

CURRICULUM VITAE
TAKEBE, TAKANORI, M.D.

NATIONALITY: JAPAN

PROFESSIONAL ADDRESS:

Location S, Suite S3.622, 3333 Burnet Avenue, Cincinnati, OH 45229

Phone: +1-513-803-7807, E-mail: Takanori.Takebe@cchmc.org

3-9 Fuku-ura, Kanazawa-ku, Yokohama, 236-0004, Japan.

Phone: +81-45-787-2660, E-mail: ttakebe@yokohama-cu.ac.jp

PRESENT POSITION:

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

Associate Professor, Department of Regenerative Medicine, Yokohama City University

EDUCATIONAL BACKGROUND

Degree

M.D., Yokohama City University School of Medicine, 2011

Others

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

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

POSITIONS AND EMPLOYMENT

2011-2013 **Research Associate**, Yokohama City University, Japan
2011- **Researcher**, Mirai Design Lab, Japan
2012- **Project leader**, Yokohama City University Advanced Medical Research Center, Japan
2013- **PRESTO Investigator**, Japan Science and Technology Agency, Japan
2013- **Associate Professor**, Yokohama City University, Japan
2014- **Visiting Scientist**, RIKEN Center for Developmental Biology
2015 **Visiting Associate Professor**, Stanford University
2015- **Assistant Professor**, Cincinnati Children's Hospital Medical Center

OTHER EXPERIENCE AND PROFESSIONAL MEMBERSHIPS

2009- Member, Japanese Society for Regenerative Medicine
2011- Member, Japanese Cancer Association
2011- Member, The Molecular Biology Society of Japan
2011- Member, International Society for Stem Cell Research
2011- Member, Japan Society for Transplantation
2014- Councilor, Japan Society of Organ Preservation and Medical Biology
2016- Member, American Association for the Study of Liver Diseases

HONORS

- 2008 **Presidential Award**, Yokohama City University
- 2009 **Students of the year in Japan**, Japan Student Services Organization
- 2010 Chief delegate, Yokohama City University, Japan
- 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
- 2012 **Young Investigator Award**, Japanese Society for Regenerative Medicine
- 2013 **Travel Award**, International Society for Stem Cell Research 11th annual meeting. Boston, MA
- 2014 Elected to **Science** AAAS, 10 breakthrough of the year, 2013 (See, **Nature**, 2011)
- 2014 Elected to **Discover magazine**, Top 5 science stories of 2013 (See, **Nature**, 2011)
- 2014 **Research innovation award**, The Japan Society of Organ Preservation and Medical Biology
- 2014 **YOKOHAMA IGAKUKAI AWARD**, YOKOHAMA IGAKUKAI
- 2014 **Research award**, Kanae Foundation for the Promotion of Medical Science, Tokyo
- 2014 **The Baelz Prize**, Boehringer Ingelheim, Tokyo
- 2014 **BD Stem Cell Grant**, BD, US
- 2015 **The Umehara Prize**, Yokohama Medical Research Promotion Foundation, Yokohama
- 2016 **The Young Scientists' Prize**, Minister of Education, Culture, Sports, Science and Technology of Japan, Tokyo
- 2016 **Best of Cell Stem Cell, 2015**. (See, Cell Stem Cell, 2015)

PUBLICATIONS (past five years)

ORIGINAL ARTICLES

2016

1. Camp G, Sekine K, Gerber T, Löffler-Wirth H, Binder H, Kanton S, Kimura M, Ayabe H, Taniguchi H, **Takebe T***, Treutlein B*: Multilineage communication regulates human liver bud self-organization from pluripotency. in revision. (*Corresponding authors)
2. Takahashi Y, **Takebe T***, Enomura M, Sekine K, Kin T, Taniguchi H: Adaptation of the Self-Condensation Principle to Tissue Fragments Enables Efficient Therapeutic Transplantation. in review. (*Corresponding author)
3. Zhang R-R, **Takebe T***, Koido M, Tadokoro T, Ueno Y, Sekine K, Taniguchi H: Multiple Endodermal Organoid Generation from Robustly Amplified Human Posterior Gut Progenitors. in review. (*Corresponding author)
4. **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: Clinical

Scale Human Organ Bud Production Entirely From iPSC-Derived Multi-Lineage Progenitors. in review.
(*Corresponding author)

5. Kagimoto S, **Takebe T***, Kobayashi S, Yabuki Y, Hori A, Hiroto K, Mikami T, Uemura T, Maegawa J, Taniguchi H: Auto-transplantation of monkey ear perichondrium-derived progenitor cells for cartilage reconstruction. *Cell transplantation*. (*Corresponding author), in press.

