

BYRON ASIMAKOPOULOS, Biologist, PhD
Professor of Physiology,
Director of the Laboratory of Physiology and
the Laboratory of Reproductive Physiology-IVF

Business address: Lab. of Physiology, Faculty of Medicine, Democritus University of Thrace, Dragana, 681 00 Alexandroupolis, Greece.

Tel.: +30 25510 30538, 30513

Fax: +30 25510 30513

e-mail: basima@med.duth.gr

Marital status: Married; two children

ACADEMIC POSITIONS

2018 – to present **Democritus Univ. of Thrace**, Faculty of Medicine; Professor of Physiology.

2013 – 2018 **Democritus Univ. of Thrace**, Faculty of Medicine; Associate Professor of Physiology

2006 – 2013 **Democritus Univ. of Thrace**, Faculty of Medicine; Assistant Professor of Physiology

2001 – 2006 **Democritus Univ. of Thrace**, Faculty of Medicine; Lecturer of Physiology

1995 – 2001 **Democritus Univ. of Thrace**, Faculty of Medicine; Fellow–researcher in the Lab. of Physiology.

TEACHING ACTIVITIES

2025 Physiology (lectures and practical sessions), faculty of Nursing, Democritus University of Thrace

2001 – to present “Physiology I”, “Physiology II”, “Physiology III” (lectures and practical sessions), Faculty of Medicine, Democritus University of Thrace

2017 – to present “Exercise Physiology”, Faculty of Medicine, Democritus University of Thrace.

2020 – to present Lectures in Master Degree Program “Human Reproduction”, School of Medicine, Aristoteleion University of Thessaloniki.

2019 – to present Lectures in Master Degree Program “Biology of Reproduction”, Faculty of Medicine, University of Thessaly.

2014- to present Lectures and practical sessions on various topics related to the Physiology of Reproductive system and Embryology, Master Degree Program “Human Reproduction”, Faculty of Medicine, Democritus University of Thrace.

2014 – to present Lecture and practical session “Laboratory techniques of Assisted Reproduction”, Master Degree Program “Biomedical and Molecular Sciences”, Faculty of Medicine, Democritus University of Thrace & Department of Medical Laboratories Technicians, Alexandrian Technological Institute of Thessaloniki.

2009 – to present Lectures in the Master Degree Program “Molecular and Applied Physiology”, Medical School, National and Kapodestrian University of Athens.

2001 – 2003 “Neurophysiology” (lectures), Pedagogic Academy, Democritus University of Thrace.

SUPERVISION OF PhD THESIS

- Supervisor in eight (8) PhD Thesis (7 of them successfully completed)
- Member of the Advisory Committee in 13 PhD Thesis
- Member of the Examination Committee in 15 PhD Thesis

SUPERVISION OF DIPLOMA THESIS

- Six Thesis in the Faculty of Molecular Biology & Genetics, D.U.TH.
- One Thesis in the Department of Biological Applications & Technology, University of Ioannina.
- Eight Thesis in the MD Program “Molecular and Applied Physiology”, Medical School, Athens.
- Forty-nine (49) Thesis in the MD Program “Human Reproduction”, Faculty of Medicine, D.U.T.H.

- Member of the Advisory Committee in seventy three (73) Thesis in the MD Program “Human Reproduction”, Faculty of Medicine, D.U.T.H.

RESEARCH

1985 – 1995: Biology of Reproduction and Biology of Development of amphibian species. Part of the relevant research was carried out at the Institute of Zoology, University of Bonn, in collaboration with its Director Prof. Dr. Hans Schneider.

1995 – 2000: Regenerative mechanisms in rabbit sciatic nerve. Effects of muscle relaxants on gastrocnemius muscle. Effects of growth factors on skeletal muscles and cardiac muscle of rats

2000-2019: The expression and function of GnRH system in peripheral tissues. The effects of adipokines on female reproductive functions. The role of cytokines in follicular development and implantation. The condensation of nuclear sperm chromatin.

Collaborations with several Clinics in the University Hospital of Alexandroupolis and a long collaboration with the Nephrology Unit of Hospital of Xanthi, involved in measurements of cytokines, hormones and adhesion molecules in samples of various biological fluids.

At present: The investigation of sperm parameters in relation to sperm fertilization capacity, emphasizing on sperm nuclear DNA fragmentation, and semen redox potential in an attempt to determine physiological values. The investigation of free nucleic acids in embryo culture media in relation to embryo quality and implantation potential. The effects of growth factors on in-vitro motility and vitality of human spermatozoa

