**Curriculum Vitae**

**OK-KYONG PARK-SARGE** Associate Professor of Physiology

**Present Work Address:** Department of Physiology

College of Medicine, University of Kentucky

Telephone: (859) 323-6067, e-mail: [okps@uky.edu](mailto:okps@uky.edu)

**Education:** 1989-93 Postdoc. Molecular Endocrinology

Northwestern University, Evanston, IL

1989 Ph.D.Physiology

University of Illinois, Urbana-Champaign, IL

1987 M.S. Physiology

University of Illinois, Urbana-Champaign, IL

1982 B.S. Seoul National University, South Korea

**Appointment**: 2006-2010 Director of Graduate Studies, Department of Physiology, UK

1. Associate Professor, Dept of Physiology University of Kentucky
   1. Joint appointee, Center for Toxicology, University of Kentucky

1993-1999 Assistant Professor, Dept of Physiology University of Kentucky

1992-1993 NIH Postdoctoral Fellow

1984-1988 Research Assistant and Lab Instructor, University of Illinois, IL

**Professional Experience**:

**Editorial and Professional Society Committees**

2000-2001 Annual Meeting Steering Committee, Endocrine Society

1999-2002 Editorial Board, *Endocrinology*

1997-2001 Editorial Board, *Biology of Reproduction*

1996-1999 Public Affairs Committee, Society for the Study of Reproduction

1989 Coordinator, The 9th Annual Mini-symposium

Center for Reproduction, Northwestern University

**Grant Review Study Section Service:**

2001-2003 NIH Biochemical Endocrinology Study Section Member

2000 NIH Biochemical Endocrinology Study Section ad hoc Member

1996, 1999 NIH Biochemical Endocrinology Study Section ad hoc Member

1996 Ad hoc Reviewer for NSF grants

**Manuscript Review Service:**

Endocrinology: Biology of Reproduction: Molecular Endocrinology: Steroids

Steroid Biochemistry and Molecular Biology: Journal of American Physiology

#### **Service at University Level:**

College of Medicine, Admissions Committee 2017-present

College of Medicine, Alternate List Subcommittee 2018-present

College of Medicine MD Admission Interviewer 2007, 2013-present

College of Medicine, MD-PhD, OMSF interviewer 2017- present

HONORS College, UK COM Early Assurance Committee 2018-present

College of Dentistry, 1st year Academic Performance Committee 2020-present

HONORS College, Search Committee, Director of Acad Affairs 2017

HONORS College Admission Reader 2013-2017

IBS Admission Interviewer 2003-2016

College of Med. Education Productivity Committee 2013

College of Medicine Diversity Advisory Committee 2011-2013

Graduate Council Committee on Fellowship and Traineeship 2013-2016

Six-year Review Committee for Behavioral Sciences 2007

Six-year Review Committee for Pharmacology 2002

Group facilitator: NIGMS Grant Writing workshop (Frazier, PI). 2003, 2004, 2006

College of Medicine Financial Aid Committee 1995-2001

ACS Institutional Research Grant Review Committee 1998-2001

College of Medicine Scholarship Committee 1998-2000

College of Medicine Task Force on Research 1996

Director of the UK Forum in Reproductive Sciences 1997

Director of the 15th UK Symposium in Reproductive Sciences 1996

#### **Service at Departmental Level:**

Physiology Education Committee 2006-present

Physiology Faculty Search Committee (Special Title Series) 2019

Physiology Graduate Affairs Committee 2006-2014

F31 tutorial series for MD-PhD students 2008

Director of Graduate Studies 2006-2010

Common Equipment Coordinator 2005-2010

Seminar Coordinator 1995-1996

Faculty Search Committee 1993-1998

Organizer, Molecular Biology Club 1993-1994

**Other Services:**

Faculty, UK PEPP, KY Council 2015, 2017, 2018

PEPP (Preprofessional Educational Preparation Program)

