

CURRICULUM VITAE
TAKEBE, TAKANORI

Name and Personal Data:

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Education:

Degree

2011.4 **M.D.**, Yokohama City University School of Medicine

Others

2009.1-3 **Research Associate**, Dept. of Chemistry, The Scripps Research Institute, CA.

2010.9-10 **External Medical Student**, Dept. of Surgery, Division of Abdominal Organ Transplantation,
New York-Presbyterian Hospital/Columbia University Medical Center, NY.

Academic Appointments:

2018.2- **Professor**, Institute of Research, Tokyo Medical Dental University, Japan

2018.1- **Founding Director & Professor**, Communication Design Center, Advanced Medical
Research Center, Yokohama City University, Japan

2017.6- **Associate Director**, Center for Stem Cell and Organoid Medicine, Cincinnati Children's
Hospital Medical Center, USA

2016.10- **Principal Investigator**, Takeda Pharmaceutical and Center for iPS Cell Research and
Application (CiRA) joint program

2016.10- **Robertson Investigator**, New York Stem Cell Foundation

2015.12- **Assistant Professor**, Division of Gastroenterology, Hepatology and Nutrition and Division of
Developmental Biology, Cincinnati Children's Hospital Medical Center

2015.1 **Visiting Associate Professor**, Department of Genetics, Stanford University

2014.11- **Visiting Scientist**, Laboratory for Retinal Regeneration, RIKEN Center for
Developmental Biology

2013.10- **Associate Professor**, Department of Regenerative Medicine, Yokohama City
University, Japan

2013.10- **PRESTO Investigator**, Japan Science and Technology Agency, Japan

2012.4- **Project leader**, Yokohama City University Advanced Medical Research Center, Japan
2011.4-2013.9 **Research Associate**, Department of Regenerative Medicine, Yokohama City University, Japan
2011.4- **Researcher**, Mirai Design Lab, Japan

Awards and Honors:

2017 **Presidential Award** of Japan Agency for Medical Research and Development, Tokyo
2017 **Young Scientist Prize**, The Japan Agency for Medical Research and Development (AMED), Tokyo
2017 **NISTEP Award**, National Institute of Science and Technology Policy, Tokyo
2016 **Robertson Investigator Award**, New-York Stem Cell Foundation, NY
2016 **WIRED Audi INNOVATION AWARD** 2016, Tokyo
2016 **Young Scientists' Prize**, Minister of Education, Culture, Sports, Science and Technology of Japan, Tokyo
2015 **Baelz Prize**, Boehringer Ingelheim, Tokyo
2015 **BD Stem Cell Grant**, BD, US
2015 **Umehara Prize**, Yokohama Medical Research Promotion Foundation, Yokohama
2014 Elected to **Science AAAS**, 10 breakthrough of the year, 2013
2014 Elected to **Discover magazine**, Top 5 science stories of 2013
2014 **Research innovation award**, The Japan Society of Organ Preservation and Medical Biology
2014 **YOKOHAMA IGAKUKAI AWARD**, YOKOHAMA IGAKUKAI
2014 **Research award**, Kanagawa Foundation for the Promotion of Medical Science, Tokyo
2013 **Travel Award**, International Society for Stem Cell Research 11th annual meeting. Boston, MA
2012 **Young Investigator Award**, Japanese Society for Regenerative Medicine
2011 **Best Oral Presentation Award**, 12th Congress of the Asian Society of Transplantation, Korea
2011 **MIRAI DESIGN AWARD 2030**, Co-founded by DENTSU Inc. & Hakuholdo Inc. Tokyo, Japan
2011 **Gold medal**, Medical Dean's Award of Yokohama City University, Japan
2010 **Summa cum laude**, Yokohama City University, Japan
2008 **Presidential Award**, Yokohama City University

Memberships in Professional Organizations:

2018- Board of Directors, International Society for Stem Cell Research (ISSCR)
2017- International Affairs Committee, International Society for Stem Cell Research
2017- Next Generation Leader, International Society for Stem Cell Research
2016- Member, American Association for the Study of Liver Diseases
2014- Councilor, Japan Society of Organ Preservation and Medical Biology
2011- Member, Japan Society for Transplantation
2011- Member, International Society for Stem Cell Research
2011- Member, The Molecular Biology Society of Japan
2011- Member, Japanese Cancer Association
2009- Member, Japanese Society for Regenerative Medicine

Service and Citizenship:

Committee Involvement:

Fall 2011-2012 Yokohama City University, Graduate school research program, Annual Retreat, Co-Organizer
Fall 2013- Regenerative Medicine Seminar sponsored by Japan Society for the Promotion of Science (JSPS) & National Research Foundation of Korea (NRF), Organizer
Fall 2011-2012 Yokohama City University, International Exchange Seminar, Organizer

Intramural Professional Activities:

Jun 3, 2013	Grant Writing Seminar, Yokohama City University, guest lecturer
Sep 30, 2014	CCHMC DHC Seminar Series, guest speaker
Oct 10, 2014	Stanford University, Stem Cell and Regenerative Medicine Club, Annual Retreat, Co-Organizer
Sep 14, 2016	Cincinnati Children's Hospital Research Foundation Seminar Series, guest speaker
Jan 13, 2017	Yokohama City University Faculty crosstalk, guest speaker
Feb 10, 2017	Cincinnati Children's Hospital Basic Science Forum, guest speaker

Extramural Professional Activities:

2013	Medical Research Council, grant review, United Kingdom
2013	European Research Council, Grant review, Belgium
2013	Israel Research Foundation, Grant review, Israel
2014	King's Health Partner's Research and Development Challenge Fund, grant review, United Kingdom
2015	Medical Research Council, grant review, United Kingdom
2016	Medical Research Council, grant review, United Kingdom

National/International Distinguished Activities:

2017	Interviewed in Science highlighted in featured article, entitled ' <i>Mini-livers reveal fine details of organ development</i> '
2017	Interviewed in Cell Stem Cell highlighted in article, entitled ' <i>Advances in Organoid Technology: Hans Clevers, Madeline Lancaster, and Takanori Takebe</i> '
2016	Interviewed in Nature highlighted in article by Cassandra Willyard 'RISE OF THE ORGANOIDS'
2015	Commented in Nature Methods in article by, Nicole Rusk 'Cell biology: Reproducibly generating organ buds in vitro'
2014	Interviewed to highlight the goals of Solving Organ Shortage and published in Methuselah Foundation
2013	Interviewed in Nature highlighted in article by Monya Baker: Miniature human liver grown in mice, Nature doi:10.1038/nature.2013.13324, 3 July, 2013.
2013	Interviewed in The Economist : Charlotte Howard: Stem-cell therapies Prometheus unbound
2013	Interviewed in Nature Reviews Gastroenterology and Hepatology highlighted in article by Katrina Ray: Regenerative medicine: Functional miniature human liver generated from stem cells, doi:10.1038/nrgastro.2013.128
2013	Elected to Science AAAS, Breakthrough of the Year
2012	Interviewed in Nature highlighted in article by David Cyranoski: Rudimentary liver grown in vitro, doi:10.1038/nature.2012.10848, 20 Jun, 2012
2012	Research Highlight in Newton "Future of iPS cells -Or the liver and intestines will come the day that the whole can be played?-" 12.2012

PUBLICATIONS (past five years)

Peer reviewed articles:

