

CURRICULUM VITAE**Name:** Hsin-Shih Wang, 王馨世**Sex:** Male**Date of Birth:** 6 August, 1955**Place of Birth:** Taiwan, R.O.C.**Citizenship:** Taiwan, R.O.C.**Present Addresses:**

Office: Department of Obstetrics and Gynecology
 Chang-Gung Memorial Hospital Medical College
 Lin-Kou Medical Center, Taoyuan, Taiwan.

Education: Bachelor of Medicine, Kaohsiung Medical College
 Kaohsiung, Taiwan, R.O.C. (1974 ~ 1981.)

Post-graduate Education:

1. Master of Science, Department of Obstetrics and Gynecology
 Kaohsiung Medical College, Institute of Medicine
 Kaohsiung, Taiwan, R.O.C. (1985 ~ 1987.)
2. Doctor of Philosophy, Department of Reproductive Physiology
 St. Bartholomew's Hospital Medical College
 University of London, London, U.K. (1988 ~ 1991.)

Academic Appointments:

1. Lecturer, accredited by the Ministry of Education, R.O.C. in August 1987,
 (教育部講師, 證書字號: 講字第 25659 號)
2. Associate Professor, accredited by the Ministry of Education, R.O.C. in February 1992,
 (教育部副教授, 證書字號: 副字第 16519 號)
3. Associate Professor, accredited by the Authority of Chang-Gung Memorial Hospital. in July 1993, (長庚醫院學術組副教授)
4. Professor, accredited by the Authority of Chang-Gung Memorial Hospital. in July 2000, (長庚醫院學術組教授)
5. Professor, accredited by the Ministry of Education, R.O.C. in February 2002,
 (教育部教授, 證書字號: 教字第 11955 號)

Employment Records:

1. Resident, Department of Obstetrics and Gynecology,
 Kaohsiung Medical College Hospital,
 Kaohsiung, Taiwan, R.O.C. (Aug. 1983 ~ Jul. 1987)
2. Consultant and Lecturer, Department of Obstetrics and Gynecology,
 Kaohsiung Medical College Hospital,
 Kaohsiung, Taiwan, R.O.C. (Aug. 1987 ~ Sep. 1988)
3. Consultant, Department of Obstetrics and Gynecology,
 Chang-Gung Memorial Hospital, Lin-Kou Medical Center,
 Taipei, Taiwan, R.O.C. (Oct. 1991 ~ Now)
4. Associate Professor, Medical Department, Medical College, Chang-Gung University,
 Taipei, Taiwan, R.O.C. (Feb. 1992 ~ Now)
5. Associate Professor, Department of Obstetrics and Gynecology, Chang-Gung Memorial
 Hospital, Lin-Kou Medical Center, Taipei, Taiwan, R.O.C. (Jul. 1993 ~ Jun. 2000)
6. Director of Division of Infertility and General Gynecology,
 Department of Obstetrics and Gynecology, Chang-Gung Memorial Hospital, Lin-Kou
 Medical Center, Taipei, Taiwan, R.O.C. (Feb. 1996 ~ Jun. 2002)
7. Professor, Department of Obstetrics and Gynecology, Chang-Gung Memorial Hospital,
 Lin-Kou Medical Center, Taipei, Taiwan, R.O.C. (Jul. 2000 ~ Now)
8. Director of Department of Medical Research, Chang-Gung Memorial Hospital, Lin-Kou
 Medical Center, Taipei, Taiwan, R.O.C. (May. 2002 ~ Aug. 2005)
9. Dean and Professor, Graduate Institute of Clinical Medical Science, Chang-Gung
 University, Taipei, Taiwan, R.O.C. (Aug. 2001 ~ Now)

Professional Affiliations:

1. Member of the American Society for Reproductive Medicine (U.S.A.)

2. Member of the Taiwanese Society for Reproductive Medicine (R.O.C.)
3. Member of the Association of Obstetrics and Gynecology (R.O.C.)
4. Member of the Taiwanese Association of Obstetrical and Gynecological Endoscopists (R.O.C.)
5. Member of the Formosan Medical Association (R.O.C.)
6. Member of the Endocrine Society of the Republic of China (R.O.C.)

Professional Activities:

1. Member of the Editorial Board of Chang-Gung Medical Journal
2. Member of the Editorial Board of Journal of the Association of Obstetrics and Gynecology (R.O.C.)
3. Member of the Medical Education and Curriculum Committee in Medical College of Chang-Gung University

Research Programs:

1. Vascular endothelial growth factor (VEGF), aromatase P450, and IGFs/IGFBPs in the pathophysiological changes of ovarian hyperstimulation syndrome (OHSS). (國科會研究計劃NSC88-2314-B-182-104; 1998. 8. ~ 2000. 7.)
2. Production of vascular endothelial growth factor (VEGF), aromatase P450, and IGFs/IGFBPs by human luteinized granulosa cells in vitro: an association with ovarian hyperstimulation syndrome (OHSS). (國科會研究計劃NSC89-2314-B-182-041; 1999. 8. ~ 2001. 7.)
3. Functions of IGFs/IGFBPs, VEGF, and PIGF in placentae in women with normal pregnancy or pregnancies complicated with preeclampsia or IUGR. (國科會研究計劃NSC89-2314-B-182-077; 2000. 8. ~ 2003. 7.)
4. The verification of DNA microarray analysis by using human embryonic stem cells and retroviral vectors and the application of DNA microarray in preimplantation genetic diagnosis (第一年). (國科會研究計劃NSC90-2314-B-182-107; 2001. 8. ~ 2002. 7.) (第二年). (國科會研究計劃NSC91-2314-B-182-079; 2002. 8. ~ 2003. 7.) (第三年). (國科會研究計劃NSC92-2314-B-182-037; 2003. 8. ~ 2004. 7.)
5. Effects of steroid hormones on endometrium and breast cells through regulating gene expression (第一年). (國科會研究計劃NSC92-2314-B-182-083; 2003. 8. ~ 2004. 7.)
6. Effects of steroid hormones on endometrium and breast cells through regulating gene expression (第二年). (國科會研究計劃NSC93-2314-B-182-019; 2004. 8. ~ 2005. 7.)
7. Insulin-like growth factors (IGFs) and IGF-binding proteins (IGFBPs) in follicular and embryo development. (國科會研究計劃NSC94-2314-B-182-050; 2005. 8. ~ 2006. 7.)
8. Identification of non-synonymous single nucleotide polymorphism sites of estrogen-synthesizing enzyme-associated genes in patients with endometriosis. (國科會研究計劃NSC95-2314-B-182-061; 2006. 8. ~ 2007. 7.)
9. Interaction between insulin-like growth factors (IGFs) and estrogens through Wnt signaling pathway on the cell proliferation and differentiation in immortalized endometrial cells. (國科會研究計劃NSC96-2314-B-182-016; 2007. 8. ~ 2008. 7.)
10. Cross-talk between estrogen receptors and insulin-like growth factor-I receptor in endometrial cells (共三年). (國科會研究計劃NSC97-2314-B-182-014-MY3; 2008. 8. ~ 2011. 7.; 核定經費: 三年共3900000元)
11. Estrogen-induced cell proliferation through mammalian target of rapamycin (mTOR) and nucleophosmin (NPM/B23) in endometrial cells (共三年). (國科會研究計劃NSC100-2314-B-182-015-MY3; 2011. 8. ~ 2014. 7.; 核定經費: 三年共3600000元)

Publications:

A. Theses:

1. **Thesis of Master:** "Circulating levels of steroid hormones (estradiol, progesterone and testosterone) in normal and abnormal pregnant women" (1987).
2. **Thesis of Ph.D.:** "The role of insulin-like growth factor-I (IGF-I) and insulin-like growth factor-binding protein-1 (IGFBP-1) in human fetal growth" (1991).

B. Papers:

1. **Wang HS**, Perry LA, Kanisius J, Iles RK, Holly JMP & Chard T (1991) Purification and assay of insulin-like growth factor-binding protein-1: measurement of circulating levels throughout pregnancy. *Journal of Endocrinology* 128, 161-168. (SCI)
2. **Wang HS**, Lim J, English J, Irvine L & Chard T (1991) The concentrations of insulin-like growth factor-I (IGF-I) and insulin-like growth factor-binding protein-1 (IGFBP-1) in human umbilical cord serum at delivery: relation to fetal growth. *Journal of Endocrinology* 129, 459-464. (SCI)
3. **Wang HS** & Chard T (1992) The role of insulin-like growth factor-I and insulin-like growth factor-binding protein-1 in the control of human fetal growth. *Journal of Endocrinology* 132, 11-19. (SCI)
4. **Wang HS** & Chard T (1992) Chromatographic characterization of insulin-like growth factor-binding proteins (IGFBPs) in human pregnancy serum. *Journal of Endocrinology* 133, 149-159. (SCI)
5. **Wang HS** & Soong YK (1992) Chromatographic profile of serum insulin-like growth factor-binding proteins in umbilical cord. *Journal of Reproduction and Infertility* 1, 1-8.