PARTICIPATION IN RESEARCH PROJECTS

- “Study of the effects of growth factors on the motility and vitality of human spermatozoa” (MIS 5049528). Research project financed by the Partnership Agreement for the Development Framework 2014-2020.
- “Investigation on the use of free nucleonic acids in culture media of human embryos as a non-invasive predictive tool for preimplantation diagnosis”. Research project financed by the Partnership Agreement for the Development Framework 2014-2020.
- «A Multicenter, Multiple-dose, Two-arm, Active-controlled, Double-blind, Double-dummy Study to Compare the Therapeutic Efficacy and Safety of Oral Doses of Cinacalcet HCL With Intravenous Doses of AMG 416 in Hemodialysis Subjects With Secondary Hyperparathyroidism». Clinical trial; University Nephrological Clinic, University Hospital of Alexandroupolis & AMGEN Hellas (2014-2016).
- “EFFECTS OF GnRH ANALOGS ON THE FUNCTIONS OF NATIVE GRANULOSA LUTEAL CELLS”. Research project financed by the Greek Ministry of Health (2009-2010).
- IKYDA 2005 (PROGRAMME FOR THE PROMOTION OF THE EXCHANGE AND SCIENTIFIC COOPERATION BETWEEN GREECE AND GERMANY). “INVESTIGATION OF THE EFFECTS OF GnRH ANALOGUES ON THE FUNCTION OF HUMAN GRANULOSA LUTEIN CELLS”: common research project between the Laboratory of Physiology, School of Medicine, Democritus Univ. of Thrace and the Department of Obstetrics/Gynecology, University of Schleswig-Holstein, Campus Lübeck. Duration: 2006-2008. Position: head of the Greek team.
- IKYDA 2002 (PROGRAMME FOR THE PROMOTION OF THE EXCHANGE AND SCIENTIFIC COOPERATION BETWEEN GREECE AND GERMANY). “INVESTIGATION OF HORMONES AND CYTOKINES LEVELS IN SERUM AND FOLLICULAR FLUIDS OF WOMEN UNDERGOING CONTROLLED OVARIAN STIMULATION FOR IVF/ICSI UNDER DIFFERENT STIMULATION PROTOCOLS”: common research project between the Laboratory of Physiology, School of Medicine, Democritus Univ. of Thrace and the Department of Obstetrics/Gynecology, University of Schleswig-Holstein, Campus Lübeck. Duration: 2003-2005; finished successfully.

- Research project financed by the Research Committee of Democritus Univ. of Thrace “Induction of angiogenesis in muscles and myocardium of rat”. Duration: 2001-2003.

SCIENTIFIC AWARDS

- 16th Medical Congress of North Greece, 26-28/10/2001, Thessaloniki. 1st Award on the field of experimental studies for the presentation: “Study on the effects of thiocolchicoside, orphenadrine and phenyramidol in isolated frog gastrocnemius muscle”.
- 23rd Panhellenic Congress of Surgery – International Surgical Forum, 9-12/11/2002, Athens. Award for the presentation: “Leptin serum levels in patients with pancreatic cancer: association with nutrition factors”.
- 29th Panhellenic Medical Congress, 20-24/5/2003, Athens. Award for the best presentation on the field of basic research: “Study of the effects of the angiogenic factor b-FGF and exercise on rat cardiac and skeletal muscle”.
- 4th Congress of the Medical Society of Kavala, 2008. First award for the presentation: “Effects of GnRH-analogs on the viability of human luteal granulosa cells”.
- Master Degree Program “Molecular & Applied Physiology”, School of Medicine, National & Kapodestrian University of Athens, 2016: “Excellence in teaching”.

SCIENTIFIC PUBLICATIONS (included in SCOPUS)

1. Tiptiri-Kourpeti A., Asimakopoulos B., Nikolettos N. (2025). A narrative review on the sperm selection methods in assisted reproductive technology: out with the new, the old is better? *Journal of Clinical Medicine* 14(4): 1066.
2. Metallinou C., Stanelloudi C., Nikolettos K., Asimakopoulos B. (2024). NGF, EPO and IGF-I in the male reproductive system.
3. Binas G., Athanasiou V., Athanasiou A., Isihou I., Asimakopoulos L-O., Asimakopoulos B. (2024) Determinant factors for ongoing pregnancy in homologous intrauterine insemination cycles – A prospective study. *In Vivo* 38(3): 1384-1389. *Journal of Clinical Medicine* 13(10): 2918.
4. Konstantogianni O., Panou T., Zikopoulos A., Skentou Ch., Stavros S., Asimakopoulos B. (2024) Culture of human embryos at high and low oxygen levels. *Journal of Clinical Medicine* 13(8): 2222.
5. Sapanidou V., Asimakopoulos B., Lialiaris Th., Lavrentiadou S., Feidantsis K., Kourousekos G., Tsantarliotou M. (2024) The Role of Erythropoietin in Bovine Sperm Physiology. *Animals* 14: art. 2175.
6. Nikolettos K., Vlachos N., Pagonopoulou O., Nikolettos N., Zikopoulos K., Tsikouras P., Kontomanolis E., Damaskos Ch., Garmpis N., Asimakopoulos B. (2023) Is there an association between circulating kisspeptin levels and ovarian reserve in women of reproductive age? *In Vivo* 37(5): 2219-2223.
7. Nikolettos K., Nikolettos N., Vlachos N., Pagonopoulou O., Asimakopoulos B. (2023) Role of leptin, adiponectin and kisspeptin in polycystic ovarian syndrome pathogenesis. *Minerva Obstetrics and Gynecology* 75(5): 460-467.
8. Sapanidou V., Tsantarliotou M., Lavrentiadou S., Tzekaki E., Efraimidis I., Lialiaris T., Asimakopoulos B. (2023) The beneficial effects of pterostilbene on post-thawed bovine spermatozoa. *Animals* 13(17): art. No 2713
9. Nikolettos K., Vlachos N., Pagonopoulou O., Nikolettos N., Zikopoulos K., Tsikouras P., Kontomanolis E., Damaskos C., Garmpis N., Asimakopoulos B. (2023) Is there an association between circulating kisspeptin levels and ovarian reserve in women of reproductive age? *In Vivo* 37(5): 2219-2223.
10. Vasdeki D., Tsamos G., Koufakis T., Goulis D.G., Asimakopoulos B., Michou V., Patriarcheas V., Kotsa K. (2023) “You are my sunshine, my only sunshine”: maternal vitamin D status and supplementation in pregnancy and their effect on neonatal and childhood outcomes. *Hormones* 22(4): 547-562.
11. Sialakouma A., Karakasiliotis I., Ntala V., Nikolettos N., Asimakopoulos B. (2021) Embryonic cell-free DNA in spent culture medium: A non-invasive tool for aneuploidy screening of the corresponding embryos. *In-Vivo* 35(6): 3449-3457.
12. Asimakopoulos B., Tiptiri-Kourpeti A., Metallinou C. (2021) Erythropoietin increases in vitro motility and vitality of human spermatozoa. *In-Vivo* 35(5): 2669-2673.

