

【英文論文（抜粋）】*責任著者, IF: impact factor

1) 雌性生殖器官における幹細胞の同定とその生理学的・病理学的役割の解明

Gurung S, Deane JA, Masuda H, Maruyama T, Gargett CE*:

Stem cells in endometrial physiology.

Semin Reprod Med. 33: 326-332, 2015 (IF: 2.352)

[オーストラリア Monash 大学との共同執筆]

Bulun SE*, Moravek MB, Yin P, Ono M, Coon V JS, Dyson MT, Antonia N, Marsh EE, Zhao H, Maruyama T, Chakravarti D, Kim JJ, Wei JJ:

Uterine leiomyoma stem cells: linking progesterone to growth.

Semin Reprod Med. 33: 357-365, 2015 (IF: 2.352)

[米国 Northwestern 大学との共同執筆]

Ono M, Kajitani T, Uchida H, Arase T, Oda H, Uchida S, Ota K, Nagashima T, Masuda H, Miyazaki K, Asada H, Hida N, Mabuchi Y, Morikawa S, Ito M, Bulun SE, Okano H, Matsuzaki Y, Yoshimura Y, Maruyama T*:

CD34 and CD49f double-positive and lineage marker-negative cells isolated from human myometrium exhibit stem cell-like properties involved in pregnancy-induced uterine remodeling.

Biol Reprod. 93: 1-9, 2015 (IF: 3.318)

[平成 28 年度日本産科婦人科学会優秀論文賞]

Ono M, Yin P, Navarro A, Moravek MB, Coon V JS, Druschitz SA, Serna VA, Qoang W, Brooks DC, Malpani SS, Ma J, Ercan CM, Mittal N, Monsivais D, Dyson MT, Yemelyanov A, Maruyama T, Chakravarti D, Kimm JJ, Kurita T, Gottardi CJ, Bulun SE*:

Paracrine activation of WNT/ β -catenin pathway in uterine leiomyoma stem cells promotes tumor growth.

Proc Natl Acad Sci U S A. 110: 17053-17058, 2013 (IF: 9.674)

[米国 Northwestern 大学との共同研究]

Miyazaki K, Maruyama T*, Masuda H, Yamasaki A, Uchida S, Oda H, Uchida H, Yoshimura Y: Stem cell-like differentiation potentials of endometrial side population cells as revealed by a newly developed in vivo endometrial stem cell assay.

PLoS One. 7: e50749, 2012 (IF: 3.234)

[平成 25 年度日本生殖医学会学術奨励賞]

Masuda H, Matsuzaki Y*, Hiratsu E, Ono M, Nagashima T, Kajitani T, Arase T, Oda H, Uchida H, Asada H, Ito M, Yoshimura Y, Maruyama T*, Okano H:

Stem cell-like properties of the endometrial side population: implication in endometrial regeneration.

PLoS One. 5: e10387, 2010 (IF: 3.234)

Ono M, Maruyama T*, Masuda H, Kajitani T, Nagashima T, Arase T, Ito M, Ohta K, Uchida H, Asada H, Yoshimura Y, Okano H, Matsuzaki Y*:

Side population in human uterine myometrium displays phenotypic and functional characteristics of myometrial stem cells.

Proc Natl Acad Sci U S A. 104: 18700-18705, 2007 (IF: 9.674)

Masuda H, Maruyama T*, Hiratsu E, Yamane J, Iwanami A, Nagashima T, Ono M, Miyoshi H, Okano HJ, Ito M, Tamaoki N, Nomura T, Okano H, Matsuzaki Y, Yoshimura Y:

Noninvasive and real-time assessment of reconstructed functional human endometrium in NOD/SCID/ γ_c^{null} immunodeficient mice.

Proc Natl Acad Sci U S A. 104: 1925-1930, 2007 (IF: 9.674)
[平成 20 年度日本生殖医学会学術奨励賞]

2) 組織工学と幹細胞を用いた子宮の再生・再建の基盤研究

Hellström M, Moreno-Moya JM, Bandstein S, Bom E, Akouri RR, Miyazaki K, Maruyama T, Brännström M:

Bioengineered uterine tissue supports a pregnancy in a rat model

Fertil Steril, in press (IF: 4.590)

[世界初の子宮移植妊娠・出産を成功させたスウェーデンのグループとの共同研究]

Cervelló I, Santamaría X, Miyazaki K, Maruyama T, Simón C*:

Cell therapy and tissue engineering from and toward the uterus.