6. Wathen NC, **Wang HS**, Cass PL, Campell DJ & Chard T (1992) Insulin-like growth factor-I (IGF-I) and insulin-like growth factor-binding protein-1 (IGFBP-1) in early human pregnancy. *Early Human Development* 28, 105-110. (SCI)
7. Critchley HOD, Chard T, Olajide F, Davies MC, Hughes S, **Wang HS**, Lieberman BA & Anderson DC (1992) Role of the ovary in the synthesis of placental protein-14. *Journal of Clinical Endocrinology and Metabolism* 75, 97-100. (SCI)
8. **Wang HS**, Lee CL & Chard T (1993) The circulating levels of insulin-like growth factor-I (IGF-I) and insulin-like growth factor-binding protein-1 (IGFBP-1) in pregnancy with pre-term delivery. *British Journal of Obstetrics and Gynaecology* 100, 472-475. (SCI)
9. **Wang HS**, Irvine L, Soong YK & Chard T (1993) Binding characterization of insulin-like growth factor-binding proteins in human pregnancy serum. *Journal of the Formosan Medical Association* 92, 324-329. (國科會研究計劃 NSC 82-0412-B-182-044) (SCI)
10. Baldwin S, Chung T, Rogers M, Chard T & **Wang HS** (1993) Insulin-like growth factor-binding protein-1, glucose tolerance and fetal growth in human pregnancy. *Journal of Endocrinology* 136, 319-325. (SCI)
11. Wang TH & **Wang HS*** (1994) Chlamydial infection of the female genital tract: its impact on human reproduction and comparison of diagnostic methods. *Journal of Reproduction and Infertility* 3, 1-11. *Corresponding author.
12. Chang SY, Hsieh KC, **Wang HS** & Soong YK. (1994) Follicular fluid levels of insulin-like growth factor-I, Insulin-like growth factor-binding protein-1 and ovarian steroids collected during ovum pick-up. *Fertility & Sterility* 62, 1162-1167. (國科會研究計劃 NSC 82-0412-B-182-A006) (SCI)
13. **Wang HS**, Lee JD & Soong YK (1995) Effect of labor on serum levels of insulin-like growth factor-binding proteins at the time of delivery. *Acta Obstetrica et Gynecologica Scandinavica* 74, 186-193. (長庚醫院研究計劃 CMRP-0341) (SCI)
14. **Wang HS**, Lee JD & Soong YK (1995) Serum levels of insulin-like growth factor-I and insulin-like growth factor-binding protein-1 and -3 in women with regular menstrual cycles. *Fertility & Sterility* 63, 1204-1209. (長庚醫院研究計劃 CMRP-0426) (SCI)
15. **Wang HS**, Cheng BJ & Soong YK (1995) Serum levels of insulin-like growth factor-binding protein-3 in normal pregnancy. *European Journal of Obstetrics & Gynecology and Reproductive Biology* 61, 157-160. (長庚醫院研究計劃 CMRP-0393) (SCI)
16. **Wang HS**, Cheng BJ & Soong YK (1995) Serum levels of insulin-like growth factor-I and insulin-like growth factor-binding protein-1 in Taiwanese women during normal pregnancy. *Journal of the Formosan Medical Association* 94, 698-701. (長庚醫院研究計劃 CMRP-0393) (SCI)
17. Mizutani S, Than GN, Stock S, Binder ND, Mancuso S, **Wang HS**, Grundmann U, Isaka K & Takayama M (1995) Recent advances in placental peptide research: workshop report. *Reprod. Fertil. Dev.* 7, 1443-1450. (SCI)
18. Wang TH & **Wang HS*** (1995) Gestational trophoblastic diseases: current trend and perspectives. *Journal of the Formosan Medical Association* 94, 449-457. (國科會研究計劃 NSC 83-0412-B-182-042) (SCI) *Corresponding author.
19. **Wang HS**, Lee JD, Cheng BR & Soong YK (1996) Insulin-like growth factor-binding protein-1 and insulin-like growth factor-binding protein-3 in pre-eclampsia. *British Journal of Obstetrics and Gynaecology* 103, 654-659. (長庚醫院研究計劃 CMRP-0393) (SCI)
20. **Wang HS** & Soong YK (1996) Transvaginal progesterone supplementation increases serum levels of insulin-like growth factor-binding protein-1. *Gynecological Endocrinology* 10, 349-355. (國科會研究計劃 NSC 84-2331-B-182-086) (SCI)
21. Lai YM, **Wang HS**, Lee CL, Lee JD, Huang HY, Chang FH, Lee JF & Soong YK (1996) Insulin-like growth factor-binding proteins produced by Vero cells, human oviductal cells and human endometrial cells, and the role of insulin-like growth factor-binding protein-3 in mouse embryo co-culture systems. *Human Reproduction* 11, 1281-1286. (國科會研究計劃 NSC 84-0412-B-182A-525H) (SCI)
22. Huang HY, Lee CL, Lai YM, Chang MY, **Wang HS**, Chang SY & Soong YK (1996) The impact of the total motile sperm count on the success of intrauterine insemination with husband's spermatozoa. *Journal of Assisted Reproduction and Genetics* 13, 55-62. (SCI)
23. Wang TH & **Wang HS*** (1996) p53, apoptosis, and human cancers. *Journal of the Formosan Medical Association* 95, 509-522. (長庚醫院研究計劃 CMRP-0426) (SCI) *Corresponding author.
24. Lin JD, **Wang HS**, Weng HF & Huang HS (1996) Insulin-like growth factor-I (IGF-I) receptor and IGF-I binding proteins in well-differentiated follicular and anaplastic human thyroid cancer cell lines. *Journal of experimental and clinical cancer research* 15, 319-326. (國科會研究計劃 NSC 82-0412-B-182A-010) (SCI)
25. Chang FH, Soong YK, Cheng PJ, Lee CL, Lai YM, **Wang HS**, Chou HH. (1996) Laparoscopic myomectomy of large symptomatic leiomyoma using airlift gasless laparoscopy: a preliminary report. *Human Reproduction* 11, 1427-1432.
26. Hsieh TT, Chen KC, Hsu JJ, Chiu TH, Hsieh CC, **Wang HS** (1997) Effects of glucose on placental hormones in the human term placenta *in vitro*. *Journal of the Formosan Medical Association* 96, 309-313. (國科會研究計劃 NSC 82-0412-B-182-045) (SCI)
27. Chiueh HY, Cheng PJ, **Wang HS**, Chu Y, Soong YK (1997) Properties of an estrogen-induced relaxation in human placental arteries. *Journal of Reproduction and Infertility* 6, 57-63.
28. Soong YK, **Wang HS**, Cheng SY & Chien HJ (1998) Expression of insulin-like growth factor-binding protein-1 (IGFBP-1) mRNA in embryos and endometrial stromal cells. *Molecular Human Reproduction* 4, 153-157. (國科會研究計劃 NSC 85-2331-B-182-055) (SCI)