13. Sfakianoudis K., Maziotis E., Karantzali E., Kokkini G., Grigoriadis S., Pantou A., Giannelou P., Petroutsou K., Markomichali C., Fakiridou M., Koutsilieris M., Asimakopoulos B., Pantos K., Simopoulou M. (2021) Molecular drivers of developmental arrest in the human preimplantation embryo: A systematic review and critical analysis leading to mapping future research. *Int. J. Mol. Sci.* 22: 8353.
14. Asimakopoulos B., Tiptiri-Kourpeti A., Metallinou C. (2021) IGF-I and NGF β enhance in vitro progressive motility and vitality of human spermatozoa. *Reprod. Med. Biol.* 20(3): 361-367.
15. Maziotis E., Sfakianoudis K., Gianellou P., Grigoriadis S., Rapani A., Tsioulou P., Nikolettos K., pantou A., Tiptiri-Kourpeti A., Koutsilieris M., Asimakopoulos B., Nikolettos N., Pantos K., Simopoulou M. (2020) Evaluating the value of day 0 of an ICSI cycle on indicating laboratory outcome. *Sci. Rep.*, 10, 19325.
16. Korakaki D., Mouroutsos S., Troipsianis G., Nikolettos N., Asimakopoulos B. (2020) Temperature decline in embryological culture dishes outside incubator. *Int. J. Fertil. Steril.*, 14(1): 63-67.
17. Tsakos E., Tsagias N., Stergioula A., Asimakopoulos B. (2020) The COVID-19 pandemic triggers changes on the field of cross-border reproductive care. *Clin. Res. Obstetrics Gynecol.*, 3(2): 1-3
18. Kalinderi K., Asimakopoulos B., Nikolettos N., Manolopoulos V.G. (2018) Pharmacogenomics in IVF: a New Era in the Concept of Personalized Medicine. *Reprod. Sc.* DOI: 10.1177/1933719118765970
19. Gerovassili A., Marcadona O., Asimakopoulos B., Karavasilis V., Panopoulou M., Ikonomidis A. (2017) Relationship between Chlamydia-ureaplasma-mycoplasma genital detection with semen concentration and motility among Greek men. *Int. J. Fertil. Steril.*, 11(2): 130-133.
20. Kasapi E., Asimakopoulos B., Chatzimeletiou K., Petousis S., Panagiotidis Y., Prapas N., Nikolettos N. (2017). Vitrication of human germinal vesicle oocytes: Before or after in vitro maturation? *Int. J. Fertil. Steril.*, 11(2): 85-92.
21. Kotanidis L., Nikolettos N., Petousis S., Asimakopoulos B., Chatzimitrou E., Kolios G., Nikolettos N. (2016). The use of serum anti-Müllerian hormone (AMH) levels and antral follicle count (AFC) to predict the number of oocytes collected and availability of embryos for cryopreservation in IVF. *J. Endocrinol. Inv.*, 39(12): 1459-1464.
22. Evgeni E., Lymberopoulos G., Touloupidis S., Asimakopoulos B. (2015). Sperm nuclear DNA fragmentation and its association with semen quality in Greek men. *Andrologia*, 47(10): 1166-1174.
23. Evgeni E., Lymberopoulos G., Gazouli M., Asimakopoulos B. (2015). Conventional semen parameters and DNA fragmentation in relation to fertility status in a Greek population. *Eur. J. Obstet. Gynecol. Reprod. Biol.*, 188: 17-23.
24. Katargari S.A., Passadakis P., Milousis A., Passadaki T., Asimakopoulos B., Mantatzis M., Prassopoulos P., Tripsianis G., Nikolettos N., Papachristou D.N. (2015). Subcutaneous and total fat at L4-L5 and subcutaneous, visceral and total fat at L3-L4 are important contributors of fasting and postprandial adiponectin levels. *Endocrine Res.*, 40(3): 127-132.
25. Ntala V., Asimakopoulos B., Veletza S., Alexandris E., Karachaliou V., Nikolettos N. (2015). Follicular fluid levels of vascular endothelial growth factor and its receptors and pregnancy outcome of women participating in intracytoplasmic sperm injection cycles. *Clin. Exp. Obstet. Gynecol.*, 42(4): 437-441.
26. Evgeni E., Charalabopoulos K., Asimakopoulos B. (2014). Human sperm DNA fragmentation and its correlation with conventional semen parameters. *J. Reprod. Infert.*, 15(1): 2-14.
27. Tsakos E., Tolikas A., Daniilidis A., Asimakopoulos B. (2014). Predictive value of anti-müllerian hormone, follicle-stimulating hormone and antral follicle count on the outcome of ovarian stimulation in women following GnRH-antagonist protocol for IVF/ET. *Arch. Gynecol. Obstet.*, 290(6): 1249-1253.
28. Simopoulou M., Asimakopoulos B., Bakas P., Boyadjiev N., Tzanakaki D., Creatsas G. (2014). Oocyte and embryo vitrication in the IVF laboratory: a comprehensive review. *Folia Medica*, 56(3): 161-169.

