

産婦人科学講座

I. 原著論文

- 1) Taisuke Sato, Takashi Kojima, Osamu Samura, Satoshi Kawaguchi, Akie Nakamura, Masahiro Nakajima, Akiko Tanuma-Takahashi, Kazuhiko Nakabayashi, Kenichiro Hata, Shiro Ikegawa, Gen Nishimura, Aikou Okamoto, Takahiro Yamada. Two unrelated pedigrees with achondrogenesis type 1b carrying a Japan-specific pathogenic variant in *SLC26A2*. *Am J Med Genet A* 2020; 182(4): 735-739.
- 2) Hartrampf Nina, Seki Toshiyuki, Baumann Andreas, Watson Philip, Vepřek Nynke A, Hetzler Belinda E, Hoffmann-Röder Anja, Tsuji Moriya, Trauner Dirk. Optical Control of Cytokine Production Using Photoswitchable Galactosylceramides. *Chemistry* 2020; 26(20): 4476-4479.
- 3) Saito Motoaki, Odajima Suguru, Ezawa Masahiro, Iida Yasushi, Ueda Kazu, Yanaihara Nozomu, Tanabe Hiroshi, Takano Hirokuni, Yamada Kyosuke, Okamoto Aikou. Neoadjuvant Chemotherapy for Patients With Diaphragmatic Lesions: A Prognostic Postoperative Analysis. *In Vivo* 2020; 34(3): 1277-1281.
- 4) Nakamura Noriyuki, Sasaki Aiko, Mikami Masashi, Nishiyama Miyuki, Akaishi Rina, Wada Seiji, Ozawa Nobuaki, Sago Haruhiko. Nonreportable rates and cell-free DNA profiles in noninvasive prenatal testing among women with heparin treatment. *Prenat Diagn* 2020; 40(7): 838-845.
- 5) Hasegawa Junichi, Wada Seiji, Kasamatsu Atsushi, Nakamura Masamitsu, Hamanoue Haruka, Iwata Eriko, Murotsuki Jun, Nagai Ryuhei, Tateishi Yoko, Sunami Rei, Tajima Atsushi, Murata Susumu, Matsubara Keiichi, Nakata Masahiko, Kondo Akane, Nishiyama Miyuki, Sasaki Aiko, Sekizawa Akihiko, Sago Haruhiko, Kamei Yoshimasa. Distribution of PAPP-A and total hCG between 11 and 13 weeks of gestation in Japanese pregnant women. *J Matern Fetal Neonatal Med* 2020; 33(12): 2017-2022.
- 6) Matsushima Sachio, Ozawa Katsusuke, Sugibayashi Rika, Ogawa Kohei, Tsukamoto Keiko, Miyazaki Osamu, Wada Seiji, Ito Yushi, Sago Haruhiko. Neurodevelopmental impairment at 3 years of age after fetoscopic laser surgery for twin-to-twin transfusion syndrome. *Prenat Diagn* 2020; 40(8): 1013-1019.
- 7) Arima-Yoshida Fumiko, Raveau Matthieu, Shimohata Atsushi, Amano Kenji, Fukushima Akihiro, Watanabe Masashi, Kobayashi Shizuka, Hattori Satoko, Usui Masaya, Sago Haruhiko, Mataga Nobuko, Miyakawa Tsuyoshi, Yamakawa Kazuhiro, Manabe

Toshiya. Impairment of spatial memory accuracy improved by Cbr1 copy number resumption and GABAB receptor-dependent enhancement of synaptic inhibition in Down syndrome model mice. *Sci Rep* 2020; 10(1): 14187.

8) Takahashi Ken, Sato Taisuke, Nishiyama Miyuki, Sasaki Aiko, Taniguchi Kosuke, Migita Ohsuke, Wada Seiji, Hata Kenichiro, Sago Haruhiko. Monochorionic diamniotic twins of discordant external genitalia with 45,X/46,XY mosaicism. *Mol Genet Genomic Med* 2020; 8(9): e1382.

9) Funaki Satoru, Ogawa Kohei, Ozawa Nobuaki, Okamoto Aikou, Morisaki Naho, Sago Haruhiko. Differences in pregnancy complications and outcomes by fetal gender among Japanese women: a multicenter cross-sectional study. *Sci Rep* 2020; 10(1): 18810.

10) Shimizu Ryohei, Ishihara Keiichi, Kawashita Eri, Sago Haruhiko, Yamakawa Kazuhiro, Mizutani Ken-Ichi, Akiba Satoshi. Decrease in the T-box1 gene expression in embryonic brain and adult hippocampus of down syndrome mouse models. *Biochem Biophys Res Commun* 2021; 535: 87-92.

