



# The 7<sup>th</sup> International Symposium on Fish Endocrinology is honored to recognize the life-time achievement of **Professor Hiroshi Kawauchi**

of

**Kitasato University, Japan**



北里大学  
KITASATO UNIVERSITY



*Hiroshi is widely known and respected not only for his scholarship but for his outstanding mentorship of many scientists. There are many scientists from around the world that have benefited from Hiroshi's generous collaborations, his vision and his identification of so many hormones from so many species of invertebrates and vertebrates. Hiroshi is also a person with an incredible personality; his collaborations and friendships were numerous due to his compassion and generous nature. He opened his laboratory to many visiting scientists from around the world and generously provided guidance and wisdom to all of them. Moreover, it is fair to say that his laboratory in Japan served as kind of an incubator for a whole generation of coming of age scientists from all over the world who came to Japan to study the state of the art and modern contemporary techniques of protein chemistry and hormone sequencing. Hiroshi's incredible personality, always engaging, friendly, compassionate and generous, transformed many of his formal collaborations into long-lasting friendships.*

*Nominated by: Stacia Sower, Yoshio Takei, Akiyoshi Takahashi, Shunsuke Moriyama, Robert Does, Ryno Naude, Mark Sheridan, Harold Papkoff, Erika Plisetskaya and Jean Joss*

## Highlights and Achievements

### Discoverer of Dual Gonadotropins in Fish (1988)

Isolation and characterization of two distinct gonadotropins from chum salmon pituitary glands.

Suzuki K, Kawauchi H, Nagahama Y.

