産 科 周 産 期 科 学

○主な研究内容

１　婦人科癌の浸潤・転移機構の解析
２　婦人科癌の遺伝子解析と遺伝子診断
３　卵巣黄体機能の研究
４　排卵障害と代謝異常に関わる遺伝子多型の関わり
５　子宮内膜癌の癌化における細胞接着蛋白の役割
６　子宮頸ガンとヒトパピローマウイルスの研究
７　婦人科疾患の超微形態学的研究
８　子宮内膜症の分子生物学的検討
９　卵巣癌での薬剤耐性克服
10　バイスタンダー効果を応用した遺伝子治療の研究

○Pub Med 掲載論文（2018 年）

1. Transabdominal cerclage (TAC) for patients with ultra-short uterine cervix after uterine cervix surgery and its impact on pregnancy.

   Ishioka S, Kim M, Mizugaki Y, Kon S, Isoyama K, Mizuuchi M, Morishita M, Baba T, Sekiya T, Saito T.
   J Obstet Gynaecol Res. 2018 Jan;44(1):61-66. doi: 10.1111/jog.13487. Epub 2017 Nov 9.
   PMID: 29121417

2. Clonal analysis revealed functional heterogeneity in cancer stem-like cell phenotypes in uterine endometrioid adenocarcinoma.

   Tabuchi Y, Hirohashi Y, Hashimoto S, Mariya T, Asano T, Ikeo K, Kuroda T, Mizuuchi M, Murai A, Uno S, Kawai N, Kubo T, Nakatsugawa M, Kanaseki T, Tsukahara T, Saito T, Torigoe T.
   Exp Mol Pathol. 2018 Nov 30;106:78-88. doi: 10.1016/j.yexmp.2018.11.013. [Epub ahead of print]
   PMID: 30503404

3. Different Risk Factors for Very Low Birth Weight, Term-Small-for-Gestational-Age, or PretermBirth in Japan.

   (Int J Environ Res Public Health. 21;15(2).pii:E369.doi:10.3390/ijerph15020369,2018 Feb)
   Tamura N 1,2 , Hanaoka T 1 , Ito K 1,3 , Araki A 1,2 , Miyashita C 1 , Ito S 1 , Minakami H 4 , Cho K 4 , Endo T , Sengoku K 5 , Ogasawara K 1,6 , Kishi R 1
   (Center for Environmental and Health Sciences, Hokkaido University 1 ,Graduate School of Health Sciences, Hokkaido University 2 ,Graduate School of Medicine, Hokkaido University 3 ,Department of Obstetrics and Gynecology, Graduate School of Medicine, Hokkaido University 4 ,Department of Obstetrics and Gynecology, Asahikawa Medical University 5 , Faculties of Health Science, Hokkaido University 6)

4. Prevalence and Risk of Birth Defects Observed in a Prospective Cohort Study: The Hokkaido Study on Environment and Children ‘s Health.(J Epidemiol. 5;28(3):125-132.doi:10.2188/jea.JE20160108, Epub,2018 Mar)

Hanaoka T 1 , Tamura N 1,2 , Ito K 1,3 , Sasaki S 1,3 , Araki A 1 , Ikeno T 1 , Miyashita C 1 , Ito S 1 , Minakami H 4 ,Cho K 4 , Endo T , Baba T , Miyamoto T 5 , Sengoku K 5 , Kishi R 1 ; other members of the Hokkaido Study on Environment and Children’s Health .
(Hokkaido University Center for Environmental and Health Sciences 1 ,Graduate School of Health Sciences, Hokkaido University 2 ,Graduate School of Medicine, Hokkaido University 3 ,Department of Obstetrics and Gynecology, Hokkaido University Graduate School of Medicine 4 ,Department of Obstetrics and Gynecology, Asahikawa Medical University 5)

5. Association of prenatal passive smoking and metabolic gene polymorphisms with child growth from birth to 3years of age in the Hokkaido Birth Cohort Study on Environment and Children's Health. (Sci Total Environ. 605-606: 995-1002, doi: 10.1016/j.scitotenv.2017.06.212, 2017 Dec)

