

Personal information

Name: Atsushi Tanaka, M.D. Ph.D.
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BIRTHDATE: December 22, 1949
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Education

1970 – 1976 Juntendo University School of medicine, Tokyo
Degree: M.D.
1978 – 1982 Juntendo University Graduate School of Medicine
Degree: Ph. D. in Medicine

Professional experience

1983 – 1989 Koshigaya city hospital, Chief Doctor of Obstetrics and Gynecology
1990 – Present Saint Mother Hospital, Director
2011 – 2015 Juntendo University Hospital, Visiting Associate Professor of Obstetrics and Gynecology
2016 – Present Juntendo University Hospital, Visiting Professor of Obstetrics and Gynecology

Honors

1981 Board Certified Cytodiagnosis by Japanese Society of Clinical Cytology (JSCC)
1984 Certified Professional Necropsy
1986 Councilor of Japan Society of Fertilization and Implantation
1987 Board Certified Obstetrician and Gynecologist by Japan Society of Obstetrics and Gynecology
1990 Board Certified Herb Doctor by Japan Society for Oriental Medicine
1991 Councilor of the Japan Society for Reproductive Medicine
1991 Councilor of the Japanese Society of Mammalian Ova Research
1992 Board Certified Ultrasound in Obstetrics and Gynecology by Japan Society of Ultrasonics in Medicine
1998 – 2000 Expert member of scientific committee, Ministry of Health, labor and Welfare

2002	Managing Director of Japan Society of Fertilization and Implantation
2003	Board Certified clinical genetics of Japan Society of Human Genetics
2005	Board Certified Reproductive medicine Doctor by Japan Society for Reproductive Medicine
2006	Vice President of Japan Society of Fertilization and Implantation
2009	President of Japanese Institution for Standardizing Assisted Reproductive Technology
2010	Japan Ministry of Health, Labour and Welfare scientific research
2011	Juntendo University Hospital, Visiting Associate Professor of Obstetrics and Gynecology
2011	Global Fertility Academy (GFA) Steering Committee Member
2012	Representative of Japan Society for Reproductive Medicine
2015	Board Certified Obstetrician and Gynecologist medical instructor by Japan Society of Obstetrics and Gynecology
2016	Juntendo University Hospital, Visiting Professor of Obstetrics and Gynecology
2016	ASPIRE Board Members
2017	Representative of Japan Society of Clinical Genetics in Obstetrics and Gynecology
2018	Certified Embryologist in Assisted Reproductive Technology Management by the Japanese Society for Ova Research
2019	Councilor of Japan Society of Human Genetics
2020	Japan Society of Gynecologic and Obstetric Endoscopy and Minimally Invasive Therapy Endoscopic surgical skill qualification system: qualified gynecologist
2021	Board Certified Trainer of Japan Society of Human Genetics
2024	Distinguished Service Member of the Japanese Society for Ova Research.

Awards

2011	Special Award at 16th World Congress on In Vitro Fertilization 2011
2013	World Congress on In Vitro Fertilization Special Award at JSFI 2013
2014	Academic Incentive Award at JSOR 2014
2015	Distinguished Service Award at JSRM
2015	STAR AWARD of ASRM 1

2016	STAR AWARD of ASRM 2
2017	BEST ORAL ABSTRACT Award at ASPIRE 2017
2017	STAR AWARD of ASRM 3
2018	Outstanding Oral Presentation Award at ASPIRE
2018	Medical Achievement Award for 2018 from Bonei Olam
2018	STAR AWARD of ASRM 4
2019	STAR AWARD of ASRM 5
2020	STAR AWARD of ASRM 6
2021	STAR AWARD of ASRM 7
2022	STAR AWARD of ASRM 8
2023	STAR AWARD of ASRM 9
2024	STAR AWARD of ASRM 10