Gen Comp Endocrinol. 1988 Aug;71(2):292-301

**Molecular cloning and sequence analysis of chum salmon gonadotropin cDNAs.**

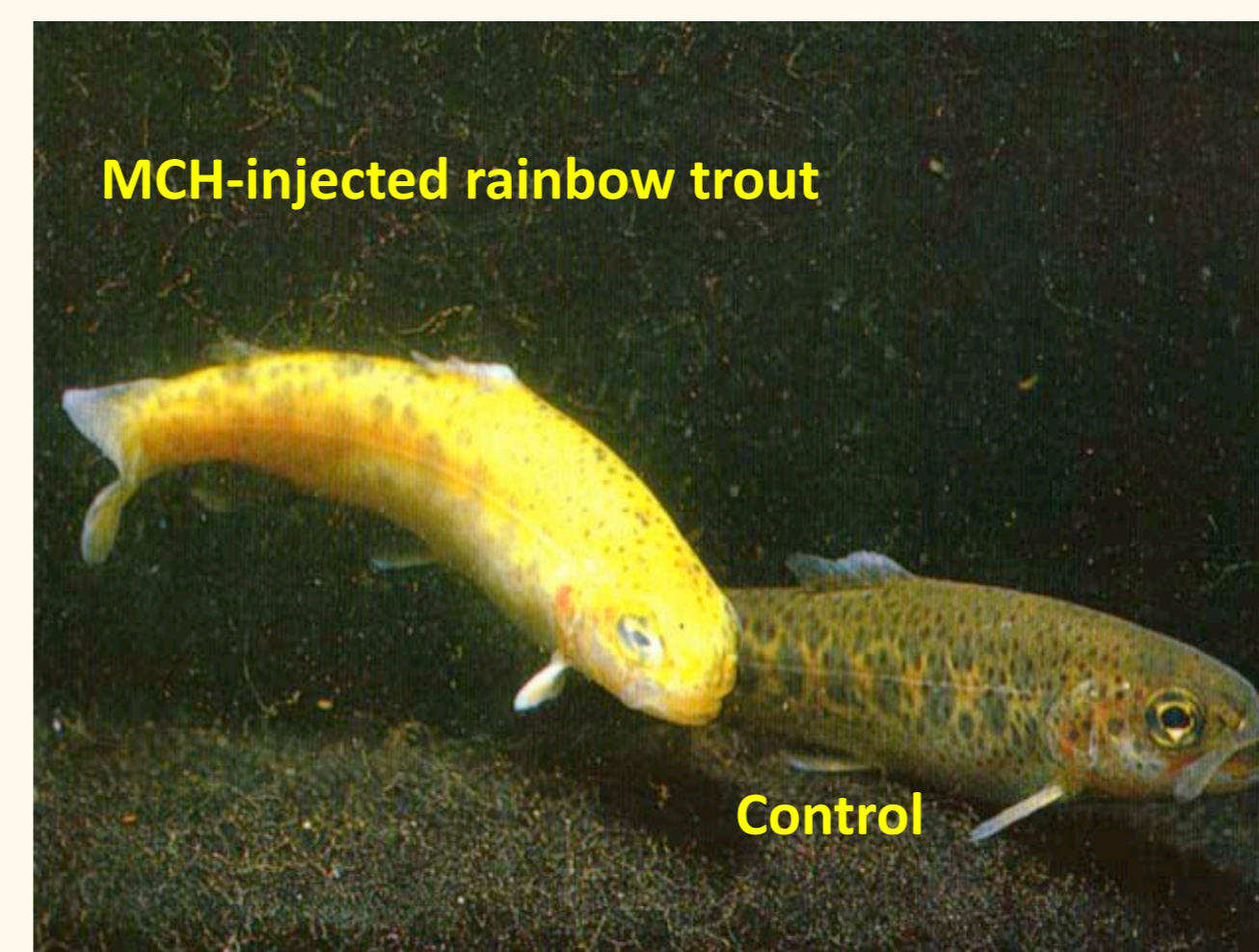
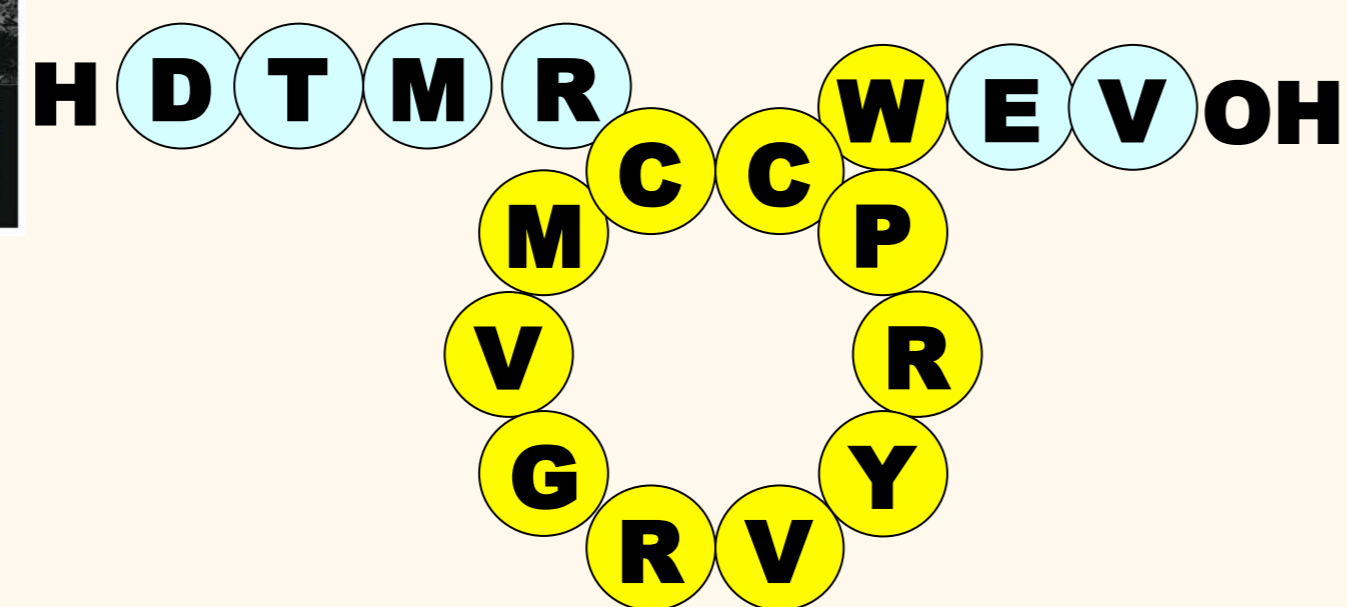
Sekine S, Saito A, Itoh H, Kawauchi H, Itoh S.

Proc Natl Acad Sci U S A. 1989 Nov;86(22):8645-9.