29. Wang TH, Wang HS, Ichijo H, Giannakakou P, Foster JS, Fojo T & Wimalasena J (1998) Microtubule-interfering agents activate c-Jun N-terminal kinase/stress-activated protein kinase through both Ras and apoptosis signal-regulating kinase pathways. *Journal of Biological Chemistry* 273, 4928-4936. (長庚醫院研究計劃 CMRP-0426) (SCI)
30. Lin JD, Wang HS, Weng HF & Kao PF (1998) Outcome of pregnancy after radiative treatment for well differentiated thyroid carcinomas. *Journal of Endocrinological Investigation* 21, 662-667. (SCI)
31. Torry DS, Wang HS, Wang TH, Caudle MR & Torry RJ. (1998) Pre-eclampsia is associated with reduced serum levels of placenta growth factor. *American Journal of Obstetrics and Gynecology* 179, 1539-1544. (SCI)
32. Horng SG, Wang HS, Wang ML, Huang HY, Lee CL, Tsai CC, Wang CW, Huang YH, Soong YK (1998) The role of the oocyte and the sperm in the outcome after intracytoplasmic sperm injection (ICSI). *Journal of Reproduction and Infertility* 7, 157-163.
33. Wang TH, Popp DM, Wang HS, Saitoh M, Mural JG, Henley DC, Ichijo H & Wimalasena J (1999) Microtubule dysfunction induced by paclitaxel initiates apoptosis through both c-Jun N-terminal kinase (JNK)-dependent and -independent pathways in ovarian cancer cells. *Journal of Biological Chemistry* 274, 8208-8216. (國科會研究計劃 NSC 86-2314-B-182-077) (SCI)
34. Wang HS & Chard T (1999) Insulin-like growth factors (IGFs) and IGF-binding proteins (IGFBPs) in the regulation of human ovarian and endometrial function. *Journal of Endocrinology* 161, 1-13. (國科會研究計劃 NSC 85-2331-B-182-075) (SCI)
35. Wang HS, Wang TH & Soong YK (1999) Low dose of flutamide in the treatment of acne vulgaris in women with or without oligomenorrhea or amenorrhea. *Chang Gung Medical Journal* 22, 423-432. (國科會研究計劃 NSC 86-2314-B-182-077)
36. Wang TH & Wang HS* (1999) Apoptosis: (1) Overview and clinical significance. *Journal of the Formosan Medical Association* 98, 381-393. (國科會研究計劃 NSC 88-2314-B-182-104) (SCI) *Corresponding author.
37. Wang TH & Wang HS* (1999) Apoptosis: (2) Characteristics of apoptosis. *Journal of the Formosan Medical Association* 98, 531-542. (國科會研究計劃 NSC 88-2314-B-182-104) (SCI) *Corresponding author.
38. Wang HS, Wang TH & Soong YK (2000) Elevation of insulin-like growth factor-binding protein-1 mRNA expression following hormone replacement therapy. *Human Reproduction* 15, 50-54. (長庚醫院研究計劃 CMRP-0611) (SCI)
39. Wang HS, Wang TH & Soong YK (2000) Cyclic changes in serum levels of insulin-like growth factor-binding protein -1 in women treated with clomiphene citrate and tamoxifen. *Gynecological Endocrinology* 14, 236-244. (國科會研究計劃 NSC 87-2314-B-182-105) (SCI)
40. Wang HS, Wang TH & Soong YK (2000) Changes in mRNA Expression of Insulin-Like Growth Factors (IGFs) and Insulin-Like Growth Factor-Binding Proteins (IGFBPs) in Ovarian Granulosa Cells after Cotreatment with Growth Hormone in Low Responders. *Chang Gung Medical Journal* 23, 662-671. (國科會研究計劃 NSC 89-2314-B-182-041)
41. Wang TH, Wang HS* & Soong YK (2000) Regulation and function of c-Jun N-terminal kinase/stress-activated protein kinase (JNK/SAPK). *Chang Gung Medical Journal* 23, 57-72. (國科會研究計劃 NSC 89-2314-B-182-041, & 長庚醫院研究計劃 CMRP-0890) *Corresponding author.
42. Wang TH, Wang HS* & Soong YK (2000) Paclitaxel-induced cell death: Where the cell cycle and apoptosis come together? *Cancer* 88, 2619-2628. (國科會研究計劃 NSC 89-2314-B-182-041, & 長庚醫院研究計劃 CMRP-0890) (SCI) *Corresponding author.
43. Wang TH, Chang SD, Wang HS* & Soong YK (2001) Current perspectives of preeclampsia. *Advances in Obstetrics and Perinatology* 12, 1-9. *Corresponding author.
44. Chang CL, Wang TH, Horng SG, Wu HM, Wang HS*, Soong YK (2002) The concentration of inhibin B in follicular fluid: relation to oocyte maturation and embryo development. *Human Reproduction* 17, 1724-1728. (國科會研究計劃 NSC89-2314-B-182-077, NSC90-2314-B-182-040) (SCI) *Corresponding author.
45. Wang TH, Horng SG, Chang CL, Wu HM, Tsai YJ, Wang HS*, Soong YK (2002) Human chorionic gonadotropin-induced ovarian hyperstimulation syndrome is associated with up-regulation of vascular endothelial growth factor. *Journal of Clinical Endocrinology and Metabolism* 87, 3300-3308. (國科會研究計劃 NSC89-2314-B-182-041, NSC89-2314-B-182-142, NSC90-2314-B-182-107) (SCI) *Corresponding author.
46. Wang CW, Lai YM, Chan PR, Horng SG, Chang CL, Chen CK, Wu HM, Huang HY, Wang HS, Soong YK (2002) Resumption of meiosis-I tissue to enucleated preovulatory oocytes: a preliminary report. *Journal of Assisted Reproduction and Genetics* 19, 493-499. (SCI)
47. Horng SG, Chao AS, Wang HS, Soong YK (2002) Use of lambda sign in fetal reduction of dizygotic triplets after intracytoplasmic sperm injection. *Chang Gung Medical Journal* 25, 469-473.
48. Horng SG, Chang CL, Wu HM, Wang CW, Cheng CK, Huang HY, Wang HS, Soong YK (2002) Laser-assisted hatching of embryos in women of advanced age after in vitro fertilization: a preliminary report. *Chang Gung Medical Journal* 25, 531-537.
49. Wu HM, Chiang CH, Huang HY, Chao AS, Wang HS, Soong YK (2003) Detection of the subendometrial vascularization flow index by three-dimensional ultrasound may be useful for predicting the pregnancy rate for patients undergoing in vitro fertilization-embryo transfer. *Fertility Sterility* 79, 507-511. (SCI)
50. Jung H, Wang SY, Yang IW, Hsueh DW, Yang WJ, Wang TH, Wang HS (2003) Detection and treatment of mycoplasma contamination in cultured cells. *Chang Gung Medical Journal* 26, 250-258. (長庚醫院研究計劃 CTRP-1007, CTRP-1008)

