

## CURRICULUM VITAE

### HAK-NAM KIM, D.V.M., Ph. D., H.C.L.D.

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DATE OF BIRTH	October 6, 1953
PLACE OF BIRTH	Kyoung-Ki Province, South Korea
MARITAL STATUS	Married
CHILDREN	One son, Princeton University Trustee 2001-2005, Harvard MBA & MPA
PRESENT POSITION	IVF Lab Director since Nov. 2001 Reproductive Institute of South Texas 110 E Savannah, Bldg. B, Suite 103 McAllen, Texas 78503

### EDUCATION

1995	Board Certification Board Certified as High-Complexity Clinical Laboratory Director(HCLD) by The American Board of Bioanalysis in Andrology and Emryology.	
1986-1990	Louisiana State University Department of Dairy Science Ph. D. Reproductive Physiology.	Baton Rouge, LA
1984-1986	Louisiana State University Department of Animal Science M.S. Reproductive Physiology.	Baton Rouge, LA
1982-1983	Ghent State University School of Veterinary Medicine Postgraduate Certificate. Reproductive Physiology.	Ghent, Belgium
1982	International Course by FAO, WHO & UNICEF Postgraduate Diploma. Food Science and Nutrition.	Ghent, Belgium
1982	Seoul National University School of Veterinary Medicine Graduate student. Obstetrics & Reproduction.	Seoul, Korea

1972-1976	Seoul National University Department of Veterinary Medicine D.V.M.	Seoul, Korea
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**EXPERIENCE**

Oct. 2000- Nov. 2001	IVF Lab Supervisor, Reproductive Endocrinology and Fertility Center. Crozer-Chester Medical Center. One Medical Center Boulevard, Upland, PA 19013	
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Nov. 1997- Apr. 1999	Medcenter One Director of Embryology/Andrology Laboratory	Bismarck, ND
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Dec. 1994- May 1997	The Center for Human Reproduction Clinical Scientist in A.R.T. Program	Chicago, IL
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Feb. 1994- Nov. 1994	Fertility Center of New England, Inc. Director of Assisted Fertilization Program	Reading, MA
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1991-1993	University of Tennessee Department of Obstetrics & Gynecology, Division of Reproductive Endocrinology, Section of Reproductive Biology Instructor, Senior Research Associate	Memphis, TN
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1990-1991	Asbestos Consulting Services, Inc. Laboratory Director	Baton Rouge, LA
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1989-1990	Analytical Laboratories of America, Inc. Electron microscopist	Baton Rouge, LA
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May 1988	Arch Consulting Service, Inc. Electron micorscopist, practical training	Baton Rouge, LA
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1986-1988	Louisiana State University Department of Dairy Science Research Assistant	Baton Rouge, LA
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1984-1986	Louisiana State University School of Veterinary Medicine Department of Epidemiology and Community Health Research Assistant	Baton Rouge, LA
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1981-1982	Kyoung-Ki Province Government Civil Veterinarian Officer	An-Yang, Korea
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1978-1981	The Korean Central Naval Base Director of Food and Water Inspection Laboratory Veterinary Officer, Lieutenant Senior Grade.	Jin-Hae, Korea
1976-1978	The 1 <sup>st</sup> Marine Corps Division Food Inspector Veterinary Officer, First Lieutenant	Po-Hang, Korea
Mar. 1976- July 1976	Korean Navy Academy Officers' Cadet School Cadet Officer	Jin-Hae, Korea

## MEMBERSHIPS

American Society for Reproductive Medicine  
European Society of Human Reproduction and Embryology (ESHRE)  
American Association of Bioanalysts  
International Embryo Transfer Society  
Electron Microscopy Society of America  
Louisiana Society for Electron Microscopy  
American Dairy Science Association  
Honor Society of Agriculture, Gamma Sigma Delta, LSU Chapter  
Louisiana Academy of Sciences  
Korea Veterinarian Association  
Korea Public Health Society  
English language club "The Group" in British Embassy, Seoul, Korea