**315 published papers on fish GTH**

### Discoverer of MCH (1983)

Structure of salmon MCH



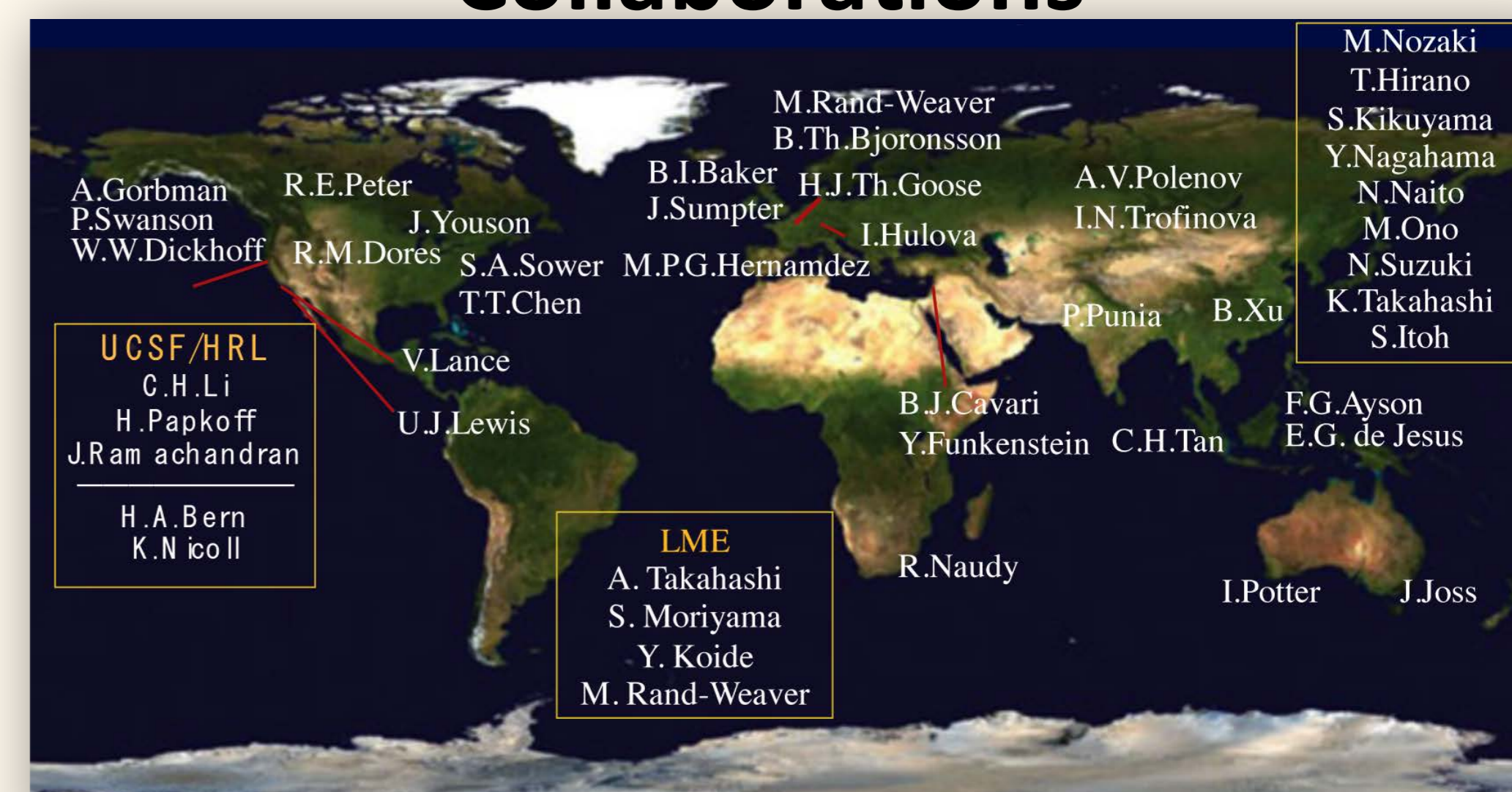
Characterization of melanin-concentrating hormone in chum salmon pituitaries.

Kawauchi H, Kawazoe I, Tsubokawa M, Kishida M, Baker BL.