2018

1. Matsuzaki T, Matsumoto S, Kasai T, Yoshizawa E, Okamoto S, Yoshikawa H-Y., Taniguchi H and **Takebe T**. Defining lineage-specific membrane fluidity signatures that regulate adhesion kinetics. *Stem Cell Reports*, in press. (***Corresponding author & Lead contact**)
2. Ayabe H, Anada T, Kaomoya T, Sato T, Kimura M, Yoshizawa E, Kikuchi S, Ueno Y, Sekine K, Camp J-G, Treutlein T, Ferguson A, Suzuki O, **Takebe T*** and Taniguchi. Oxygen-Dependent Intercellular TGFB Signaling Regulates Human iPSC-Derived Liver Bud Differentiation. *Stem Cell Reports*, 11(2), 306-316, 2018. (***Corresponding author & Lead contact**)
3. Kimura M, Azuma M, Zhang R-R, Thompson W, Mayhew C, **Takebe T***: Digitalized human organoid for wireless phenotyping. *iScience*, 4, 294–301, 2018(***Corresponding author & Lead contact**).
4. Takahashi Y, Sekine K, Kin T, **Takebe T***, Taniguchi H: Self-Condensation Culture Enables Vascularization of Tissue Fragments for Efficient Therapeutic Transplantation. *Cell Reports*, 23(6):1620-1629, 2018. Selected for Cover (***Corresponding author & Lead contact, Selected as Cover**).
5. Zhang R-R, Koido M, Tadokoro T, Ouchi R, Matsuno T, Ueno Y, Sekine K, **Takebe T***, Taniguchi H: Multiple Endodermal Organoid Generation from Robustly Amplified Human Posterior Gut Progenitors. *Stem Cell Reports*, 10 (3), 780-793. (***Corresponding author & Lead contact: Selected as Best of Stem Cell Reports**)

2017

6. **Takebe T***, Sekine K, Kimura M, Yoshizawa E, Funayama S, Nakanishi N, Hisai T, Kobayashi T, Mori A, Ayano S, Ejiri Y, Amimoto N, Yamazaki Y, Ogawa S, Ishikawa M, Kiyota Y, Ueno Y, Taniguchi H: Massive and Reproducible Production of Liver Buds Entirely from Human Pluripotent Stem Cells. *Cell Reports*, 21(10):2661-2670, 2017. (***Corresponding author**)
7. Camp JG, Sekine K, Gerber T, Loeffler-Wirth H, Binder H, Gac M, Kanton S, Kageyama J, Damm G, Seehofer D, Belicova L, Bickle M, Barsacchi R, Okuda R, Yoshizawa E, Kimura M, Ayabe H, Taniguchi H, **Takebe T***, Treutlein B*: Multilineage communication regulates human liver bud self-organization from pluripotency. *Nature*, **546**, 533–534, 2017. (***Joint corresponding authors**)
8. Koike H, Zhang R-R, Sekine K, Ueno Y, Zheng Y-W, **Takebe T***, Taniguchi H*: Nutritional modulation of mouse and human liver bud growth through a branched-amino acid metabolism. *Development*, 15;144(6):1018-102, 2017. (***Joint corresponding authors**)
9. Sekine K, **Takebe T**, Taniguchi H: Liver Regeneration Using Cultured Liver Bud. *Methods Mol Biol.* 1597:207-216, 2017.
10. Asai A, Aihara E, Mizuochi T, Phelan K, Mayhew C, Shivakumar P, **Takebe T**, Wells J, Bezerra J: Paracrine signals regulate human liver organoid maturation from induced pluripotent stem cells. *Development*, 15;144(6):1056-1064, 2017

2016

11. Ito K, Sakuma S, Kimura M, **Takebe T**, Kaneko M, Arai F. Temporal Transition of Mechanical Characteristics of HUVEC/MS C Spheroids Using a Microfluidic Chip with Force Sensor Probes. *Micromachines*, 7(12), 221, 2016

12. Kagimoto S, **Takebe T***, Kobayashi S, Yabuki Y, Hori A, Hiroto K, Mikami T, Uemura T, Maegawa J, Taniguchi H: Autotransplantation of monkey ear perichondrium-derived progenitor cells for cartilage reconstruction. *Cell transplantation*. (***Joint corresponding authors**), 2016;25(5):951-62.

2015

13. **Takebe T***, Enomura M, Yoshizawa E, Kimura M, Koike H, Ueno Y, Matsuzaki T, Yamazaki T, Toyohara T, Osafune K, Nakauchi H, Yoshikawa H-Y, Taniguchi H: Vascularized and Complex Organ Buds From Diverse Tissues Via Mesenchymal Cell-Driven Condensation. *Cell Stem Cell*, (***Corresponding author, Best of Cell Stem Cell**),16(5): 556-565, 2015
14. K Ito, S Sakuma, M Kimura, **T Takebe**, M Kaneko, F Arai: Stiffness-index map based on single cell-spheroid analysis using robot integrated microfluidic chip. *IEEE 29th International Conference on Micro Electro Mechanical Systems*, 157-160, 2015
15. Asai A, Aihara E, Mizuochi T, Phelan K, Mayhew C, Shivakumar P, **Takebe T**, Wells J, Bezerra J: Hepatic maturation of induced Pluripotent Stem Cells is regulated by paracrine signals from endothelial and mesenchymal stem cells in culture and during organoid formation. *Hepatology*, 62, 544A-544A, 2015
16. Lee S, Takahashi Y, Lee KM, Mizuno M, Nemono JG, **Takebe T**, Lee JI: Viability and functional assessment of murine pancreatic islets after transportation between Korea and Japan. *Transplant Proc.* 2015 Apr; 47(3):738-41.

2014

17. **Takebe T***, Kobayashi S, Suzuki H, Mizuno M, Chang YM, Yoshizawa E, Kimura M, Hori A, Asano J, Maegawa J, Taniguchi H: Transient vascularization of transplanted human adult-derived progenitors promotes self-organizing cartilage. *Journal of Clinical Investigation*, 2014 Oct 1;124(10):4325-34. (*: **Corresponding author**)
18. Zhang RR, **Takebe T***, Miyazaki L, Takayama M, Koike H, Kimura M, Enomura M, Zheng YW, Sekine K, Taniguchi H: Efficient hepatic differentiation of human induced pluripotent stem cells in a three-dimensional microscale culture. *Methods Mol Biol.* 2014;1210:131-41. doi: 10.1007/978-1-4939-1435-710. (*: **Corresponding author**)
19. **Takebe T***, Zhang RR, Koike H, Kimura M, Yoshizawa E, Enomura M, Sekine K, Taniguchi H*: Generation of a vascularized and functional human liver from an iPSC-derived organ bud transplant. *Nature Protocols* 9, 396–409 (2014). (*: **Corresponding author**)
20. Nam BM, Kim BY, Jo YH, Lee S, Nemono JG, Yang W, Lee KM, Kim H, Jang IJ, **Takebe T**, Lee JI : Effect of cryopreservation and cell passage number on cell preparations destined for autologous chondrocyte transplantation. *Transplant Proc.* 46(4):1145-9
21. Koike H, Ouchi R, Ueno Y, Nakata S, Obana Y, Sekine K, Zheng YW, **Takebe T**, Isono K, Koseki H, Taniguchi H: Polycomb Group Protein Ezh2 Regulates Hepatic Progenitor Cell Proliferation and Differentiation in Murine Embryonic Liver. *PLoS one* 9 (8), e104776, 2014
22. Kim BY, Nam BM, Lee KM, Jo YH, Nemono JG, Yang W, Lee S, Kim H, Jang IJ, **Takebe T**, Lee JI: Effect of Preservation Conditions on Cartilage Tissue for Cell Transplantation. *Transplant Proc.* 46 (4), 1145-1149, 2014
23. Jo YH, Jang IJ, Nemono JG, Lee S, Kim BY, Nam BM, Yang W, Lee KM, Kim H, **Takebe T**, Kim YS, Lee JI: Artificial Islets from Hybrid Spheroids of Three Pancreatic Cell Lines. *Transplant Proc.* 46 (4), 1156-1160, 2014