## ACTIVITIES

Sep. 1988	The Division of Continuing Education of Louisiana State University Forty hour course on Sampling and Evaluation of Airborne Asbestos Dust NIOSH 582 Equivalent Certification Course. Certificate.	Baton Rouge, LA
July 1983- Aug. 1983	Scheldewindeke Artificial Insemination Center Short training for semen collection, evaluation, and freezing.	Scheldewindeke, Belgium
Feb. 1983- Mar. 1983	Ghent State University Short Training for Radioimmunoassay of hormones.	Ghent, Belgium
Aug. 1982- Oct. 1982	Ghent State University Intensive Dutch Language course. Certificate.	Ghent, Belgium
May 1982	Short training in dairy factory, "Hollebeekhoeve".	Kruikebe, Belgium

Mar. 1982	Ghent State University Short training in the Experimental Dairy Farm.	Ghent, Belgium
Aug. 1981- Sep. 1981	National Agricultural Development Institute Short training course of poultry meat inspection for Veterinarian. License: Poultry meat inspector.	Su-Won, Korea
Jan. 1978- Feb. 1978	Korea Marine Corps Intensive instructor course of martial arts “Tae-Kwon-Do”. Certificate of Black Belt (2 <sup>nd</sup> Don).	Po-Hang, Korea
July 1975- Aug. 1975	International Work Camp of the negative lepers’ village.	Dae-Jeon, Korea
June 1975- July 1975	National Institute of Health Short training course of microbiology. Certificate	Seoul, Korea
July 1974- Aug. 1974	International Work Camp for “Youth Ground” by UNESCO	Ee-Cheon, Korea
June 1974- July 1974	National Zoo Short training course. Certificate.	Seoul, Korea

## PUBLICATIONS

1. Kim HN. Minimal disturbance of meiotic spindle area at intracytoplasmic sperm injection (ICSI) improves fertilization rate with low 3PN rate. Accepted for oral presentation at the 14<sup>th</sup> Annual Meeting of the ESHRE, Goteborg, Sweden, June 21-24, 1998
2. Ripps BA, Kim HN, Zhu YP, Minhas BS. Effects of platelet activating factor treatment on hyperactivated sperm motion. *Journal of Assisted Reproduction and Genetics* 1997; 14(5):97S
3. Minhas BS, Ripps BA, Zhu YP, Kim HN, Burwinkel TH, Gleicher N. Platelet activating factor and conception. *American Journal of Reproductive Immunology* 1996; 35:267-271.
4. Minhas BS, Kim HN. Electroporation of microfertilized murine embryos. *Biomedical Products* 1994; 19(4):22-23.
5. Burwinkel TH, Kim HN, Buster JE, Minhas BS, Carson SA. Embryo survival after pronuclear injection and trophoctoderm biopsy. *American Journal of Obstetrics and Gynecology* 1994; 170:1199-1203.
6. Minhas BS, Kim HN, Zhu YP, Ripps BA, Burwinkel TH. Platelet activation factor treatment of spermatozoa enhances rabbit oocyte fertilization following subzonal sperm insertion. *Journal of Assisted Reproduction and Genetics* 1994; 11:308-311.