11) Suzumori Nobuhiro, Sekizawa Akihiko, Takeda Eri, Samura Osamu, Sasaki Aiko, Akaishi Rina, Wada Seiji, Hamanoue Haruka, Hirahara Fumiki, Sawai Hideaki, Nakamura Hiroaki, Yamada Takahiro, Miura Kiyonori, Masuzaki Hideaki, Nakayama Setsuko, Kamei Yoshimasa, Namba Akira, Murotsuki Jun, Yamaguchi Masayuki, Tairaku Shinya, Maeda Kazuhisa, Kaji Takashi, Okamoto Yoko, Endo Masayuki, Ogawa Masaki, Kasai Yasuyo, Ichizuka Kiyotake, Yamada Naoki, Ida Akinori, Miharuru Norio, Kawaguchi Satoshi, Hasuo Yasuyuki, Okazaki Tetsuya, Ichikawa Mayuko, Izumi Shunichiro, Kuno Naohiko, Yotsumoto Junko, Nishiyama Miyuki, Shirato Nahoko, Hirose Tatsuko, Sago Haruhiko. Retrospective details of false-positive and false-negative results in non-invasive prenatal testing for fetal trisomies 21, 18 and 13. *Eur J Obstet Gynecol Reprod Biol* 2021; 256: 75-81.

12) Kajiura Kazuhiro, Beharier Ofer, Chng Choon-Peng, Goff Julie P, Ouyang Yingshi, St Croix Claudette M, Huang Changjin, Kagan Valerian E, Hsia K Jimmy, Sadovsky Yoel. Ferroptosis induces membrane blebbing in placental trophoblasts. *J Cell Sci* 2021: 1-10.

13) Ito Yuki, Konishi Akiko, Okubo Miki, Sato Takuma, Hasegawa Akihiro, Yabuzaki Keiko, Matsuoka Tomona, Yamamura Michihiro, Inoue Momoko, Udagawa Haruhiko,

Kajiwara Kazuhiro, Kamide Taizan, Aoki Hiroaki, Samura Osamu, Okamoto Aikou. Safety assessment of the prophylactic use of silicone gel sheets (Lady Care®) for the prevention of hypertrophic scars following caesarean section. *J Obstet Gynaecol* 2021; 1-9.

14) Yokomizo Ryo, Fujiki Yukiko, Kishigami Harue, Kishi Hiroshi, Kiyono Tohru, Nakayama Sanae, Sago Haruhiko, Okamoto Aikou, Umezawa Akihiro. Endometrial regeneration with endometrial epithelium: homologous orchestration with endometrial stroma as a feeder. *Stem Cell Res Ther* 2021; 12(1): 130.

15) Kanazawa Seiji, Ozawa Katsusuke, Muromoto Jin, Sugibayashi Rika, Wada Yuka, Wada Seiji, Ito Yushi, Sago Haruhiko. Risk Profiling of the Solomon Technique versus Selective Technique of Fetoscopic Laser Surgery for Twin-Twin Transfusion Syndrome. *Twin Res Hum Genet* 2021; 24(1): 42-48.

16) Kanazawa Seiji, Muromoto Jin, Ozawa Katsusuke, Mikami Masashi, Ogawa Kohei, Wada Seiji, Sago Haruhiko. Reliability and characteristics of ultrasound measurement of fetal umbilical venous blood flow volume according to the site of measurement. *J Med Ultrason (2001)* 2020; 47(2): 305-312.

17) Wada Seiji, Ozawa Katsusuke, Sugibayashi Rika, Suyama Fumio, Amari Shoichiro, Ito Yushi, Kanamori Yutaka, Okuyama Hiroomi, Usui Noriaki, Sasahara Jun, Kotani Tomomi, Hayakawa Masahiro, Kato Kiyoko, Taguchi Tomoaki, Endo Masayuki, Sago Haruhiko. Feasibility and outcomes of fetoscopic endoluminal tracheal occlusion for severe congenital diaphragmatic hernia: A Japanese experience. *J Obstet Gynaecol Res* 2020 : 2598.

18) Funaki Satoru, Umehara Nagayoshi, Mezawa Hidetoshi, Kurakazu Masamitsu, Matsushima Sachio, Arata Naoko, Okamoto Aikou, Sago Haruhiko. Ultrasonographic assessment of fetal thyroid in Japan: thyroid circumference and distal femoral and proximal tibial ossification. *J Med Ultrason (2001)* 2020; 47(4): 603-608.

19) Funaki Satoru, Umehara Nagayoshi, Mezawa Hidetoshi, Kurakazu Masamitsu, Matsushima Sachio, Arata Naoko, Okamoto Aikou, Sago Haruhiko. Ultrasonographic assessment of fetal thyroid in Japan: thyroid circumference and distal femoral and proximal tibial ossification. *J Med Ultrason (2001)* 2020; 47(4): 603-608.