51. **Wang HS**, Wang TH (2003) Polycystic ovary syndrome (PCOS), insulin resistance and insulin-like growth factors (IGFs)/IGF-binding proteins (IGFBPs). *Chang Gung Medical Journal* 26, 540-553. (國科會研究計劃 NSC90-2314-B-182A-150, NSC90-2314-B-182-040, NSC90-2314-B-182-107, 長庚醫院研究計劃 CMRP-0890)
52. Chen CK, Shen GY, Horng SG, Wang CW, Huang HY, **Wang HS**, Soong YK (2003) The relationship of pronuclear stage morphology and chromosome status at cleavage stage. *Journal of Assisted Reproduction and Genetics* 20, 413-420. (SCI)
53. Wang TH, Lee YS, Chen ES, Gong WH, Chen LK, Hsueh DW, Wei ML, **Wang HS***, Lee YS. (2004) Establishment of cDNA microarray analysis at the Genomic Medicine Research Core Laboratory (GMRCL) of Chang Gung Memorial Hospital. *Chang Gung Medical Journal* 27, 243-260. (長庚醫院研究計劃 CTRP-1006, CTRP-1007, CTRP-1260, CTRP-1008) *Corresponding author.
54. Chen CK, Wang CW, Tsai WJ, Hsieh LL, **Wang HS***, Soong YK. (2004) Evaluation of meiotic spindles in thawed oocytes after vitrification using polarized light microscopy. *Fertility & Sterility* 82: 666-672. (SCI) *Corresponding author.
55. Chen CK, Wu YC, Shen GY, Lin CY, Wang ML, Lee MW, Huang HY, **Wang HS**, Soong YK. (2004) Pre-implantation genetic diagnosis: A preliminary report of 2 years of experience. *Chang Gung Medical Journal* 27, 726-733.
56. Chiu CH, Tang P, Chu C, Hu S, Bao Q, Yu J, Chou YY, **Wang HS**, Lee YS. (2005) The genome sequence of *Salmonella enterica* serovar Choleraesuis, a highly invasive and resistant zoonotic pathogen. *Nucleic Acid Research* 33, 1690-1698. (SCI)
57. Wu WM, Tsai HJ, Pang JH, **Wang HS**, Hong HS, Lee YS. (2005) Touchdown thermocycling program enables a robust single nucleotide polymorphism typing method based on allele-specific real-time polymerase chain reaction. *Analytic Biochemistry* 339, 290-296. (SCI)
58. Wu WM, Tsai HJ, Pang JH, Wang TH, **Wang HS**, Hong HS, Lee YS. (2005) Linear allele-specific long-range amplification: a novel method of long-range molecular haplotyping. *Human Mutation* 26, 393-394. (SCI)
59. Wang TH, Chang YL, Peng HH, Wang ST, Lu HW, Teng SH, Chang SD, **Wang HS**. (2005) Rapid detection of fetal aneuploidy using proteomics approaches on amniotic fluid supernatant. *Prenatal Diagnosis* 25, 559-566. (SCI)
60. Lee YS, Chen CH, Chao A, Chen ES, Wei ML, Chen LK, Yang KD, Lin MC, Wang YH, Liu JW, Eng HL, Chiang PC, Wu TS, Tsao KC, Huang CG, Tien YJ, Wang TH, **Wang HS** and Lee YS. (2005) Molecular signature of clinical severity in patients infected with severe acute respiratory syndrome coronavirus (SARS-CoV). *BMC Genomics* 6:132. (doi:10.1186/1471-2164-6-132) (SCI)
61. Wang TH, Chan TH, Chen CW, Kung WH, Lee YS, Wang ST, Chang TC and **Wang HS*** (2006) Paclitaxel (Taxol) upregulates expression of functional interleukin-6 in human ovarian cancer cells through multiple signaling pathways. *Oncogene* 25:4857-4866. Epub on 20 March 2006; doi:10.1038/sj.onc.1209498 (SCI) *Corresponding author.
62. **Wang HS** (2006) The role of metformin in the treatment of polycystic ovary syndrome (PCOS). *Chang Gung Medical Journal* 29:445-447.
63. Liang CL, **Wang HS**, Hung KS, His E, Sun A, Kuo YH, Juo SH. (2006) Evaluation of MMP3 and TIMP1 as Candidate Genes for High Myopia in Young Taiwanese Men. *American Journal of Ophthalmology* 142:518-520. (SCI)
64. Huang HY, Chan SH, Yu HT, **Wang HS**, Lai CH, Soong YK. (2006) Interleukin-18 system messenger RNA and protein expression in human endometrium during the menstrual cycle. *Fertility & Sterility* 86:905-913.
65. Wang TH, Chang CL, Wu HM, Chiu YM, Chen CK, **Wang HS***. (2006) Insulin-like growth factor-II (IGF-II), IGF-binding protein-3 (IGFBP-3), and IGFBP-4 in follicular fluid are associated with oocyte maturation and embryo development. *Fertility & Sterility* 86:1392-1401. (SCI) *Corresponding author.
66. Liang CL, Hung KS, Tsai YY, Chang W, **Wang HS**, Juo SH. (2007) Systematic assessment of the tagging polymorphisms of the COL1A1 gene for high myopia. *Journal of Human Genetics* DOI 10.1007/s10038-007-0117-6. (SCI)
67. Tsai MS, Hwang SM, Chen KD, Lee YS, Hsu LW, Chang YJ, CN Wang, HH Peng, YL Chang, AS Chao, SD Chang, KD Lee, TH Wang, **Wang HS**, Soong YK (2007) Functional Network Analysis on the Transcriptomes of Mesenchymal Stem Cells Derived from Amniotic Fluid, Amniotic Membrane, Cord Blood, and Bone Marrow. *Stem Cells* DOI: 10.1634/stemcells.2007-0023. (SCI)
68. Wang CN, Chen CK, **Wang HS**, Chiueh HY, Soong YK. (2007) Successful management of heterotopic cesarean scar pregnancy combined with intrauterine pregnancy after in vitro fertilization-embryo transfer. *Fertility & Sterility* 88:706.e13-6. (SCI)
69. Chen CL, Cheung LWT, Lau MT, Choi JH, Auersperg N, **Wang HS**, Wong AST, Leung PCK (2007) Differential role of gonadotropin-releasing hormone on human ovarian epithelial cancer cell invasion. *Endocrine* 31:311-320. (SCI)
70. Lee YS, Tsai CN, Tsai CL, Chang SD, Hsueh DW, Liu CT, Ma CC, Lin SH, Wang TH, **Wang HS**. (2008) Comparison of whole genome amplification methods for further quantitative analysis with microarray-based comparative genomic hybridization. *Taiwan Journal of Obstetrics & Gynecology* 47:32-41.
71. Wang CW, Horng SG, Chen CK, **Wang HS**, Huang HY, Lee CL, Soong YK. (2008) Ovulation induction with tamoxifen and alternate-day gonadotrophin in patients with thin endometrium. *Reproductive BioMedicine Online* 17: 20-26. (SCI)
72. Wu HM, Lin-Tan DT, Wang ML, Huang HY, **Wang HS**, Soong YK, Lin JL. (2008) Cadmium level in seminal plasma may affect the pregnancy rate for patients undergoing infertility evaluation and treatment. *Reproductive Toxicology* 25:481-484. (SCI)