Titilola Serifat Braimoh1, 2), Sumitaka Kobayashi1, 2), Fumihiro Sata2, 3), Seiko Sasaki1), Houman Goudarzi2, 4), Thamar Ayo Yila2), Atsuko Araki2), Chihiro Miyashita2), Hisanori Minakami5), Tsuyoshi Baba, Kazuo Sengoku6), Reiko Kishi2)
(Department of Public Health Sciences, Hokkaido University Graduate School of Medicine1), Center for Environmental and Health Sciences, Hokkaido University2), Health Center, Chuo University3), Department of Respiratory Medicine, Hokkaido University Graduate School of Medicine4), Department of Obstetrics and Gynecology, Hokkaido University Graduate School of Medicine5), Department of Obstetrics and Gynecology, School of Medicine, Asahikawa Medical University6))

6. Association Between Maternal Serum Folate Concentrations in the First Trimester and the Risk of Birth Defects: The Hokkaido Study of Environment and Children's Health. (J Epidemiol. doi: 10.2188/jea.JE20170185. [Epub ahead of print], 2018 Oct)

Kumiko Ito1), 2), 3), Tomoyuki Hanaoka2), Naomi Tamura2, 4), Seiko Sasaki1), Chihiro Miyashita2), Atsuko Araki2), Sachiko Ito2), Hisanori Minakami5), Kazutoshi Cho5), Toshiaki Endo, Tsuyoshi Baba, Toshinobu Miyamoto6), Kazuo Sengoku6), Akiko Tamakoshi1), Reiko Kishi2)
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○その他の論文（2018 年）

1. 妊婦の子宮頚部細胞診におけるブラシ使用の安全性と有用性（日本臨床細胞学会誌 57(1)：7-12、2018）
石岡 伸一 、金 美善 、郷久 晴朗、寺本 瑞絵、田中 綾一 1 、岩崎 雅宏、杉田 真太朗 2 、長谷川 匡 2 、齋藤 豪

（国家公務員共済組合連合会 斗南病院 婦人科・生殖内分泌科 1 、札幌医科大学病理診断科・病理部 2 ）

2. Bakri バルーンの前置胎盤・低置胎盤帝王切開症例における予防的止血効果の検討（日本産婦人科・新生児血液学会誌（0916-8796）28（1）：30-31、2018）
梅本　美菜、黒田　敬史、水内　将人、野呂　薫、柏木　葉月、伊野　善彦、杉田　奈穂子、鈴木　将裕、森下　美幸、馬場　剛、石岡　伸一、齋藤　豪

3. 癒着胎盤症例の帝王切開術における総腸骨動脈バルーン閉塞術の有用性（日本産婦人科・新生児血液学会誌（0916-8796）28（1）：34-35、2018）
黒田　敬史、水内　将人、梅本　美菜、野呂　薫、柏木　葉月、岩渕　有紗、澤田　敦史 1)、齋藤　正人 2)、森下　美幸、馬場　剛、石岡　伸一、齋藤　剛
（札幌医科大学麻酔科学講座 1)、札幌医科大学放射線医学講座 2)）

4. 当科で経験した乳癌合併妊娠の 8 症例の検討（日本周産期・新生児医学会雑誌（1348-964X）54（１）：91-95、2018）
岡田　匡氷、石岡　伸一、柏木　葉月、磯山　響子、黒田　敬史、水内　将人、森下　美幸、馬場　剛、齋藤　豪

産 科 周 産 期 科 学

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○Pub Med 掲載論文（2017 年）

1. Transabdominal cerclage (TAC) for patients with ultra-short uterine cervix after uterine cervix surgery and its impact on pregnancy.

Ishioka S, Kim M, Mizugaki Y, Kon S, Isoyama K, Mizuuchi M, Morishita M, Baba T, Sekiya T, Saito T.
J Obstet Gynaecol Res. 2017 Nov 9. doi: 10.1111/jog.13487. [Epub ahead of print]
PMID:29121417

2. Umbilical cord extracts improve diabetic abnormalities in bone marrow-derived mesenchymal stem cells and increase their therapeutic effects on diabetic nephropathy.

Nagaishi K, Mizue Y, Chikenji T, Otani M, Nakano M, Saijo Y, Tsuchida H, Ishioka S, Nishikawa A, Saito T, Fujimiya M.
Sci Rep. 2017 Aug 16;7(1):8484. doi: 10.1038/s41598-017-08921-y.
PMID:28814814

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9　卵巣癌での薬剤耐性克服
10　バイスタンダー効果を応用した遺伝子治療の研究

○Pub Med 掲載論文（2016 年）

1. Virological and cytological clearance in laser vaporization and conization for cervical intra-epithelial neoplasia grade 3.
Mariya T, Nishikawa A, Sogawa K, Suzuki R, Saito M, Kawamata A, Shimizu A, Nihei T, Sonoda T, Saito T.
J Obstet Gynaecol Res. 2016 Aug 16. doi: 10.1111/jog.13113. [Epub ahead of print]
PMID: 27526956

2. BAG3-mediated Mcl-1 stabilization contributes to drug resistance via interaction with USP9X in ovarian cancer.
Habata S, Iwasaki M, Sugio A, Suzuki M, Tamate M, Satohisa S, Tanaka R, Saito T.