29. Kotanidis L., Asimakopoulos B., Nikolettos N. (2013). Association between AMH, oocyte number and availability of embryos for cryopreservation in IVF. *In Vivo*, 27(6): 877-880.
30. Asimakopoulos B., K  pker W., Felberbaum R. (2013). Neue Regulatoren der Hypothalamus – Hypophysen – Ovar – Achse. *Gyn  kologische Endokrinologie*, 11: 144-148.
31. Asimakopoulos B., Kotanidis L., Nikolettos N. (2013). Binovular complexes after ovarian stimulation. A report of four cases. *Hippokratia*, 17(2): 169-170.
32. Katargari S.A., Milousis A., Passadaki T., Mantatzis M., Tripsianis G., Asimakopoulos B., Nikolettos N., Papachristou D.N. (2013). Postprandial free fatty acids are related to total visceral and retroperitoneal fat in diabetic men. *Acta Endocrinol (BUC)*, 9(2): 201-218.
33. Passadaki T., Asimakopoulos B., Zeginiadou T., Nikolettos N. (2013). Soluble FAS and FAS ligand levels in seminal plasma: Association with basic parameters of semen analysis. *In Vivo*, 27(2): 285-287.
34. Tsalikidis C., Papachristou F., Pitiakoudis M., Asimakopoulos B., Trypsianis G., Bolanaki E., Syrigos K.N., Simopoulos C. (2013). Soluble E-cadherin as a diagnostic and prognostic marker in gastric carcinoma. *Folia Medica*, 55(3-4): 26-32.
35. Metallinou C., K  ster F., Diedrich K., Nikolettos N., Asimakopoulos B. (2012). The effects of cetorelix and triptorelin on the viability and steroidogenesis of cultured human granulosa luteinized cells. *In Vivo*, 26(5): 835-839.
36. Bouraki G., Metallinou C., Simopoulou M., Charalabopoulos K., Asimakopoulos B. (2012). Comparison of nine media in the culture of human ovarian granulosa lutein cells. *In Vivo*, 26(5): 823-825.
37. Asimakopoulos B. (2012). Hypothalamus-Pituitary-Gonadal Axis: It is time for Revision. *Human Genet. Embryol.*, 2: 1-3.
38. Panagopoulou M., Nikolettos N., Dala V., Tsakos E., Charalabopoulos K., Asimakopoulos B. (2013). A Comparison between Two Vitrification Devices: Plastic Blabe and McGill Cryoleaf. *Human Genet. Embryol.*, 3: 1-3.
39. Panagopoulou M., Charabopoulos K., Papachristou D.N., Tsakos E., Asimakopoulos B. (2013). Evaluation of a new vitrification protocol for oocyte cryopreservation. *Human Genet. Embryo.*, 3: 103.
40. Gianisslis G., Simopoulou M., Vakalopoulos I., Zeginiadou T., Tripsianis G., Ktenidou-Kartali S., Nikolettos N., Asimakopoulos B. (2011). Serum pattern of circulating soluble receptor of leptin throughout the menstrual cycle. *Minerva Ginecol.*, 63(4): 339-342.
41. Asimakopoulos B., Kotanidis L., Nikolettos N. (2011). In vitro maturation and fertilization of vitrified immature human oocytes, subsequent vitrification of produced embryos, and embryo transfer after thawing. *Fertil. Steril.*, 95: 2123.e2.
42. Asimakopoulos B., Demirel C., Felberbaum R., Waczek S., Nikolettos N., K  ster F., Al-Hasani S., Diedrich K. (2010). Concentrations of inflammatory cytokines and the outcome in ICSI cycles. *In Vivo*, 24: 495-500.
43. Lialiaris T., Digkas E., Kareli D., Pouliliou S., Asimakopoulos B., Pagonopoulou O., Simopoulou M. (2010). Distribution of ABO and Rh blood groups in Greece: an update. *Int. J. Immunogenet.*, 38(1): 1-5.
44. Asimakopoulos B., Milousis A., Gioka T., Kabouromiti G., Gianisslis G., Troussa A., Simopoulou M., Katargari S., Tripsiannis G., Nikolettos N. (2009). Serum pattern of circulating adipokines throughout the physiological menstrual cycle. *Endocr. J.*, 56: 25-33.
45. Asimakopoulos B., K  ster F., Felberbaum R., Tripsiannis G., Caglar G.S., Nikolettos N., Al-Hasani S., Diedrich K. (2009). Intrafollicular and circulating concentrations of leptin do not predict the outcome in IVF-ICSI cycles. *Reprod. Sci.*, 16: 113-119.
46. Katargari S.A., Milousis A., Pagonopoulou O., Asimakopoulos B., Nikolettos N.K. (2008). Ghrelin in pathological conditions. *Endocr. J.*, 55: 439-453.

