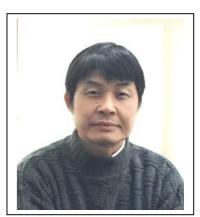
CURRICULUM VITAE

Jyh-Cherng Ju (朱志成), Ph.D., Professor, Graduate Institute of Biomedical Sciences, China Medical University, Taichung, Taiwan 91 Hsueh-Shih Road, Taichung 40402, Taiwan 中國醫藥大學 生物醫學研究所台中市 北區 學士路 91 號



Email: jcju@dragon.nchu.edu.tw; jcju@mail.cmu.edu.tw;

T24570@mail.cmuh.org.tw;

Phone: +886-4-2286-2799 Mobile phone: 0960-726592

FAX: +886-4-2284-0265 886-4-2286-2199

Phone: +886-4-2233-7203 or 886-4-22052121 Ext. 7601

Address:

Graduate Institute of Biomedical Sciences, China Medical University, 91 Hsueh-Shih Road, Taichung 40402, Taiwan, ROC

Education:

Ph.D). 1994-1999	Cornell University (Department of Animal Science), USA
M.S.	1982-1984	National Chung Hsing University (Animal Science), Taiwan
B.S.	1978-1982	National Chung Hsing University (Animal Husbandry), Taiwan

University Appointment:

2016- present Professor, Graduate Institute of Biomedical Sciences, China

Medical University, Taiwan

2013-2016	Professor, Graduate Institute of Basic Medical Science, China
	Medical University, Taiwan
2013-present	Principal Investigator, Core laboratory for Stem Cell Research,
	Medical Research Department, China Medical University Hospital,
	Taichung, Taiwan
2013 (-present)	Adjunct Professor, Department of Bioinformatics and Medical
	Engineering, College of Computer Science, Asia University,
	Taichung, Taiwan
2013 (-present)	Adjunct Professor, Department of Animal Science,
	National Chung Hsing University, Taichung, Taiwan
2014-2015	Adjunct Professor, Biotechnology Center, National Chung Hsing
	University, Taichung, Taiwan
2003-2013	Professor, Department of Animal Science, National Chung
	Hsing University, Taiwan
2009-2011	Distinguished Professor, National Chung Hsing University, Taiwan
1999-2002	Associate Professor, Animal Science, National Chung Hsing
	University
1992-1999	Lecturer, Animal Science, National Chung Hsing University
1986-1992	Teaching Assistant, Animal Science, National Chung Hsing
Unive	rsity

Honors

Recipient of the Distinguished Home Room teacher of College of Agriculture and Natural Resources, National Chung Hsing University (2008).

Recipient of the Distinguished Research Award (2009) from Chinese Society of Animal Science (CSAS).

Recipient of the Distinguished Professor of National Chung Hsing University (2009).

Fields of Study:

Gamete Biology

Embryology

Animal cloning and embryonic stem cells

Reproductive Biology

Signal Transduction

Thermobiology

Services:

1. Journal editorial board and ad hoc reviewers

Editorial board committee of the Journal of Chinese Association of Animal Science, Taiwan

Editorial board committee of the Journal of Livestock Research Institute Taiwan

Editorial board committee of the World Journal of Stem Cells (2010-)

Editorial board committee of the World Journal of Biological Chemistry (2013-

Editorial board committee of Adaptive Medicine (2014-2015)

Reviewer of Animal Reproduction Science

Reviewer of Asian-Australasian Journal of Animal Science

Reviewer of Cloning and Stem cells/Cellular Reprogramming

Reviewer of Journal of Chinese Agriculture Association

Reviewer of Journal of Chinese Association of Animal Science

Reviewer of Journal of Clinical Rehabilitative Tissue Engineering Research

Reviewer of Journal of International Corporation

Reviewer of Journal of Livestock Research Institute Taiwan

Reviewer of Reproduction

Reviewer of Reproduction in Domestic Animals

Reviewer of Theriogenology

Reviewer of Zygote

Reviewer of Stem Cell and Development

Reviewer of Stem Cell Review and Reports

Reviewer of PlosOne

2. Grant proposal reviewers

Regular reviewer of the National Science Council, Executive Yuan, Taiwan, ROC

Re-reviewer of National Science Council, Executive Yuan, Taiwan, ROC

Reviewer of Livestock Research Institute, Executive Yuan, Taiwan, ROC.