7. Minhas BS, Zhu YP, Kim HN, Burwinkel TH, Ripps BA, Buster JE. Embryonic platelet activating factor production in the rabbit increases during the preimplantation phase. *Journal of Assisted Reproduction and Genetics* 1993; 10:366-370
8. Ripps BA, Zhu YP, Burwinkel TH, Kim HN, Buster JE, Minhas BS. Platelet activating factor production from in vitro and in vitro fertilization murine embryos is similar. *American Journal of Reproductive Immunology* 1993; 30:101-104.
9. Minhas BS, Kim HN, Zhu YP, Ripps BA, Buster JE. Platelet activating factor treatment of spermatozoa enhances fertilization rates of rabbit oocytes utilizing subzonal insertion of sperm. *Theriogenology* 1993; 39:269.
10. Ripps BA, Zhu YP, Burwinkel TH, Kim HN, Buster JE, Minhas BS. Platelet activating factor production of in vitro fertilized murine embryos is similar to in vivo fertilized embryos. Fortieth Annual Meeting, Society for Gynecologic Investigation, Toronto, Canada, March 31-April 3, 1993; Abstract P 143, p.254.
11. Minhas BS, Zhu YP, Kim HN, Ripps BA, Buster JE. Platelet activating factor content and release from rabbit spermatozoa is stimulated by progesterone treatment. Fortieth Annual Meetings, Society for Gynecologic Investigation, Toronto, Canada, March 31-April 3, 1993; Abstract P349.
12. Burwinkel TH, Kim HN, Buster JE, Minhas BS, Carson SA. Murine embryo survival following pronuclear DNA injection and trophectoderm biopsy. Fortieth Annual Meeting, Society for Gynecologic Investigation, Toronto, Canada, March 31-April 3, 1993; Abstract P349. p.357.
13. Minhas, BS, Ripps BA, Zhu YP, Kim HN, Buster JE, Carson SA. Platelet activating factor content of human spermatozoa is inversely related to concentration, motility, and motile density parameters of the semen analyses. Fortieth Annual Meeting, Society for Gynecologic Investigation, Toronto, Canada, March 31-April 3, 1993; Abstract S162, p.149.
14. Kim HN, Burwinkel TH, Ripps BA, Buster JE, Minhas BS. Electroportation of sperm injected oocytes improves fertilization rates and subsequent development. Fortieth Annual Meeting, Society for Gynecologic Investigation, Toronto, Canada, March 31-April 3, 1993; Abstract S163, p.150.
15. Ripps BA, Zhu YP, Kim HN, Buster JE, Carson SA. Progesterone treatment stimulates human spermatozoal platelet activation factor. American Fertility Society conjointly with the Canadian Fertility and Andrology Society, Montreal, Canada, October 11-14, 1993; Abstract P349, p.357.
16. Zhu YP, Kim HN, Burwinkel TH, Ripps BA, Buster JE, Minhas BS. Embryonic platelet activating factor (PAF) production increases prior to implantation and is related to advancing embryonic development in the rabbit. Forty-eighth Annual Meeting, American Fertility Society, New Orleans, LA, November 2-5, 1992; Abstract P276, pS183.
17. Smith AL, Kim HN, Buster JE, Minhas BS. Fertilization and cleavage following subzonal injection of perivitelline sperm recovered from salt stored oocytes. Twenty-fifth Annual Meeting, Society for the Study of Reproduction,