47. Simopoulos C., Tsaroucha A.K., Asimakopoulos B., Giatromanolaki A., Gavriilidis P., Polychronidis A., Karayiannakis A. (2008). Total and caspase-cleaved cytokeratin-18 in chronic cholecystitis: a prospective study. *BMC Gastroenterology*, 6: 8-14.
48. Asimakopoulos B., Abu-Hassan D., Metzen E., Al-Hasani S., Diedrich K., Nikolettos N. (2008) The levels of steroid hormones and cytokines in individual follicles are not associated with the fertilization outcome after intracytoplasmic sperm injection. *Fertil. Steril.*, 90: 60-64.
49. Tentes I., Asimakopoulos B., Mourvati E., Diedrich K., Al-Hasani S., Nikolettos N. (2007). Matrix metalloproteinases (MMP)-2 and MMP-9 in seminal plasma. *J. Assist. Reprod. Genet.*, 24: 278-281.
50. Nikolettos N., Asimakopoulos B., Köster F., Schöpfer B., Schultz C., Caglar G.S., Efthimiadou A., Pagonopoulou O., Diedrich K., Al-Hasani S. Cytokine profile in cases with premature elevation of progesterone serum concentrations during ovarian stimulation. *Physiol. Res.*, 57: 215-224
51. Metallinou C., Asimakopoulos B., Schröer A., Nikolettos N. (2007). Gonadotropin-releasing hormone in the ovary. *Reprod. Sc.*, 14: 737-749.
52. Caglar G.S., Köster F., Schöpfer B., Asimakopoulos B., Nehls B., Nikolettos N., Diedrich K., Al-Hasani S. (2007). Semen DNA fragmentation index, evaluated with both TUNEL and Comet assay, and the ICSI outcome. *In Vivo*, 21: 1075-1080.
53. Asimakopoulos B., Köster F., Felberbaum R., Al-Hasani S., Diedrich K., Nikolettos N. (2006). Cytokine and hormonal profile in blood serum and follicular fluids during ovarian stimulation with the multidose antagonist or the long agonist protocol. *Hum. Reprod.*, 21: 3091-3095.
54. Asimakopoulos B., Nikolettos N., Nehls B., Diedrich K., Al-Hasani S., Metzen E. (2006). Gonadotropin-releasing hormone antagonists do not influence the secretion of steroid hormones but affect the secretion of vascular endothelial growth factor from human granulosa luteinized cell cultures. *Fertil. Steril.*, 86: 636-641.
55. Pagonopoulou O., Efthimiadou A., Asimakopoulos B., Nikolettos N.K. (2006). Modulatory role of adenosine and its receptors in epilepsy: possible therapeutic approaches. *Neurosc. Res.*, 56: 14-20.
56. Efthimiadou A., Asimakopoulos B., Nikolettos N., Giatromanolaki A., Sivridis E., Lialiaris T.S., Papachristou D.N., Kontoleon E. (2006). The angiogenic effect of intramuscular administration of b-FGF and a-FGF on cardiac muscle: The influence of exercise on muscle angiogenesis. *J. Sports Sc.*, 24: 849-854.
57. Asimakopoulos B., Schöpfer B., Dawson A., Caglar G.S., Vakalopoulos I., Al-Hasani S., Diedrich K., Nikolettos N. (2006). IGF-I and epidermal growth factor levels in follicular fluid of women undergoing controlled ovarian hyperstimulation using the multidose GnRH-antagonist protocol or the long GnRH-agonist protocol. *J. Endocrinol. Invest.*, 29: RC5-RC8.
58. Nikolettos N., Asimakopoulos B., Papastefanou I.S. (2006). Intracytoplasmic sperm injection – an assisted reproduction technique that should make us cautious about imprinting deregulation. *J. Soc. Gynecol. Invest.*, 13: 317-328.
59. Efthimiadou A., Asimakopoulos B., Nikolettos N., Giatromanolaki A., Sivridis E., Papachristou D.N., Kontoleon E. (2006). Angiogenic effect of intramuscular administration of basic and acidic fibroblast growth factor on skeletal muscles and influence of exercise on muscle angiogenesis. *Br. J. Sports Med.*, 40: 35-39.
60. Abu-Hassan D., Koester F., Schoepper B., Schultze-Mosgau A., Asimakopoulos B., Diedrich K., Al-Hasani S. (2006). Comet assay of cumulus cells and spermatozoa DNA status, and their relationship to oocyte fertilization and embryo quality following ICSI. *Reprod. BioMed. Online*, 12: 447-452.
61. Asimakopoulos B., Nikolettos N., Papachristou D.N., Simopoulou M., Al-Hasani S., Diedrich K. (2005). Follicular fluid levels of vascular endothelial growth factor and leptin are associated with pregnancy outcome of normal women participating in intracytoplasmic sperm injection cycles. *Physiol. Res.*, 54: 263-270.