Reviewer of the Minister of Education, Taiwan, ROC

Reviewer of the Chang Gung-Tsing Hua University collaboration programs

Ad hoc reviewer of ANR (France) grants

3. University Reviewer

National Ping-Tung Technology University National I-Lan University

4. Standing committee of International Congress on Animal Reproduction (ICAR): 2012-2028

Selected publications (English) (*Corresponding author)

Cheng SP, **JC** Ju, CL Young. 1988. In vitro development of early swine embryos in mKRB medium supplemented with maternal serum. J Chin Soc Vet Sci 14: 307-314.

Cheng SP, YC Chang, **JC Ju**, CL Young.1988. In vitro development of intact and micromanipulated rabbit embryos. Proceedings of the three-way faculty exchange seminar on the application of biotechnology to agriculture. Seoul, Korea, pp 235-244.

Ju JC, SP Cheng, PC Tarng, KB Choo. 1991. In vivo development and mciroinjection of rabbit zygotes. Asian J Anim Sci 4 (1): 73-78.

- **Ju, JC**, SP Cheng, YK Fan, JC Hsu, SK Chiang, EV Chang, SC Chiou. 1993. Investigation of equine hematological constituents in central Taiwan. I. Distribution of the blood cell parameters and the biochemical compositions of serum. Asian J Anim Sci 6(1):147-153.
- Yen, SC, SP Cheng, **JC Ju.** 1994. In vivo development of microencapsulated rabbit aggregated blastomeres and bisected morulae with calcium alginate gel. In "Proceedings of the 7th. AAAP Anim Sci Congress Vol. II, 329-330.
- Liu L, **JC Ju**, X Yang. 1998. Parthenogenetic development and protein patterns of newly matured bovine oocytes after chemical activation. Mol Reprod Dev 49: 298-307. (SCI)
- Suzuki H, **JC Ju**, JE Parks, X Yang. 1998. Surface ultrastructural characteristics of bovine oocytes following heat shock. J Reprod Dev 44: 345-351.
- Liu L, **JC Ju**, X Yang. 1998. Differential inactivation of maturation-promoting factor and mitogen-activated protein kinase following parthernogenetic activation of bovine oocytes. Biol Reprod 59: 537-545. (SCI)
- Suzuki H, **JC Ju**, X Yang. 1999. Surface ultrastructural alterations of bovine oocytes after parthenogenetic activation. Reprod Fert Dev: 44: 345-351.
- **Ju JC**, JE Parks, X Yang.1999. Thermotolerance of IVM-derived bovine oocytes and embryos after short-term heat shock. Mol Reprod Dev 53: 336-340. (SCI)
- **Ju JC**, JE Parks, X Yang. 2000. Heat shock and oocyte activation. The 7th Sino-Japanese-Korean Conference in dairy production, pp. 57-71.
- Suzuki H, **JC Ju**, X Yang. 2000. Surface ultrastructural alterations of bovine oocytes after parthenogenetic activation. Cloning 2: 69-78.
- Tripp MW, **JC Ju**, TA Hoagland, JW Riesen, X Yang, and SA Zinn. 2000. Influence of somatotropin and nutrition on bovine oocyte retrieval and in vitro development. Theriogenology 53: 1581-1590. *(SCI)*
- Maneesh T, PEJ Bols, AVD Velde, **JC Ju**, D Schreiber, MW Tripp, H Levine Y, Echelard, J Riesen and X Yang. 2000. Developmental competence of juvenile calf oocytes in vitro:

influence of donor animal variation and repeated gonadotropin stimulation. Biol Reprod 62: 206-213. (SCI)

Ju JC, YC Chang, WT Huang, PC Tang, SP Cheng. 2001. Superovulation and Transplantation of demi- and aggregated embryos in rabbits. Asian-Aust J. Anim. Sci. 14: 455-461 (SCI)

Huang WT, PC Tang, SC Wu, SP Cheng, **JC Ju***. 2001. Effects of levels and sources of follicular fluid on the in vitro maturation and development of porcine oocytes. Asian-Aust J. Anim. Sci. 14: 1360-1366 (SCI)