24. Yang W, Lee S, Jo YH, Lee KM, Nemenko JG, Nam BM, Kim BY, Jang IJ, Kim HN, **Takebe T**, Lee JI: Effects of Natural Cartilaginous Extracellular Matrix on Chondrogenic Potential for Cartilage Cell Transplantation. *Transplant Proc.* 46 (4), 1247-1250, 2014
25. Zheng YW, Nie YZ, Tsuchida T, Zhang, Aoki K, Sekine K, Ogawa M, **Takebe T**, Ueno Y, Sakakibara H, Hirahara F, Taniguchi H: Evidence of a Sophisticatedly Heterogeneous Population of Human Umbilical Vein Endothelial Cells. *Transplant Proc.* 46 (4), 1251-1253, 2014
26. Sekine K, **Takebe T**, Taniguchi H: Fluorescent Labeling and Visualization of Human Induced Pluripotent Stem Cells with the Use of Transcription Activator-like Effector Nucleases. *Transplant Proc.* 46 (4), 1205-1207
27. Zheng YW, Tsuchida T, Shimao T, Li B, **Takebe T**, Zhang RR, Sakurai Y, Ueno Y, Sekine K, Ishibashi N, Imajima M, Tanaka T, Taniguchi H: The CD133+CD44+ Precancerous Subpopulation of Oval Cells Is a Therapeutic Target for Hepatocellular Carcinoma. *Stem Cells and Development*, in press. doi:10.1089/scd.2013.0577.
28. Takebe T, Taniguchi H: Human iPSC-derived miniature organs: a tool for drug studies. *Clin Pharmacol Ther.* 2014 Sep;96(3):310-3. doi: 10.1038/clpt.2014.110. Epub 2014 May 21
29. Koike H, Ueno Y, Naito T, Shiina T, Ouchi R, Obana Y, Mori M, Sekine K, **Takebe T**, Zheng YW, Isono K, Koseki H, Taniguchi H: Ring1B Promotes Hepatic Stem/Progenitor Cell Expansion via Simultaneous Suppression of Cdkn1a and Cdkn2a. *Hepatology*, 2014 Jul;60(1):323-33.
30. Tsuchida T, Zheng YW, Zhang RR, **Takebe T**, Ueno Y, Sekine K, Taniguchi H: The development of humanized liver with Rag1 knockout rats. *Transplant Proc.* 2014 May; 46(4):1191-1193.
31. Okuda R, Sekine K, Hisamatsu D, Ueno Y, **Takebe T**, Zheng YW, Taniguchi H: Tropism of cancer stem cells to a specific distant organ. *In Vivo.* 28 (3), 361-365, 2014.
32. Mizuno M, **Takebe T***, Kobayashi S, Kimura S, Masutani M, Lee S, Jo YH, Lee JI, Taniguchi H*: Elastic cartilage reconstruction by transplantation of cultured hyaline cartilage-derived chondrocytes. *Transplant Proc*, 46 (4), 1217-1221. (*:Corresponding author)
33. Zhang RR **Takebe T***, Sekine K, Koike H, Zheng YW Taniguchi H*: Identification of Proliferating Human Hepatic Cells from Human Induced Pluripotent Stem Cells. *Transplant Proc*, 46 (4), 1201-1204. (*: Corresponding author)
34. **Takebe T***, Koike N*, Sekine K, Fujiwara R, Amiya T, Zheng YW, Taniguchi H*: Engineering of human hepatic tissue with functional vascular networks. *Organogenesis*, 10 (2), 0-1. (*: Corresponding author)
35. Takahashi Y, **Takebe T***, Enomura M, Koike N, Lee S, Nemenko JG, Sekine K, Lee JI, Taniguchi H*: High-resolution intravital imaging for monitoring the transplanted islet in mice. *Transplant Proc*, 46 (4), 1166-1168. (*: Corresponding author)
36. Enomoto Y, Enomura M, **Takebe T***, Mitsuhashi Y, Kimura M, Yoshizawa E, Taniguchi H*: Self-Formation of Vascularized Hepatic Tissue from Human Adult Hepatocyte. *Transplant Proc*, in press. (*: Corresponding author)

2013

37. **Takebe T***, Sekine K, Enomura M, Koike H, Zhang RR, Ueno Y, Zheng YW, Koike N, Aoyama S, Adachi Y, Taniguchi H*: Vascularized and functional human liver from an iPSC-derived organ bud transplant. *Nature*, 499, 481-484, 2013. (*: Corresponding author)
38. Zhang RR^{1*}, **Takebe T^{1*}**, Miyazaki L, Takayama M, Koike H, Kimura M, Enomura M, Zheng YW, Sekine K, Taniguchi H: Efficient Hepatic Differentiation of Human Induced Pluripotent Stem Cells In A Three-Dimensional Microscale Culture. *Stem Cells and Tissue Repair*. (1: Equal contribution, *: Corresponding author)

39. Mizuno M, Kobayashi S, **Takebe T**, Kan H, Yabuki Y, Matsuzaki T, Yoshikawa HY, Nakabayashi S, Jeong L, Maegawa J, Taniguchi H: Reconstruction of joint hyaline cartilage by autologous progenitor cells derived from ear elastic cartilage. *Stem Cells*, 32(3): 816-21.

2012

40. Tanaka H*, Tanaka S*, Sekine K*, Kita S, Okamura A, **Takebe T**, Zheng YW, Ueno Y, Tanaka J, Taniguchi H (*; Equal contribution): Efficient generation of pancreatic β -cell spheroids in a simulated microgravity culture system. *Biomaterials*, 2013, S0142-9612.
41. **Takebe T**, Kobayashi S, Kan H, Suzuki H, Mizuno M, Yabuki Y, Adegawa T, Yoshioka T, Tanaka J, Maegawa J, Taniguchi H: Human elastic cartilage engineering from cartilage progenitor cells using rotating wall vessel bioreactor. *Transplant Proc*, 44 (4), 1158-1161, 2012.
42. **Takebe T**, Sekine K, Suzuki Y, Enomura M, Tanaka S, Ueno Y, Zheng YW, Taniguchi H: Self-organization of human hepatic organoid by recapitulating organogenesis in vitro. *Transplant Proc*, 44 (4), 1018-1020, 2012.
43. **Takebe T**, Koike N, Sekine K, Enomura M, Ueno Y, Zheng YW, Taniguchi H: Generation of human vascular network in vitro. *Transplant Proc*, 44 (4), 1130-1133, 2012.
44. Sekine K, **Takebe T**, Suzuki Y, Kamiya A, Nakauchi H, Taniguchi H: Highly efficient generation of definitive endoderm lineage from human induced pluripotent stem cells. *Transplant Proc*, 44 (4), 1127-1129, 2012.
45. Sekine K, **Takebe T**, Enomura M, Matsui C, Tanaka H, Taniguchi H: Regenerative medicine approach as an alternative treatment to islet transplantation. *Transplant Proc*, 44 (4), 1104-1106, 2012.
46. Koike H*, Kubota K*, Sekine K*, **Takebe T**, Ouchi R, Zheng YW, Ueno Y, Tanigawa N, Taniguchi H. (*; Equal contribution): Establishment of automated culture system for murine induced pluripotent stem cells. *BMC biotechnology*, 12 (1), 81, 2012.