Int J Oncol. 2016 Jul;49(1):402-10. doi: 10.3892/ijo.2016.3494.
PMID: 27120977

3. Possibility of less radical treatment for patients with early invasive uterine cervical cancer.

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PMID: 27074963

4. Matrix metalloproteinase-10 regulates stemness of ovarian cancer stem-like cells by activation of canonical Wnt signaling and can be a target of chemotherapy-resistant ovarian cancer.

Mariya T, Hirohashi Y, Torigoe T, Tabuchi Y, Asano T, Saijo H, Kuroda T, Yasuda K, Mizuuchi M, Saito T, Sato N.
Oncotarget. 2016 May 3;7(18):26806-22. doi: 10.18632/oncotarget.8645.
PMID: 27072580 Free PMC Article

5. The roles of tricellular tight junction protein lipolysis-stimulated lipoprotein receptor in malignancy of human endometrial cancer cells.
Shimada H, Satohisa S, Kohno T, Takahashi S, Hatakeyama T, Konno T, Tsujiwaki M, Saito T, Kojima T.

Oncotarget. 2016 May 10;7(19):27735-52. doi: 10.18632/oncotarget.8408.
PMID: 27036040 Free PMC Article

6. Maternal and placental risk factors for light-for-gestational-age births.
Aoyama K, Endo T, Saito T, Izumi H, Asakura S, Mori M.
J Obstet Gynaecol Res. 2016 Jul;42(7):831-6. doi: 10.1111/jog.12978.
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7. MAPK13 is preferentially expressed in gynecological cancer stem cells and has a role in the tumor-initiation.
Yasuda K, Hirohashi Y, Kuroda T, Takaya A, Kubo T, Kanaseki T, Tsukahara T, Hasegawa T, Saito T, Sato N, Torigoe T.
Biochem Biophys Res Commun. 2016 Apr 15;472(4):643-7. doi: 10.1016/j.bbrc.2016.03.004.
PMID: 26969274

8. Influence of Ku86 and XRCC4 expression in uterine cervical cancer on the response to preoperative radiotherapy.
Takada Y, Someya M, Matsumoto Y, Satoh M, Nakata K, Hori M, Saito M, Hirokawa N, Tateoka K, Teramoto M, Saito T, Hasegawa T, Sakata KI.
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PMID: 26867665

9. Brother of the regulator of the imprinted site (BORIS) variant subfamily 6 is involved in cervical cancer stemness and can be a target of immunotherapy.
Asano T, Hirohashi Y, Torigoe T, Mariya T, Horibe R, Kuroda T, Tabuchi Y, Saijo H, Yasuda K, Mizuuchi M, Takahashi A, Asanuma H, Hasegawa T, Saito T, Sato N.
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PMID: 26849232

10. Analysis of the expression and localization of tight junction transmembrane proteins, claudin-1, -4, -7, occludin and JAM-A, in human cervical adenocarcinoma.
Akimoto T, Takasawa A, Murata M, Kojima Y, Takasawa K, Nojima M, Aoyama T, Hiratsuka Y, Ono Y, Tanaka S, Osanai M, Hasegawa T, Saito T, Sawada N.
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11. Obstetrical prognosis of patients with cervical intraepithelial neoplasia (CIN) after "coin-shaped" conization.
Kim M, Ishioka S, Endo T, Baba T, Saito T.
Arch Gynecol Obstet. 2016 Mar;293(3):651-7. doi: 10.1007/s00404-015-3860-5.
PMID: 26305031

12. Overcommitment to the conization volume can be a cause of the both under- and overtreatment.
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Arch Gynecol Obstet. 2016 Aug;294(2):443-4. doi: 10.1007/s00404-016-4119-5. No abstract available.
PMID: 27230633

13. Obstetrical prognosis of patients with cervical intraepithelial neoplasia (CIN) after "coin-shaped" conization.
Kim M, Ishioka S, Endo T, Baba T, Saito T.
Arch Gynecol Obstet. 2016 Mar;293(3):651-7. doi: 10.1007/s00404-015-3860-5.
PMID: 26305031