Ju JC, HC Peh, JC Hsu, SP Cheng, HH Chiou, YK Fan. 2001. The reproductive characteristics of the mare in subtropical Taiwan. Asian-Aust J. Anim. Sci. 15: 494-499 (SCI)

Liu CT, CH Chen, SP Cheng, **JC Ju***. 2002. Parthenogenesis of rabbit oocytes activated by different stimuli. Anim Reprod Sci 70: 267-276. (SCI)

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Ju JC, JS Yang, CT Liu, CH Chen, JK Tseng, PC Chou, SP Cheng 2003. Differential influences in size and cell cycle stages of donor blastomeres on the development of cloned rabbit embryos. Asian-Aust. J. Animal Sci. 16: 15-22 (SCI)

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Fan, YK, **JC Ju**, SL Lee, CF Chen, HC Peh, JC Hsu, YP Lee. 2004. High ejaculation frequency enhances production of semen in Taiwan Country Chicken. Asian-Aust. J. Anim. Sci.17: 924-929. (SCI)

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Yen Shih-Ying, JK Tseng, SM Chuang, SE Chen, and **JC Ju***. 2014. Subcellular localization, expression and activation of mitogen-activated protein kinase p38 in porcine oocytes under thermal stress. J Reprod Dev 60(5):388-394. (SCI)

Kere M, C Siriboon, JW Liao, NW Lo, HI Chiang, YK Fan, JP Kastelic, **JC Ju*** 2014. Vascular endothelial growth factor A improves quality of matured porcine oocytes and developing parthenotes. Endocrinology of Domestic Animals 49:60-69. (SCI)

Siriboon C, Lin YH, Kere M, Chen CD, Chen LR, Chen CH, Tu CF, Lo NW, **Ju JC***. 2015. Putative porcine embryonic stem cell lines derived from aggregated four-celled cloned embryos produced by oocyte bisection cloning. Plos One 10(2):e0118165. (SCI) (DOI: 10.1371/journal.pone.0118165) Published: February 13, 2015

Lo NW, P Intawicha, YT Chiu, KH Lee, HC Lu, CH Chen, YH Chang, CD Chen, <u>JC Ju</u>*. 2015. Leukemia Inhibitory Factor and Fibroblast Growth Factor-2 critically and mutually sustain pluripotency of rabbit embryonic stem cells. Cell Transplantation 24(3): 319-338. (IF=3.570; R/C=5/26 in Transplantation) (doi: 10.3727/096368915X686832. Epub 2015 Feb 10)

Li Ching-Wen, Wei-Ting Pan, Jyh-Cherng Ju and Gou-Jen Wang. An endothelial cultured condition medium embedded porous PLGA scaffold for the enhancement of mouse embryonic stem cell differentiation. Biomed. Mater. 11 (2016) 025015.

Intawicha Payungsuk, Chawalit Siriboona, Chien-Hong Chen, Yung-Tsung Chiua, Tzu-An Lin, Michel Kere, Neng-Wen Lo, Kun-Hsiung Lee, Li-Yung Chang, Hsing-I. Chiang, <u>JC Ju*</u>. 2016. Derivation and characterization of putative embryonic stem cells from cloned rabbit embryos. Theriogenology 86:1799-1810. [doi:10.1016/j.theriogenology. 2016.05.035; available online 7 Jun 2016] Kesorn Piyawit, Jai-Wei Lee, Hung-Yi Wu, <u>JC Ju</u>*, Shao-Yu Peng, Shyh-Shyan Liu, His-Hsun Wu, Perng-Chih Shen*. 2016. Cellular thermotolerance is inheritable from Holstein cattle cloned with ooplasts of Taiwan native yellow cattle. Theriogenology (in press)

Cheng Min-Chien, Hsin-I Chiang, Jiunn-Wang Liao Che-Ming Hung, Ming-Yang Tsai, Yu-Hsin Chen, **Jyh-Cherng Ju**, Mei-Ping Cheng, Ko-Hua Tso and Yang-Kwang Fan. 2016. Nonylphenol reduces sperm viability and fertility of mature male breeders in Brown Tsaiya ducks (Anas platyrhynchos) Anim Reprod Sci (accepted).