- Raleigh, NC, July 12-15, 1992; *Biology of Reproduction* 46 (Suppl 1), Abstract 208, p.102.
18. Zhu YP, Smith AL, Kim HN, Burwinkel TH, Buster JE, Minhas BS. Embryonic platelet activating factor (PAF) production increases prior to implantation and is related to advancing embryonic development. Thirty-ninth Annual Meeting, Society for Gynecologic Investigation, San Antonio, Texas, March 18-22, 1992; Abstract 164, p.190.
  19. Kim HN, Burwinkel TH, Smith AL, Buster JE, Minhas BS. Microsurgical fertilization of rabbit oocytes matured in vitro. Thirty-ninth Annual Meeting, Society for Gynecologic Investigation, San Antonio, Texas, March 18-22, 1992; Abstract 183, p.200.
  20. Minhas BS, Kim HN, Smith AL, Burwinkel TH, Buster JE. Progesterone treatment of spermatozoa enhances fertilization rates of rabbit oocytes undergoing subzonal insertion of sperm. Thirty-ninth Annual Meeting, Society for Gynecologic Investigation, San Antonio, Texas, March 18-22, 1992; Abstract 436, p.326.
  21. Kim HN, Zhang L, Roussel JD, Godke RA. Development of in vitro fertilized (IVF) bovine oocytes using fetal bovine spleen cell and chick embryo fibroblast monolayers. *Biology of Reproduction* 1991; 44 (Suppl 1): 73.
  22. Kim HN, Zhang L, Roussel JD, Godke RA. Comparison of the effects of cumulus cells and oviductal cells on the development of in vitro fertilized (IVF) bovine embryos. *Proceedings of Louisiana Academy of Sciences* 1990; 53:54.
  23. Zang L, Kim HN, Roussel JD, Godke RA. Incubating bovine oocytes under an oil cover during in vitro fertilization (IVF) procedures. *Proceedings of Louisiana Academy of Sciences* 1990; 53:55.
  24. Kim HN, Hu YX, Roussel JD, Godke RA. Culturing murine embryos on bovine fetal spleen cell fibroblast and chick embryo fibroblast monolayers. *Theriogenology* 1989; 31:211.
  25. Kim HN, Roussel JD, Amborski GF, Hu YX, Godke RA. Monolayers of bovine fetal spleen cells and chick embryo fibroblasts for co-culture of bovine embryos. *Theriogenology* 1989; 31:212.
  26. Kim HN, Roussel JD, Amborski GF, Hu YX, Godke RA. Preparation of a chicken embryo fibroblast (CEF) co-culture system for bovine embryos. *Proceedings of Louisiana Academy of Sciences* 1989; 52:67.
  27. Kim HN, Roussel JD, Pool SH, Godke RA. The effect of purified FSH on the superovulatory response of dairy heifers. *Proceedings of Louisiana Academy of Sciences* 1989; 52:80.
  28. Kim HN, Hugh-Jones ME, Olcott BM, Strain GM, Godke RA. The “dummy calf” syndrome in neonatal beef calves. *Agri-Practice* 1988; 9(3):23-29.
  29. Kim HN, Roussel JD, Pool SH, Godke RA. The effect of a commercially-available purified FSH and bovine anti-PMSG serum on the superovulation of dairy heifers. *Theriogenology* 1988; 29:267.
  30. Kim HN, Roussel JD, Wiemer KE, Godke RA. Freezing bovine embryos using vitrification and direct plugging into liquid nitrogen. *Proceedings of Louisiana Academy of Sciences* 1988; 51:61.

31. Kim HN, Rorie RW, Youngs CR, White KL, Godke RA. The use of anti-PMSG with PMSG for superovulating beef cattle. *Theriogenology* 1987; 27:243.
32. Kim HN, Hugh-Jones ME, Olcott BM, Strain GM, Godke RA. Dummy calf syndrome: The lack of suckling ability in newborn calves. *Proceedings of Louisiana Academy of Sciences* 1987; 50:53.
33. Kim HN, Rorie RW, Youngs GR, Godke RA. Superovulation of beef donors with PMSG and anti-PMSG. *Proceedings of Louisiana Academy of Sciences* 1986; 50:53.
34. Olcott BM, Strain GM, Hugh-Jones ME, Aldridge BM, Cho DY, Kim HN. Suckling problem calves: definition, clinical and pathological findings. *Proceedings of 14<sup>th</sup> World congress on Diseases of Cattle, Dublin, 1986*; 2:1201-1206.
35. Hugh-Jones ME, Olcott BM, Strain GM, Kim HN, Godke RA. Dummy calves & other nursing disorders (3) epidemiological observations. *Thirty-seventh Annual Meeting ADRWSS, Athens, GA, 1985*; p.45.
36. Kim HN. *Fermented Dairy Products – Yogurt, Cottage Cheese – in the Developing Country. International Course in Food Science and Nutrition. Ghent, Belgium, 1982.*
37. Kim HN. *Manual for the Improvement of Nutrition, Food and Water Hygiene on the Naval Vessel. Jin-Hae, Korea, 1980*