73. Horng SG, Wang TH, **Wang HS*** (2008) Estradiol-to-testosterone ratio is associated with response of metformin treatment in women with clomiphene citrate-resistant polycystic ovary syndrome (PCOS). *Chang Gung Medical Journal* 31:477-483. ***Corresponding author.**
74. Lee YS, Chao A, Chao AS, Chang SD, Chen CH, Wu WM, Wang TH, **Wang HS** (2008) CGeGH: A tool for molecular karyotyping using DNA microarray-based comparative genomic hybridization (array-CGH). *Journal of Biomedical Science* 15:687-696. (SCI)
75. Wang TH, **Wang HS*** (2009) A genome-wide association study primer for clinicians. *Taiwan Journal of Obstetrics and Gynecology* 48:89-95. ***Corresponding author.**
76. Wang TH, Chao AS, Chen JK, Chao A, Chang YL, Cheng PJ, Chang SD, **Wang HS*** (2009) Network Analyses of differentially expressed proteins in amniotic fluid supernatant associated with abnormal human karyotypes. *Fertility and Sterility* 92:96-107. (SCI) ***Corresponding author.**
77. Choi JH, Chen CL, Poon SL, **Wang HS**, Leung PC. (2009) Gonadotropin-stimulated EGFR expression in human ovarian surface epithelial cells: involvement of cyclic AMP-dependent Epac pathway. *Endocrine Related Cancer* 16:179-188. (SCI)
78. Huang HY, **Wang HS**, Chan SH, Lee CL, Wang CW, Soong YK (2009) Granulosa-lutein cell growth differentiation factor-9 (GDF-9) mRNA and protein expression in in vitro fertilization (IVF) cycles: relation to characteristics of ovulation induction and IVF. *Fertility and Sterility* 91:1583-1585. (SCI)
79. Wu HM, **Wang HS**, Huang HY, Soong YK, MacCalman CD, Lueng PCK. (2009) GnRH signaling in intrauterine tissues. *Reproduction* 137: 769-777. (SCI)
80. Wu HM, Cheng JC, **Wang HS**, Huang HY, MacCalman CD, Lueng PCK. (2009) Gonadotropin-releasing hormone type II induces apoptosis of human endometrial cancer cells by activating GADD45. *Cancer Research* 69:4202-4208. (SCI)
81. Huang HY, Yu HT, Chan SH, Lee CL, **Wang HS**, Soong YK (2010) Eutopic endometrial interleukin-18 system mRNA and protein expression at the level of endometrial myometrial interface in adenomyosis patients. *Fertility and Sterility* 94:33-39. (SCI)
82. Wang TH, Chao A, Tsai CL, Chang CL, Chen SH, Lee YS, Chen JK, Lin YJ, Chang PY, Wang CJ, Chao AS, Chang SD, Chang TC, Lai CH, **Wang HS**. (2010) Stress-induced phosphoprotein 1 as a secreted biomarker for human ovarian cancer promotes cancer cell proliferation. *Molecular & Cellular Proteomics* 9:1873-1884. (SCI)
83. **HS Wang**, BH Cheng, HM Wu, CF Yen, CT Liu, A Chao, TH Wang (2011) A mutant single nucleotide polymorphism of follicle-stimulating hormone receptor is associated with a lower risk of endometriosis. *Fertility and Sterility* 95:455-457. (SCI) **The 2012 IF of Fertil Steril is 4.17, Reproductive Biology 4/28=14.3%.**
84. Chao AS, Chao A, Wang CJ, Lai CH, **Wang HS*** (2011) Obstetric Outcomes of Pregnancy after Conservative Treatment of Endometrial Cancer: Case Series and Literature Review. *Taiwanese Journal of Obstetrics & Gynecology* 50:62-66. (SCI) ***Corresponding author**
