

## RECENT PUBLICATIONS OF THE RESEARCH GROUP

### Original publications

1. N.G. Than, R. Romero, Y. Xu, O. Erez, Z. Xu, G. Bhatti, R. Leavitt, T.H. Chung, H. El-Azzamy, C. LaJeunesse, B. Wang, A. Balogh, G. Szalai, S. Land, Z. Dong, S.S. Hassan, T. Chaiworapongsa, M. Krispin, C.J. Kim, A.L. Tarca, Z. Papp, H. Bohn: Evolutionary origins of the placental expression of Chromosome 19 cluster galectins and their complex dysregulation in preeclampsia. *Placenta*, 35, 855-865, 2014.  
Impakt faktor: 2,710; SCImago Journal Rank: D1
2. G. Szalai, Y. Xu, R. Romero, T. Chaiworapongsa, Z. Xu, P.J. Chiang, H. Ahn, B. Sundell, O. Plazyo, Y. Jiang, M. Olive, B. Wang, S.M. Jacques, F. Qureshi, A.L. Tarca, O. Erez, Z. Dong, Z. Papp, S.S. Hassan, E. Hernandez-Andrade, N.G. Than. In vivo experiments reveal the good, the bad and the ugly faces of sFlt-1 in pregnancy. *PLoS ONE*, 9(11), e110867, 1-18, 2014.  
Impakt faktor: 3,234; SCImago Journal Rank: D1
3. Sz. Szabo, M. Mody, R. Romero, Y. Xu, K. Karaszi, N. Mihalik, Z. Xu, G. Bhatti, T. Fule, P. Hupuczi, T. Krenacs, J. Rigo Jr., A.L. Tarca, S.S. Hassan, T. Chaiworapongsa, I. Kovalszky, Z. Papp, N.G. Than. Activation of villous trophoblastic p38 and ERK1/2 signaling pathways in preterm preeclampsia and HELLP syndrome. *Pathology & Oncology Research*, 21(3), 659-668, 2015.  
Impakt faktor: 1,940; SCImago Journal Rank: Q2
4. G. Szalai, R. Romero, T. Chaiworapongsa, Y. Xu, B. Wang, H. Ahn, Z. Xu, P.J. Chiang, B. Sundell, R. Wang, Y. Jiang, O. Plazyo, M. Olive, A.L. Tarca, Z. Dong, F. Qureshi, Z. Papp, S.S. Hassan, E. Hernandez-Andrade, N.G. Than. Full-length human placental sFlt-1-e15a isoform induces distinct maternal phenotypes of preeclampsia in mice. *PLoS ONE*, 10(4): e0119547, 1-42, 2015.  
Impakt faktor: 3,057; SCImago Journal Rank: Q1
5. S. Mazaki-Tovi, E. Vaisbuch, A.L. Tarca, J.P. Kusanovic, N.G. Than, T. Chaiworapongsa, Z. Dong, S.S. Hassan, R. Romero: Characterization of visceral and subcutaneous adipose tissue transcriptome and biological pathways in pregnant and non-pregnant women: Evidence for pregnancy-related regional-specific differences in adipose tissue. *PLoS ONE*, 10(12), e0143779, 1-35, 2015.  
Impakt faktor: 3,057; SCImago Journal Rank: Q1
6. R. Fajka-Boja, I. Makra, A. Hornung, E. Szabo, F. Uher, N.G. Than, E. Monostori: Pleiotropy and specificity: Galectin-1 does not appear as an immunomodulatory factor in mesenchymal stem cells' systemic function. *Cytotherapy*, 18, 360-370, 2016.  
Impakt faktor: 3,203; SCImago Journal Rank: Q2
7. U. Krishnamurthy, G. Szalai, Y. Shen, Z. Xu, B.K. Yadav, A.L. Tarca, T. Chaiworapongsa, E. Hernandez-Andrade, N.G. Than, M. Haacke, R. Romero, J. Neelavalli: Longitudinal changes in placental Magnetic Resonance Imaging relaxation parameter in murine pregnancy: compartmental analysis. *Gynecologic and Obstetric Investigation*, 81, 193-201, 2016.  
Impakt faktor: 1,415; SCImago Journal Rank: Q2
8. B.K. Yadav, J. Neelavalli, U.B. Krishnamurthy, G. Szalai, Y. Shen, N.R. Nayak, T. Chaiworapongsa, E. Hernandez-Andrade, N.G. Than, E.M. Haacke, R.

