

Special Issue for Current Pharmaceutical Biotechnology

PREECLAMPSIA - AETIOPATHOGENESIS AND CLINICAL MANAGEMENT

Guest Editor: Dr. Marzena Laskowska

Aims & Scope:

Preeclampsia, a unique human pregnancy disorder, is a major cause of maternal and fetal mortality and morbidity worldwide. It remains amongst the biggest challenges in obstetrics, but its precise aetiopathogenesis is still unclear.

Although the main symptom is hypertension, preeclamptic woman manifests the change in many organs. PE is characterized by an increased vascular resistance, increased activation of the coagulation system, and reduction of intravascular volume, injury of vascular endothelium, leading to a reduced perfusion of all maternal organs, including the uterus, kidney, brain and placenta. Severe cases may include eclamptic seizures, placental abruption, premature labour, intracranial haemorrhage, DIC, HELLP syndrome, renal and hepatic failure. Severe preeclampsia is always a life threatening human pregnancy complication. Preeclampsia affects not only the mother but also fetus. IUGR affects approximately 13 to 60% of infants born from preeclamptic pregnancies.

Currently, no definitive treatment or effective prophylaxis for preeclampsia are available. Delivery still remains the only curative treatment in cases of severe preeclampsia, but is not always advantageous for the fetus. The decision is always very difficult because preterm birth may result in many health consequences for the child.

The aim of this special issue is exploration of aetiopathogenesis of preeclampsia as well as best practices update and current clinical management of severe preeclampsia, eclampsia and HELLP syndrome.

The understanding the etiological determinants of preeclampsia may lead to new therapeutic approaches and is essential for effective therapies and lowering maternal and fetal mortality and morbidity related to these serious pregnancy complications.

Issue Keywords: preeclampsia, eclampsia, HELLP syndrome, placenta, pathophysiology, aetiopathogenesis, clinical management pregnancy complication

Articles of Special Issue:

Article #1 Details:

Article Title: The critical role of abnormal trophoblast development in the etiology of preeclampsia: Abnormal placentation as an interventional target for prevention of preeclampsia

Contributing Authors: Professor Berthold Huppertz (h-index: 40, citations: 6461)

Author Affiliations: Institute of Cell Biology, Histology and Embryology Medical University of Graz, Harrachgasse 21/7, Graz 8010 Austria, Tel: +43-316-380-7604; E-mail: berthold.huppertz@medunigraz.at

Article #2 Details:

Article Title: The role of Autoantibodies to the ANG II type I receptor (AT1-AA) in pathophysiology of preeclampsia

Contributing Authors: Professor Babbette LaMarca (h-index: 30, citations: 2787) Professor Mark W. Cunningham Professor Nathan Campbell

Author Affiliations: Professor Babbette LaMarca Departments of Pharmacology & Physiology, Center for Excellence in Cardiovascular and Renal Research, University of Mississippi Medical Center, Jackson, 39216 MS, USA. bblamarca@umc.edu

Professor Mark W. Cunningham E-mail: mwcunningham@umc.edu Department of Pharmacology, University of Mississippi Medical Center, Jackson, MS, USA.

Professor Nathan Campbell E-mail: campbelln508@gmail.com Department of Pharmacology and Toxicology, University of Mississippi Medical Center, Jackson, Mississippi.

â€f

Article #3 Details:

Article Title: Insight into the role of Nitric oxide (NO), Asymmetric dimethylarginine (ADMA) and L-arginine in the etiopathogenesis of preeclampsia and IUGR .

Contributing Authors: Professor Tsikas Dimitrios and Professor Makrina D. Savvidou

Author Affiliations: Professor Tsikas Dimitrios Center of Pharmacology and Toxicology, Hannover Medical School, Carl-Neuberg-Strasse 1, D-30625 Hannover, Germany. Electronic address: tsikas.dimitros@mh-hannover.de.

Professor Makrina D. Savvidou

Harris Birthright Research Centre for Fetal Medicine, King's College Hospital, London, UK.

Article #4 Details:

Article Title: - Regulatory Factors for Human Extravillous Trophoblast Invasion .

Contributing Authors: Professor Hiroshi Fujiwara, MD. & PhD (h-index: 31, citations: 2464)

Author Affiliations: Professor and Chairman Department of Obstetrics and Gynecology Graduate School of Medicine Science, Kanazawa University 13-1 Takaramachi, Kanazawa, Ishikawa, 920-8641, Japan TEL:

+81-76-265-2420, FAX: +81-76-234-4266 E-mail: fuji@kuhp.kyoto-u.ac.jp
u.ac.jp

fuji@med.Kanazawa-

Article #5 Details:

Article Title: - "The significance of macro and microelements in pregnancies complicated by preeclampsia: a review".

Contributing Authors: professor Anna BlaÅewicz et al.

Author Affiliations: Chair of Chemistry, Department of Analytical Chemistry, Medical University of Lublin, ChodÅki 4a St., 20-093 Lublin, Poland.

e-mail: annablazewicz@umlub.pl

Article #6 Details:

Article Title: - New biological markers for prediction of preeclampsia, identification a group of risk and design for prevention of preeclampsia

Contributing Authors: Professor Meiri Hamutal PhD, MBA et al. (h-index: 24, citations: 1868)

Author Affiliations: CEO and Chairman, TeleMarpe Ltd, 23 Ben Yosef St, Tel Aviv 6912523

Fax: +972-77-5435441 E-mail: hamutal62@hotmail.com; hamutal.meiri@gmail.com

Article #7 Details:

Article Title: - Angiogenic imbalance as a contributor of preeclampsia

Contributing Authors: Marzena Laskowska, Assistant Professor et al. (h-index: 8, citations: 200)

Author Affiliations: Chair and Department of Obstetrics and Perinatology, Medical University of Lublin.
Poland, al. Racławickie 1, Jaczewskiego 8, Lublin

E-mail: melaskowska@go2.pl

Article #8 Details:

Article Title: Pathophysiology and treatment modalities of HELLP syndrome

Contributing Authors: Professor Kedra Wallace, Ph.D. at UMMC (h-index: 17, citations: 722)

Author Affiliations: Department of Obstetrics & Gynecology, University of Mississippi Medical Center, 2500 North State St., Jackson, MS 39216, USA. E-mail: kwallace2@umc.edu-

Article #9 Details:

Article Title: Current Clinical Management of Preeclampsia

Contributing Authors: Professor Jan Oleszczuk and Marzena Laskowska Assistant Professor (h-index: 8, citations: 200)

Author Affiliations: Professor Jan Oleszczuk Head of Chair and Department of Obstetrics and Perinatology, Medical University of Lublin. Poland, al. Racławickie 1, Jaczewskiego 8, Lublin Chair and Department of Obstetrics and Perinatology, Medical University of Lublin. Poland, al. Racławickie 1, Jaczewskiego 8, Lublin

E-mail: melaskowska@go2.pl

Marzena Laskowska, Assistant Professor

Article #10 Details:

Article Title: Eclampsia - life threatening condition: best practices updates.

Contributing Authors: Professor James Martin, Ph.D. at UMMC et al. (h-index: 2, citations: 7)

Author Affiliations: Division of Maternal-Fetal Medicine, University of Mississippi Medical Center, 2500 N. State St., Jackson, MS 39216

E-mail: jmartin6@comcast.net

Approximate Schedule:

Manuscript Submission Deadline: December 2017

Peer Review Due: January 2018

Final submission: March 2018