2011

47. Kobayashi S*, **Takebe T***, Inui M, Iwai S, Kan H, Zheng YW, Maegawa J, Taniguchi H. (*; Equal contribution): Reconstruction of human elastic cartilage by a CD44+ CD90+ stem cell in the perichondrium. *Proc Natl Acad Sci U S A*, 108(35):14479-84, 2011.
48. Kobayashi S*, **Takebe T***, Zheng YW, Mizuno M, Yabuki Y, Maegawa J, Taniguchi H: Presence of cartilage stem/progenitor cells in adult mice auricular perichondrium. (*; Equal contribution) *PLoS One*. 2011;6(10):e26393.

REVIEW ARTICLES:

1. **Takebe T**, James M-W, Michael H, Zorn A: Organoid center strategies for accelerating clinical translation. *Cell Stem Cell*, 22, 6, 806–809, 2018.
2. Lewis K, **Takebe T***: Tumoroid a la carte; path to personalization. *Hepatology*, in press (***Corresponding author**)
3. **Takebe T***, Zhang B, Milica R*: Synergistic engineering: Organoids meet organs-on-a-chip. *Cell Stem Cell*, 21 (3), 297-300, 2017
4. Shinozawa T, Yoshikawa H-Y, **Takebe T***: Reverse Engineering Organ Buds through Self-Driven Condensation and Organization. *Developmental Biology* 2016 Jun 27. pii: S0012-1606(16)30156-7. (***Correspondence**)
5. Koike H, R Tamir, **Takebe T***. Growing Mini-Organs from Stem Cells. *Encyclopedia of Molecular Cell Biology and Molecular Medicine*, Wiley-VCH, 2016.
6. Koike H, **Takebe T***. Generating Mini-Organs in Culture. *Curr Pathobiol Rep*. 4, 2, 59-68, 2016.
7. Takahashi Y, **Takebe T**, Taniguchi H: Engineering pancreatic tissues from stem cells towards therapy. *Regenerative Therapy* 2016(3): 15-23, 1 Mar 2016, doi: 10.1016/j.reth.2016.01.002
8. Rashid T, **Takebe T**, Nakauchi H: Novel strategies for liver therapy using stem cells. *Gut*, 2015 Jan; 64(1):1-4. Doi:10.1136/gutjnl-2014-307480.Epub 2014Sep 2.
9. RR Zhang, H Koike, **T Takebe**: The Visualization of Human Organogenesis from Stem Cells by Recapitulating Multicellular Interactions, *Hyper Bio Assembler for 3D Cellular Systems*, 275-283, 2015
10. Osaki T, Fukuda J, Koike H, **Takebe T** “Molding process of complex organs and its application to medical transplantation using human iPS cells”, Vol.33 No.8, 2015, *JIKKEN IGAKU*
11. Taniguchi H, **Takebe T** “The creation of functional human liver by the iPS-derived organ primordia transplants”, Vol.70 No.2, 298-315, 2015, *SAISHINIGAKU*
12. Taniguchi H, **Takebe T** “Creation of a functional human liver using iPS cells”, Vol.70 No.3, 353-360, 2015, *KANTANSUI*
13. Taniguchi H, **Takebe T** “The creation of human organs by utilizing iPS cells”, Vol.7 No.3, 36-41, 2015, *GEKKAN TONYOBYO DIABETES*
14. Taniguchi H, **Takebe T** “Development strategies for the creation of human organs by utilizing iPS cells”, 11-15, 2015, Regenerative medicine of Islet - the new deployment over pancreatic β cells occurs and the playback -
15. **Takebe T**, Taniguchi H “Creation of functional human organ using iPS cells”, 25-31, 2015, Annual Review 2015, *Diabetes, Metabolism, and Endocrine*
16. **Takebe T**, Taniguchi H “The creation of human liver based on the artificial structure of iPS cell-derived organ primordia”, Vol.65 No.4, 503-507, 2014, *YOKOHAMAIGAKU*
17. Taniguchi H, **Takebe T** “Artificial reconstruction of human three-dimensional tissues based on the interaction of stem cells and microenvironment”, Vol.12 No.3, 66-71, 2014, *Cancer molecular target therapy*
18. Takahashi S, **Takebe T**, Taniguchi H “The latest developments of the pancreatic β cell differentiation induction studies using pluripotent stem cells”, Vol.21 No.2, 110-118, 2014, *Organ Biology*
19. **Takebe T**, Taniguchi H: Human iPSC-derived miniature organs: a tool for drug studies. *Clinical Pharmacology Therapeutics*. 96(3): 310-3
20. Taniguchi H, **Takebe T**: “Realization of human iPSC-organ bud transplantation therapy”, Vol.37 No.8, 2014, *Gastroenterological Surgery*
21. Taniguchi H, **Takebe T***: “Strategies toward human live regeneration”, Vol.69 No.3, 100-109, 2014, *Saishinigaku*
22. **Takebe T***, Sekine K, Taniguchi H “ Vascularized and functional liver from human iPS cells by recapitulating organogenesis ”, 235-245, 2014, *Yodosha*

23. **Takebe T***, Taniguchi H: Human iPSC-Derived Miniature Organs: A Tool for Drug Studies. *Clinical Pharmacology & Therapeutics*. 96(3):310-313 | doi:10.1038/clpt.2014.110. (*: Correspondence)
24. **Takebe T**, Taniguchi H: “Methods for generating vascularized and functional organ from pluripotent stem cells”, Vol.32 No.1, 2014, *JIKKEN IGAKU*
25. **Takebe T**, Taniguchi H: “Vascularized and functional liver from human iPS cells by recapitulating organogenesis”, Vol.32 No.1, 2014, *JIKKEN IGAKU*
26. **Takebe T**, Taniguchi H: “Creation of vascularized and functional organ from human iPS cell”, Vol.20 No.2, 2013, *Organ Biology*
27. Judee Grace Nemen-Guanzon, Johan Robert Berg, Mitsuru Mizuno, Soojung Lee, Yong Hwa Jo, Jee Eun Yeo, Bo Mi Nam, Bo Young Kim, Dae-Hyun Kim, Yong-Gon Koh, **Takebe T*** and Jeong-Ik Lee*: Towards the advancement of blood vessel tissue engineering. *International Journal of Tissue Regeneration*, 4(1), 7-11, 2013. REVIEW.
28. **Takebe T**, Taniguchi H: “A challenge towards organ generation”, Vol.51 No.11, 2013, *KAGAKU TO SEIBUTSU*
29. **Takebe T**, Taniguchi H: “From cells to organs: Future paradigm of regenerative medicine”, Vol.19 No.1, 2012, *Organ Biology*

Book Chapter:

1. Koike H, **Takebe T**. “Growing Mini-Organs from Stem Cells.” *Encyclopedia of Molecular Cell Biology and Molecular Medicine*, Wiley-VCH, 2016.
2. Zhang R-R, Koike H, **Takebe T**. “Chapter 17. The visualization of human organogenesis from stem cells by recapitulating multicellular interactions.” *Hyper Bio Assembler for 3D Cellular Systems*, Springer, 2015.
3. **Takebe T**, Taniguchi H Human hepatocyte differentiation by transplanting iPSC-liver buds”, *Jikken igaku ‘Methods for ES · iPS cell experiments’*, 2014.