2015

6. 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
7. 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
8. **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, Selected as **Cover Work**),16(5): 556-565, Apr 15, 2015
9. 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

10. **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)
11. 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: 10.1007/978-1-4939-1435-7_10.
12. **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)
13. 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
14. 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

15. Kim BY, Nam BM, Lee KM, Jo YH, Nemeno 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
16. Jo YH, Jang IJ, Nemeno 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
17. Yang W, Lee S, Jo YH, Lee KM, Nemeno 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
18. 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
19. 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
20. 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.
21. 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
22. 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.
23. 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.
24. 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.
25. 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)
26. 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)
27. **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)
28. Takahashi Y, **Takebe T***, Enomura M, Koike N, Lee S, Nemeno 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)
29. 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

30. **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)
31. 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)
32. Mizuno M, Kobayashi S, **Takebe T**, Kan H, Yabuki Y, Matsuzaki T, Yoshikawa HY, Nakabayashi S, Jeonglk 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

33. Tanaka H*, Tanaka S*, Sekine K*, Kita S, Okamura A, **Takebe T**, Zheng YW, UenoY, Tanaka J, Taniguchi H (*; Equal contribution): Efficient generation of pancreatic β -cell spheroids in a simulated microgravity culture system. *Biomaterials*, 2013, S0142-9612.
34. **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.
35. **Takebe T**, Sekine K, Suzuki Y, Enomura M, Tanaka S, Ueno Y, ZhengYW, Taniguchi H: Self-organization of human hepatic organoid by recapitulating organogenesis in vitro. *Transplant Proc*, 44 (4), 1018-1020, 2012.
36. **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 .
37. 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 .
38. 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.
39. 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

40. **Takebe T***, Kobayashi S*, Inui M, Iwai S, Kan H, Zheng YW, Maegawa J, Taniguchi H. (*; Equal contribution): Reconstrction 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.
41. **Takebe T***, Kobayashi S*, 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. 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
2. 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.
3. 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
4. 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*
5. Taniguchi H, **Takebe T** “Organ primordia transplants”, Vol.30 No.5, 444-448, 2015, *BIO Clinica*
6. 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*
7. Taniguchi H, **Takebe T** “Creation of a functional human liver using iPS cells”, Vol.70 No.3, 353-360, 2015, *KANTANSUI*
8. Taniguchi H, **Takebe T** “The creation of human organs by utilizing iPS cells”, Vol.7 No.3, 36-41, 2015, *GEKKAN TONYOBYO DIABETES*
9. 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 -
10. **Takebe T**, Taniguchi H “Creation of functional human organ using iPS cells”, 25-31, 2015, Annual Review 2015, *Diabetes, Metabolism, and Endocrine*
11. **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*
12. 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*
13. 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*
14. **Takebe T**, Taniguchi H: Human iPSC-derived miniature organs: a tool for drug studies. *Clinical Pharmacology Therapeutics*. 96(3): 310-3
15. Taniguchi H, **Takebe T**: “Realization of human iPSC-organ bud transplantation therapy”, Vol.37 No.8, 2014, *Gastroenterological Surgery*
16. **Takebe T**, Taniguchi H: “Methods for generating vascularized and functional organ from pluripotent stem cells”, Vol.32 No.1, 2014, *JIKKEN IGAKU*
17. **Takebe T**, Taniguchi H: “Vascularized and functional liver from human iPS cells by recapitulating organogenesis”, Vol.32 No.1, 2014, *JIKKEN IGAKU*

18. **Takebe T**, Taniguchi H: "Creation of vascularized and functional organ from human iPS cell", Vol.20 No.2, 2013, **Organ Biology**
19. 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.
20. **Takebe T**, Taniguchi H: "A challenge towards organ generation", Vol.51 No.11, 2013, **KAGAKU TO SEIBUTSU**
21. **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 TALKS

1. **Takebe T** : Generating diverse organ buds towards therapy. **CiRA / ISSCR 2016 International Symposia | Kyoto** 2016 22-24 Mar 2016, Japan.
2. **Takebe T** : Generation of Diverse Organ Buds from Human iPSCs. **French Society for Cell and Gene Therapy**, 14 March 2016, Marseille, France.
3. **Takebe T** : iPSC-derived organ bud based approach toward therapy. **Guest Seminar DR Inserm, Hôpital Paul Brousse**, 8 March 2016, Paris, France.
4. **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.
5. **Takebe T** : In vitro reconstructions and controls of multicellular structures. **The 26th CDB Meeting Mechanistic Perspectives of Multicellular Organization**, 8, Sep, 2015, Kobe, Japan.
6. **Takebe T** : Prospects for medical applications using the organ primordia creation technology. **Kyowa Hakko Kirin**, 25, Aug, 2015, Tokyo, Japan.
7. **Takebe T** : De novo generation of liver buds from stem cells. **International Conference of Future Hepatology at Kaohsiung**, 25 Jul 2015, Kaohsiung Taiwan.
8. **Takebe T** : Prospects for organ creation - Towards the next generation of medical transplantation realization-. **Asahikawa Medical College forum**, 18, Jul, 2015, Hokkaido, Japan.

