Sei Higuchi, Ph.D

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**Education**

2008- 2011 Ph.D., Pharmacology, Fukuoka University, Fukuoka, Japan

Research subject; Pharmacology and behavior on food intake and central nervous disease

2006- 2008 M.S., Pharmaceutical Sciences, Josai University, Saitama, Japan

Research subject; Pharmacokinetics and drug delivery

2002- 2006 B.S., Pharmaceutical Sciences, Josai University, Saitama, Japan

Research subject; Pharmacokinetics and drug delivery

**Academic Appointments**

2022-present Assistant Professor, Pharmaceutical Sciences, St.John’s University

2019- 2022 Associate Research Scientist, Pathology and Cell Biology, Columbia Universi

2015- 2019 Postdoctoral Research Scientist, Pathology and Cell Biology, Columbia University

Principal Investigator: Rebecca A. Haeusler

Research interest; lipid metabolism on diabetes and obesity

2011- 2015 Postdoctoral Research Scientist, Graduate School of Medicine, Kyoto University, Japan Principal Investigator: Masayuki Yokode

Research interest; Inflammatory responses in macrophages

**Licensure**

Japanese pharmacist's license

**Fellowship and Grant Support**

2020 The New York Hideyo Noguchi Memorial Scholarship

2020 Nippon Life Benefits - Japanese Medical Society of America Scholarship

2018 Raymond Sekiguchi MD- Japanese Medical Society of America Scholarship

2016 The 45th KANAE Grants in 2016, KANAE Foundation for the Promotion of Medical Science

2015 Yoshida Science and Technology Foundation Fellowship for research abroad

2011 Japan Student Services Organization (Repayment Exemption for Students with Excellent Grades, Japan Student Services Organization (JASSO) Type I (interest-free) scholarship (Exemption of all of loan; about top 10% from all student))

**Honors and Awards**

2020 Selected talk, Keystone symposia–A Gut-Systemic Perspective for Metabolic Disease

2019 Best Poster Award, New York Regional Obesity Forum

2018 Best Poster Award, The Institute of Human Nutrition Retreat at Columbia University

2018 Selected talk, Mid-Atlantic Diabetes and Obesity Research Symposium

2018 Top 16 Poster, New York Regional Obesity Forum

2018 Invited talk, 7th Annual New York City Regional Diabetes Meeting

2017 Top 15 poster, New York Regional Obesity Forum

2017 Selected talk, FASEB conference on Glucose Transport (Snowmass, CO)

2016 Top 15 poster, New York Regional Obesity Forum

2014 Young Investigator Award, The 87th Annual Meeting of the Japanese Pharmacological Society

**Publications** (Total citation; 662, h-index; 13)

1. Emiliano AB, Lopatinsky NR, Kraljević M, **Higuchi S**, He Y, Haeusler RA, Schwartz GJ. Sex-specific differences in metabolic outcomes after sleeve gastrectomy and intermittent fasting in obese middle-aged mice. ***Am J Physiol Endocrinol Metab.*** 2022 Jul 1;323(1):E107-E121.
2. Oteng AB, **Higuchi S**, Banks AS, Haeusler RA. Cyp2c-deficiency depletes muricholic acids and protects against high fat diet-induced obesity in male mice but promotes liver damage. ***Mol Metab.*** 2021 Nov;53:101326
3. **● Higuchi S**, Ahmad TR, Argueta DA,Perez PA, Zhao C,Schwartz GJ,DiPatrizio NV, HaeuslerRA. [Bile acid](https://www.ncbi.nlm.nih.gov/pubmed/32111630)

[composition regulates GPR119-dependent intestinal lipid sensing and food intake regulation in mice.](https://www.ncbi.nlm.nih.gov/pubmed/32111630) ***Gut.*** 2020

Feb 28. gutjnl-2019-319693.

I showed that bile acids are the regulator of intestinal lipid metabolism for satiety and satiation.

*“****Gut****”* is a leading international journal in gastroenterology and hepatology (Impact Factor=19.8; #3 in Gastroenterology & Hepatology, Scopus CiteScore=32.2; #1 in Gastroenterology Category).

1. **Higuchi S**\*. The Physiological Importance of Bile Acid Structure and Composition on Glucose Homeostasis. ***Curr Diab. Rep***. 2020 Jul 28;20(9):42.

\*Corresponding author. In this review, I characterize the effects of BA structure and composition on diabetes.