Advisor/Sponsor for UK Quiz Bowl Team 2011-present

Advisor/Sponsor for UK Apollo Pre-Health Club 2022-present

UK Science Outreach Center Activities 2011-present

Member & Board of Director (CKRSEF) 2016-present

CKRSEF (Central Kentucky Regional Science and Engineering Fair)

**Awards**: 2020 “A Teacher Who Made a Difference” award, UK College of Education

2014 Holsinger Teaching Award, UK Physiology

2009 Holsinger Teaching Award, UK Physiology

2005 Abraham Flexner Master Education Award, UKMC

2005 Holsinger Teaching Award, UK Physiology

2000 Wethington University of Kentucky College of Medicine Research Award

1998 University of Kentucky College of Medicine Faculty Research Award

1990-1992 Mellon Foundation Postdoctoral Award

1991 Constant Campbell Research Award

1990 Young Investigator Travel Award, Endocrine Society

1982 Graduated *magna cum laude*, Seoul National University

1982 Seoul National University President Award

* 1. Seoul National University Alumni Fellowship

**Extramural Grants**:

**NIH R25** GM125680, Frazier (PI) “Interactive Mentoring to Enhance Research Skills (IMERS)”

Role:Co-PI Funding Period: 09/01/2018-08/31/2023

**HHMI** New Sustaining Excellence Awards for Science Education to Research Universities (Dr. Vincent Cassone, Director) “Student Retention and Success in STEM through collaborative and multi-layered STEMCats Freshmen Program at the University of Kentucky”

Role: Associate Director Funding Period: 2014-2019

**NIH R13** GM058252 (Frazier DT, PI) "Interactive Learning Modules for Writing Grant Proposals"

Role: Co-PI Funding Period: 2012-2018

**NIH R01 Supplement** for re-entry (AR045617-09W, Esser KA, PI) Role: Co-I Funding Period: 08/12/2010-02/28/2012

**NIH R01** (HD36879, PI) "Regulation and Function of Estrogen Receptor- in Ovary" Role: PI Funding Period: 6/1/1999-5/31/2004

**NIH R01** (HD416909, PI) "Cellular and Molecular Mechanisms of Mammalian Ovulation"

Role: PI Funding Period: 9/01/2002-8/31/2004

**NIH R03** (ES08501, PI) "Molecular Mechanisms of TCDD-Induced Anovulation" Role: PI Funding Period: 12/1/1996-11/30/1998

**Lalor Foundation** Postdoctoral Fellowship (Sponsor of Dr. Jonathon Pinter)

"Functional Characterization of Estrogen Receptors in the Rat Ovary"

Role: Sponsor Funding Period: 7/1/1996-6/30/1997

**NIH R29** (HD30719, PI) "Progesterone Receptor Gene Regulation in the Rat Ovary" Role: PI Funding Period: 5/1/1994-4/30/2000

**NIH RCDA** Research Career Development Award (HD01135, PI) "Ovarian Progesterone Receptors" Role: PI Funding Period: 7/1/1996-6/30/2001

**NIH R01** (HD23195, Curry TE Jr, PI) "Role of Metallo-proteinases in ovarian function"

Role: Co-PI Funding Period: 07/01/1996-06/30/2000

**NIH R01** (HD34400, Curry TE Jr, PI) "Role of Metallo-proteinases in human ovary" Role: Co-PI Funding Period: 9/1/1998-8/31/2002

**Intramural Grant Support**:

UK Bond Issue Equipment Grant (PI) “Storm Phosphorimager”

Role: PI Funding Period: 7/01/99-6/30/00

UK Vice Chancellor Equipment Grant (PI) "Microplate Reader"

Role: PI Funding Period: 7/01/97-6/30/98

UKMC Equipment Grant (PI) "Luminometer"

Role: PI Funding Period: 7/01/95-6/30/97

UKMC Equipment Grant (PI) "Phosphorimager"

Role: PI Funding Period: 7/01/93-6/30/94

UKMC Internal Grant (PI) "Regulation of Ovarian Progesterone Receptors" Role: PI Funding Period: 7/01/93-6/30/94