Biography

Dr. Atsushi Tanaka is the director of Saint Mother Hospital, located in Kita-Kyushu City, Japan, and a Visiting Professor of Obstetrics and Gynecology at Juntendo University in Tokyo. He earned his postgraduate degree from the Department of Obstetrics and Gynecology at Juntendo University in 1983. In 1985, he reported Japan's first successful GIFT procedure. He founded Saint Mother Hospital in 1990, which has since become one of Japan's premier fertility clinics, conducting 5,000 ART cycles annually. In 1992, he reported the first successful case of microfertilization in Japan. His manuscripts on ROSI, published in PNAS in 2015 and Fertility and Sterility in 2018, describe over 500 successful ROSI cases. He is currently developing a new technique to improve the clinical outcomes of ROSI. With a long-standing interest in the scientific aspects of reproductive medicine, biology, and spermatogenesis, he served as an expert member of the Scientific Committee at the Ministry of Health, Labor and Welfare of Japan from 1998 to 2000. He has been a vice president of the Japan Society of Fertilization and Implantation and chaired the society's annual congress from 2008 to 2022. He served as president of the Japanese Institution for Standardizing Assisted Reproductive Technology from 2009 to 2011 and as a councilor of the Japan Society for Reproductive Medicine and the Japanese Society of Mammalian Ova Research. He has won the ASRM STAR Award annually from 2015 to 2023 and joined the ASPIRE board in April 2016. In 2018, he received the Medical Achievement Award from Bonei Olam in New York City. His current research focuses on treatments to rescue aged oocytes or ovaries. He has also developed a new controlled ovarian stimulation method for PCOS that avoids OHSS and yields high-quality oocytes.

Manuscripts

【Original paper】

1. Tanaka A: An Immunohistochemical Study in Conjunction with the Enzyme Labelled Antibody Method to Discern the Relevancy between the Localization of hCG, hPL and the Functions of the Normal and Malignant Trophoblast., *Acta Obst Gynaec Jpn.*, 34, 579-588, 1982.
2. Tanaka A: Comparative Study of Human Yolk Sac by Ultrasonography and Pathological Findings., *Jpn J Med Ultrasonics.*, 12(3), 222-226, 1985
3. Nakagata N, Tanaka A: Birth following the intrafallopian transfer of mouse preovulatory oocyte and epididymal spermatozoa., *Jpn. J. Fertil. Steril.*, 31, 404, 1986.
4. Nakagata N, Tanaka A: Effect of Preincubation on Development of Preovulatory Oocytes to Normal Young in Mice., *Jpn. J. Fertil. Steril.*, 33(2), 415-418, 1988.
5. Tanaka A, Toeda M, Nagasawa I, Yamamoto T, Nakagata N: Development of Gamete Intrafallopian Transfer with Preincubated Preovulatory Oocytes (New GIFT) and Analysis of Clinical Data., *Acta Obst Gynaec Jpn.*, 40(12), 1859-1866, 1988.
6. Tanaka A: A new sperm collection method for in-vitro fertilization:collection at tail of epididymy. *Hum Repro.*, 7, 838-840, 1992.
7. Awata S, Tanaka A, et al: Clinical Evaluation of Insensinization of Zona-Free Oocytes for Severe Male Infertility., *J. Fertil. Implant.*, 1993.
8. Tanaka A, Nagayoshi M, Shiomi H, Awata S, Tanaka I, Takemoto Y, Takano K, Takasaki H, Ide N: Clinical Evaluation of Epididymal Sperm Collection for Severe Male Infertility, Perspectives on assisted reproduction, *Serono symposia*, 315, 1994.
9. Tanaka I, Tanaka A, et al: Simple Injection Method for the Acrosome Reaction for Human Spermatozoa Preincubated in Medium Containing Only NaCl, CaCl₂, and NaHCO₃ in a Sealed Glass Tube at 40°C., *J. Fertil. Implant.*, 11, 54, 1994.
10. Tanaka A, Tanaka I, Nagayoshi M, Awata S, Mawatari Y, Kusunoki H: Comparative study of embryonic development of human oocytes injected with fresh round spermatid and injected with in vitro cultured round spermatid with flagella., *Proceedings of the 10th World congress of in Vitro Fertilization and Assisted Reproduction*, 705, 1997.
11. Tanaka A, Tanaka I, Nagayoshi M, Awata S, Mawatari Y: Usefulness of Cryopreserved Spermatid Injection into Electrically Stimulated Oocytes ., *Proceedings of the 11th World congress of in Vitro Fertilization and*

Assisted Reproduction, 101, 1999.