62. Caglar G.S., Asimakopoulos B., Nikolettos N., Diedrich K., Al-Hasani S. (2005). Preimplantation genetic diagnosis for aneuploidy screening in repeated implantation failure. *Reprod. Biomedicine Online*, 10: 381-388.
63. Caglar G.S., Hammadeh M., Asimakopoulos B., Nikolettos N., Diedrich K., Al-Hasani S. (2005). In Vivo and in vitro decondensation of human sperm and assisted reproduction technologies. *In Vivo*, 19: 623-630.
64. Caglar G.S., Asimakopoulos B., Nikolettos N., Diedrich K., Al-Hasani S. (2005). Recombinant LH in ovarian stimulation. *Reprod. Biomedicine Online*, 10: 774-785.
65. Karayiannakis A.J., Asimakopoulos B., Efthimiadou A., Tsaroucha A.K., Polychronidis A., Simopoulos C. (2005). Serum leptin levels and their response during laparoscopic and open cholecystectomy. *Eur. Cytokine Netw.*, 16: 91-96.
66. Karydis S., Asimakopoulos B., Papadopoulos N., Vakalopoulos I., Al-Hasani S., Nikolettos N. (2005). ICSI outcome is not associated with the incidence of spermatozoa with abnormal chromatin condensation. *In Vivo*, 19: 921-926.
67. Efthimiadou A., Asimakopoulos B., Nikolettos N., Giatromanolaki A., Sivridis E., Lialiaris Th., Papachristou D.N., Kontoleon E. (2004). The angiogenic effect of intramuscular administration of VEGF on muscle. The influence of exercise on angiogenesis. *In Vivo*, 18: 825-830.
68. Nikolettos N., Asimakopoulos B., Simopoulou M., Efthimiadou A., Tsoulou M., Al-Hasani S., Diedrich K. (2004). Cetrorelix in ICSI cycles of women with one ovary. *Rev. Clin. Pharm. Pharmacok.*, 18: 146-147.
69. Nikolettos N., Asimakopoulos B., Nicolettos N., Efthimiadou A., Mourvati E., Demirel C. (2004). Evaluation of leptin, interleukin-1 β , tumor necrosis factor- α , and vascular endothelial growth factor in serum and follicular fluids of women undergoing controlled ovarian hyperstimulation as prognostic markers of ICSI outcome. *In Vivo*, 18: 667-674.
70. Nikolettos N., Asimakopoulos B., Diedrich K., Al-Hasani S. (2004). Triptorelin versus cetrorelix in intracytoplasmic sperm injection cycles in women with a single ovary. *Eur. J. Obstet. Gyn. Reprod. Biol.*, 112: 185-188.
71. Nikolettos N., Asimakopoulos B., Simopoulou M., Al-Hasani S., Diedrich K. (2004). Gonadotropin releasing hormone antagonists and cryopreservation outcome: a review. *Arch. Gynec. Obstet.*, 270: 69-73.
72. Nikolettos N., Asimakopoulos B., Simopoulou M., Al-Hasani S. (2003). A borderline form of empty follicle syndrome. Case report. *Clin. Exp. Obst. & Gyn.*, 31: 79-80.
73. Al-Hasani S., Asimakopoulos B., Nikolettos N., Diedrich K. (2003). Comparison of the response to ovarian stimulation between women with one ovary and those with two ovaries, in a program of ICSI/ET. *Acta Obstet. Gynecol. Scand.*, 82: 845-849
74. Nikolettos N., Asimakopoulos B., Tentes I., Schöpper B., Al-Hasani S. (2003). Matrix metalloproteinases 2 and 9 in follicular fluids of patients undergoing controlled ovarian stimulation for ICSI/ET. *In Vivo*, 17: 201-204
75. Asimakopoulos B., Simopoulou M., Al-Hasani S., Nikolettos N. (2003). Women with one ovary in in-vitro fertilisation. *Folia Medica*, 45:25-29
76. Asimakopoulos B., Al-Hasani S., Nikolettos N., Diedrich K. (2003). A comparison of the ovarian response to external stimulation between women with right or left ovary participating in programs of ICSI/ET. *Arch. Gynecol. Obstet.*, 268: 168-171
77. Asimakopoulos B., Nikolettos N., Al-Hasani S. (2003). Prospective randomized study on day of embryo transfer. Letter to the editor. *Hum. Reprod.*, : 892-893
78. Nikolettos N., Asimakopoulos B., Hatzissabas I. (2003). Intrafamilial sperm donation : ethical questions and concerns. *Hum. Reprod.*, 18: 933-936

79. Asimakopoulos B., Nikolettos N., Al-Hasani S. (2003). Is there a place for round and elongated spermatids injection in assisted reproduction? *Iran J. Reprod. Med.*, 1: 1-6.
80. Asimakopoulos B., Nikolettos N., Al-Hasani S., Diedrich K. (2003). An evaluation of the multiple dose protocol of cetrorelix in single ovary women. *In Vivo*, 17: 89-92
81. Karayiannakis A.J., Bolanaki H., Syrigos K.N., Asimakopoulos B., Polychronidis A., Anagnostoulis S., Simopoulos C. (2003). Serum vascular endothelial growth factor levels in pancreatic cancer patients correlate with advanced and metastatic disease and poor prognosis. *Cancer Lett.*, 194: 119-124.
82. Nikolettos N., Asimakopoulos B., Simopoulou M., Al-Hasani S. (2003). GnRH agonist administration after embryo transfer, in long protocol stimulated cycles, prevents ovarian hyperstimulation syndrome. A report of five cases. *In Vivo*, 17: 655-658.
83. Tentos I., Asimakopoulos B., Hellman U., Nikolettos N., Kortsaris A., Kontoleon-Vakalopoulou E. (2003). Subcellular fractionation and electrophoretic analysis of proteins from the regenerating nerve in rabbits following treatment with triiodothyronine (T₃). *In Vivo*, 17: 601-608.
84. Schöpfer B., Köster F., Asimakopoulos B., Diedrich K., Nikolettos N., Al-Hasani S. (2003). Ist der Erfolg einer Sterilitätsbehandlung mit intrazytoplasmatischer Spermieninjektion bei einseitig ovariectomierten Frauen von der Lage des verbliebenen Ovars abhängig? *J. Fertil. Reprod.*, 13: 13-15.
85. Schröder A.K., Asimakopoulos B., Nikolettos N., Diedrich K., Al-Hasani S. (2003). Frauen mit nur einem Eierstock: Verfügen sie über ein niedrigeres reproduktives Potenzial? *Reproduktionsmedizin*, 19: 81-83
86. Nikolettos N., Al-Hasani S., Fornara P., Vakalopoulos I., Asimakopoulos B., Diedrich K. (2002): Outcome of anticipated ICSI cycles using intentionally frozen-thawed testicular spermatozoa according to the spouse's response to ovarian stimulation. *Clin. Exp. Obst. & Gyn.*, 29: 126–130.
87. Nikolettos N., Al-Hasani S., Küpker W., Vakalopoulos I., Asimakopoulos B., Fornara P., Diedrich K. (2002): Comparison of poor responders with good responders using intentionally frozen-thawed epididymal spermatozoa in subsequent ICSI cycles. *Clin. Exp. Obst. & Gyn.*, 29: 131–134.
88. Asimakopoulos B., Nikolettos N., Al-Hasani S. (2002): Outcome of cryopreserved pronuclear oocytes obtained after ovarian stimulation with either hMG or recFSH and the GnRH-antagonist cetrorelix. *Reproductive BioMedicine Online*, 5: 52s-56s.
89. Nikolettos N., Asimakopoulos B., Vakalopoulos I., Hatzissabas I. (2002): Father to son sperm donation. A report of three cases. *Clin. Exp. Obst. & Gyn.*, 30: 226-228.
90. Nikolettos N., Asimakopoulos B., Vakalopoulos I., Simopoulou M. (2002). Endometrial fluid accumulation during controlled ovarian stimulation for ICSI treatment. A report of three cases. *Clin. Exp. Obst & Gyn.*, 24: 290-292.
91. Asimakopoulos B., Sofianidou Th.S., Schneider H. (1990). Reproductive and calling behavior of the Greek frog *Rana graeca* (Amphibia: Anura) in Greece. *Zool. Anz.*, 225: 133-143.