Invited Speaker:

1. **Takebe T**: Organoid4.0 and future healthcare 2020 *JST-IMPACT annual seminar series*, University of Tokyo, Tokyo 2018.7.20
2. **Takebe T**: Organoid4.0 and future healthcare 2020 *Takeda Pharmaceuticals, Kanagawa* 2018.7.19
3. **Takebe T**: The Era of Organoid Medicine *Korea Organoid Symposium*, Seoul 2018.5.16
4. **Takebe T**: Organ neogenesis—Future of Healthcare— *Organoid consortium symposium*, Tokyo Medical and Dental University Tokyo 2018.5.14
5. **Takebe T**: Next generation organoid based therapy *Japan society for Pediatrics, Plenary Speaker* Fukuoka 2018.4.20
6. **Takebe T**: Organoid4.0—towards whole organ— *JMSA NY Life Science Forum NYU Langone Medical Center Farkas Auditorium*, NY, USA 2018.4.7
7. **Takebe T**: Holomics approach for the future human biology *JST Center for Research and Development Strategy (CRDS) Life Science and Clinical Medicine Unit*, Tokyo 2018.3.28
8. **Takebe T**: Holomics approach for human steatohepatitis *The Japanese Society for Regenerative Medicine* Yokohama 2018.3.23
9. **Takebe T**: The Era of Organoid Medicine— Liver Organoid Based Approach *Southern California Stem Cell Seminar Series*, SanDiego 2018.3.8
10. **Takebe T**: Next generation organoid research —The era of Organoid Medicine— *Riken CDB-Otsuka Pharmaceuticals joint research seminar* Kobe 2018.2.15

11. **Takebe T: The era of Organoid Medicine4.0 Regenerative Biology and Stem Cell Seminar Series**
Northwestern University, Chicago 2018.1.19
12. **Takebe T:** Organoid4.0 and future healthcare 2020 *Ono Pharmaceuticals, Kyoto* 2017.12.8
13. **Takebe T:** “Growing organ bud towards therapy” **New York Stem Cell Foundation Annual meeting**
New York, 23 Oct 2017
14. **Takebe T:** Organoid4.0 and future healthcare 2020 *JST-IMPACT annual seminar series*, University of Tokyo,
Tokyo 2018.7.20
15. **Takebe T:** Organoid4.0 and future healthcare 2020 *Takeda Pharmaceuticals, Kanagawa* 2018.7.19
16. **Takebe T:** The Era of Organoid Medicine **Korea Organoid Symposium, Seoul 2018.5.16**
17. **Takebe T:** Organ neogenesis—Future of Healthcare— **Organoid consortium symposium**, Tokyo Medical and
Dental University Tokyo 2018.5.14
18. **Takebe T:** Next generation organoid based therapy *Japan society for Pediatrics, Plenary Speaker* Fukuoka
2018.4.20
19. **Takebe T:** Organoid4.0—towards whole organ— *JMSA NY Life Science Forum NYU Langone Medical
Center Farkas Auditorium*, NY, USA 2018.4.7
20. **Takebe T:** Holomics approach for the future human biology **JST Center for Research and Development
Strategy (CRDS) Life Science and Clinical Medicine Unit**, Tokyo 2018.3.28
21. **Takebe T:** Holomics approach for human steatohepatitis *The Japanese Society for Regenerative Medicine*
Yokohama 2018.3.23
22. **Takebe T:** The era of Organoid Medicine— Liver Organoid Based Approach **Southern California Stem Cell
Seminar Series, SanDiego 2018.3.8**
23. **Takebe T:** Next generation organoid research —The era of Organoid Medicine— *Riken CDB-Otsuka
Pharmaceuticals joint research seminar* Kobe 2018.2.15
24. **Takebe T: The era of Organoid Medicine4.0 Regenerative Biology and Stem Cell Seminar Series**
Northwestern University, Chicago 2018.1.19
25. **Takebe T:** Organoid4.0 and future healthcare 2020 *Ono Pharmaceuticals, Kyoto* 2017.12.8
26. **Takebe T:** “Growing organ bud towards therapy” **New York Stem Cell Foundation Annual meeting** NewYork,
23 Oct 2017
- 27.
28. **Takebe T:** “Growing organ bud towards therapy” **The 27th Hot Spring Harbor International
Symposium, Frontiers in Stem Cell Research and Reprogramming**, Medical Institute of
Bioregulation, Kyushu University, Oct31 - Nov 1, 2017
29. **Takebe T:** “Organoid biology and regenerative medicine” **1st Joint Meeting on Health and Medical
Care between Thailand and Japan**, Thailand, 7 Sep 2017
30. **Takebe T :** Future of Healthcare2020 **Nikko Cordial Securities Inc.** , 4 Sep 2017, Shinjuku, Japan.
31. **Takebe T :** Organ Bud Based Approach Towards Therapy. **RIKEN CLST Educational Seminar**, 1
Aug 2017, Yokohama, Japan.
32. **Takebe T :** Future of Healthcare2020 **TAISEI CORPORATION**, 25 Jul 2017, Tokyo.
33. **Takebe T :** Human iPS derived miniature liver for regenerative medicine *The 38th Annual Meeting of
the Japanese Society of Inflammation and Regeneration*, 19 Jul 2017. Osaka

34. **Takebe T** : Human iPS derived miniature liver and serum protein production. *The 65th Annual Meeting of Japan Society of Transfusio Medicine and Cell Therapy*, 24 Jun 2017, Chiba.
35. **Takebe T** : Future of Heathcare2020 *Takeda Pharmaceutical Co.,Ltd., Shonan Institute*, 23 Jun 2017, Kanagawa, Japan.
36. **Takebe T**: “Human Liver Bud Transplantation Towards Therapy” Innovation showcase sponsored by Healios, *ISSCR 2017 ANNUAL MEETING*, 14 Jun 2017, Boston.
37. **Takebe T**: “Human Organoid Based Approach Towards Therapy” Research Form, **Boston Takeda RMU day**, Tuesday, June 13, 2017, Boston.
38. **Takebe T** : 2 Lives - Future of Healthcare- **2nd 01 Doctor Initiative**, 18 May 2017, Tokyo.
39. **Takebe T** : Towards creation of human organ. *KURUME University*, .2 May 2017, Fukuoka, Japan,
40. **Takebe T** : Miniature organ technology for industrialization. *CPhI / ICSE / P-MEC / BioPh / InnoPack* , 20 Apr 2017, Japan.
41. **Takebe T** : Human organ bud transplantation therapy *19th surgical Society for Molecular and Cellular Therapy*, 20 Apr 2017, Yokohama, Japan.
42. **Takebe T**: “Human Organ Bud Generation from Stem Cell Towards Therapy” Liver Seminar Series, **Albert Einstein College of Medicine**, April 5, 2017, NYC, Wednesday.
43. **Takebe T** : Future of iPS cell related research *SEIKOGAKUIN*, 19 Mar 2017, Kanagawa, Japan.
44. **Takebe T**: Prospects for medical applications using the organ bud technology, *Ehime University*, 16 Mar 2017, Ehime, Japan.
45. Matsuzaki K, Yoshikawa H, Taniguchi H, **Takebe T** : “Matrix rigidity and self-organization”, *The 16th Congress of the Japanese Society for Regenerative Medicine*, Mar 2017, Sendai, Japan.
46. Matsuzaki K, Yoshikawa H, Taniguchi H, **Takebe T** : “Defining optimal matrix rigidity for self-organization”, *The 37th Annual Meeting of Japanese Association for Animal Cell Technology*, Symposium, Mar 2017, Tokyo, Japan.
47. **Takebe T** : *De novo* generation of diverse organ buds from stem cells. **KEYSTONE SYMPOSIA ON Molecular and Cellular Biology**, 9-13 March, 2017, Boston.
48. **Takebe T** :Strategic human iPSC-organoid based research. *Leading Technology Exchange Meeting Symposium 2016*, 1 Feb 2017, Tokyo.
49. **Takebe T** : Miniature organ and future medical application. *Japan Association for Chemical Innovation(JACI) Seminar*, 23 Jan 2017, Tokyo.
50. **Takebe T** : *De novo* generation of diverse organ buds from stem cells. **Endocrinology Seminar Series**, 10 Feb, 2017, Cincinnati.
51. **Takebe T** : Radial Prototyping -towards whole organ– **Sumitomo Dainippon Pharma Co., Ltd. Seminar**, 6Dec 2016, Osaka.
52. **Takebe T** : Modeling human organ development 2016 , *East-West Joint Scripts Association*, 3 Dec 2016, Japan.
53. **Takebe T** : Dissecting human organ heterogeneity. *General Assembly of the Molecular Biology Society*, 30 Nov-1 Dec 2016, Yokohama.
54. **Takebe T** : Regenerative Medicine Frontline - Tissues and organs 2016 “US-Japan Innovative Healthcare Technologies Conference” **World Alliance Forum in San Francisco**, 21 Nov 2016, San Francisco.