85. Peng HH, Kao CC, Chang SD, Chao AS, Chang YL, Wang CN, Cheng PJ, Lee YS, Wang TH, **Wang HS** (2011) The effects of labor on differential gene expression in parturient women, placentas, and fetuses at term pregnancy. *Kaohsiung Journal of Medical Sciences* 27: 494-502. (SCI) **The 2010 IF of KJMS is 0.474**
86. Chang CL, **Wang HS**, Soong YK, Huang SY, Pai SY, Hsu SYT (2011) Regulation of oocyte and cumulus cell interactions by intermedin/adrenomedullin 2. *Journal of Biological Chemistry* 286:43193-43203. (SCI)
87. Huang SY, Wang CJ, Soong YK, **Wang HS**, Wang ML, Lin CY, Chang CL (2011) Site-specific endometrial injury improves implantation and pregnancy in patients with repeated implantation failures. *Reproductive Biology and Endocrinology* 9:140 doi:10.1186/1477-7827-9-140 (SCI)
88. Huang SY, Huang HY, Yu HT, **Wang HS**, Chen CK, Chang CL, Soong YK (2011) Low-dose GnRH antagonist protocol is as effective as the long GnRH agonist protocol in unselected patients undergoing in vitro fertilization and embryo transfer. *Taiwanese Journal of Obstetrics & Gynecology* 50:432-435. (SCI)
89. Wu HM, **Wang HS**, Huang HY, Soong YK, Chen CK, Lee CL, Lueng PCK. (2012) Gonadotrophin-releasing hormone antagonist induces apoptosis in human decidual stromal cells: effect on GADD45a and MAPK signaling. *Human Reproduction* 27:795-804. (SCI)
90. Yu HT, Wang CJ, Lee CL, Huang HY, Chen CK, **Wang HS*** (2012) The role of diagnostic hysteroscopy before the first in vitro fertilization/intracytoplasmic sperm injection cycle. *Archives of Gynecology and Obstetrics* 286: 1323-1328. (SCI) ***Corresponding author The 2012 IF of AGO is 1.330, OBS/GYN 56/78=71.8%**
91. **HS Wang**, HM Wu, BH Cheng, CF Yen, PY Chang, A Chao, YS Lee, HD Huang, TH Wang (2012) Functional analyses of endometriosis-related polymorphisms in the estrogen synthesis and metabolism-related genes. *PLoS ONE* 7(11): e47374. doi:10.1371/journal.pone.0047374 (SCI) **The 2012 IF of PLOS One is 3.73, MULTIDISCIPLINARY SCIENCES 7/56=12.5%**
92. CL Tsai, CN Tsai, CY Lin, HW Chen, YS Lee, A Chao, **HS Wang**, TH Wang, CH Lai (2012). Secreted stress-induced phosphoprotein 1 activates the ALK2-SMAD signaling pathways and promotes cell proliferation of ovarian cancer cells. *Cell reports* 2: 283-293.
93. Chao A, Lin CY, Tsai CL, Hsueh S, Lin YY, Lin CT, Chou HH, Wang TH, Lai CH, **Wang HS*** (2013) Estrogen stimulates the proliferation of human endometrial cancer cells by stabilizing nucleophosmin/B23 (NPM/B23) *Journal of Molecular Medicine* 91:249-259. DOI 10.1007/s00109-012-0950-8. (SCI) ***Corresponding author 通訊指導作者 The 2012 IF of JMM is 4.668, MEDICINE, RESEARCH & EXPERIMENTAL 18/121=14.9%**
94. C Kao, A Chao, CL Tsai, CY Lin, WC Chuang, HW Chen, TC Yen, TH Wang, CH Lai and **HS Wang** (2013)