1. Ahmad TR, **Higuchi S**, Bertaggia E, Hung A, Shanmugarajah N, Guilz NC, Gamarra JR, Haeusler RA. Bile acid composition regulates the manganese transporter Slc30a10 in intestine. ***J Biol Chem***. 2020 Jul 20;jbc.RA120.012792
2. Honjo M, Yasuhide O, Yamada M, **Higuchi S**, Mishima K, Tanjina S, Aida TM, Kato T, Misumi M, Suetsugu T, Orii H, Irie K, Sano K, Mishima K, Satho T, Harada T. [Characterization and pharmacokinetic evaluation of microcomposite particles of alpha lipoic acid/hydrogenated colza oil obtained in supercritical carbon dioxide.](https://www.ncbi.nlm.nih.gov/pubmed/30632427) ***Pharm Dev Technol***. 2020 Mar;25(3):359-365.
3. **Higuchi S**, Fujikawa R, Nakatsuji M, Yasui M, Ikedo T, Nagata M, Mishima K, Irie K, Matsumoto M, Yokode M, Minami M. [EP4 receptor-associated protein (EPRAP) regulates gluconeogenesis in the liver and is associated with hyperglycemia in diabetic mice.](https://www.ncbi.nlm.nih.gov/pubmed/30562059) ***Am J Physiol Endocrinol Metab****.* 2019 Mar 1;316(3):E410-E417.
4. **Higuchi S**, Izquierdo MC, Haeusler RA. [Unexpected reciprocal regulation of diabetes and lipoproteins.](https://www.ncbi.nlm.nih.gov/pubmed/29708925) ***Curr Opin Lipidol****.* 2018 Jun;29(3):186-193.
5. Ikedo T, Minami M, Kataoka H, Hayashi K, Nagata M, Fujikawa R, **Higuchi S**, Yasui M, Aoki T, Fukuda M, Yokode M, Miyamoto S[. Dipeptidyl Peptidase-4 Inhibitor Anagliptin Prevents Intracranial Aneurysm Growth by Suppressing Macrophage Infiltration and Activation.](https://pubmed.ncbi.nlm.nih.gov/28630262/) ***J Am Heart Assoc.*** 2017 Jun 19;6(6)
6. Fujikawa R, **Higuchi S**, Nakatsuji M, Yasui M, Ikedo T, Nagata M, Hayashi K, Yokode M, Minami M. [Deficiency in EP4 Receptor-Associated Protein Ameliorates Abnormal Anxiety-Like Behavior and Brain Inflammation in a Mouse Model of Alzheimer Disease.](https://pubmed.ncbi.nlm.nih.gov/28624505/) ***Am J Pathol.*** 2017 Aug;187(8):1848-1854.
7. Fujikawa R, **Higuchi S**, Ikedo T, Nagata M, Hayashi K, Yang T, Miyata T, Yokode M, Minami M. [Behavioral abnormalities and reduced norepinephrine in EP4 receptor-associated protein (EPRAP)-deficient mice.](https://pubmed.ncbi.nlm.nih.gov/28336432/?from_term=SEI+HIGUCHI&from_pos=5) ***Biochem Biophys Res Commun***. 2017 Apr 29;486(2):584-588.
8. **Higuchi S**, Fujikawa R, Ikedo T, Hayashi K, Yasui M, Nagata M, Nakatsuji M, Yokode M, Minami M. [EP4 receptor–associated protein (EPRAP) in macrophages protects against bleomycin-induced pulmonary inflammation in mice.](https://pubmed.ncbi.nlm.nih.gov/27799315/) ***J Immunol.*** 2016 Dec 1;197(11):4436-4443.
9. Fujikawa R, **Higuchi S**, Nakatsuji M, Yasui M, Ikedo T, Nagata M, Yokode M, Minami M. [EP4 Receptor-Associated Protein in Microglia Promotes Inflammation in the Brain.](https://pubmed.ncbi.nlm.nih.gov/27315781/?from_term=SEI+HIGUCHI&from_pos=6) ***Am J Pathol.*** 2016 Aug;186(8):1982-8.
10. Nakatsuji M, Minami M, Seno H, **Higuchi S**, Yasui M, Fujikawa R, Kita T, Libby P, Yokode M, Chiba T. [EP4 receptor-associated protein in macrophages ameliorates colitis and colitis-associated tumorigenesis.](https://pubmed.ncbi.nlm.nih.gov/26439841/?from_term=SEI+HIGUCHI&from_pos=10) ***PLoS Genet.*** 2015 Oct 6;11(10).
11. Yasui M, Tamura Y, Minami M, **Higuchi S**, Fujikawa R, Ikedo T, Nagata M, Arai H, Murayama T, Yokode M. [The Prostaglandin E2 Receptor EP4 Regulates Obesity-Related Inflammation and Insulin Sensitivity.](https://pubmed.ncbi.nlm.nih.gov/25843115/?from_term=SEI+HIGUCHI&from_pos=7) ***PLoS ONE*.** 2015 Aug 26;10(8):e0136304.