**Invited Research Seminars**

1. Invited Speaker, University of Kentucky Symposium in Reproductive Sciences

2001 Invited/Declined, Gordon Conference, Reproductive Tract

2000 Invited Speaker, Ovarian Workshop, Madison, WI

2000 Invited Speaker, Gordon Conference, Reproductive Tract, London, CT

2000 Northwestern University, Center for Reproductive Science

1999 University of Louisville, Department of Biochemisty and Molecular Biology

1998 Invited Speaker, 11th Asia-Oceania Congress of Endocrinology

1998 University of Kentucky, Graduate Center for Toxicology

1996 University of Kentucky, Department of Pharmacology

1996 University of Cincinnati, Department of Cell & Molecular Physiology

1996 University of Illinois (U-C), Dept of Molecular & Integrated Physiology

1996 Wayne State University, Department of Pathology

1994 University of Kentucky, Department of Biology

1994 University of Kentucky, Department of OB/GYN

1994 University of Kentucky, Department of Pathology

1992 University of Kentucky, Department of Physiology

1992 University of Notre Dame, Department of Biology

1988 Northwestern University, Center for Reproductive Science

**Teaching:**

**Curriculum Management**

**Course Development:**

Honor 152 (Sex & Society) (with Kevin Sarge) (3 credits)

HON 152 (Drugs, Environment, & Our Health) (with Hollie Swanson) (3) BIO 199 (Undergraduate Research Experience: Drug-Drug Interaction in Breast Cancer Cells) (with Hollie Swanson) (1)

PGY 312 (Cell Physiology & Pathophysiology) (3)

PGY 401G (Human Reproduction, Technology, & Society) (3)

PGY 412G online section (Principles of Human Physiology) (4)

PGY 412G Honors section (Honors Principles of Human Physiology) (4)

PGY 413G (Critical Thinking in Principles of Human Physiology) (1)

PGY 630 (Special Topics: Neonatal physiology) (3)

PGY 630 (Special Topics: Pathophysiology of Endocrine

and Metabolic Diseases)

**Course Directorship:**

Fall Term: Director, PGY 207, 2020-2021 (1 credit)

Director, PGY 312, 2015-2017 (3 credits)

Director, PGY 401G, 2015-2020 (3 credits)

Director, PGY 412G-001, 2005-2018 (4 credits)

Director, PGY 412G-201 (online), 2014-2018 (4 credits)

Director, PGY 412G-002 (Honors), 2017-present (4 credits)

Director, PGY 413G, 2014-2017 (1 credit)

Director, PGY 502, 2003, 2004 (5 credits)

Director, PGY 630 (Neonatal Physiology), 2015, 2016 (2 credits)

Director, PGY 774, 1995 (1 credit)

Co-Director, HON 152 (section: Sex and Society) 2012-present (3 credits)

Co-Director, HON 152 (section: Drugs) 2015-2017 (3 credits)

Spring Term: Director, PGY 207, 2020-present (1 credit)

Director, PGY 401G, 2015-2020 (3 credits)

Director, PGY 412G-001, 2006-2018 (4 credits)

Director, PGY 412G-201 (online), 2014-2018 (4 credits)

Director, PGY 413G, 2014-2017 (1 credit)

Director, PGY 560, 2021-present (1 credit)

Director, PGY 774, 1996 (1 credit)

Director, OB 814, 2021-present (5 credits)

Summer: Director, PGY 206-210 (online), 2022 (3 credits)

Director, PGY 412G-220 (online), 2014-2018 (4 credits)