12. Tanaka A, Tanaka I, Nagayoshi M, Awata S, Mawatari Y, Kusunoki H: FISH Analysis on Human Spermatogenic Cells in Patients Diagnosed as Sertori Cell Only Histologically., Proceedings of the 11th World congress of in Vitro Fertilization and Assisted Reproduction, 327, 1999.
13. Tanaka A, Nagayoshi M, Awata S: A New approach to Preimplantation Genetic Diagnosis in Embryos from a Patient with Habitual Abortions Caused by Chromosomal Abnormalities by Using the Condensed Chromosome in the Metaphase., *Acta Obst Gynaec Jpn.*, 52(1), 29-31, 2000.
14. Tanaka A, Nagayoshi M, Awata S, Tanaka I, Kusunoki H: Completion of meiosis in human primary spermatocytes through in vitro coculture with Vero cells., *Fertil. Steril.*, 79, 795-801, 2003.
15. Tanaka A, Nagayoshi M, Awata S, Himeno N, Tanaka I, Kusunoki H: Preimplantation diagnosis of repeated miscarriage due to chromosomal translocations using metaphase chromosomes of a blastomere biopsied from 4- to 6-cell-stage embryo., *Fertil. Steril.*, 81, 30-34, 2004.
16. Tanaka A, Nagayoshi M, Awata S, Himeno N, Tanaka I, Kusunoki H: Isolated spermatogonia protrude active pseudopodia in vitro., *Fertil. Steril.*, 90(2), 453-455, 2008.
17. Tanaka A, Tanaka I, Nagayoshi M, Awata S, Kusunoki H: Are Crater Defects in Human Sperm Heads Physiological changes during Spermiogenesis and Epididymal Maturation?, *J. Mamm. Ova Res.*, 25, 259-265, 2008.
18. Okada H, Tanaka A: Genome-wide expression of azoospermia testes demonstrates a specific profile and implicates ART3 in genetic susceptibility., *Plos Genetics.*, 4(2), e26, 2008
19. Tanaka A, Nagayoshi M, Awata S, Tanaka I, Kusunoki H: Differentiation of human round spermatids into motile spermatozoa through in vitro coculture with Vero cells., *J. Jpn. Soc. Reprod. Med.*, 8, 169-175, 2009.
20. Tanaka A, Nagayoshi M, Awata S, Himeno N, Tanaka I, Watanabe S, Kusunoki H: Metaphase II karyoplast transfer from human in-vitro matured oocytes to enucleated mature oocytes., *RBM online.*, 19(4), 514-520, 2009.
21. Watanabe S, Tanaka A, Nagayoshi M, Awata S, Tanaka I: An investigation of the potential effect of vacuoles in human sperm on DNA damage using a chromosome assay and the TUNEL assay., *Human Reproduction.*, 26(5), 978-986, 2011.
22. Gianpiero D. Palermo, Jennifer C.Y. Hu, Laura Rienzi, Roberta Maggiulli, Takeuchi T, Yoshida A, Tanaka A, Kusunoki H, Watanabe S, Queenie V. Neri, Zev Rosenwaks: Thoughts on IMSI., *Biennial Review of*