20) Shibata Megumi, Akaishi Rina, Sasaki Aiko, Ogawa Kohei, Nishiyama Miyuki, Wada

Seiji, Ozawa Nobuaki, Sago Haruhiko. Pregnant women's preferences for prenatal genetic testing: A single-center study in Japan. J Obstet Gynaecol Res 2020; 46(10): 1972-1976.

21) Nishiyama Miyuki, Ogawa Kohei, Hasegawa Fuyuki, Sekido Yuki, Sasaki Aiko, Akaishi Rina, Tachibana Yoshiyuki, Umehara Nagayoshi, Wada Seiji, Ozawa Nobuaki, Sago Haruhiko. Pregnant women's opinions toward prenatal pretest genetic counseling in Japan. J Hum Genet 2021; 1-11.

22) Ueda Kazu, Yanaihara Nozomu, Iida Yasushi, Kobayashi Ritsuko, Kato Sayako, Matsuda Yuna, Tomita Keisuke, Yamamura Nami, Saito Ryosuke, Hirose Sou, Kuroda Takafumi, Seki Toshiyuki, Saito Motoaki, Takano Hirokuni, Yamada Kyosuke, Okamoto Aikou. Analysis of risk factors for patients with early-stage cervical cancer: A study of 374 patients. J Obstet Gynaecol Res 2021; 47(1): 270-278.

23) 横溝 陵, 伊藤 由紀, 青木 宏明, 小西 晶子, 吉居 絵理, 井上 桃子, 宮 美智子, 種元 智洋, 拝野 貴之, 佐村 修, 岡本 愛光. 低用量アスピリン・ヘパリン併用療法を施行した患者の周産期予後に関する検討. 関東連合産科婦人科学会誌 2020; 57(4): 411-416.

24) 齋藤 理恵, 佐藤 泰輔, 津田 聡, 伊藤 由紀, 上出 泰山, 佐村 修, 岡本 愛光. 母体血を用いた出生前遺伝学的検査 (noninvasive prenatal testing, NIPT) 導入後の確定的検査, 特に絨毛検査の動向. 関東連合産科婦人科学会誌 2020; 57(4): 437-443.

25) 舟木 哲, 佐々木 愛子, 池袋 真, 嘉村 駿佑, 小野寺 洋平, 赤石 理奈, 和田 誠司, 小澤 伸晃, 西山 深雪, 左合 治彦. 当施設における双胎妊娠の羊水検査の合併症リスク. 日本周産期・新生児医学会雑誌 2020; 56(3): 432-436.

II. 総説

1) Beharier Ofer, Kajiwara Kazuhiro, Sadovsky Yoel. Ferroptosis, trophoblast lipotoxic damage, and adverse pregnancy outcome. Placenta 2021; 108: 32-38.

2) 田畑 潤哉, 矢内原 臨, 岡本 愛光. 【専門医はもういない? せまりくるAI時代】検査データによる卵巣腫瘍の診断. 産婦人科の実際 2020; 69(5): 443-449.

3) 中林 一彦, 高橋 健, 右田 王介, 秦 健一郎. 周産期の最新情報 C-A-T-C-H THE NOW 胎児 RhD 血液型の出生前検査法 RhD 不適合妊娠の診断・管理の新たな可能性. ペリネイタルケア 2020; 39(8): 858-862.

- 4) 田畑 潤哉, 岡本 愛光. 【分子標的薬を極める-基礎から臨床まで-】分子標的薬剤開発の現況と展開. 産科と婦人科 2020; 87(10): 1121-1126.
- 5) 高橋 健, 佐村 修. 【発生から紐解く 胎児超音波診断アトラス [Web 動画付]】(第4章)心臓以外の超音波検査 腹壁の異常 a. 臍帯ヘルニア, 腹壁破裂. 産婦人科の実際 2020; 69(12): 1473-1476.
- 6) 高橋 健, 佐村 修. 【発生から紐解く 胎児超音波診断アトラス [Web 動画付]】(第4章)心臓以外の超音波検査 腹壁の異常 b. 膀胱外反, 総排泄腔外反. 産婦人科の実際 2020; 69(12): 1477-1480.
- 7) 井上 桃子, 左合 治彦. 【助産力アップ!周産期のガイドライン 深掘りドリル200問 『産婦人科診療ガイドライン:産科編2020』に準拠 難易度別助産ケア&最新エビデンスが満載!】(第1章)妊娠期 出生前診断『産婦人科診療ガイドライン:産科編2020』より出題. ペリネイタルケア 2021; (2021 新春増刊): 29-37.
- 8) 上出 泰山, 佐村 修. 【最新産婦人科遺伝診療ABC】羊水検査、絨毛検査. 産科と婦人科 2021; 88(1): 31-36.
- 9) 上出 泰山. 【新 経膈分娩を成功させる29の提言】骨盤位分娩 必要な手技として、模型による骨盤位分娩トレーニングの必要性. 周産期医学 2021; 51(1): 92-95.
- 10) 上出 泰山, 佐村 修. 【[必携]専攻医と指導医のための産科診療到達目標】診療技術編 出生前診断の知識 絨毛・羊水染色体検査. 周産期医学 2020; 50(8): 1183-1185.

