Isolation of Lanthionine from the Horse's Hoof.
By Hiromu Shimomura.
Bull. Inst. Chem. Res., Kyoto Univ., 17, 81 (1949).
22. On the Composition of the Cauliflower and Vitamins in the Flowers of Cherry and Rape.
By S. Shinano and M. Morimoto.
Ibid., 9, 44 (1939).
23. On the Vitamin C Content in Various Flowers and Leaves.
By Hisateru Mitsuda.
Ibid., 9, 57 (1939).
Journ. Agr. Chem. Soc. Japan, 14, 1228 (1938).
24. On the Variation of the Vitamin C Content in Some Fruits.
By Hisateru Mitsuda.
Journ. Agr., Chem. Soc., 14, 1335 (1938).
25. On the L-Ascorbic Acid Oxidase.
By Hisateru Mitsuda.
Ibid., 14, 1485 (1938).
26. On the Isolation of L-Ascorbic Acid.
By Hisateru Mitsuda.
Ibid., 16, 493 (1940).
27. On the Relation between L-Ascorbic Acid and Thiamine (Part 1 and 2.)
By Kichinosuke Fujimura.
Bull. Inst. Chem. Res., Kyoto Univ., 12, 137 (1941); Journ. Agr. Chem. Soc., 18, 209 (1942).
28. On the Relation between L-Ascorbic Acid and Vitamin A.
By K. Fujimura.
Part 1. *Ibid.*, 18, 325 (1942).
Part 2. *ibid.*, 18, 419 (1942).
29. The Actions of Ergosterol and Cholesterol on the Natural Oxidation of L-Ascorbic Acid.
By K. Fujimura.
Ibid., 19, 783 (1943).
30. The Action of Vitamin D₂ on the Natural Oxidation of L-Ascorbic Acid.
By K. Fujimura.
Ibid., 19, 823 (1943).

31. On the Taste-stuff of Kaki-Fruit

By **S. Mori** and **M. Kajima**.
Bull. Inst. Chem. Res., Kyoto Univ., **16**, 17 (1948).

32. On the Cu, Mn and Zn in Some Vegetables.

By **K. Kondo** and **S. Mori**.
Ibid., **17**, 78 (1949).

33. On the Germination of Soy-bean and Transition of Fe, Cu, Zn and Mn.

By **K. Kondo** and **S. Mori**.
Ibid., **17**, 80 (1949).

34. Zinc as Bio-Catalyst.

By **S. Mori**.
Ibid., **18**, 5 (1949).

35. On the Zinc Containing Enzyme of Plants.

By **K. Kondo**, **S. Mori** and **F. Kawai**.
Ibid., **18**, 33 (1949).

36. A Study on the Natural Removing Astringency of Kaki-Fruit.

By **K. Kondo**, **S. Mori** and **S. Suzuki**.
Ibid., **18**, 35 (1949).

37. On the Knowledge of Vitamin C.

By **Hisateru Mitsuda**.
Ibid., **19**, 11 (1949).

38. On the Composition of Trace Metals in the Green Leaves.

By **K. Kondo**, **S. Mori** and **K. Kajima**.
Ibid., **19**, 66 (1949).

39. On the Carbonic Anhydrase in the Seaweeds.

By **K. Kondo**, **S. Mori** and **F. Kawai**.
Ibid., **19**, 68 (1949).

40. On the Carbonic Anhydrase of Plant.

By **K. Kondo**, **S. Mori** and **F. Kawai**.
Ibid., **19**, 69 (1949).

41. On the Trace Metals in Green Leaves.

By **S. Mori**.
Ibid., **20**, 16 (1950).

42. On the Absorption of Carbon Dioxide by Plant.

By **K. Kondo**, **S. Mori** and **F. Kawai**.
Ibid., **21**, 75 (1950).

43. **On the Trace Metals in Chloroplasts.**
By K. Kondo, S. Mori and M. Kajima.
Ibid., 21, 76 (1950).
44. **Boron in Seaweeds.**
By K. Kondo, S. Mori and F. Kawai.
Ibid., 22, 97 (1950).
45. **Boron in Some Animal Products.**
By K. Kondo, S. Mori and M. Kajima.
Ibid., 22, 97 (1950).
46. **On the Distribution of Chemical Form of Boron in Plant-body.**
By K. Kondo and S. Mori.
Ibid., 22 98 (1950).
47. **Studies on the Optimum Temperature of Catalase-activity.**
By K. Kondo, H. Mitsuda and F. Kawai.
Ibid., (1951) in press.
48. **Studies on Synthesis of Vitamin B₁ in the Leaves of Cereal Crops.**
By K. Kondo, H. Mitsuda and K. Iwai.
Journ. Agr. Chem. Soc. Japan, 24, 128 (1951).
49. **On the Composition of Meat of Sepiella maindroni.**
By Yasu Hatakoshi.
Ibid., 14, 1413 (1938).
50. **On the Composition of Meat of Sepia esculenta, Sepiotenthis lessoniana and Leoligo bleekeri and the Fractionation of the Meat-Protein of Sepia esculenta.**
By Yasu Hatakoshi.
Ibid., 1493 (1938).
51. **On the Occurrence of Threonine in the Meat-Protein of Various Aquatic Animals.**
By Yasu Hatakoshi.
Ibid., 17, 641 (1941).
52. **On the Chemical Composition of the Minerals in the Meat and Liver of the Cuttlefish and Carbohydrase in the Liver.**
By Yasu Hatakoshi.
Ibid., 17, 101 (1941).
53. **Composition of the Oil-Foots of Soy-bean Oil.**
By Shigeki Mori.
Ibid., 14, 1404 (1937).

54. On the Determination of Sterol.

By **Shigeki Mori.**

Bull. Inst. Chem. Res., Kyoto Univ., **9**, 34 (1934).

55. The Content of Sterol in Soy-bean and its Oil-Foots

By **Shigeki Mori.**

Ibid., Chem. **9**, 40 (1934).