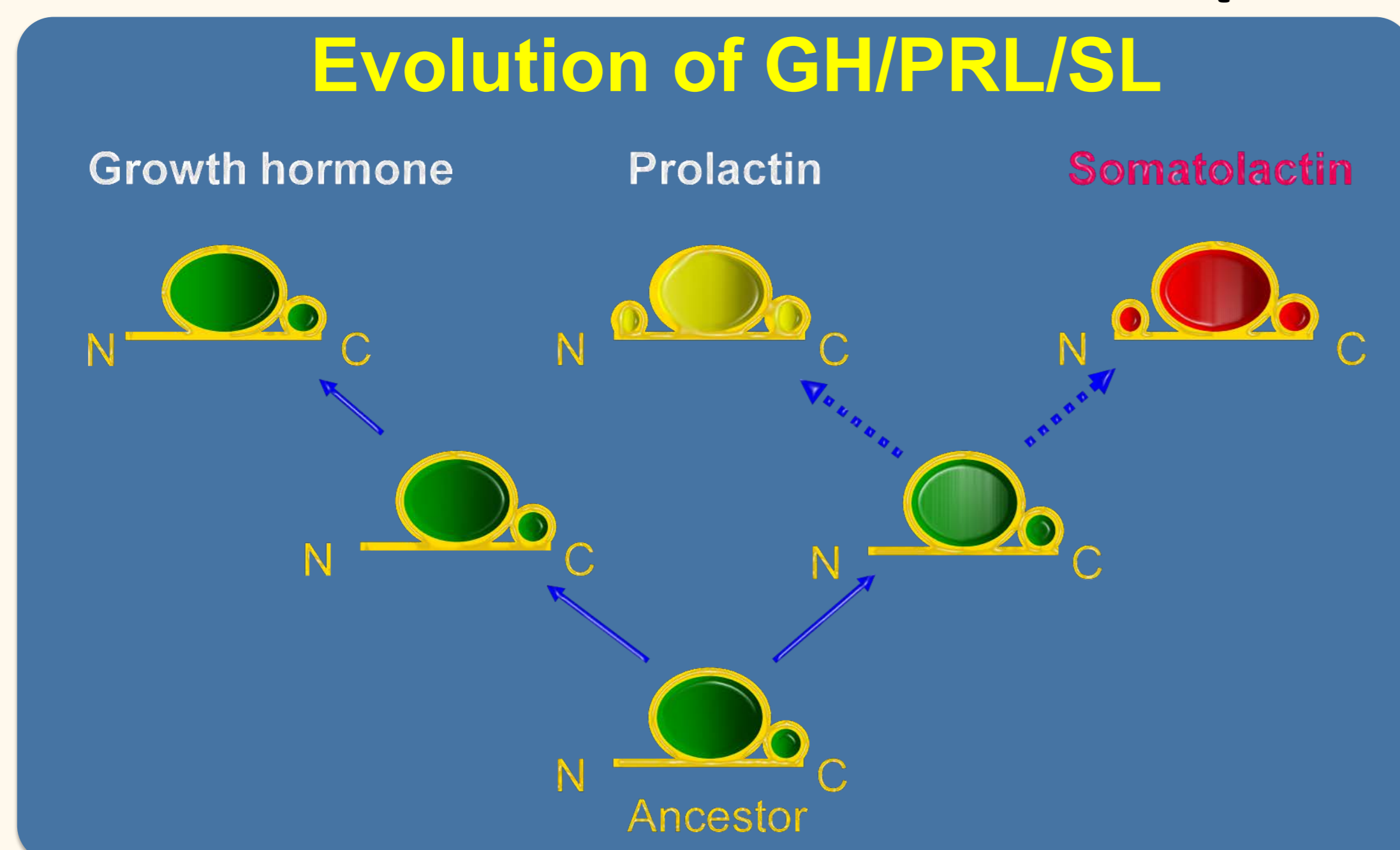
Nature. 1983 Sep 22-28;305(5932):321-3.

**4443 published papers on MCH**

## International Collaborations



### Discoverer of Somatolactin (1990)



**cDNA cloning of somatolactin, a pituitary protein related to growth hormone and prolactin.**

Ono M, Takayama Y, Rand-Weaver M, Sakata S, Yasunaga T, Noso T, Kawauchi H.  
Proc Natl Acad Sci U S A. 1990 Jun;87(11):4330-4.