Director, PGY 560, 2020 (1 credit), 2020, UKCOM Summer Badge

**Classroom Teaching**

OBI 814- Dental Human Function 2019-present

Cell, Endocrine & Reproduction Blocks

PGY818/MD818- Human Function 2003-2012

Endocrine & Reproduction Block

PGY791- laboratory rotations 1994-2003

PGY774- Graduate student Proseminar 1995, 1996

PGY 690- Readings in Cell and Molecular Physiology 1995-2000

Transcription Block

PGY 630 Endocrine and Metabolic Diseases 2019-present

PGY630 Neonatal Physiology 2015, 2016

PGY 607- Advanced Endocrinology Receptors 1996-1999

PGY606- Advanced Neurophysiology Receptors 1995

PGY602- Companion Course for PGY 502 2003-2010, 2013, 2014

Cell Physiology, Endocrine & Reproduction Blocks

PGY590- Cell and Molecular Physiology 1995-2000

Transcription Block

PGY560 Pathophysiology & Integrative Physiology 2017-present

PGY504 Independent Study in Physiology 1996-present

PGY502- Systems, Cell and Molecular Physiology 2002-2010, 2013, 2014

Cell Physiology, Endocrine & Reproduction Blocks

PGY412G-001 Principles of Human Physiology 2002-present

Endocrine & Reproduction Blocks

PGY 412G-002 Honors Section 2017-present

Endocrine & Reproduction Blocks

PGY412G-201 ONLINE Section 2014-present

Endocrine & Reproduction Blocks

PGY413G Critical Thinking in Prin. of Physiol 2014-present

Cell Phys, Endocrine & Reproduction Blocks

PGY401G Human Reprod., Technology, & Society 2015-present

PGY 312 Cell Physiology & Pathophysiology 2016-present

(a quarter of the course)

PGY 207 Case Studies- Elementary Physiology 2018-present

PGY 206 Elementary Physiology 2018-present

(Endocrine, Reproduction, and GI blocks)