- Phosphorylation of signal transducer and activator of transcription 1 reduces bortezomib-mediated apoptosis in cancer cells. *Cell Death and Disease* 4, e512; doi:10.1038/cddis.2013.38 (SCI) The 2012 IF of CDD is 5.333, Cell biology 45/181=25%
95. Wu HM, **Wang HS***, Huang HY, Lai CH, Lee CL, Soong YK, Lueng PCK. (2013) Gonadotropin-releasing hormone type II (GnRH-II) agonist regulates the invasiveness of endometrial cancer cells through the GnRH-I receptor and mitogen-activated protein kinase (MAPK)-dependent activation of matrix metalloproteinase (MMP)-2. *BMC Cancer* 2013, 13:300 (SCI) *Corresponding author 通訊指導作者 The 2012 IF of BMC Cancer is 3.33, Oncology 73/197=37.1%.
 96. CL Tsai, HM Wu, CY Lin, YJ Lin, A Chao, TH Wang, S Hsueh, CH Lai, **HS Wang*** (2013). Estradiol and tamoxifen induce cell migration through GPR30 and activation of focal adhesion kinase (FAK) in endometrial cancers with low or without nuclear estrogen receptor α (ER α). *PLoS ONE* 8(9): e72999. (SCI) *Corresponding author 通訊指導作者 The 2012 IF of PLOS One is 3.73, MULTIDISCIPLINARY SCIENCES 7/56 =12.5%
 97. Chen CK, Wu D, Shen GY, Yu HT, Lin CY, Wang ML, Yeh HY, Huang HY, **Wang HS**, Soong YK, Lee CL (2014) Preimplantation genetic diagnosis by fluorescence in situ hybridization of reciprocal and Robertsonian translocations. *Taiwanese Journal of Obstetrics & Gynecology* 53:48-52. (SCI)
 98. Chen YP, Wu WH, Wu HM, Chen CK, **Wang HS**, Huang HY (2014) Effects of anti-Mullerian hormone and follicle stimulating hormone levels on in vitro fertilization pregnancy rate. *Taiwanese Journal of Obstetrics & Gynecology* 53:313-316. (SCI)
 99. C Kao, A Chao, CL Tsai, WC Chuang, WP Huang, GC Chen, CY Lin, TH Wang, **HS Wang** and CH Lai (2014) Bortezomib enhances cancer cell death by blocking the autophagic flux through stimulating ERK phosphorylation. *Cell Death and Disease* 5, e1510; doi:10.1038/cddis.2014.468 (SCI)
 100. Wei PC, Chao A, Peng HH, Chao AS, Chang YL, Chang SD, **Wang HS**, Chang YJ, Tsai MS, Sieber M, Chen HC, Chen SJ, Lee YS, Hwang SM, Tzu-Hao Wang TH (2014). SOX9 as a Predictor for Neurogenesis Potentiality of Amniotic Fluid Stem Cells. *Stem Cells Translational Medicine* 2014, 3:1138-1147. (SCI)
 101. Wu HM, Huang HY, Lee CL, Soong YK, Lueng PCK, **Wang HS*** (2015) Gonadotropin-Releasing Hormone Type II (GnRH-II) Agonist Regulates the Motility of Human Decidual Endometrial Stromal Cells: Possible Effect on Embryo Implantation and Pregnancy. *Biology of Reproduction* 2015 Apr;92(4):98. doi: 10.1095/biolreprod.114.127324. (SCI) *Corresponding author (IF: 3.45, Reproductive Biology 5/30)
 102. Tsai CL, Chao A, Jung SM, Tsai CN, Lin CY, Chen SH, Sue SC, Wang TH, **Wang HS**, Lai CH (2016) Stress-induced phosphoprotein-1 maintains the stability of JAK2 in cancer cells. *Oncotarget* 2016, 7(31): 50548-50563.
 103. Lin CY, Chao A, Wang TH, Lee LY, Yang LY, Tsai CL, **Wang HS***, Lai CH (2016) Nucleophosmin/B23 is a negative regulator of estrogen receptor α expression via AP2 γ in endometrial cancer cells. *Oncotarget* 2016; 7(37): 60038-60052. (SCI) *Corresponding author
 104. Yen CF, Liao SK, Huang SJ, Tabak S, Arcuri F, Lee CL, Arici A, Petraglia F, **Wang HS***, Kayisli UA. (2017) Decreased Endometrial Expression of Leukemia Inhibitory Factor Receptor Disrupts the STAT3 Signaling in Adenomyosis During the Implantation Window. *Reproductive Sciences* 24(8):1176-1186. (SCI) *Corresponding author
 105. Wu HM, Schally AV, Huang HY, Chao A, Chou HH, Lueng PCK, **Wang HS*** (2017) Growth hormone-releasing hormone antagonist inhibits the invasiveness of human endometrial cancer cells by down-regulating twist and N-cadherin expression. *Oncotarget* 2017; 8(3): 4410-4421. (SCI) *Corresponding author
 106. Yen CF, Huang SJ, Lee CL, **Wang HS***, Liao SK (2017) Molecular Characteristics of the Endometrium in Uterine Adenomyosis. *Reproductive Sciences* 24(10):1346-1361. (SCI) *Corresponding author
 107. **Wang HS**, Tsai CL, Chang PY, Chao A, Wu RC, Chen SH, Wang CJ, Yen CF, Lee YS, Wang TH (2018) Positive associations between upregulated levels of stress-induced phosphoprotein 1 and matrix metalloproteinase-9 in endometriosis/adenomyosis *PLoS ONE* 13(1): e0190573. (SCI)
 108. Tsai CL, Lee YS, Chao A, Yen CF, **Wang HS**, Wang TH (2018) Associations between a single nucleotide polymorphism of stress-induced phosphoprotein 1 and endometriosis/adenomyosis. *Taiwanese Journal of Obstetrics & Gynecology* 57 (2018) 270-275. (SCI)

C. Books:

1. 醫學教科書：女性生殖生理與內分泌學 (1999，初版)，王馨世 編著，台北合記圖書出版社(ISBN 957-666-552-3-精裝)。
2. Dear Hormone 親愛的荷小姐(2016，初版)，王馨世 著，康健雜誌社(ISBN 978-957-0388-70-1-平裝)。