55. **Takebe T** : Human Organ Bud Generation From Stem Cell Towards Therapy. *Tokyo Metropolitan Institute of Medical Science*, 18 Nov 2016, Tokyo.
56. **Takebe T** : Engineering Liver Via iPSC 2016 Basic Research Workshop, **American Association for Study of Liver Disease Annual meeting**, 17 Nov 2016, Boston.
57. **Takebe T** : Human liver bud development from pluripotency. *Organoids: Modelling Organ Development and Disease in 3D Culture*, EMBL Heidelberg, Germany, Wednesday 12 October - Saturday 15 October 2016, USA
58. **Takebe T** : Modelling early human liver development from pluripotency. *From Stem Cells to Human Development, The Company of Biologist*, 25-28 September 2016 – Southbridge, MA, US.
59. **Takebe T** : *De novo* generation of diverse organ buds towards therapy, *International Society for Stem Cell Research Annual Meeting*, 2016 San Francisco, 25 Sep 2016.
60. **Takebe T** : Human Organ Bud Generation From Stem Cell Towards Therapy. *Japanese Society for Pediatric Gastroenterology, Hepatology and Nutrition*, 7-18 Sep 2016, Tsukuba, Japan.
61. **Takebe T** : Miniature organ and future medical application *JASIS 2016* , 8 Sep 2016, Japan.
62. **Takebe T** :Multi-cellular human organ reconstitution, *CHEMINAS*, 6 Sep 2016, Japan.
63. **Takebe T** : Multi-cellular human organ reconstitution, *Sumitomo Dainippon Pharma Co., Ltd.*, 28 Aug 2016, Osaka, Japan.
64. **Takebe T** : Multi-cellular human organ reconstitution. *Tokyo Medical and Dental University*, 25 Aug 2016, Tokyo.
65. **Takebe T** : Future of healthcare 2020. *Otsuka Pharmaceutical Pharmacy*, 19 Aug 2016, Tokushima, Japan.
66. **Takebe T** : Future of healthcare 2020. *Word Alliance Forum executive club*, 29 Jul 2016, San Francisco.
67. **Takebe T** : *De novo* generation of diverse organ buds towards therapy, *International Society for Stem Cell Research Annual Meeting*, 25 Jul 2016, San Francisco.
68. **Takebe T** : Human organ bud transplantation therapy, *The Japanese Society of Inflammation and Regenerative*, 16 Jul 2016, Kyoto, Japan.
69. **Takebe T** : Human organ bud transplantation towards organ replacement, *Keio University*, 14 Jul 2016, Tokyo.
70. **Takebe T** : Human organ bud transplantation therapy, *The 61st Annual Meeting of the Japanese Society for Dialysis Therapy*, 12 Jul 2016, Japan.
71. **Takebe T** : Generating multicellular human organoids, *2016 Biomedical Research and Innovation KOBE*, 30 May 2016, Kobe, Japan.
72. **Takebe T** : Human metabolic organ generation from iPSC, *The 3rd Annual Meeting of Japanese Association for Laboratory Animal Science*, 19 May 2016, Kawasaki, Japan.
73. **Takebe T** :Towards human organ creation, *Otsuka Pharmaceutical Co., Ltd.*, 16 May 2016, Tokyo.
74. **Takebe T** : iPS cell and regenerative medicine, *The 64th Annual Meeting of Japan Society of Transfusion Medicine and Cell Therapy*, 30 Apr 2016 Kyoto, Japan.
75. **Takebe T** : Human organ bud transplantation therapy. *The 64th Annual Meeting of the Japan Society of Transfusion Medicine and Cell Therapy*, 29 Apr 2016, Japan.

76. **Takebe T** :Organ bud based approach towards therapy. *The 102nd General Meeting of the Japanese Society of Gastroenterology*, 22 Apr 2016, Japan.
77. **Takebe T** : Generating diverse organ buds towards therapy. *CiRA / ISSCR 2016 International Symposia*, 22-24 Mar 2016, Japan.
78. **Takebe T** : Generation of Diverse Organ Buds from Human iPSCs. *French Society for Cell and Gene Therapy*, 14 March 2016, Marseille, France.
79. **Takebe T** : iPSC-derived organ bud based approach toward therapy. *Guest Seminar DR Inserm, Hôpital Paul Brousse*, 8 March 2016, Paris, France.
80. **Takebe T** : Organ bud based approach towards therapy, *Nagoya University*, 15 Jan 2016, Aichi, Japan.
81. **Takebe T** : Organ bud based approach towards therapy, *Promega Corporation*, 2 Dec 2015, Kobe, Tokyo.
82. **Takebe T** : Vascularized and functional organ from human iPSC, *The Japanese Society of Molecular Biology*, 1 Dec 2015, Kobe, Tokyo.
83. **Takebe T** : Prospects for medical application using organ creation technology, *Dialog Co. Ltd.*, 30 Nov 2015, Kobe, Tokyo.
84. **Takebe T** : Prospects for organ regeneration, *The Jikei University School of Medicine*, 24 Nov 2015, Tokyo.
85. **Takebe T** : Generating diverse organ buds from stem cells *JST CREST-PRESTO joint international symposium ~Structural Biological Dynamics: From Molecules to Life with 60 trillion Cells~* 5-6 Nov 2015, Tokyo
86. **Takebe T** : Human iPSC-derived organ bud based approaches. *112th ITC(INTERNATIONAL TITISEE CONFERENCE)*, 22 Oct 2015, Mainz Germany.
87. **Takebe T** :Spatio-Temporal Bio Integrity, *KAKEN*, 13 Oct 2015, Tokyo.
88. **Takebe T** : Organ regeneration, *TOIN high School*, 26 Sep 2015, Kanagawa, Japan.
89. **Takebe T** : De Novo Generation of Diverse Organ Buds from Human iPSCs -Modeling human organogenesis-. *The Gladstone Institute of Cardiovascular Disease and the Cardiovascular Research Institute, Seminar*, 21 Sep 2015, San Francisco.
90. **Takebe T** : In vitro reconstructions and controls of multicellular structures. *The 26th CDB Meeting Mechanistic Perspectives of Multicellular Organization*, 8, Sep, 2015, Kobe, Japan.
91. **Takebe T** : Prospects for medical applications using the organ primordia creation technology. *Kyowa Hakko Kirin*, 25, Aug, 2015, Tokyo, Japan.
92. **Takebe T** : De novo generation of liver buds from stem cells. *International Conference of Future Hepatology at Kaohsiung*, 25 Jul 2015, Kaohsiung Taiwan.
93. **Takebe T** : Prospects for organ creation - Towards the next generation of medical transplantation realization-. *Asahikawa Medical College forum*, 18, Jul, 2015, Hokkaido, Japan.
94. **Takebe T** : Prospects for organ creation. Tohoku University Research Circle (ARTs) , 17, Jul, 2015, Sendai, Miyagi, Japan.
95. **Takebe T** : De novo generation of diverse organ buds from iPSCs towards therapy. *ISSCR 2015 ANNUAL MEETING*, 26 Jun 2015, Stockholm Sweden.
96. **Takebe T** : Prospects for organ creation. *Human metabolome biology's*, 19, Jun, 2015, Tokyo, Japan.