**Isolation and characterization of somatolactin, a new protein related to growth hormone and prolactin from Atlantic cod (Gadus morhua) pituitary glands.**

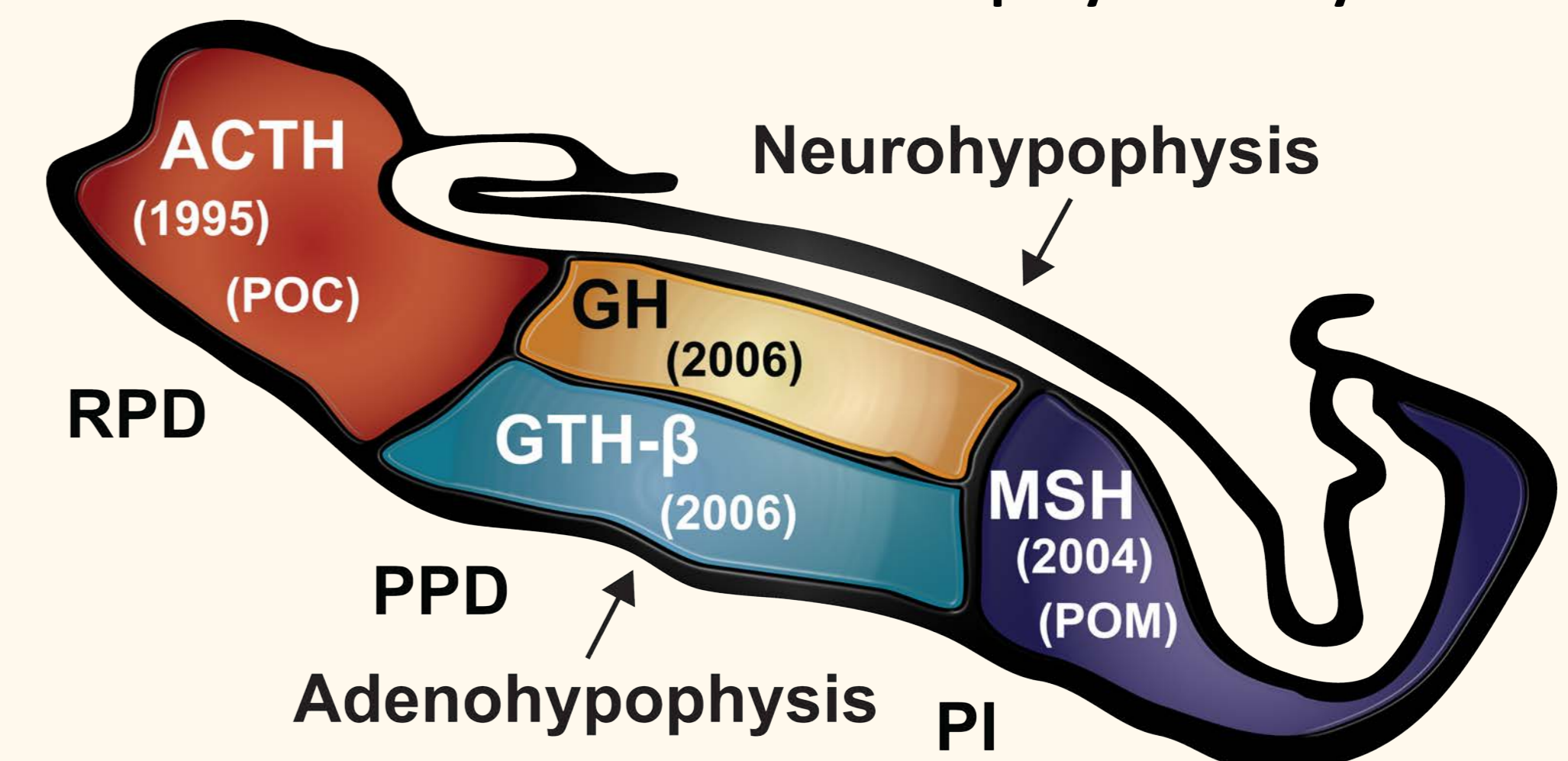
Rand-Weaver M, Noso T, Muramoto K, Kawauchi H.

Biochemistry. 1991 Feb 12;30(6):1509-15.

**180 published papers on somatolactin**

## Additional Outstanding Achievements

Identified Hormones of the Lamprey Pituitary



With collaborators, discoverer of the lamprey pituitary hormones 1995-2006

Recipient of the Medal with Purple Ribbon from the Government of Japan for outstanding achievement in innovation, improvement or creation in the arts and sciences presented by the Emperor of Japan to HK in 2005

Characterization of POMC from sea lamprey and ostrich

Discoverer of Ghrelin from the rainbow trout in 2003

Kitasato Shibasaburo Award 1988

Bargmann Lecture of the XII International Congress of Comparative Endocrinology 2002

The Yoshimura Award 2002

Published more than 234 peer-reviewed publications

Invited speaker and keynote speaker at more than 40 national and international conferences