9. **Takebe T** : Prospects for organ creation. Tohoku University Research Circle (ARTs) , 17, Jul, 2015, Sendai, Miyagi, Japan.
10. **Takebe T** : De novo generation of diverse organ buds from iPSCs towards therapy. **ISSCR 2015 ANNUAL MEETING**, 26 Jun 2015, Stockholm Sweden.
11. **Takebe T** : Prospects for organ creation. Human metabolome biology's, 19, Jun, 2015, Tokyo, Japan.
12. **Takebe T** : Prospects for medical applications using the organ primordia creation technology. Takeda Pharmaceutical Co.,Ltd., Shonan Institute, 12, Jun, 2015, Kanagawa, Japan.
13. **Takebe T** : Realization of human iPSC-derived liver bud transplantation therapy. **the Young Investigators' Stem Cell Symposium 2015**, 8 Jun, 2015, Singapore.
14. **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.
15. **Takebe T** : Prospects for organ regeneration. Ltd. Dojinkai Institute, 20 May, 2015, Kumamoto, Japan.
16. **Takebe T** : Human iPSC-derived organ bud based approaches. **The 9th Aso International Meeting**, Apr, 2015, Kumamoto, Japan.
17. **Takebe T** : De Novo Generation of Human Organ Bud from iPSC. **Digestive Diseases Research Seminar Series**, 12 May 2015, Yale University, Connecticut, USA.
18. **Takebe T** : Realization of iPSC-organ bud transplantation therapy. **Wellcome Trust-Medical Research Council**, Apr 2015, Cambridge Stem Cell Institute, UK.
19. **Takebe T** : Regenerative approaches through developmental biology. **EASL, 50th the International Liver Congress**, 22-26, Apr, 2015, Vienna Austria.
20. **Takebe T** : Human iPSC-derived organ bud based approaches. **112th ITC(INTERNATIONAL TITISEE CONFERENCE)**, 22 Oct 2015, Mainz Germany.
21. **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.
22. **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.
23. **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.
24. **Takebe T** : Liver organogenesis. **ASTELLAS FRANCE Annual Meeting of Transplantation Club**, 6, Feb, 2015, France.
25. **Takebe T** : Prospects for organ regeneration. IKEDA SCIENTIFIC Co., Ltd., 31, Jan, 2015, Japan.
26. **Takebe T** : Realization of iPSC-organ bud transplantation therapy. **The 18th Takeda Science Foundation Symposium**, 16, Jan, 2015, Kyoto, Japan.
27. **Takebe T** : Transient vascularization of transplanted human adult-derived progenitors promotes self-organizing cartilage. **Asian Cartilage Repair Society 2nd Annual Congress**, 27, Dec, 2015, Seoul, Korea.

28. **Takebe T** : Development of iPS cells derived from human organ primordia operation technology for clinical application. **41st Japan organ preservation biomedical Association Scientific Sessions**, 28, Nov, 2014, Osaka, Japan.
29. **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.
30. **Takebe T**: Realization of iPSC-Organ Bud Transplantation Therapy. **World Alliance forum**, 6-7 Nov, 2014, San Francisco, CA, USA.
31. **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.
32. **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.
33. **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.
34. **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.
35. **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.
36. **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.
37. **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).
38. **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.
39. **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.
40. **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.
41. **Takebe T** : Attempts to disease treatment based on the artificial structure of human iPS cell-derived organ. **Merck Millipore BioScience Forum 2014**, 1, Aug, 2014, Japan.
42. **Takebe T** : Create human organs from iPS cells!. **6th Gunma University kidney seminar for young doctors**, 16, Jul, 2014, Japan.
43. **Takebe T** : 10 years from this organ regenerative medicine. **1st fiscal 2014 Bio Venture Alliance (BVA) Seminar**, 30, Jun, 2014, Japan.

44. **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.
45. **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.
46. **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.
47. **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.
48. **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.
49. **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.
50. **Takebe T**: Creating a Human organs from iPS cells. Yokohama City University cell signaling Study Group, 6, Jan, 2014, Yokohama, Japan.
51. **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.
52. **Takebe T**: Creating a Human organs from iPS cells. **Institute of Medical Science, University of Tokyo young Symposium**, 28, Nov, 2013, Tokyo, Japan.
53. **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.
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2013

3. **2nd Regenerative Medicine Seminar sponsored by JSPS and NRF**, Mar 27, Seoul, Korea, 2013
4. **1st Regenerative Medicine Seminar sponsored by JSPS and NRF**, Feb 28, Yokohama, Japan, 2013

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1. **coFFee doctors** 'Given the research expenses in challenging research!' 2.3.2016
2. **Nature**, Cassandra Willyard 'RISE OF THE ORGANIDS' 30.7.2015
3. **Nature Methods**, Nicole Rusk 'Cell biology: Reproducibly generating organ buds in vitro' 30.6.2015
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