12. Fukumitsu R, Minami M, Yoshida K, Nagata M, Yasui M, **Higuchi S**, Fujikawa R, Ikedo T, Yamagata S, Sato Y, Arai H, Yokode M, Miyamoto S. [Expression of Vasohibin-1 in Human Carotid Atherosclerotic Plaque.](https://pubmed.ncbi.nlm.nih.gov/25843115/?from_term=SEI+HIGUCHI&from_pos=7) ***J Atheroscler Thromb***. 2015;22(9):942-8.
13. **Higuchi S**, Irie K,, Yamaguchi R, Katsuki M, Araki M, Ohji M, Hayakawa K, Mishima S, Akitake Y, Matsuyama K, Mishima K, Mishima K, Iwasaki K, Fujiwara M. [Hypothalamic 2-arachidonoylglycerol regulates multistage process of high-fat diet preferences.](https://pubmed.ncbi.nlm.nih.gov/22737214/?from_term=SEI+HIGUCHI&from_page=2&from_pos=4) ***PLoS ONE*.** 2012;7(6):e38609.
14. **Higuchi S**, Irie K, Nakano T, Sakamoto Y, Akitake Y, Araki M, Ohji M, Furuta R, Katsuki M, Yamaguchi R, Matsuyama K, Mishima K, Mishima K, Iwasaki K, Fujiwara M. [Reducing acyl migration during purification of 2-arachidonoylglycerol from biological samples before gas chromatography mass spectrometry analysis.](https://pubmed.ncbi.nlm.nih.gov/21079352/?from_term=SEI+HIGUCHI&from_page=2&from_pos=6) ***Anal Sci.*** 2010;26(11):1199-202.
15. **Higuchi S**, Ohji M, Araki M, Furuta R, Katsuki M, Yamaguchi R, Akitake Y, Matsuyama K, Irie K, Mishima K, Mishima K, Iwasaki K, Fujiwara M. [Increment of hypothalamic 2-arachidonoylglycerol induces the preference for a high-fat diet via activation of cannabinoid 1 receptors.](https://pubmed.ncbi.nlm.nih.gov/20817042/?from_term=SEI+HIGUCHI&from_page=2&from_pos=5) ***Behav Brain Res.*** Behav Brain Res. 2011 Jan 1;216(1):477-80.
16. **Higuchi S**, Irie K, Mishima S, Araki M, Ohji M, Shirakawa A, Akitake Y, Matsuyama K, Mishima K, Mishima K, Iwasaki K, Fujiwara M. [The cannabinoid 1-receptor silent antagonist O-2050 attenuates preference for high-fat diet and activated astrocytes in mice.](https://pubmed.ncbi.nlm.nih.gov/20168044/?from_term=SEI+HIGUCHI&from_page=2&from_pos=7) ***J Pharmacol Sci.*** 2010;112(3):369-72.
17. Hayakawa K, Nakano T, Irie K, **Higuchi S**, Fujioka M, Orito K, Iwasaki K, Jin G, Lo EH, Mishima K, Fujiwara M. [Inhibition of reactive astrocytes with fluorocitrate retards neurovascular remodeling and recovery after focal cerebral ischemia in mice.](https://pubmed.ncbi.nlm.nih.gov/19997116/?from_term=SEI+HIGUCHI&from_page=2&from_pos=9) ***J Cereb Blood Flow Metab*.** 2010 Apr;30(4):871-82.
18. Fujioka M, Hayakawa K, Mishima K, Kunizawa A, Irie K, **Higuchi S**, Nakano T, Muroi C, Fukushima H, Sugimoto M, Banno F, Kokame K, Miyata T, Fujiwara M, Okuchi K, Nishio K. [ADAMTS13 gene deletion aggravates ischemic brain damage: a possible neuroprotective role of ADAMTS13 by ameliorating postischemic hypoperfusion.](https://pubmed.ncbi.nlm.nih.gov/19965676/?from_term=SEI+HIGUCHI&from_page=2&from_pos=8) ***Blood.*** 2010 Feb 25;115(8):1650-3.
19. Sano K, Koushi E, Irie K, **Higuchi S**, Tsuchihashi R, Kinjo J, Egashira N, Oishi R, Uchida N, Nagai H, Nishimura R, Tanaka H, Morimoto S, Mishima K, Iwasaki K, Fujiwara M. [Delta(9)-tetrahydrocannabinol enhances an increase of plasma corticosterone levels induced by forced swim-stress.](https://pubmed.ncbi.nlm.nih.gov/19952430/?from_term=SEI+HIGUCHI&from_page=2&from_pos=10) ***Biol Pharm Bull.*** 2009 Dec;32(12):2065-7.
20. Hayakawa K, Irie K, Sano K, Watanabe T, **Higuchi S**, Enoki M, Nakano T, Harada K, Ishikane S, Ikeda T, Fujioka M, Orito K, Iwasaki K, Mishima K, Fujiwara M. [Therapeutic time window of cannabidiol treatment on delayed ischemic damage via high-mobility group box1-inhibiting mechanism.](https://pubmed.ncbi.nlm.nih.gov/19721229/?from_term=SEI+HIGUCHI&from_page=3&from_pos=1)***Biol Pharm Bull****.* 2009 Sep;32(9):1538-44.