Molecular Biology Informal Lectures 1993-1994

IBS 606- Integrated Physiology 2005-2011

Endocrine & Reproduction Block

IBS 602- Molecular Biology 2002-2006

Transcription Block

DSP130- Discovery Seminar 2008-2009

HON152- The World’s Natural & Physical Phenomena 2012, 2013, 2015, 2016

HON 333 Journal/Journey Project (independent study) 2012-2013

BIO199 – Undergraduate Research Experience 2015, 2016, 2017

TOX 680- Toxicology (Reproductive Toxicology) 2002-2005

**Student Advising Service**

**Student Organizations:**

Apollo Society, 2022- UK undergraduates Promotes the professional

Advisor information and service activities

Quiz Bowl, 2011-present UK undergraduates Enrich College experience with the

Advisor timeless, academic challenge of

collegiate quiz bowl & volunteering

Med Pets, 2012-2015 Medical students Sharing and exchanging information

Advisor on Pets; Sharing Pet Cares and Fun

**Student Advisory Committees:**

Student Department Year

Royce Johnson Medical Sciences (MS) 2021, Chair

Elliann Yocum Medical Sciences (MS) 2021, Chair

Sydney Johnson Medical Sciences (MS) 2021

Nicholas McVay Medical Sciences (MS) 2021

Ezekiel Rozmus Medical Sciences (MS) 2021

Alexandra Harris Medical Sciences (MS) 2020, Chair

Gudlavalleti, Bhavani Medical Sciences (MS) 2020, Chair

Rachel Craster Medical Sciences (MS) 2020, Chair

Drew Jennings Medical Sciences (MS) 2019

Jonathan Hart Foley Medical Sciences (MS) 2019

Berry Ordu Medical Sciences (MS) 2019

Greg Watts Medical Sciences (MS) 2019

Dalton Hall Medical Sciences (MS) 2019

Well, Jordan Medical Sciences (MS) 2019, Chair

Katherine Flynn Medical Sciences (MS) 2019, Chair

Shannon Murray Medical Sciences (MS) 2018

Jeffrey Chu Medical Sciences (MS) 2018, Chair

Sithisarn, Thitinart Physiology (PhD) 2017

Titay Ayano Medical Sciences (MS) 2016

Vanessa White Kinesiology (MS) 2015

Katy Murray Medical Sciences (MS) 2014

Adegoke, Denise A Medical Sciences (MS) 2014

Evan Henson Medical Sciences (MS) 2008, Co-Chair

Steve Hosack Medical Sciences (MS) 2007, Co-Chair

Natalee Wallis Pharmacology (PhD) 2011

Tao Tang Nutritional Sciences (PhD) 2009

Anjali Mishra Pharmacology (PhD) 2007

Ben Brammel Biology (PhD) 2006

Hollie Skaggs Toxicology (PhD) 2007

Xabier Arzuaga Toxicology (PhD) 2005

Michael Byers Physiology (MS) 1998 Co-Chair

Houng-Wei Tsai Physiology (PhD) 2001

Sandra Kuhlman Physiology (PhD) 2001

Michelle O’Brien Toxicology (PhD) 1999

Yong-Ho In Visiting Scholar from Korea 2001

Undergraduate Students: Independent Studies (Laboratory Research)

Angela Lee (Biology)

Aaron Davis (Biology)

Steven Hsu (Biology)

HONORS Capstone Research Advisor: Literature-based Research

Karly Kindoll 2018

**Postgraduate Scholars:**

Dr. A.Alimov (coadvisor with Dr. Koszweski) 2002-2004

Dr. C. Wilkerson (coadvisor with Dr. K. Sarge) 2002-2004

Dr. R. Hilgarth (coadvisor with Dr. K. Sarge) 2002-2004

Dr. Cai-xia Guo 1999-2001

Dr. Chemyong Ko 1999-2001

Dr. KyungSoo Park 1997-1999

Dr. Jonathon Pinter 1995-1996

**Outreach Activities**:

Board of Director, CKRSEF 2013-present

Central Kentucky Regional Science and Engineering Fair

CKRSEF, Science Review Committee 2013-present

CKRSEF, Judge 2002-present

Glendover Elementary, Girls for Science Acitivity 2015-2016

Dunbar High, Science Bowl assist coach 2012-2014

Paul Laurence Dunbar High School Council 2011-2013

Winburn Middle School Council 2007-2009

FCPS Magnet Education Review Committee 2007

KAGE-Lex Steering Committee 2006

Meadowthorpe ElementarySchool Council 2005-2007

Meadowthorpe Elementary Curriculum Committee 2005-2006

Dixe Elementary Curriculum Committee 2002-2003

### Bibliography

**Peer-Reviewed Publications**

2016 Swanson HI, Park-Sarge OK, Rodrigo-Peiris T, Xiang L, Cassone VM (2016) Development of a course based undergraduate research experience to introduce drug-receptor concepts. J Medical Education & Currricular Development. 3:57-66

2012 [Srikuea R](http://www.ncbi.nlm.nih.gov/pubmed?term=Srikuea%20R%5BAuthor%5D&cauthor=true&cauthor_uid=22648952), [Zhang X](http://www.ncbi.nlm.nih.gov/pubmed?term=Zhang%20X%5BAuthor%5D&cauthor=true&cauthor_uid=22648952), [Park-Sarge OK](http://www.ncbi.nlm.nih.gov/pubmed?term=Park-Sarge%20OK%5BAuthor%5D&cauthor=true&cauthor_uid=22648952), [Esser KA](http://www.ncbi.nlm.nih.gov/pubmed?term=Esser%20KA%5BAuthor%5D&cauthor=true&cauthor_uid=22648952) (2012) VDR and CYP27B1 are Expressed in C2C12 Cells and Regenerating Skeletal Muscle: Potential Role in Suppression of Myoblast Proliferation. [Am J Physiol Cell Physiol.](http://www.ncbi.nlm.nih.gov/pubmed/22648952) 303:396-405.