Kere Michel, Pan-Chen Liu, Yuh-Kun Chen, Pei-Chi Chao, Chawalit Siriboon, Chien-Hong Chen, Neng-Wen Lo, Hing-I Chiang, Yang-Kwang Fan, and **Jyh-Cherng Ju***. 2016. Ultrastructural characterization of porcine oocytes and adjacent follicular cells during folliculogenesis and in vitro meiotic maturation. Zygote (in revision).

Tung Yen-Ting, Cheng-Chung Chang, **Jyh-Cherng Ju** and Gou-Jen Wang. 2016. Fabrication of a reticular structure scaffold of cylindrical poly(lactide-co-glycolide) for the in vitro development of microvascular networks. Science and Technology of Advanced Materials (in revision).

Selected publications (in Chinese with English abstract) *Corresponding author

Yeh SP, Tseng JK, Chou PC, Chen CH, Chih T, Fan YK, Taneja M, Yang X, **Ju JC***. 2002 The developmental competence and factors influencing the in vitro production of cattle embryos using oocytes derived from juvenile calves. J Agri Assoc China. 3: 93-105.

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Wang KW, **Ju JC**, Parks JE, Hsu KH, Peh HC. 2003. Cryopreservation of oocytes and embryos. 2003. J Agri Assoc China 4: 288-303.

Chou PC, Tang PC, **Ju JC***. 2003. Mechanisms and factors affecting the production of transgenic mice by pronuclear microinjection. J Agri Assoc China 4: 364-383.

Weng YC, Chiou CM, Tang PC, Yang JH, **Ju JC***. 2005. Oocyte biology and the cell cycle regulators. J Agri Assoc China. 6: 500-514.

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Chang WC, Ho HC, Tang PC, **Ju JC*.** 2007. Application of animal transgenic technology to human lung cancer research. J Agri Assoc China. 8:68-82.

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Chang WF, Tang PC, **Ju JC***. 2007. Intrinsic factors related to regulation of pluripotency and differentiation of embryonic stem cells and early mammalian embryos. J Agri Assoc China. 8 (3):245-254.

Ou YW, Tang PC, **Ju J**C*. 2008. Signaling pathways of self-renewal in embryonic stem cells. J Agri Assoc China. 9 (3):226-242.

Yen SY and **JC Ju*.** 2009. Oocyte maturation and the effect of thermal stress on its signaling pathways. Chin Soc Anim Sci (in press).

Hsieh YC, P Intawicha, NW Lo, KH Lee, JC Ju*. 2010. Characterization and applications of embryonic stem cells derived from parthenogenetically activated embryos (a review). J Agri Assoc Taiwan 11 (6) 580-601.

Sun JC, KH Lee*, and **JC Ju***. 2011. Vitrification of mammalian embryos. Chin Soc Anim Sci 40 (1) 1-17.

Jian YL, NW Lo, and **JC Ju***. 2011. Effects of growth factors on the maturation of porcine follicular oocytes and their subsequent development. J Chin Soc Anim Sci 39 (3):147-164.

Chen YZ, YH Chang, NW Lo, **JC Ju**. 2012. Roles of regulatory proteins in the development of mouse primordial germ cells. J Agri Assoc Taiwan 13 (2): 132-149.