**Administrative Leadership and Academic Service**

2022 **Co-Chair**, New York Hideyo Noguchi Memorial Scholarship

2022 *BMC Gastroenterology* **Reviewer**

2021 **Organizer,** Career development seminar of the Japanese Medical Society of America (JMSA). We invited Dr. Shinya Yamanaka, the director of the Center for iPS Cell Research at Kyoto University and winner of the Nobel Prize for this seminar. This seminar aims to discuss the future of academia and the career path for a young scientist.

2021 *Liver International* **Reviewer**

2020 *Prostaglandins, Leukotrienes and Essential Fatty Acids* **Reviewer**

2020 **Organizer**, Career development boot camp of the Japanese Medical Society of America (JMSA).

I will organize a career development seminar to successfully obtain academic positions for Japanese scientists. This seminar will have three sessions (i) career development, (ii) grant application and (iii) intellectual property.

2019 **Organizing member**, JMSA New York Life Science Forum※ (Over 200 persons attended)

2019 **Organizing member**, JMSA New York Kids Life Science Forum Kids ※※ (~60 kids, ages 5-12).

2018 **Organizer** (**President)**, JMSA New York Kids Life Science Forum Kids※※ (~60 kids, ages 5-12).

2018 **Organizer** (**Vice President)**, JMSA New York Life Science Forum※ (Over 300 persons attended)

2017 **Organizing member**, JMSA New York Life Science Forum※ (Over 300 persons attended)

2017 **Organizing member**, JMSA New York Kids Life Science Forum Kids※※ (~60 kids, ages 5-12).

2015 *PLoS One* **Reviewer**

※,※※ About *JMSA New York Life Science Forum* and *JMSA New York Kids Life Science Forum Kids*,

JMSA New York Life Science Forum and JMSA New York Kids Life Science Forum Kids are 1-day symposium in NY. I have served as an organizer for this science forum from 2017. For the JMSA New York Life Science Forum, we invited experts from several scientific filed such as immunology, transplant medicine, regenerative medicine, and chemical engineering. This forum aim to share scientific knowledge and make a solidified network for Japanese scientist and citizen. This was supported by the JMSA and Japan Society for the Promotion of Science (JSPS).

For the JMSA New York Kids Life Science Forum, I designed this event for the kids (~60 kids, ages 5-12) to touch medical instruments and laboratory instruments for their motivation and interest in science and to develop logical thinking for learning the principle of science via experimental demonstration by medical doctors and professional scientists. Also, this forum was supported by JMSA. I was awarded by JMSA for leadership to organize these forums in 2018 and 2020 (Raymond Sekiguchi MD - JMSA Scholarship and Nippon Life Benefits - JMSA Scholarship).

**Professional Organizations and Societies**

2020- Member, American Heart Association (AHA)

2020- Member, The American Society for Biochemistry and Molecular Biology (ASBMB)

2018- Member, Japanese Medical Society of America (JMSA)

2015- Member, The Japanese Biochemical Society

2008 - 2015 Member, Society for Neuroscience

2008 - 2015 Member, The Japanese Pharmacological Society

2006 - 2015 Member, The Pharmaceutical Society of Japan

**Teaching Experience**

**Lectures**

2019 Instructor, Introduction to science, Japanese Medical Society of America (JMSA) Kids Life Science Forum, 60 kindergarten and elementary school students (5-12 years old), One-day lecture (2h x2 class)

2018 Instructor, Introduction to science, Japanese Medical Society of America (JMSA) Kids Life Science Forum, 60 kindergarten and elementary school students (5-12 years old), One-day lecture (2h x2 class)

2018 Guest Lecturer, Nippon Club, Science and Biology, “Obesity and appetite”, New York, NY, 40 ordinary people, One-day lecture (120-minute).