2011 Sarge KD, Park-Sarge OK (2011) SUMO and its role in human diseases. Int Rev Cell Mol Biol. 288:167-83.

2009 Sarge KD, Park-Sarge OK (2009) Sumoylation Detection in vitro and in vivo. Methods Mol. Biol.590:265-77

2009 Sarge KD, Xing H, Park-Sarge OK (2009) [Chromosome-wide analysis of protein binding and modifications.](http://www.ncbi.nlm.nih.gov/pubmed/19763507?itool=EntrezSystem2.PEntrez.Pubmed.Pubmed_ResultsPanel.Pubmed_RVDocSum&ordinalpos=2) Methods Mol Biol. 590:223-33.

2009 Sarge KD, Park-Sarge OK (2009). [Sumoylation and human disease pathogenesis.](http://www.ncbi.nlm.nih.gov/pubmed/19282183?ordinalpos=1&itool=EntrezSystem2.PEntrez.Pubmed.Pubmed_ResultsPanel.Pubmed_DefaultReportPanel.Pubmed_RVDocSum) Trends Biochem Sci. 34:200-5.

2009 Sarge KD, Park-Sarge OK (2009). [Mitotic bookmarking of formerly active genes: keeping epigenetic memories from fading.](http://www.ncbi.nlm.nih.gov/pubmed/19221503?ordinalpos=2&itool=EntrezSystem2.PEntrez.Pubmed.Pubmed_ResultsPanel.Pubmed_DefaultReportPanel.Pubmed_RVDocSum) Cell Cycle. 8:818-23.

2009 Park-Sarge OK and Sarge KD (2009). Detection of sumoylated proteins. Methods Mol. Biol.    464: 255-65.

2005 [Sarge KD, Park-Sarge OK (2005).](http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&db=pubmed&dopt=Abstract&list_uids=16188444&query_hl=1&itool=pubmed_docsum) Gene bookmarking: keeping the pages open.  
Trends Biochem Sci. 30:605-10 Review

2005 [Alimov AP, Park-Sarge OK, Sarge KD, Malluche HH, Koszewski NJ (2005).](http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&db=pubmed&dopt=Abstract&list_uids=15890770&query_hl=1&itool=pubmed_docsum) Transactivation of the parathyroid hormone promoter by specificity proteins and the nuclear factor Y complex. Endocrinology. 146:3409-16

2005 [Koszewski NJ, Alimov AP, Langub MC, Park-Sarge OK, Malluche HH (2005).](http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&db=pubmed&dopt=Abstract&list_uids=15730058&query_hl=1&itool=pubmed_docsum) Contrasting mammalian PTH promoters: identification of transcription factors controlling PTH gene expression.Clin Nephrol. 63:158-62 *Review*

2005 [Xing H, Wilkerson DC, Mayhew CN, Lubert EJ, Skaggs HS, Goodson ML, Hong Y, Park-Sarge OK, Sarge KD (2005).](http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&db=pubmed&dopt=Abstract&list_uids=15662014&query_hl=1&itool=pubmed_docsum) Mechanism of hsp70i gene bookmarking.  
Science. 307:421-3

2004 [Koszewski NJ, Alimov AP, Park-Sarge OK, Malluche HH (2004).](http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&db=pubmed&dopt=Abstract&list_uids=15297458&query_hl=1&itool=pubmed_docsum) Suppression of the human parathyroid hormone promoter by vitamin D involves displacement of NF-Y binding to the vitamin D response element. J Biol Chem. 279:42431-7

2004 Alimov AP, Langub C, Malluche HH, Park-Sarge OK, Koszewski NJ (2004) Contrasting Mammalian PTH promoters: NF-Y binds to a DNA element unique to the human PTH promoter and acts as a transcriptional enhancer. Endocrinology 145:2713-20

2004 Xing H, Mayhew CN, Cullen KE, Park-Sarge OK, Sarge KD (2004) HSF1 modulation of hsp70 mRNA polyadenylation via interaction with Symplekin" J Biol Chem 279(11):10551-5

2004 Hilgarth RS, Murphy LA, O’Connor CM, Clark JA, Park-Sarge OK, Sarge KD (2004) Identification of Xenopus HSF2: Conserved role of sumoylation in regulating DNA-binding activity of HSF2 proteins. Cell Stress Chaperone 9:214-20