Semin Reprod Med. 33: 366-372, 2015 (IF: 2.352)

[スペイン Valencia 大学との共同執筆]

Miyazaki K, Maruyama T*:

Partial regeneration and reconstruction of the rat uterus through recellularization of a decellularized uterine matrix.

Biomaterials. 35: 8791-8800, 2014 (IF: 8.557)

[平成 26 年度日本産科婦人科学会優秀論文賞]

慶應発サイエンス／子宮の幹細胞と再生医学：

http://kompas.hosp.keio.ac.jp/contents/medical_info/science/201511.html

Keio Research Highlights／Lab-grown uterus could reverse infertility：

<http://research-highlights.keio.ac.jp/article/31/lab-grown-uterus-could-reverse-infertility>

3) 着床・脱落膜化など子宮内膜機能を担う細胞分子生物学的機序の解明

Uchida H*, Maruyama T, Nishikawa-Uchida S, Oda H, Miyazaki K, Yamasaki A, Yoshimura Y:
Studies using an in vitro model show evidence of involvement of epithelial-mesenchymal transition of human endometrial epithelial cells in human embryo implantation.

J Biol Chem. 287: 4441-4450, 2012 (IF: 4.573)

[平成 24 年度日本生殖医学会学術奨励賞]

Villacorte M, Suzuki K, Hirasawa A, Ohkawa Y, Suyama M, Maruyama T, Aoki D, Ogino Y, Miyagawa S, Terabayashi T, Tomooka Y, Nakagata N, Yamada G*:

β -Catenin signaling regulates Foxa2 expression during endometrial hyperplasia formation.

Oncogene. 32: 3477-3482, 2012 (IF: 8.459)

Arase T, Uchida H, Kajitani T, Ono M, Tamaki K, Oda H, Nishikawa S, Kagami M, Nagashima T, Masuda H, Asada H, Yoshimura Y, Maruyama T*:

The UDP-glucose receptor P2RY14 triggers innate mucosal immunity in the female reproductive tract by inducing IL-8.

J Immunol. 182: 7074-7084, 2009 (IF: 4.922)

[平成 21 年度日本産科婦人科学会優秀論文賞]

Nagashima T, Maruyama T*, Uchida H, Kajitani T, Arase T, Ono M, Oda H, Kagami M, Masuda H, Nishikawa S, Asada H, Yoshimura Y:

Activation of SRC kinase and phosphorylation of Signal Transducer and Activator of Transcription-5 are required for decidual transformation of human endometrial stromal cells.

Endocrinology. 149: 1227-1234, 2008 (IF: 4.503)

[平成 21 年度日本生殖学会学術奨励賞]

4) 不妊症を含めた生殖内分泌疾患の分子遺伝学的機序の解明とその臨床

Miyazaki K, Miki F, Uchida S, Masuda H, Uchida H, Maruyama T*:

Serum estradiol level during withdrawal bleeding as a predictive factor for intermittent ovarian function in women with primary ovarian insufficiency.

Endocr J. 62: 93-99, 2015 (IF: 1.997)

Izumi Y, Suzuki E, Kanzaki S, Yatsuga S, Kinjo S, Igarashi M, Maruyama T, Sano S, Horikawa R, Sato N, Nakabayashi K, Hata K, Umezawa A, Ogata T, Yoshimura Y, Fukami M*:

Genome-wide copy number analysis and systematic mutation screening in 58 patients with hypogonadotropic hypogonadism.

Fertil Steril. 102: 1130-1136, 2014 (IF: 4.590)

Uchida S, Uchida H, Maruyama T*, Kajitani T, Oda H, Miyazaki K, Kagami M, Yoshimura Y:

Molecular analysis of a mutated FSH receptor detected in a patient with spontaneous ovarian hyperstimulation syndrome.

PLoS One. 8: e75478, 2013 (IF: 3.234)

Fukami M, Maruyama T, Deteki S, Sato N, Yoshimura Y, Ogata T*:

Hypothalamic dysfunction in a female with isolated hypogonadotropic hypogonadism and compound heterozygous TACR3 mutations and clinical manifestation in her heterozygous mother.