14. Characteristics of antigravity spontaneous movements in preterm infants up to 3 months of corrected age.
Miyagishima S, Asaka T, Kamatsuka K, Kozuka N, Kobayashi M, Igarashi R, Hori T, Yoto Y, Tsutsumi H.
Infant Behav Dev. 2016 Aug;44:227-39. doi: 10.1016/j.infbeh.2016.07.006.
PMID: 27470926

15. Characteristics of antigravity spontaneous movements in preterm infants up to 3 months of corrected age.
Miyagishima S1, Asaka T2, Kamatsuka K3, Kozuka N4, Kobayashi M5, Igarashi R5, Hori T5, Yoto Y5, Tsutsumi H5.PMID: 27470926

産 科 周 産 期 科 学

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１　卵巣過剰刺激症候群の病態の解明
２　多嚢胞性卵巣症候群の病態の解明
３　出生前診断に関する研究
４　産褥子宮復古と卵管とのマトリックスメタロプロテネースに関する研究
５　子宮内胎児発育遅延妊娠での胎盤異常の分子生物学研究
６　環境ホルモンが妊娠及び生殖内分泌に与える影響の検討
７　癒着胎盤症例の安全な帝王切開術の開発
８　性同一性障害症例の内分泌学的特徴の検討

○Pub Med 掲載論文（2015 年）

１．Kim M, Ishioka S, Endo T, Baba T, Saito T.
Obstetrical prognosis of patients with cervical intraepithelial neoplasia (CIN) after "coin-shaped" conization.
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２．Ishioka S, Endo T, Baba T, Akashi Y, Morishita M, Sugio A, Kanayama N, Saito T.
Successful delivery after transabdominal cerclage of uterine cervix for cervical incompetence after radical trachelectomy.
J Obstet Gynaecol Res. 2015 Aug;41(8):1295-9. doi: 10.1111/jog.12716. Epub 2015 May 5.

３．Murota H, Takeuchi S, Sugaya M, Tanioka M, Onozuka D, Hagihara A, Saeki H, Imafuku S, Abe M, Shintani Y, Kaneko S, Masuda K, Hiragun T, Inomata N, Kitami Y, Tsunemi Y, Abe S, Kobayashi M, Morisky DE, Furue M, Katoh N.
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J Dermatol Sci.2015 Jun 16.pii: S0923-1811(15)30002-5. doi:10.1016/j.jdermsci.2015.05.010. [Epub ahead of print]

４．Kaneko S, Masuda K, Hiragun T, Inomata N, Furue M, Onozuka D, Takeuchi S, Murota H, Sugaya M, Saeki H, Shintani Y, Tsunemi Y, Abe S, Kobayashi M, Kitami Y, Tanioka M, Imafuku S, Abe M, Hagihara A, Morisky DE, Katoh N.
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５．Tokunaga T, Sakashita M, Haruna T, Asaka D, Takeno S, Ikeda H, Nakayama T, Seki N, Ito S, Murata J, Sakuma Y, Yoshida N, Terada T, Morikura I, Sakaida H, Kondo K, Teraguchi K, Okano M, Otori N, Yoshikawa M, Hirakawa K, Haruna S, Himi T, Ikeda K, Ishitoya J, Iino Y, Kawata R, Kawauchi H, Kobayashi M, Yamasoba T, Miwa T, Urashima M, Tamari M, Noguchi E, Ninomiya T, Imoto Y, Morikawa T, Tomita K, Takabayashi T, Fujieda S.
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6. Murata N, Kobayashi M, Okada Y, Suzuki T, Nitani H, Niwa Y, Abe H, Wada T, Mukai S, Uehara H, Ariga H, Takakusagi S, Asakura K.
A high-temperature in situ cell with a large solid angle for fluorescence X-ray absorption fine structure measurement.
Rev Sci Instrum. 2015 Mar;86(3):034102. doi: 10.1063/1.4914459.

7. Fujieda S, Sakashita M, Tokunaga T, Okano M, Haruna T, Yoshikawa M, Ohtori N, Asaka D, Haruna S, Nakayama T, Ishitoya J, Sakuma Y, Hirakawa K, Takeno S, Himi T, Seki N, Iino Y, Yoshida N, Kobayashi M, Sakaida H, Kondo K, Yamasoba T, Miwa T, Yamada K, Kawata R, Terada T, Kawauchi H, Morikura I, Ikeda K, Murata J, Ikeda H, Noguchi E, Tamari M, Hirota T, Imoto Y, Takabayashi T, Tomita K, Ninomiya T, Morikawa T, Urashima M.
Arerugi. 2015 Feb;64(1):38-45. Review. Japanese. No abstract available.