97. **Takebe T** : Prospects for medical applications using the organ primordia creation technology. **Takeda Pharmaceutical Co.,Ltd.**, Shonan Institute, 12, Jun, 2015, Kanagawa, Japan.
98. **Takebe T** : Realization of human iPSC-derived liver bud transplantation therapy. *the Young Investigators' Stem Cell Symposium 2015*, 8 Jun, 2015, Singapore.
99. **Takebe T** : New Development of liver regeneration research with the aim of foundation formation of clinical application. *51st Annual Conference of the Japan Society of Hepatology*, 22 May, 2015, Kumamoto, Japan.
100. **Takebe T** : Prospects for organ regeneration. Ltd. **Dojinkai Institute**, 20 May, 2015, Kumamoto, Japan.
101. **Takebe T** : De Novo Generation of Human Organ Bud from iPSC. *Digestive Diseases Research Seminar Series*, 12 May 2015, Yale University, Connecticut, USA.
102. **Takebe T** : Human iPSC-derived organ bud based approaches. *The 9th Aso International Meeting*, Apr, 2015, Kumamoto, Japan.
103. **Takebe T** : Realization of iPSC-organ bud transplantation therapy. *Welcome Trust-Medical Research Council*, Apr 2015, **Cambridge Stem Cell Institute**, UK.
104. **Takebe T** : Regenerative approaches through developmental biology. *EASL, 50th the International Liver Congress*, 22-26, Apr, 2015, Vienna Austria.
105. **Takebe T** : Human iPSC-derived organ bud based approaches towards clinical application. *8th Pan Pacific Symposium 2015 on Stem Cells and Cancer Research*, 1, Apr, 2015, Taiwan.
106. **Takebe T** : De novo generation of diverse organ buds from stem cells. *CiRA Open Seminar*, Center for iPS Cell Research and Application, Kyoto University, 15, Apr, 2015, Kyoto, Japan.
107. **Takebe T** : Regenerative medicine of metabolic organ using iPS cells. *14th Annual Meeting of the Japanese Society for Regenerative Medicine Meeting Symposium*, 19, Mar, 2015, Japan.
108. **Takebe T** : Liver organogenesis. *ASTELLAS FRANCE Annual Meeting of Transplantation Club*, 6, Feb, 2015, France.
109. **Takebe T** : Prospects for organ regeneration. **IKEDA SCIENTIFIC Co., Ltd.**, 31, Jan, 2015, Japan.
110. **Takebe T** : Realization of iPSC-organ bud transplantation therapy. *The 18th Takeda Science Foundation Symposium*, 16, Jan, 2015, Kyoto, Japan.
111. **Takebe T** : Transient vascularization of transplanted human adult-derived progenitors promotes self-organizing cartilage. *Asian Cartilage Repair Society 2nd Annual Congress*, 7 Dec, 2014, Seoul, Korea.
Invited Speaker
112. **Takebe T** : Establishment of human organ bud technology for clinical application, *The 47th Annual Meeting of the Japanese Society for Organ Preservation and Biology*, 28 Nov 2014, Osaka, Japan
113. **Takebe T** : Artificial construction of the complex human organs through reproduction of organs during early development process. *37th Annual Meeting of the Molecular Biology Society of Japan Symposium*, 25-27, Nov, 2014, Yokohama, Japan.
114. **Takebe T** : Realization of iPSC-Organ Bud Transplantation Therapy. *World Alliance forum*, 6-7 Nov, 2014, San Francisco, CA, USA.
115. **Takebe T** : Vascularized and functional human liver from an iPSC-derived organ bud transplant. *Advances and Applications of Functional Hepatocytes Symposium*, 29-30 Oct, 2014, Shanghai, China.

116. **Takebe T** : Artificial construction of complex human organ using iPS cells. *The Chemical Society of Japan Autumn business 4th CSJ chemical Festa 2014*, 14-16 Oct, 2014, Tokyo, Japan.
117. **Takebe T**: Pluripotent stem cells and organ reconstitution for rare diseases. *Translational Science of Rare Diseases – From Rare to Care II*, 8-10 Oct, 2014, Munich, Germany.
118. **Takebe T**: De Novo Generation of Human Organ Bud from pluripotent stem cells. *Max Planck Institute for Evolutionary Anthropology Department of Evolutionary Genetics*, 7 Oct, 2014, Leipzig, Germany.
119. **Takebe T** : Artificial construction of the complex human iPS cell-derived organs consisting of a multi-cell system. *Tsuruma-Rinkan diabetes seminar lecture*, 6-7, Oct, 2014, Yokohama, Japan.
120. **Takebe T** : De Novo Generation of Human Organ Bud from iPSC. *Regenerative medicine and organs reconstructive medicine training camp*, 4-5, Oct, 2014, Kyoto University, Japan.
121. **Takebe T**: De novo organ bud generation from stem cells. *State-of-the-art lecture*, 30 Sep, 2014, Liver Center of the Digestive Health Center, Cincinnati Children's Hospital Medical Center (CCHMC).
122. **Takebe T** : Artificial construction of the complex human organ consisting of a multi-cell system. *66th Annual Meeting of the Japanese Society for Biotechnology tournament*, 10, Sep, 2014, Japan.
123. **Takebe T** : Artificial construction of the complex human organ consisting of a multi-cell system. *Yokohama City University Department of Obstetrics and Gynecology journal seminar*, Yokohama, 8, Sep, 2014, Japan.
124. **Takebe T**: Vascularized and functional human liver from an iPSC-derived organ bud transplant. *KEY Forum: From Stem Cells to Organs*, 4 Sep, 2014, Kumamoto, Japan.
125. **Takebe T** : Attempts to disease treatment based on the artificial structure of human iPS cell-derived organ. *Merck Millipore Bio Science Forum 2014*, 1, Aug, 2014, Japan.
126. **Takebe T** : Create human organs from iPS cells!. *6th Gunma University kidney seminar for young doctors*, 16, Jul, 2014, Japan.
127. **Takebe T** : 10 years from this organ regenerative medicine. *1st fiscal 2014 Bio Venture Alliance (BVA) Seminar*, 30, Jun, 2014, Japan.
128. **Takebe T**: Vascularized and functional human liver from an iPSC-derived organ bud transplant. *47th Annual Meeting for the Japanese Society of Developmental Biologists*, 28 May, 2014, Nagoya, Japan.
129. **Takebe T**: Realization of human iPSC-derived organ bud transplantation therapy. *The Whole Liver Replacement State-of-the-Science Summit*, 29-30 Apr, 2014, Chicago.
130. **Takebe T**: Vascularized and functional human liver from an iPSC-derived organ bud transplant. *7th Pan Pacific Symposium on Stem Cells and Cancer Research (PPSSC)*, 12-17, Apr, 2014, Taiwan.
131. **Takebe T**, Sekine K, Zheng YW, Ueno Y, Taniguchi H: Creation technology development base of metabolic organ using iPS cells. *13th Annual Meeting of the Japanese Society for Regenerative Medicine Symposium*, 4-6, Mar, 2014, Kyoto, Japan.
132. **Takebe T**, Yoshikawa H, Taniguchi H: Artificial construction of the complex three-dimensional structure consisting multicellular system that leverages the organ primordia Creation Act. *13th Annual Meeting of the Japanese Society for Regenerative Medicine Symposium*, 4-6, Mar, 2014, Kyoto, Japan.
133. **Takebe T**, Sekine K, Taniguchi H: The creation of functional human liver by human iPS cell-derived organ primordia transplants. *13th Annual Meeting of the Japanese Society for Regenerative Medicine Symposium*, 4-6, Mar, 2014, Kyoto, Japan.