2004 Cao J, Wood M, Liu Y, Park-Sarge OK, Vore M (2004) E2 represses PRL-induced expression of Ntcp through Interaction of ERα and Stat5a in liver cells. Endocrinology 145(4):1739-49

2003 Halgarth RS, Hong Y, Park-Sarge OK, Sarge KD (2003) Mechanisms regulating stress-induced SUMO-1 modification of HSF1. Biochem Biophys Res Commun 303:196-200

1. Gothard LQ, Park-Sarge OK, and Sarge KD (2003) Lowered Temperature Set-Point for Activation of the Cellular Stress Response in T-Lymphocytes. J Biol Chem 278:9322-9326

2001 Frasor J, KyungSoo Park, Byers MJ, Kitamura T, Telleria C, Yu-Lee L-Y, Park-Sarge OK, Gibori G (2001) Differential roles for Stat5a and Stat5b in prolactin stimulation of estrogen receptor alpha and beta transcription. Mol Endocrinol 2172-2181

2001 Hong Y, Rogers R, Matunis M, Goodson M, Park-Sarge OK, and Sarge KD (2001) Stress-induced SUMO-1 modification activates the DNA-binding activity of Heat Shock Transcription Factor 1 (HSF1). J Biol Chem 276:40263-40267

2001 Choi I, Ko C, Park-Sarge OK, Zhou Q, Hess R, Graves C, and Katzenellenbogen BS (2001) Human estrogen receptor beta-specific monoclonal antibodies: characterization and use in studies of estrogen receptor beta protein expression in reproductive tissue. Cell Mol Endocrinol 181:139-150

2001 Guo C-X, Savage LM, Park-Sarge OK (2001) Gonadotropins decrease ER mRNA stability in cultured rat granulosa cells. Endocrinology 142:2230-2237

2001 Goodson ML, Hong Y, Rogers R, Matunis MJ, Park-Sarge OK, Sarge KD (2001) SUMO-1 modification regulates both the subcellular localization and DNA-binding activity of heat shock transcription factor 2.  J Biol Chem 276:18513-18518

2000 Graham KM, Ko C, , KS Park, Park-Sarge OK (2000) Expression of an Intracisternal A-Particle-Like Element in Rat Ovary. Biochem Biophy Res Comm 278:48-57

2000 Ko C, Park-Sarge OK (2000) Progesterone receptor activation mediates LH-induced type-I pituitary adenylate cyclase activating polypeptide receptor (PAC1) gene expression in rat granulosa cells. Biochem Biophys Res Comm. 277:270-279

1999 Ko C, In YH, Park-Sarge OK (1999) Role of progesterone receptor activation in pituitary adenylate cyclase activating polypeptide (PACAP) gene expression in rat ovary. Endocrinology 140:5185-5194

1999 O'Brien M, Park KS, In YH, Park-Sarge OK (1999) Characterization of the estrogen receptor beta mRNA and protein in rat ovary. Endocrinology 140:4530-4541

1999 Shanmugam M, Krett NL, Maizels ET, Cutler RE, Peters C, Smith L, O'Brien ML, Park-Sarge OK, Rosen ST, Hunzicker-Dunn M (1999) Regulation of protein kinase C delta by estrogen in the MCF-7 human breast cancer cell line. Mol Cell Endocrinol 148:109-118

1998, Telleria CM, Ou J, Sugino N, Park KS, Park-Sarge OK, Gibori G (1998) Estrogen receptor-mRNA expression in the pregnant rat corpora lutea and in the temperature sensitive SV-40 transformed luteal cell line: regulation by prolactin. Endocrinology 139:2432-2442

1997, Byers M, Kuiper GJM, Gustafsson Jan-Ake, Park-Sarge OK (1997) Estrogen receptor- mRNA expression in the rat ovary: down regulation by gonadotropins. Mol Endocrinol 11:172-182