2017 Instructor, Introduction to science, Japanese Medical Society of America (JMSA) Kids Life Science Forum, 60 kindergarten and elementary school students (5-12 years old), One-day lecture (2h x2 class)

2017 Guest Lecturer, Japanese American Social Service, Science and Biology, “Bodyweight control and obesity”, New York, NY, 35 ordinary people, One-day lecture (120-minute).

2011 Instructor (Lecture) Anatomy and biology, Fukuoka Belle Epoque (Professional school teacher), 12x90-minute lectures/week, 120 students, March. This is an intensive class for the national professional license exam.

2010-2011 Instructor (Lecture) Anatomy, Fukuoka Belle Epoque (Professional school teacher), 4x90-minute lectures/week, 120 students, September (2010)-February (2011).

2010 Instructor (Lecture) Anatomy and biology, Fukuoka Belle Epoque (Professional school teacher), 30 students, 10-12 x 90-minute lectures/week, August. This is a class for students who need to take the national professional license exam.

2010 Instructor (Lecture) Biology, Fukuoka Belle Epoque (Professional school teacher), 4x90-minute lectures/week, 120 students, April-June,

2010 Instructor (Lecture) Anatomy and biology, Fukuoka Belle Epoque (Professional school teacher), 12x90-minute lectures/week, 120 students, March. This is an intensive class for the national professional license exam.

2009-2010 Instructor (Lecture) Anatomy, Fukuoka Belle Epoque (Professional school teacher), 4x90-minute lectures/week, 120 students, September (2009)-February (2010).

2009 Instructor (Lecture) Anatomy and biology, Fukuoka Belle Epoque (Professional school teacher), 30 students, 10-12 x 90-minute lectures/week, August. This is a class for students who need to take the national professional license exam.

2009 Instructor (Lecture) Biology, Fukuoka Belle Epoque (Professional school teacher), 4x90-minute lectures/week, 120 students, April-June,

2009 Instructor (Lecture) Anatomy and biology, Fukuoka Belle Epoque (Professional school teacher), 12x90-minute lectures/week, 120 students, March. This is an intensive class for the national professional license exam.

2008-2009 Instructor (Lecture) Anatomy, Fukuoka Belle Epoque (Professional school teacher), 4x90-minute lectures/week, 120 students, September (2008)-February (2009).

2008 Instructor (Lecture) Anatomy and biology, Fukuoka Belle Epoque (Professional school teacher), 30 students, 10-12 x 90-minute lectures/week, August. This is a class for students who need to take the national professional license exam.

2008 Instructor (Lecture) Biology, Fukuoka Belle Epoque (Professional school teacher), 4x90-minute lectures/week, 120 students, April-June,

**Teaching Assistant**

2008-2011 Teaching assistant (Pharmacology and chemistry), Fukuoka University, 30-40 undergraduate students, 90-minute per month.

**Home Tutor**

2002-2008 Home tutor (Mathematics, Science and Biology), Kateikyoshi -Try (Japanese home tutoring company). I had over 10 high school students for 6 years.

**Mentoring Experience**

2022 Mentored Brea Tinsley (Ph.D. rotation student, Columbia University)

2021 Mentored William Yakah (Ph.D. rotation student, Columbia University)

2021 Mentored Alan M. Roman Feliciano (Undergraduate student, Columbia University)

2020- Mentored Hannah Staab (Ph.D. rotation student, Columbia University)

2020- Mentored Khushbu Kabra (Ph.D. rotation student, Columbia University)

2019-2020 Mentored Felicia Giunta (NYC high school teacher), via the Columbia Summer Research Program for NYC Public Secondary School Teachers

2017-2018 Mentored Chen Zhao (Master student, Columbia University)

2010-2011 Mentored Mai Katsuki and Ryuji Yamaguchi (Undergraduate student, Fukuoka University)

2009-2010 Mentored Maiko Araki, Makiko Ohji and Riyo Furuta (Undergraduate student, Fukuoka University)

2007-2008 Mentored Kurumi Kuwahara (Master student, Josai University)

**Mentoring Philosophy**

As an aspiring principal investigator, a significant part of my work will be to mentor trainees in my lab. My mentoring philosophy will revolve around 2 aims: 1) foster the trainee’s progress in science and 2) support the future career of trainees. My mentoring philosophy has been shaped by my experiences with my former mentors and students. So far, I have been mentored by 4 well-established principal investigators, and I have the experience of mentoring 10 students, including master and Ph.D. students.