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Conference papers

- Intawicha, P., Ou Y.W., Zhang S.C., Su H.L., Guu H.F., Chen M.J., Lee K.H., and Ju JC. 2007. Culture and characterization of presumptive embryonic stem cell line isolated from New Zealand White rabbit embryos. Shanghai International Symposium on Stem Cell Research ISSCR. Cell Research (Suppl8.):s38.
- 2. Ou, Y.W., Intawicha P., Lee K.H., Chen L.R., Tang P.C., Guu H.F., Chen M.J., and Ju J.C. 2007. Rabbit embryonic stem-like cell lines expressing stem cell markers. Annual meeting of Taiwan Society for Stem Cell Research, TSSCR. (Suppl.):72.Systems Biology in Taiwan, BIT 2010 P. 15.
- 3. Hsieh, Y.C., Intawicha P., Lo N.W., Lee K.H., and Ju J.C. 2009. Establishment and characterization of rabbit embryonic stem cell line derived from parthenogenetically activated embryos. Annual meeting of Taiwan Society for Stem Cell Research, TSSCR (Suppl.): 116.
- 4. <u>Siriboon, C.</u>, N. T. Nguyen, J. K. Tseng, and J. C. Ju. 2009. Trichostatin A enhances nuclear reprogramming and development of handmade cloned porcine embryos. J. Chin. Soc. Anim. Sci. 38:181.
- 5. <u>Siriboon, C.</u>, N. T. Nguyen, J. K. Tseng, N. W. Lo, C. F. Tu, and J. C. Ju. 2010. Nuclear reprogramming and development of handmade cloned porcine embryos induced by Trichostatin A.3rd Congress of the Asia Pacific Initiative on Reproduction (ASPIRE 2010) p.68.

- 6. Intawicha, P., Hsieh Y.C., Lo N.W., Lee K.H., and Ju J.C. 2010. Synergistic integration of LIF and FGF pathways supports self-renewal of rabbit embryonic stem cells. 3rd Conference of the Asia Pacific Initiative on Reproduction, ASPIRE 2010.
- 7. Ju, J.C., Intawicha P., Wang S.H., Lo N.W., Lee K.H., and Huang S.Y. 2010. Proteomic analysis of rabbit embryonic stem cells derived from fertilized and parthenogenesis embryos. 43rd SSR Annual Meeting of Society for the Study of Reproduction, SSR 2010 (Suppl.): 159 (abstract).
- 8. Lo, N.W., Intawicha, P., Hsieh Y.C., Lee K.H., Chen L.R and Ju J.C. 2010. Cloning rabbit embryonic stem cells.14th Animal Science Congress of the Asian-Australasian Association of Animal Production societies (14th AAAP Animal Science Congress) 2010 (Suppl.1): 249.
- 9. Yeh, S.M., Liou Y.S., Hsiao C.C., Wang M.W., Shih Y. P., Intawicha P., Ju J. C., Chen Y.C., Lin S. L., Chen C.M., and J. K. Tseng. 2010. TAURINE improves the diabetes-induced eye disorders in New Zealand White Rabbits. J. Chin. Soc. Anim. Sci. 2010 (Suppl.): 212.
- 10. Intawicha, P., Pan Y.H., Chen C.D., Hsieh Y.C., Tseng J. K., Lo N.W., Lee K.H., and Ju J.C. 2010. A pilot study of intracellular calcium profiling and cell cycle synchronization in rabbit embryonic stem cells. The 8th Annual Symposium of Bioinformatics and
- 11. <u>Siriboon, C.</u>, N. T. Nguyen, J. K. Tseng, N. W. Lo, C. F. Tu, and J. C. Ju. 2010. Trichostatin A and ascorbic acid treatment improves developmental competence of porcine reconstructed embryos by handmade cloning. J. Chin. Soc. Anim. Sci. 39:213.
- 12. Ko, C. H., H. K. Lin, C. G. Tan, <u>C. Siriboon</u>, Y. S. Zhong, N. W. Lo, Y. H. Lin, H. C. Cheng, S. W. Chang, C. C. Yang, and J. C. Ju. 2010. Serum starvation does not repopulate cell cycle phases of cultured ear fibroblasts in Formosan black bears. Regenerative Medicine from stem cells to disease models p.45.
- 13. Tan, C. G., C. H. Chen, T. A. Lin, <u>C. Siriboon</u>, Y. L. Jian, L. Y. Sung, Y. S. Chang, N. W. Lo, J. Xu, Y. H. Lin, C. C. Yang, H. C. Cheng, S. W. Chang, F. Du, and J. C. Ju. 2010. Cloning Formosan black bear (FBB) embryos using recipient ooplasms of various domestic species. J. Chin. Soc. Anim. Sci. 39:210.
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- 16. Lin, Y.H., Intawicha, P., Lo N.W., and Ju J.C. 2013. Establishment of rabbit embryonic stem cells lines using small molecule inhibitors. The 28th Joint Annual Conference of

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