Ⅲ. 症例報告

- 1) 草壁 広大, 高橋 健, 三浦 茉莉子, 小林 律子, 池永 晃大, 鈴木 瑛太郎, 山内 貴志人, 津田 明奈, 江澤 正浩, 斎藤 元章, 新美 茂樹, 岡本 愛光. 巨大子宮筋腫を合併した中期死産に対して大動脈バルーン留置下に帝王切開術を施行した1例. 東京産科婦人科学会会誌 2020; 69(3): 523-527.

Ⅷ. その他

学会報告

1. Ken Takahashi, Ohsuke Migita, Aiko Sasaki, Michiko Nasu, Akihiro Kawashima, Akihiko Sekizawa, Taisuke Sato, Yuki Ito, Haruhiko Sago, Aikou Okamoto, Kazuhiko Nakabayashi, Kenichiro Hata. Amplicon Sequencing-Based Non-Invasive Fetal RHD Genotyping. 第72回日本産科婦人科学会学術講演会. 東京, Apr.

2. Seika Nagae, Taisuke Sato, Kanae Matsuno, Suguru Odajima, Sou Hirose, Ayako Kawabata, Jiro Suzuki, Taizan Kamide, Kazu Ueda, Osamu Samura, Aikou Okamoto. Effect of Endometriosis on Perinatal Complications and Pregnant Outcomes in Pregnant Women: A Single-Center Retrospective Clinical Study. JSOG2020. Tokyo, Japan, Apr.
3. Keiko Yabuzaki, Seika Nagae, Ibuki Kondo, Akihiro Hasegawa, Taisuke Sato, Akiko Konishi, Tomona Matsuoka, Yuki Ito, Michiko Miya, Taizan Kamide, Osamu Samura, Aikou Okamoto:1. Quantitative Alteration of Circulating Cell-free DNA during Extra Cephalic Version: A Potential Biomarker for Direct Placental Assessment for Additional External Damage. JSOG2020. Tokyo, Japan, Apr.
4. Ibuki Kondo, Taisuke Sato, Mariko Sato, Seika Nagae, Keiko Yabuzaki, Akiko Konishi, Tomona Matsuoka, Yuki Ito, Michiko Miya, Taizan Kamide, Osamu Samura, Aikou Okamoto. Clinical Significance of Fetal Magnetic Resonance Imaging for Prenatal Diagnosis. JSOG2020. Tokyo, Japan, Apr.
5. Ken Takahashi, Oosuke Migita, Aiko Sasaki, Michiko Nasu, Akihiro Kawashima, Akihiko Sekizawa, Taisuke Sato, Yuki Ito, Haruhiko Sago, Aikou Okamoto, Kazuhiko Nakabayashi, Kenichiro Hata. Amplicon Sequencing-Based Non-Invasive Fetal RHD Genotyping. JSOG2020. Tokyo, Japan, Apr.
6. 田畑潤哉, 矢内原臨, 岡本愛光. Application of artificial intelligence for preoperative diagnostic and prognostic prediction in epithelial ovarian cancer based on blood biomarkers. 千葉大学医学研究院附属 治療学人工知能 (AI) 研究センター 設立記念シンポジウム —医療とともに進化するAI・数理—. 千葉, 4月.
7. Ryo Yokomizo, Yukiko Fujiki, Hiroshi Kishi, Haruhiko Sago, Aikou Okamoto. Endometrial regeneration with establishment of improved culture methods for endometrial epithelial cells: co-culture with feeder cells. 36th virtual Annual Meeting of the European Society of Human Reproduction and Embryology. Copenhagen, Jul.
8. 上田和, 小田嶋俊, 永吉陽子, 川畑絢子, 鈴木二郎, 飯田泰志, 矢内原臨, 岡本愛光. シンポジウム1 若手医師に対する腹腔鏡手術の教育オンラインによる遠隔教育システムの導入. 第60回日本産科婦人科内視鏡学会学術講演会. Web開催, 12月.

9. 上田 和, 岡本愛光. シンポジウム2 技術認定医合格を目指す! 「TLHの勘所」尿管損傷を回避するための基靭帯処理と膣管の切開縫合. 第60回日本産科婦人科内視鏡学会学術講演会. Web開催, 12月.