- infertility., *Biennial Review of Infertility.*, 4, 277-289, 2011.
23. Tanaka A, Nagayoshi M, Kusunoki H, Tanaka I: Direct visualization of Metaphase-II chromosomes in human oocytes under an inverted microscope., *Recent Patents on Medical Imaging.*, 1(2), 2011.
 24. Tanaka A, Nagayoshi M, Tanaka I, Kusunoki H: Human sperm head vacuoles are physiological structures formed during the sperm development and maturation process. *Fertil Steril.* 98: 315-320, 2012, IF: 4.590
 25. Ikuma S, Sato T, Sugiura-Ogasawara M, Nagayoshi M, Tanaka A and Takeda S: Preimplantation Genetic Diagnosis and Natural Conception: A Comparison of Live Birth Rates in Patients with Recurrent Pregnancy Loss Associated with Translocation. *PLoS One.* 10: e0129958, 2015, IF:3.234
 26. Tanaka A, Nagayoshi M, Takemoto Y, Tanaka I, Kusunoki H, Watanabe S, Kuroda K, Takeda S, Ito M, and Yanagimachi R: Fourteen babies born after round spermatid injection into human oocytes. *PNAS* 2015;112:14629-14634
 27. Miki T, Nagayoshi M, Takemoto Y, Yamaguchi T, Takeda S, Watanabe S and Tanaka A: Genetic risk of Klinefelter's syndrome in assisted reproductive technology. *Reproductive Medicine and Biology.* April 2017; Volume 16, Issue 2 Pages 188–195
 28. Yamaguchi T, Ito M, Kuroda K, Takeda S, Tanaka A: The establishment of appropriate methods for egg-activation by human PLCZ1 RNA injection into human oocyte. *Cell Calcium* July 2017; Volume 65, Pages 22–30
 29. Tanaka A, Tanaka I, Yamaguchi T, Miki T, Ikuma S, Nagayoshi M, Takeda S: Development of a new tubal recanalization method using the combination of hysteroscope and laparoscope in the treatment of obstructed fallopian tubes. *Gynecology and Minimally Invasive Therapy* 6 2017; 226-227
 30. Tanaka A, Suzuki K, Nagayoshi M, Tanaka A, Takemoto Y, Watanabe S, Takeda S, Irahara M, Kuji N, Yamagata Z, and Yanagimachi R: Ninety babies born after round spermatid injection into oocytes: Survey of their development from fertilization up to 2 years old. *Fertility and Sterility*, August 2018; Volume 110, Issue 3, Pages 443–451
 31. Motoharu Ohno, Atsushi Tanaka, Motoi Nagayoshi, Takashi Yamaguchi1, Youichi Takemoto, Izumi Tanaka, Seiji Watanabe, and Atsuo Itakura: Modified permeable cryoprotectant-free vitrification method for three or fewer ejaculated spermatozoa from cryptozoospermic men and 7-year follow-up study of 14 children born from this method. *Human Reproduction*, May 2020, Vol.35, No.5, pp. 1019–1028

32. Takashi Umehara, Nao Urabe, Toshiki Obata, Takashi Yamaguchi, Atsushi Tanaka, Masayuki Shimada: Cutting the ovarian surface improves the responsiveness to exogenous hormonal treatment in aged mice. *Reproductive Medicine and Biology*. August 2020
33. Yuko Ikemoto, Keiji Kuroda, Motoki Endo, Atsushi Tanaka, Rikikazu Sugiyama, Koji Nakagawa, Yuichi Sato, Yasushi Kuribayashi, Kiyohide Tomooka, Yuya Imai, Gautam A. Deshpande, Takeshi Tanigawa, Atsuo Itakura, Satoru Takeda: Analysis of severe psychological stressors in women during fertility treatment: Japan - Female Employment and Mental health in Assisted reproductive technology (J- FEMA) study. *Archives of Gynecology and Obstetrics*. November 2020
34. Budi Wiweko, Tuong M. Ho, Rong Li, Tin-Chiu Li, Chii-Ruey Tzeng, Gab Kovacs, Atsushi Tanaka, Jung Ryeol Lee, Hrishikesh Pai, Haroon Latif Khan: SARS-CoV-2 and Assisted Reproductive Technology Practice: An Asia Pacific Initiative on Reproduction (ASPIRE) Position Paper, *FERTILITY & REPRODUCTION*, Volume2, Number4, December 2020, 115–143
35. Yuya Imai, Motoki Endo, Keiji Kuroda, Kiyohide Tomooka, Yuko Ikemoto, Setsuko Sato, Kiyomi Mitsui, Yuito Ueda, Gautam A Deshpande, Atsushi Tanaka, Rikikazu Sugiyama, Koji Nakagawa, Yuichi Sato, Yasushi Kuribayashi, Atsuo Itakura, Satoru Takeda, Takeshi Tanigawa, Risk factors for resignation from work after starting infertility treatment among Japanese women: Japan-Female Employment and Mental health in Assisted reproductive technology (J-FEMA) study. *Occupational and Environmental Medicine* 2021;78 : 426-432
36. Takuhiko Ichiyama, Keiji Kuroda, Yoko Nagai, Daichi Urushiyama, Motoharu Ohno, Takashi Yamaguchi, Motoi Nagayoshi, Yoshiyuki Sakuraba, Fumio Yamasaki, Kenichiro Hata, Shingo Miyamoto, Atsuo Itakura, Satoru Takeda, Atsushi Tanaka A : Analysis of vaginal and endometrial microbiota communities in infertile women with a history of repeated implantation failure. *Reproductive Medicine and Biology*. May 2021; Volume 20, Issue 3 Pages 334–344
37. Budi Wiweko, Tuong M. Ho, Atsushi Tanaka, Vanessa Raggio, Jung-Ryeol Lee, Milind Patil, Carina Chi-Wai Chan, Teraporn Wutayavanich, Feiyang Diao, Suresh Nair, Rudie Frederick Mendiola: COVID-19 pandemic impacts decision-making and psychosocial behavior in women seeking fertility treatment in APAC - an ASPIRE Patient Experience Report, *FERTILITY & REPRODUCTION*, Volume3, Number3, 2021, Pages 58-77
38. Yasuho Yanagihara, Atsushi Tanaka, Motoi Nagayoshi, Izumi Tanaka, Rina Shinohara, Fumihisa Fukushima, Akihiro Tanaka, Motoharu Ohno,