8. Zaitsu M1, Yamashita K, Shibasaki S, Tsunetoshi Y, Fukai M, Ogura M, Yoshida T, Igarashi R, Kobayashi N, Umezawa K, Todo S.
3-[(dodecylthiocarbonyl)methyl]-glutarimide attenuates graft arterial disease by suppressing alloimmune responses and vascular smooth muscle cell proliferation.
Transplantation. 2015 May;99(5):948-56. doi: 10.1097/TP.0000000000000576.

9. Tamate M, Matsuura M, Habata S, Akashi Y, Tanaka R, Ishioka S, Endo T, Saito T.
Preservation of fertility and subsequent childbirth after methotrexate treatment of placenta percreta: a case report.
J Med Case Rep. 2015 Oct 19;9:232. doi: 10.1186/s13256-015-0716-3.

10. Kim M, Ishioka S, Endo T, Baba T, Saito T.
Obstetrical prognosis of patients with cervical intraepithelial neoplasia (CIN) after "coin-shaped" conization.
Arch Gynecol Obstet. 2016 Mar;293(3):651-7. doi: 10.1007/s00404-015-3860-5. Epub 2015 Aug 25.

11. Tamate M, Matsuura M, Habata S, Akashi Y, Tanaka R, Ishioka S, Endo T, Saito T.
Preservation of fertility and subsequent childbirth after methotrexate treatment of placenta percreta: a case report.
J Med Case Rep. 2015 Oct 19;9:232. doi: 10.1186/s13256-015-0716-3.

12. Ishioka S, Endo T, Baba T, Akashi Y, Morishita M, Sugio A, Kanayama N, Saito T.
Successful delivery after transabdominal cerclage of uterine cervix for cervical incompetence after radical trachelectomy.
J Obstet Gynaecol Res. 2015 Aug;41(8):1295-9. doi: 10.1111/jog.12716. Epub 2015 May 5.

13. Aoyama K, Endo T, Saito T, Izumi H, Asakura S, Mori M.
Maternal and placental risk factors for light-for-gestational-age births.
J Obstet Gynaecol Res. 2016 Mar 23. doi: 10.1111/jog.12978. [Epub ahead of print]

○その他論文（2015 年）

1. Kurahashi H, Kato T, Miyazaki J, Nishizawa H, Nishio E, Furukawa H, Ito M, Endo T, Ouchi Y, Inagaki H, Fujii T.
Preimplantation genetic diagnosis/screening by comprehensive molecular testing.
Reprod Biol Medi (in press)

産 科 周 産 期 科 学

○主な研究内容

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2　多嚢胞性卵巣症候群の病態の解明
3　出生前診断に関する研究
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5　子宮内胎児発育遅延妊娠での胎盤異常の分子生物学研究
6　環境ホルモンが妊娠及び生殖内分泌に与える影響の検討
7　癒着胎盤症例の安全な帝王切開術の開発
8　性同一性障害症例の内分泌学的特徴の検討

○Pub Med 掲載論文（2013 年）

1．Baba T, Endo T, Ikeda K, Shimizu A, Morishita M, Kuno Y, Honnma H, Kiya T, Ishioka S, Saito T.
Assisted reproductive technique increases the risk of placental polyp. (Gynecol Endocrinol. 2013 Jun;29(6):611-4. doi: 10.3109/09513590.2013.788636.)

2．Ikeda K, Baba T, Noguchi H, Nagasawa K, Endo T, Kiya T, Saito T.
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3．Umemura K, Ishioka S, Endo T, Ezaka Y, Takahashi M, Saito T.
Roles of microRNA-34a in the pathogenesis of placenta accreta. (J Obstet Gynaecol Res. 2013 Jan;39(1):67-74. doi: 10.1111/j.1447-0756.2012.01898.x. Epub 2012 Jun 4.)

4．Teramoto M, Suzuki T, Satohisa S, Akashi Y, Matsuura M, Suzuki M, Tanaka R, Saito T.
Low-dose SN-38 with paclitaxel induces lethality in human uterine cervical adenocarcinoma cells by increasing caspase activity. (Med Mol Morphol. 2013 Mar 16. [Epub ahead of print])