SELECTED PRESENTATIONS IN SCIENTIFIC CONGRESSES & MEETINGS

- Asimakopoulos B. (2021). Treatment of human spermatozoa with IGF-I and NGF β increases progressive motility and vitality. World Gynecology Congress 2021, 15-16/04/2021.
- Asimakopoulos B., Tiptiri-Kourpeti A., Metallinou C. (2021). NGF β enhances in-vitro motility and vitality of human spermatozoa. 3rd IVF Worldwide Online, 2-3/04/2021.
- Evgeni E., Lymberopoulos G., Asimakopoulos B. (2016). Sperm nuclear DNA fragmentation and fertility status. 95th Annual Meeting Deutsche Physiologische Gesellschaft, 3-5/3/2016, Lübeck, Germany. *Acta Physiologica*, 216 (suppl. 707): 197.
- Gerovassili A., Marcadona O., Ntala V., Karavasilis V., Koutsiaris E., Asimakopoulos B., Panopoulou M., Nikas T., Ikonomidis A. (2015). Investigation of oligospermic men with respect to Chlamydia – mycoplasma – ureoplasma infection and correlation with sexual behavior. 30th Annual

- Congress of the European Association of Urology, 20-24/3/2015, Madrid, Spain. *European Urology*, 14(suppl. 2): e142.
- Asimakopoulos B., Milousis A., Gioka T., Tripsianis G., Gianislis G., Troussa A., Simopoulou M., Katargari S., Kabouromiti G., Nikolettos N. (2008). Circulating levels of resistin, adiponectin, total leptin and soluble leptin receptor throughout the menstrual cycle. 87th Annual Meeting of the Deutsche Physiologische Gesellschaft, 2-5/03/2008, Cologne, Germany. *Acta Physiologica*, 192 (s 663): 194.
 - Metallinou C., Asimakopoulos B., Koester F., Nikolettos N., Diedrich K. (2008). Effects of gonadotropin-releasing hormone analogues on the viability of human lutein granulosa cells. 87th Annual Meeting of the Deutsche Physiologische Gesellschaft, 2-5/03/2008, Cologne, Germany. *Acta Physiologica*, 192 (s 663): 194.
 - Asimakopoulos B., Gioka T., Milousis T., Katargari S., Troussa A., Gianislis G., Nikolettos N. (2007). Serum resistin concentrations throughout the menstrual cycle. 86th Annual Meeting of the Deutsche Physiologische Gesellschaft, 25-28/03/2007, Hannover, Germany. *Acta Physiologica*, 189 (s653): 107.
 - Metallinou C., Asimakopoulos B., Koester F., Veletza V., Nikolettos N., Diedrich K. (2007). Messenger RNA expression for the Gonadotropin releasing hormone (GnRH) system in HGL5, a human luteal granulosa cell line. 86th Annual Meeting of the Deutsche Physiologische Gesellschaft, 25-28/03/2007, Hannover, Germany. *Acta Physiologica*, 189 (s653): 108.
 - Milousis A., Katargari S.A., Asimakopoulos B., Veletza S., Maltezos E., Mantatzis M., Papachristou D.N. (2007). Leptin and resistin levels in relation to body fat distribution in diabetic patients and normal individuals. 89th Annual Meeting of Endocrine Society, 2-5/06/2007, Toronto, Canada. Book of abstracts: 213.
 - Kriki P., Mourvati E., Asimakopoulos B., Thodis E., Sivridis D., Papazoglou I., Pasadakis P., Vargemezis V. (2006). Changes on metalloproteinases in patients on peritoneal dialysis (PD) during peritonitis episodes. XLIII Congress of the European Dialysis and Transplant Association, 15-18/07/2006, Glasgow, UK. *Nephrology Dialysis Transplantation*, 21 (s4), 505.
 - Asimakopoulos B., Schultz C., Nehls B., Diedrich K., Al-Hasani S., Metzen E. (2005). GnRH-antagonists affect the secretion of VEGF from human granulosa luteinized cell cultures. 84th Annual Meeting Deutsche Physiologische Gesellschaft, 6-9/3/2005, Göttingen, Germany. *European Journal of Physiology*, 449: s131.
 - Asimakopoulos B., Nikolettos N., Koester F., Abu-Hassan D., Schoepper B., Dawson A., Caglar G.S., Diedrich K., Al-Hasani S. (2005). Levels of hormones and cytokines in individual follicles are not associated with the fertilization outcome in ICSI cycles. 21st Annual Meeting of the ESHRE, 19-22/6/2005, Copenhagen, Denmark. *Human Reproduction*, 20 (s1): i133.
 - Caglar G.S., Köster F., Asimakopoulos B., Schöpper B., Nehls B., Polack S., Diedrich K., Al-Hasani S. (2005). Apoptotic index for human semen: Tunnel versus Comet assay. 21st Annual Meeting of the ESHRE, 19-22/6/2005, Copenhagen, Denmark. *Human Reproduction*, 20 (s1): i196-197.
 - Karydis S., Asimakopoulos B., Papadopoulos N., Vakalopoulos I., Nikolettos N., Al-Hasani S. (2005). ICSI outcome is not influenced by the incidence of spermatozoa with abnormal chromatin condensation. 21st Annual Meeting of the ESHRE, 19-22/6/2005, Copenhagen, Denmark. *Human Reproduction*, 20 (s1): i199.
 - Köster F., Asimakopoulos B., Caglar C.S., Dawson A., Vakalopoulos I., Nikolettos N., Al-Hasani S., Diedrich K. (2005). Proinflammatory cytokines in follicular fluids of women undergoing controlled ovarian hyperstimulation with two different protocols. 21st Annual Meeting of the ESHRE, 19-22/6/2005, Copenhagen, Denmark. *Human Reproduction*, 20 (s1): i110.

