e-ISSN 2371-770X

Modern Medical Laboratory Journal

DOI:10.30699/mmlj17.4.2.16

Memorial of Professor Kazuyoshi Tsutsui (1952-2021): His Effective Role in Reproductive Neurophysiology Research in Iran

Amin Tamadon^{1,*}, Mohammad Reza Jafarzadeh Shirazi², Mohammad Reza Namavar^{3,4,5}, Mohammad Saeid Salehi⁵

- 1. The Persian Gulf Marine Biotechnology Research Center, The Persian Gulf Biomedical Sciences Research Institute, Bushehr University of Medical Sciences, Bushehr, Iran
- 2. Department of Animal Science, College of Agriculture, Shiraz University, Shiraz, Iran
- 3. Department of Anatomical Sciences, School of Medicine, Shiraz University of Medical Sciences, Shiraz, Iran
- 4. Histomorphometry & Stereology Research Centre, Shiraz University of Medical Sciences, Shiraz, Iran
- 5. Clinical Neurology Research Center, Shiraz University of Medical Sciences, Shiraz, Iran

Article Info	Corresponding Information: Amin Tamadon, The Persian Gulf Marine Biotechnology Research
Received 2021/11/01;	Center, The Persian Gulf Biomedical Sciences Research Institute,
	Bushehr University of Medical Sciences, Bushehr, Iran; Postal Code:
Accepted 2021/11/06;	7514633196; Tel/fax: +98-77-3332-8724; Email:
Published Online 2021	amintamaddon@yahoo.com



Copyright © 2021. This is an open-access article distributed under the terms of the Creative Commons Attribution-noncommercial 4.0 International License which permits copy and redistribute the material just in noncommercial usages, provided the original work is properly cited.

Abbreviations

GnIH, Gonadotropin-inhibiting hormone; RFRP, RFamide-related peptide

Dear Editor:

Professor Kazuyoshi Tsutsui (Figure 1), a specialist in reproductive neurophysiology, was born on September 30, 1952, in Hiroshima, Japan. He died on September 16, 2021 at the age of 68 (1, 2). He received his Ph.D. in Biology from Waseda University, Tokyo, Japan in 1981. His research was mainly on the neurophysiology of reproduction in birds and mammals. In 2000, Professor Tsutsui discovered gonadotropin-inhibiting hormone (GnIH) in quail brain and demonstrated its inhibitory effect on gonadotropin release from the pituitary gland (3).

Professor Tsutsui began his scientific collaboration with Iranian researchers at Shiraz University and Shiraz University of Medical Sciences in 2010. With the beginning of researches by several Iranian researchers on brain neuropeptides, this prestigious scientist accompanied these researchers with all his might with his material and spiritual support. Despite Western biotechnology sanctions on Iran, Professor Tsutsui did not delay his scientific support and supervision of Iranian neuroscientists until a month before pathing away, focusing on prioritizing the development of knowledge and neuroscience in Iran. His research, which has supported Iranian researchers and has been published so far, includes the study of the role of RFRP or GnIH neuropeptide in reproductive activities of rat (4), goat (5), partridge (6, 7), and turkey (8). Also reviewed articles were written under his supervision, including evaluation of the role of RFRP in reproduction (9), the role of 3D imaging in biological studies (unpublished data).

Declarations

Acknowledgments Not applicable.

Funding

Not applicable.

Conflicts of interest Not applicable.

Authors' Contributions

All authors made a substantial contribution to conceiving and designing the format of the manuscript.



Figure 1. Professor Kazuyoshi Tsutsui (1952-2021)

References

- 1. Ubuka T, Ukena K. Obituary of Professor Kazuyoshi Tsutsui. Neuroendocrinology. 2021.
- 2. Tsutsui K. In memorium of Professor Kazuyoshi Tsutsui. General and Comparative Endocrinology. 2021:113929.
- 3. Tsutsui K, Ubuka T. Discovery of gonadotropin-inhibitory hormone (GnIH), progress in GnIH research on reproductive physiology and behavior and perspective of GnIH research on neuroendocrine regulation of reproduction. Molecular and Cellular Endocrinology. 2020;514:110914.
- 4. Jafarzadeh Shirazi MR, Pazoohi F, Zamiri MJ, Salehi MS, Namavar MR, Tamadon A, et al. Expression of RFamide-related peptide in the dorsomedial nucleus of hypothalamus during the estrous cycle of rats. Physiology and Pharmacology. 2013;17(1):72-9.
- 5. Jafarzadeh Shirazi M, Zamiri M, Salehi M, Moradi S, Tamadon A, Namavar M, et al. Differential Expression of RF amide-Related Peptide, a Mammalian Gonadotrophin-Inhibitory Hormone Orthologue, and Kisspeptin in the Hypothalamus of Abadeh Ecotype Does During Breeding and Anoestrous Seasons. Journal of neuroendocrinology. 2014;26(3):186-94.

- 6. Rezazadeh FM, Shirazi MRJ, Zamiri MJ, Salehi MS, Namavar MR, Akhlaghi A, et al. Seasonal changes in hypothalamic gonadotropin inhibitory hormone expression in the paraventricular nucleus of chukar partridge (Alectoris chukar). Animal Reproduction (AR). 2018;14(2):452-8.
- 7. Mohammad Rezazadeh F, Saedi S, Rahmanifar F, Namavar MR, Dianatpour M, Tanideh N, et al. Fast free of acrylamide clearing tissue (FACT) for clearing, immunolabelling and three-dimensional imaging of partridge tissues. Microscopy research and technique. 2018;81(12):1374-82.
- 8. Manoochehri R, Shirazi MJ, Akhlaghi A, Tsutsui K, Namavar M, Zamiri M, et al. The localization and expression of gonadotropin inhibitory hormone in the hypothalamus of turkey hens during the prepubertal, pubertal and postpubertal phases. Domestic Animal Endocrinology. 2021;74:106486.
- 9. Wang H, Khoradmehr A, Jalali M, Salehi MS, Tsutsui K, Shirazi MRJ, et al. The roles of RFamiderelated peptides (RFRPs), mammalian gonadotropininhibitory hormone (GnIH) orthologues in female reproduction. Iranian journal of basic medical sciences. 2018;21(12):1210.

How to cite this article: Tamadon A, Jafarzadeh Shirazi MR, Namavari MR, Salehi MS. Memorial of Professor Kazuyoshi Tsutsui (1952-2021): His Effective Role in Reproductive Neurophysiology Research in Iran. Mod Med Lab J. 2021;4(2):16-18