Romero: A longitudinal study of placental perfusion using dynamic contrast enhanced Magnetic Resonance Imaging in murine pregnancy Placenta, 43, 90-97, 2016.  
Impakt faktor: 2,759; SCImago Journal Rank: D1

9. S. Mazaki-Tovi, A.L. Tarca, E. Vaisbuch, J.P. Kusanovic, N.G. Than, T. Chaiworapongsa, Z. Dong, S.S. Hassan, R. Romero: Characterization of visceral and subcutaneous adipose tissue transcriptome in pregnant women with and without spontaneous labor at term: implication of alternative splicing in the metabolic adaptations of adipose tissue to parturition. *Journal of Perinatal Medicine*, 2016. doi: 10.1515/jpm-2015-0259. Impakt faktor: 1,577; SCImago Journal Rank: Q2
10. N. Gomez-Lopez, R. Romero, O. Plazyo, Y. Xu, R. Unkel, P. Chaemsaitong, N.G. Than, T. Chaiworapongsa, Z. Dong, A.L. Tarca, V.M. Abrahams, L. Yeo, S.S. Hassan: A role for the inflammasome in spontaneous labor at term with acute histologic chorioamnionitis. *Reproductive Sciences*, 24(6): 934-953, 2017. Impakt faktor: 2,443; SCImago Journal Rank: Q2
11. N. Gomez-Lopez, R. Romero, O. Plazyo, Y. Xu, R. Unkel, B. Panaitescu, N.G. Than, T. Chaiworapongsa, Z. Dong, V.M. Abrahams, L. Yeo, S.S. Hassan: A role for the inflammasome in spontaneous preterm labor with acute histologic chorioamnionitis. *Reproductive Sciences*, 24(10): 1382-1401, 2017. Impakt faktor: 2,443; SCImago Journal Rank: Q2
12. H. El-Azzamy, A. Balogh, R. Romero, Y. Xu, C. LaJeunesse, O. Plazyo, Z. Xu, T.G. Price, Z. Dong, A.L. Tarca, Z. Papp, S.S. Hassan, T. Chaiworapongsa, C.J. Kim, N. Gomez-Lopez, N.G. Than: Characteristic changes in decidual gene expression signature in spontaneous term parturition. *Journal of Pathology and Translational Medicine*, 51: 264-283, 2017. Impakt faktor: -; SCImago Journal Rank: Q3
13. R. Romero, Y. Xu, O. Plazyo, P. Chaemsaitong, T. Chaiworapongsa, R. Unkel, N.G. Than, P.J. Chiang, Z. Dong, Z. Xu, A.L. Tarca, V.M. Abrahams, S.S. Hassan, L. Yeo, N. Gomez-Lopez: A role for the inflammasome in spontaneous labor at term. *American Journal of Reproductive Immunology*, 79(6): e12440, 2018. Impakt faktor: 2,745; SCImago Journal Rank: Q1
14. O. Erez, R. Romero, E. Vaisbuch, N.G. Than, J.P. Kusanovic, S. Mazaki-Tovi, F. Gotsch, P. Mittal, Z. Dong, T. Chaiworapongsa, C.J. Kim, C.L. Nhan-Chang, S.K. Kim, L. Yeo, M. Mazor, S.S. Hassan: Tissue factor activity in women with preeclampsia or SGA: a potential explanation for the excessive thrombin generation in these syndromes. *Journal of Maternal-Fetal & Neonatal Medicine*, 31(12): 1568-1577, 2018. Impakt faktor: 1,493; SCImago Journal Rank: Q2
15. O. Erez, R. Romero, E. Vaisbuch, J.P. Kusanovic, S. Mazaki-Tovi, T. Chaiworapongsa, F. Gotsch, P. Mittal, S.S. Edwin, C.L. Nhan-Chang, N.G. Than, C.J. Kim, S.K. Kim, L. Yeo, M. Mazo, S.S. Hassan: The pattern and magnitude of in-vivo thrombin generation is different in women with preeclampsia and in those with SGA fetuses without preeclampsia. *Journal of Maternal-Fetal & Neonatal Medicine*, 31(13): 1671-1680, 2018. Impakt faktor: 1,493; SCImago Journal Rank: Q2
16. L. Madar-Shapiro, I. Karady, A. Trahtenherts, A. Syngelaki, R. Akolekar, L. Poon, R. Cohen, A. Sharabi-Nov, B. Huppertz, M. Sammar, K. Juhasz, N.G. Than, Z. Papp, R. Romero, K.H. Nicolaidis, H. Meiri: Predicting the risk to

develop preeclampsia (PE) in the first trimester combining promoter variant -98A/C of LGALS13 (Placental Protein 13), black ethnicity, previous PE, obesity and maternal age. *Fetal Diagnosis and Therapy*, doi: 10.1159/000.477933, 2017. Impakt faktor: 1,813; SCImago Journal Rank: D1