1996, Muhukejee A, Park-Sarge OK, Mayo KE (1996) Gonadotropins rapidly induce phosphorylation of cAMP response element binding protein (CREB) in rat granulosa cells. Endocrinology 137:3234-3245

1996, Pinter J, Deep C, Park-Sarge OK (1996) Progesterone receptors: expression and regulation in the mammalian ovary. Clin Obst Gynecol 39:424-435 *Review*

1995, Park-Sarge OK, Sarge KD (1995) Cis regulatory elements conferring cAMP-induced transcription of the rat progesterone receptor gene in transfected rat granulosa cells. Endocrinology 136:5430-5437

1995, Goodson ML, Park-Sarge OK, Sarge KD (1995) Differential expression of HSF2 mRNA splicing isoforms in spermatogenic cells of the mouse testis. Mol Cell Biol 15:5288-5293

1995, Park-Sarge OK, Parmer TG, Gu Y, Gibori G (1995) Does the rat corpus luteum express the progesterone receptor gene? Endocrinology 136:1537-1543

1994, Gu Y, Jow G-M, Moulton BC, Sensibar JA, Park-Sarge OK, Chen TC, Gibori G (1994) Involvement of apoptosis in decidual tissue regression and reorganization.Endocrinology 135:1272-1279

1994, Park-Sarge OK, Mayo KE (1994) Regulation of the progesterone receptor gene by gonadotropins and cyclic adenosine 3',5'-monophosphate in rat granulosa cells. Endocrinology 134:709-718

1994, Sarge KD, Park-Sarge OK, Kirby JD, Mayo KE, Morimoto RI (1994) Expression of heat shock factor 2 during mouse spermatogenesis. Biol Reprod 50:1334-1343

1991, Park OK, Mayo KE (1991) Transient expression of progesterone receptor mRNA in ovarian granulosa cells following the preovulatory LH surge. Mol Endocrinol 5:967-978

1990, Park OK, Gugneja S, Mayo KE (1990) Gonadotropin-releasing hormone gene expression during the rat estrous cycle: effects of pentobarbital and ovarian steroids. Endocrinology127:365-72

1987, Park OK, Ramirez VD (1987) Pregnanolone, a metabolite of progesterone, stimulates LH-RH release: in vitro and in vivo studies. Brain Res 437:245-52

1987, Park OK, Ramirez VD (1987) Circulating blood progesterone is pulsatile throughout the rat oestrous cycle. Acta Endocrinol (Copenh) 116:121-8

**Chapters**:

2009, Sarge KD, Park-Sarge OK (2009) Detection of proteins sumoylated in vivo and in vitro. In: Methods in Molecular Biology 590, Park-Sarge OK, Curry Jr TE (eds), New York: Humana Press, pp 265-277

2009, Sarge KD, Xing H, Park-Sarge OK (2009) Chromosome-Wide Analysis of Protein Binding and Modifications. In: Methods in Molecular Biology 590, Park-Sarge OK, Curry Jr TE (eds), New York: Humana Press, pp 223-233p

1994, Park-Sarge OK, Mayo KE. Molecular biology of the endocrine receptors in the ovary. In: Molecular Biology of Female Reproduction, JK Findley (ed), Academic Press, New York, pp 153-205

1993, Park-Sarge OK, Mayo KE. The application of molecular biology to the study of ovarian physiology. In: The Ovary, EY Adashi, PKC Leung (eds), Raven Press, New York, pp 501-527.

1991, Park OK, Gugneja S, Mayo KE. Gonadotropin-releasing hormone (GnRH) gene expression in the female rat. In: Modes of action of GnRH and GnRH analogs, M Conn (ed), Plenum Press, New York, pp223-240

1991, Dodson RE, Pei L, Park OK, Dykema JC, Mayo KE. Regulation of ovarian inhibin and activin gene expression by gonadotropins. In: Regulation and actions of FSH, NB Schwartz, M Hunzicker-Dunn (eds), Plenum Press, New York, pp167-177