134. **Takebe T**: Creating a human organ from iPS cells. Yokohama City University cell signaling Study Group, 6, Jan, 2014, Yokohama, Japan.
135. **Takebe T**: Vascularized and functional human liver from an iPSC-derived organ bud transplant. *THE 12th US-JAPAN SYMPOSIUM ON DRUG DELIVERY SYSTEMS*, 17, Dec, 2013, Hawaii, USA.
136. **Takebe T**: Creating a human organ from iPS cells. *Institute of Medical Science, University of Tokyo young Symposium*, 28, Nov, 2013, Tokyo, Japan.
137. **Takebe T**: Vascularized and functional human liver from an iPSC-derived organ bud transplant. *Small RNAs to Stem Cells & Epigenetic Reprogramming Asia-2013 Meeting*, 25, Nov, 2013, Tokyo, Japan.
138. **Takebe T**: Vascularized and functional human liver from an iPSC-derived organ bud transplant. *The 12th Congress International Xenotransplantation Association*, 12, Nov, 2013, Osaka, Japan.
139. **Takebe T**: Creating human organs from iPS cells. *16th Japan xenograft study group*, 12, Nov, 2013, Osaka, Japan.
140. **Takebe T**: Omnidirectional approach to achieve a healthy future. *Gushin Association Tokyo Branch Seminar*, 9, Nov, 2013, Tokyo, Japan.
141. **Takebe T**: Create human organs! *Cell aggregation meeting 2013*, 8, Nov, 2013, Fukuoka, Japan.
142. **Takebe T**: Vascularized and functional human liver from an iPSC-derived organ bud transplant. *4th Regenerative Medicine Seminar sponsored by JSPS and NRF*, 25, Oct, 2013, Konkuk University, Seoul, Korea.
143. **Takebe T**: Vascularized and functional human liver from an iPSC-derived organ bud transplant. *The 7th International Cell Therapy Conference*, 24, Oct, 2013, Seoul, South Korea.
144. **Takebe T**: Vascularized and functional human liver from an iPSC-derived organ bud transplant. *4th Regenerative Medicine Seminar sponsored by JSPS and NRF*, 23, Oct, 2013, Inha University, Seoul, Korea.
145. **Takebe T**: Nature Medicine special project, *Herrenhausen Symposium on Stem Cells and Regenerative Medicine*, 8-11, Oct, 2013, Hannover, Germany.
146. **Takebe T**: Creating human organs from iPS cells. *Global COE Program Seminar*, 9, Sep, 2013, Tokyo Women's Medical University of Advanced Biomedical Research Institute, Japan.
147. **Takebe T**: Creation of vascularized human organ from induced pluripotent stem cells. *2nd Regenerative Medicine Seminar sponsored by JSPS and NRF*, 27, May, 2013, Seoul, Korea.
148. **Takebe T**: Generation of human liver tissue from an induced pluripotent stem cell-derived organ bud transplant. Symposium "Current state and future of Regenerative Medicine", *The 90th Annual Meeting of the Physiological Society of Japan*, 29, Mar, 2013, Japan.
149. **Takebe T**, Sekine K, Taniguchi H: Whether to mimic the organ generated in the how? The development of human liver tissue Creation Act with the vascular system. *12th Annual Meeting of the Japanese Society for Regenerative Medicine Panel discussion*, 21-23, Mar, 2013, Yokohama, Japan.
150. **Takebe T**, Kobayashi S, Taniguchi H: Development of elastic cartilage reconstruction method using human auricular cartilage-derived progenitor cells. *12th Annual Meeting of the Japanese Society for Regenerative Medicine Symposium*, 21-23, Mar, 2013, Yokohama, Japan.

151. **Takebe T**, Taniguchi H: Creation of functional human organ using the pluripotent stem cells. *39th Japan organ preservation biomedical Association Scientific Sessions Symposium*, 16-17, Nov, 2012, Fukushima, Japan.
152. **Takebe T**: The creation of functional human liver tissue that is based on iPS cell-derived Kanhara based on transplant. *53rd stem cell therapy research center forum*, 15, Nov, 2012, Institute of Medical Science, University of Tokyo, Tokyo, Japan.
153. **Takebe T**, Sekine K, Aoyama S, Adachi Y, Taniguchi H: Development of pharmacogenomics cellomics foundation technology using human iPS. *127th Japanese Pharmacological Society Kanto Group Symposium*, 20, Oct, 2012, Tokyo, Japan.
154. **Takebe T**: Creation of functional human organ using the pluripotent stem cells. ERATO Takeuchi bio-fusion project *1st encourage Board Special Research Committee*, 27, Jul, 2012, Institute of Industrial Science, the University of Tokyo, Tokyo, Japan.
155. **Takebe T**: Generation of islet-like structure with functional human vascular network. *12th Islet Transplantation Symposium*, 26, Nov, 2011, Korea.
156. **Takebe T**: Reconstruction of human elastic cartilage from a novel stem/progenitor cells in the auricular cartilage. *Fukuura Research Conference*, 2010, Yokohama, Japan.

Manuscripts Review:

10-15 solicited peer reviews/year

Nature, Cell Stem Cell, Science Translational Medicine, Nature Protocols, Developmental Cell, Cell Reports, PNAS, Nature Communications, Journal of Clinical Investigation, Journal of Clinical Investigation Insights, Hepatology, Biomaterials, PLoS ONE, Laboratory Investigation, Stem Cells and Translational Medicine, Organogenesis, Developmental Biology

Participation in recruitment activities:

Interview graduate student candidates; GI, Developmental Biology, and Surgery faculty candidates.

Participation in local activities that benefit institution:

May 16, 2012	Presentation for high school students in the Frontier Seminar, Toin-Gakuin High School
Aug 20, 2012	Presentation for junior high school students in the Frontier Seminar, Southern Yokohama Junior High School
Sep 25, 2013	Presentation for high school students in the Frontier Seminar, Toin-Gakuin High School
Oct 31, 2014	Presentation for Yokohama City residents in the Outreach and Education Program, Yokohama City University
Oct 26, 2015	Presentation for high school students in the Outreach and Education Program, Yokohama City University for Science Outreach
Jul 8, 2015	Presentation for patient community forum for organ transplantation, Yokohama City University for Science Outreach
Jul 8, 2015	Presentation for patient community forum for organ transplantation, Yokohama City University for Science Outreach