**REPRODUCTIVE INSTITUTE OF SOUTH TEXAS  
MCALLEN, TEXAS**

Medical Director signature: \_\_\_\_\_  
**A comparison of clinic success rates may not be meaningful because patient medical characteristics and treatment approaches vary from clinic to clinic. For more details about this, along with information on how to interpret the statistics in this table, see pages ##-##.**

2007 ART CYCLE PROFILE							
Type of ART (a)				Patient Diagnosis			
IVF	100%	Procedural Factors:		Tubal factor	7%	Other factor	0%
GIFT	0%	With ICSI	50%	Ovulatory dysfunction	2%	Unknown factor	2%
ZIFT	0%	Unstimulated	0%	Diminished ovarian reserve	0%	Multiple Factors:	
Combination	0%	Used gestational carrier	3%	Endometriosis	0%	Female factors only	35%
		Used PGD	2%	Uterine factor	1%	Female & male factors	46%
				Male factor	7%		

2007 PREGNANCY SUCCESS RATES						Data verified by Esteban O. Brown, MD				
Type of Cycle			Age of Woman							
Fresh Embryos from Nondonor Eggs			<35	35-37	38-40	41-42	43-44 (d)			
Number of cycles			37	21	7	2	1			
Percentage of cycles resulting in pregnancies (b)			54.1	47.6	3/7	2/2	1/1			
Percentage of cycles resulting in live births (b,c)			48.6	19.0	2/7	0/2	1/1			
(Confidence Interval)			(31.9-65.6)	(5.4-41.9)						
Percentage of retrievals resulting in live births (b,c)			52.9	19.0	2/7	0/2	1/1			
Percentage of transfers resulting in live births (b,c)			54.5	20.0	2/7	0/2	1/1			
Percentage of transfers resulting in singleton live births (b)			27.3	15.0	1/7	0/2	1/1			
Percentage of cancellations (b)			8.1	0.0	0/7	0/2	0/1			
Average number embryos transferred			2.9	3.0	3.0	5.0	4.0			
Percentage of pregnancies with twins (b)			35.0	2/10	0/3	0/2	0/1			
Percentage of pregnancies with triplets or more (b)			15.0	0/10	1/3	0/2	0/1			
Percentage of live births having multiple infants (b,c)			9/18	1/4	1/2		0/1			

Frozen Embryos from Nondonor Eggs			<35	35-37	38-40	41-42	43-44 (d)
Number of transfers			6	2	1	1	0
Percentage of transfers resulting in live births (b,c)			3/6	2/2	1/1	0/1	
Average number of embryos transferred			3.0	3.0	3.0	3.0	

Donor Eggs	All Ages Combined (e)	
	Fresh Embryos	Frozen Embryos
Number of transfers	8	1
Percentage of transfers resulting in live births (b,c)	7/8	0/1
Average number of embryos transferred	2.6	3.0

CURRENT CLINIC SERVICES AND PROFILE					
Current Name: REPRODUCTIVE INSTITUTE OF SOUTH TEXAS					
Donor egg?	Yes	Gestational carriers?	Yes	SART member?	No
Donor embryo?	No	Cryopreservation?	Yes	Verified lab accreditation?	Yes
Single women?	Yes	(See Appendix C for details.)			

- (a) Reflects patient and treatment characteristics of ART cycles performed in 2007 using fresh nondonor eggs or embryos. 12/12/2008
- (b) When fewer than 20 cycles are reported in an age category, rates are shown as a fraction and confidence intervals are not given. Calculating percentages from fractions may be misleading and is not encouraged.
- (c) A multiple-infant birth is counted as one live birth.
- (d) Clinic-specific outcome rates for women older than 44 undergoing ART cycles using fresh or frozen embryos with nondonor eggs are not included because of small numbers. Readers are urged to review national outcomes for these age groups (see page ##).
- (e) All ages (including ages >44) are reported together because previous data show that patient age does not materially affect success with donor eggs.