- Asimakopoulos B., Nikolettos N., Mourvati E., Al-Hasani S., Diedrich K. (2004). Follicular fluid leptin and VEGF as markers of ICSI outcome. 20th Annual Meeting of the ESHRE, 27-30/6/2004, Berlin, Germany. *Human Reproduction*, 19 (s1): i49.
- Nikolettos N., Asimakopoulos B., Schöpper B., Tentes I., Diedrich K., Al-Hasani S. (2003). Serum and follicular fluid hormonal and cytokine levels as markers of IVF outcome. 19th Annual Meeting of the ESHRE, 29/6-2/7/2003, Madrid, Spain. Book of abstracts: 118.
- Al-Hasani S., Asimakopoulos B., Simopoulou M., Tsoulou M., Efthemiadou A., Daika F., Nikolettos N., Diedrich K. (2003). ICSI and embryo transfer outcome in patients with one ovary. 5th Congress of the European Society of Gynecology, 9-11/10/2003, Rhodes, Greece. Book of abstracts.
- Nikolettos N., Asimakopoulos B., Simopoulou M., Efthemiadou A., Tsoulou M., Daika F., Diedrich K., Al-Hasani S. (2003). Outcome of ICSI cycles using frozen-thawed testicular or epididymal spermatozoa according to the ovarian stimulation response. 5th Congress of the European Society of Gynecology, 9-11/10/2003, Rhodes, Greece. Book of abstracts.

LECTURES IN RECENT SCIENTIFIC CONGRESSES

- 2023 Panhellenic Union of Bioscientists. Scientific meeting “Introduction to Clinical Embryology”. Lecture “The science of Clinical Embryology”. Auditorium “G. Kotzias”, 13/5/2023, National Kapodestrian University, Athens.
- 2022 3rd Scientific Symposium in Assisted Reproduction, 18-20/3/2022, Grand Hayat Hotel, Athens. Lecture: “Causes for the phenomenon of unexplained fertilization failure”.
- 2022 “25th Panhellenic Congress of Internal Medicine”, Athens, 5-8/10/2022. Lecture: “The physiological limits in male fertility”.
- 2020 3rd Panhellenic Congress of Reproductive Medicine, Alexandroupolis, 16-18/10/2020. Lecture: “IUI outcome: what does the international experience show us?”.
- 2019 “International Conference in Infertility, Clinical Embryology and Endoscopy (ICE 2019)”, Chennai – India, 02-04/08/2019. Member of the Faculty. Lectures: “Pharmacogenomics in IVF”, “Leptin in Human Reproduction”.
- 2019 “2nd Hands-On Workshop on PGD, Embryo Biopsy and Vitrification” , 29-30/03/2019, Thessaloniki. Lecture: “Cryopreservation of 2PN Zygotes: Slow freezing or Vitrification?”.

REVIEWER IN SCIENTIFIC JOURNALS

- Fertility and Sterility
- Reproductive Biology & Endocrinology
- Asian Journal of Andrology
- European Journal of Obstetrics, Gynecology and Reproductive Biology
- Journal of Endocrinological Investigation
- Human Reproduction
- Molecular Human Reproduction
- Reproductive BioMedicine Online
- Gynecological Endocrinology
- Biomarkers
- Journal of Gynecological Research and Obstetrics
- Hippokratia Journal
- Journal of International Medical Research
- Systems Biology in Reproductive Medicine
- Journal of Obstetrics & Gynecology
- Journal of Fertilization
- Human and Experimental Toxicology
- Current Medical Research & Opinion
- Journal of Assisted Reproduction & Genetics
- International Journal of Molecular Sciences
- Nutrients
- International Journal of Environmental Research and Public Health
- Andrologia

MEMBER OF EDITORIAL BOARDS

- Human Genetics & Embryology
- Global Journal of Fertility and Research

- Austin Journal of In Vitro Fertilization
- Frontiers

MEMBER OF SCIENTIFIC SOCIETIES

- ❖ Hellenic Society of Physiology
- ❖ Scientific Society of Clinical Embryology & Biology of Human Reproduction
- ❖ ALPHA Scientists in Reproductive Medicine
- ❖ Hellenic Andrological Society
- ❖ Deutsche Physiologische Gesellschaft
- ❖ European Society of Human Reproduction & Embryology
- ❖ Panhellenic Union of Bioscientists
- ❖ Hellenic Society of Biological Sciences
- ❖ Panhellenic Union of Clinical Embryologists
- ❖ Hellenic Society of Andrology
- ❖ Hellenic Society of Fertility and Sterility