17. N.G. Than, R. Romero, A.L. Tarca, K.A. Kekesi, Y. Xu, Z. Xu, K. Juhasz, G. Bhatti, R. Leavitt, J. Palhalmi, Zs. Gelencser, T.H. Chung, B.A. Gyorffy, L. Orosz, A. Demeter, A. Szecsi, E. Hunyadi-Gulyas, Zs. Darula, A. Simor, K. Eder, Sz. Szabo, V. Topping, H. El-Azzamy, C. LaJeunesse, A. Balogh, G. Szalai, S. Land, O. Torok, Z. Dong, I. Kovalszky, A. Falus, H. Meiri, S. Draghici, S.S. Hassan, T. Chaiworapongsa, M. Krispin, M. Knöfler, O. Erez, G.J. Burton, C.J. Kim, G. Juhasz, Z. Papp: Systems analysis of clinical, placental, functional, and evolutionary data identifies molecular networks and hub factors pivotal in the preclinical pathways of preeclampsia. *Frontiers in Immunology*, 2018. Impakt faktor: 5,511; SCImago Journal Rank: D1

Review:

18. N.G. Than, A. Balogh, R. Romero, E. Karpati, O. Erez, A. Szilagyi, I. Kovalszky, S. Marei, S. Gizurason, J. Matko, P. Zavodszky, Z. Papp, H. Meiri: Placental Protein 13 (PP13) – a placental immunoregulatory galectin protecting pregnancy. *Frontiers in Immunology*, invited review, 5, Article 348, 1-25, 2014. Impakt faktor: -; SCImago Journal Rank: Q1
19. N.G. Than, R. Romero, A. Balogh, E. Karpati, S.A. Mastrolia, O. Staretz-Chacham, S. Hahn, O. Erez, Z. Papp, C.J. Kim: Galectins: double-edged swords in the cross-roads of pregnancy complications and female reproductive tract inflammation and neoplasia. *Journal of Pathology and Translational Medicine*, invited review, 49, 181-208, 2015. Impakt faktor: -; SCImago Journal Rank: Q2
20. Hahn S, Lapaire O, Than NG: Biomarker development for presymptomatic molecular diagnosis of preeclampsia: feasible, useful or even unnecessary? *Expert Review of Molecular Diagnostics*, invited review, 15, 617-629, 2015. Impakt faktor: 3,333; SCImago Journal Rank: Q1
21. S. Giaglis, M. Stoikou, F. Grimolizzi, B.Y. Subramanian, S.V. van Breda, I. Hoesli, O. Lapaire, P. Hasler, N.G. Than, S. Hahn: Neutrophil migration into the placenta: Good, bad or deadly? *Cell Adhesion & Migration*, 10(1-2), 1-18, 2016. Impakt faktor: 3,872; SCImago Journal Rank: Q2
22. M. Stavski, O. Mor, S.A. Mastrolia, S. Greenbaum, N.G. Than, O. Erez: Cerebral palsy – trends in epidemiology, recent development in mechanisms of disease, treatment and prevention. *Frontiers in Pediatrics*, 5, 21, 2017. Impakt faktor: 2,335; SCImago Journal Rank: -;
23. N.G. Than, Z. Papp: Ethical issues in genetic counselling. *Best Practice & Research Clinical Obstetrics & Gynecology* 43: 32-49, 2017. Impakt faktor: 2,710; SCImago Journal Rank: Q1

Book chapters

24. N.G. Than: A beágyazódás kimutatása klinikai kémiai módszerekkel. *Terhességi tesztek*. In: A várandósgondozás kézikönyve, Ed.: Papp Z., Medicina Könyvkiadó, 12. fejezet, 107-114, 2016.

25. N.G. Than: A praeclampsia kórétana.  
In: A perinatológia kézikönyve, Ed.: Papp Z., Medicina Könyvkiadó, 23. fejezet,  
232-248, 2016.