

Byron Asimakopoulos

Professor of Physiology

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ACADEMIC POSITIONS

- 2018 – to present **Democritus University of Thrace (DUTH)**, Faculty of Medicine; Professor of Physiology.
- 2013 – 2018 **DUTH**, Faculty of Medicine; Associate Professor of Physiology
- 2006 – 2013 **DUTH**, Faculty of Medicine; Assistant Professor of Physiology
- 2001 – 2006 **DUTH**, Faculty of Medicine; Lecturer of Physiology
- 1995 – 2001 **DUTH**, Faculty of Medicine; Fellow–researcher in the Lab. of Physiology.

RESEARCH

1985 – 1995

Biology of Reproduction and Development of amphibian species. Part of the 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 frog gastrocnemius
- Effects of growth factors on skeletal muscles and cardiac muscle of rats

2000-2019

- Expression and function of GnRH system in peripheral tissues.
- Effects of adipokines on female reproductive functions.
- Cytokines in follicular development and implantation.
- Nuclear sperm chromatin condensation.

At present

- Sperm parameters in relation to sperm fertilization capacity, emphasizing on sperm nuclear DNA fragmentation, in an attempt to determine physiological values.
- Free nucleic acids in embryo culture media in relation to embryo quality and implantation potential.
- Effects of growth factors on in-vitro motility and vitality of human spermatozoa