Takashi Yamaguchi, Atsuo Itakura : A modified GnRH antagonist method in combination with letrozole, cabergoline, and GnRH antagonist for PCOS: Safe and effective ovarian stimulation to treat PCOS and prevent OHSS. *Reproductive Medicine and Biology*. Accepted 15 November 2021

39. Yuito Ueda, Motoki Endo, Keiji Kuroda, Kiyohide Tomooka, Yuya Imai, Yuko Ikemoto, Kiyomi Mitsui, Setsuko Sato, Atsushi Tanaka, Rikikazu Sugiyama, Koji Nakagawa, Yuichi Sato, Yasushi Kuribayashi, Mari Kitade, Atsuo Itakura, Satoru Takeda, Takeshi Tanigawa : Risk factors for infertility treatment- associated harassment among working women: a Japan - Female Employment and Mental health in assisted reproductive technology (J- FEMA) study. *International Archives of Occupational and Environmental Health*. Accepted: 17 April 2022
40. Mamiko Sato, Motoki Endo, Kiyohide Tomooka, Keiji Kuroda, Yuito Ueda, Setsuko Sato, Yuko Ikemoto, Yuya Imai, Kiyomi Mitsui, Atsushi Tanaka, Rikikazu Sugiyama, Koji Nakagawa, Yuichi Sato, Yasushi Kuribayashi, Mari Kitade, Atsuo Itakura, Satoru Takeda, Takeshi Tanigawa, Risk Factors for Alcohol Consumption after Starting Assisted Reproductive Technology Treatment among Japanese Women: Japan-Female Employment and Mental Health in Assisted Reproductive Technology (J-FEMA) Study, *International Journal of Environmental Research and Public Health*, 2023; 20:7152
41. Yuya Makino, Atsushi Tanaka, Yuichi Takemoto, Motoi Nagayoshi, Shigeki Fujimoto, Izumi Tanaka, Cauda epididymal sperm aspiration as a novel approach for spinal cord injury associated male infertility, *Spinal Cord* 64, 571–576 (2026)
42. Kensuke Akitsu, Keiko Ueno, Masanori Ono, Takeshi Iwasa, Kei Miyakoshi, Takafumi Utsunomiya, Atsushi Tanaka, Masayuki Kinutani, Hirotaka Nishi, Yasunori Yoshimura, Minoru Irahara, Kohta Suzuki, Naoaki Kuji, Anthropometric outcomes at 12 years after fresh versus frozen embryo transfer compared with natural conception, *European Journal of Obstetrics & Gynecology and Reproductive Biology*, 2026 Jun 4:324:115227

【Review Papers】

40. Tanaka A and Watanabe S: Can cytoplasmic donation rescue aged oocytes?, *Reproductive Medicine and Biology*. Volume18, Issue2, April 2019, Pages 128-139
41. Tanaka A and Watanabe S: How to improve the clinical outcome of round

spermatid injection (ROSI) into the oocyte: Correction of epigenetic abnormalities, *Reproductive Medicine and Biology*. Volume22, Issue1, Jan-Dec 2023

【Book Chapter】

42. Allahbadia N. G, Morimoto Y, Tanaka A: Ovarian Stimulation Protocols, Springer, 95-101, 2016
43. Kuroda K, Brosens J. J, Quenby S, Takeda S, Tanaka A, Yamaguchi T: Treatment Strategy for Unexplained Infertility and Recurrent Miscarriage: Springer, 7-17, 2018,
44. Yanagimachi R and Tanaka A: “Round spermatid injection (ROSI): its biological concept and clinical application.” 40 Years After In Vitro Fertilization State of The Art and New Challenges, Cambridge Scholars Publishing, Edited by Jan Tesarik, 206-233, 2019