Horm Res Paediatr. 73: 477-481, 2010 (IF: 1.573)

Sugawa F, Wada Y, Maruyama T, Uchida H, Ishizuka B, Ogata T*:

Premature ovarian failure and androgen receptor gene CAG repeat lengths weighted by X chromosome inactivation patterns.

Fertil Steril. 91: 649-652, 2009 (IF: 4.590)

Maruyama T*, Masuda H, Uchida H, Nagashima T, Yoshimura Y:

Follicle stimulating hormone-secreting pituitary microadenoma with fluctuating levels of ovarian hyperstimulation.

Obstet Gynecol. 105: 1215-1218, 2005 (IF: 5.175)

5) 流産・死産を反復する不育症の基礎と臨床

Kagami M, Maruyama T*, Koizumi T, Miyazaki K, Nishikawa-Uchida S, Oda H, Uchida H, Fujisawa D, Ozawa N, Schmidt L, Yoshimura Y:

Psychological adjustment and psychosocial stress among Japanese couples with a history of recurrent pregnancy loss.

Hum Reprod. 27: 787-794, 2012 (IF: 4.569)

[デンマーク Copenhagen 大学との共同執筆]

Ozawa N*, Maruyama T, Nagashima T, Ono M, Arase T, Ishimoto H, Yoshimura Y:

Pregnancy outcomes of reciprocal translocation carriers who have a history of repeated pregnancy loss.

Fertil Steril. 90: 1301-1304, 2008 (IF: 4.590)

Maruyama T*, Makino T, Sugi T, Iwasaki K-i, Ozawa N, Matsubayashi H, Nozawa, S:

Flow cytometric crossmatch and early pregnancy loss in women with a history of recurrent spontaneous abortions who underwent paternal leukocyte immunotherapy.

Am J Obstet Gynecol. 168: 1528-1536, 1993 (IF: 4.704)

6) 生殖現象および産婦人科疾患におけるエピジェネティクス制御の解明

— ブロモドメイン蛋白 BRD4 を中心に —

Nagashima T, Maruyama T*, Furuya M, Kajitani T, Uchida H, Masuda H, Ono M, Arase T, Ozato K, Yoshimura Y:

Histone acetylation and subcellular localization of chromosomal protein BRD4 during mouse oocyte meiosis and mitosis.

Mol Hum Reprod. 13: 141-148, 2007 (IF: 3.747)

Maruyama T, Farina A, Dey A, Cheong J, Bermudez VP, Tamura T, Sciortino S, Shuman J, Hurwitz J, Ozato K*:

A mammalian bromodomain protein Brd4 interacts with the replication factor C and inhibits progression to S phase.

Mol Cell Biol. 22: 6509-6520, 2002 (IF: 4.777)

Dey A, Ellenberg J, Farina A, Coleman AE, Maruyama T, Sciortino S, Lippincott-Schwartz J, Ozato K*:

A bromodomain protein, MCAP, associates with mitotic chromosomes and affects G(2)-to-M transition.

Mol Cell Biol. 20: 6537-6549, 2000 (IF: 4.777)

7) 胎盤における薬剤輸送の分子メカニズムの解明

Tomi M*, Eguchi H, Ozaki M, Tawara T, Nishimura S, Higuchi K, Maruyama T, Nishimura T, Nakashima E:

Role of OAT4 in uptake of estriol precursor 16 α -hydroxy dehydroepiandrosterone sulfate into human placental syncytiotrophoblasts from fetus.

Endocrinology. 156: 2704-2712, 2015 (IF: 4.503)

Nishimura T, Yagi R, Usuda M, Oda K, Yamazaki M, Suda S, Takahashi Y, Okazaki F, Sai Y, Higuchi, K, Maruyama T, Tomi M*, Nakashima E:

System A amino acid transporter SNAT2 shows subtype-specific affinity for betaine and hyperosmotic inducibility in placental trophoblasts.

Biochim Biophys Acta. 1838: 1306-1312, 2014 (IF: 3.836)

Iwasaki S, Nakazawa K, Sakai J, Kometani K, Iwashita M, Yoshimura Y, Maruyama T*:

Melatonin as a local regulator of human placental function.

J Pineal Res. 39: 261-265, 2005 (IF: 9.600)