To encourage the scientific progression of trainees, I will conduct a weekly one to one research meeting with trainees. Such meetings will discuss progress, successes, bottlenecks, and new ideas of the project. The goal will be to collaborate to design research projects that suit trainee’s interest and expertise, whilst allowing room for new challenges and growth. Through my experience, I have come to believe that motivation and interest in science are two very important elements for productivity and successful traineeship. In our field of work, meaningful impacts such as uncovering unknown mechanisms come with a series of challenges that demand time and patience. Fundamental to my mentoring philosophy will be to foster the systematic progress and success of trainees to the highest possible level. Success in science is subjective, therefore part of the discussion with each trainee will define success, so that such milestones which could include publications, receiving grants, attending conferences, are properly highlighted and well celebrated to generate encouragement and enthusiasm.

The second major mission as a mentor is to make trainees’ chosen future careers the fulcrum around which their training and development hinges. To achieve this, I will conduct an annual “Individual career planning meeting” with my trainees. This meeting between mentor and trainee will discuss how training is shaping them for a future career. I had this meeting with my mentor at Columbia University, and this was helpful in clarifying my future and suggesting improvements for my career path. This meeting will consist of three essential elements (i) listing of accomplishments, (ii) providing bi-directional feedback and (iii) articulating and discussing trainee’s future career goals. Accomplishments could include research progress, newly acquired skills, conference talks, and publications. For providing bi-directional feedback, trainees will receive feedback on their progress, and they will be encouraged to provide me with feedback on my mentoring style, and any points that can be improved and/or changed. The biggest focus will be on point three, about trainee’s career plans. Here, I will provide support for opportunities such as teaching experience, networking within and outside academia, eligible grant opportunities and learning professional skills (communication, presentation, and writing skills).

Overall, I believe that mentoring is a “pay it forward” to the next generation. Just as my past mentors supported my progression, I will bring up trainees to be the next generation leaders for science and discoveries on human health.

**Invited and Peer-Selected presentations**

**Invited talks**

2022 Symposiast, Young Researcher's Society of Neurobehavioral Pharmacology.

2021 Saint Louis University, Department of Medicine, pharmacology and physiology. “Bile acids regulate intestinal lipid sensing and food intake”

2021 NIH/NIDKK, “Bile acids regulate intestinal lipid sensing and food intake”

2021 St.John’s University, Department of Pharmaceutical. “Bile acids regulate intestinal lipid sensing and food intake”

2019 Japanese Association of Scholars in Science. “Intestinal lipid sensing and food intake regulation”, New York, NY

2018 7th Annual New York City Regional Diabetes Meeting. “Intestinal fat sensing-What’s on the outside matters more than what’s on the inside”, New York, NY

2017 Japanese American Social Service. “Body weight control and obesity”, New York, NY

2016 Japanese Association of Scholars in Science. “Bile Acid and food intake regulation”, New York, NY

2014 Atherosclerosis & Cardiovascular Research Conference. “The role of EP4 receptor-associated protein in metabolism”, Tokyo, Japan

2012 Atherosclerosis & Cardiovascular Research Conference. “Function of Fem1a on inflammatory response”, Tokyo, Japan

**Selected talks**

2020 Selected talk, Keystone symposia–A Gut-Systemic Perspective for Metabolic Disease. “Bile acid composition regulates GPR119-dependent intestinal lipid sensing and food intake regulation in mice”, Santa Fe, NM

2018 Mid-Atlantic Diabetes and Obesity Research Symposium in NIH. “Bile acids regulate GPR119-dependent intestinal lipid sensing”, Bethesda, MD

2018 The Institute of Human Nutrition Retreat at Columbia University. “Bile acids regulate GPR119-dependent intestinal lipid sensing”, New York, NY

2017 FASEB meeting Glucose transporter. “Effects of 12-hydroxylated bile acids on food intake”, Snowmass, CO

**Selected Professional Presentations**

**Poster presentation**

2019 **Poster award**, **S. Higuchi** et al and R.A. Haeusler.Bile acid composition regulates GPR119-dependent intestinal lipid sensing and food intake regulation in mice.The New York City Regional Obesity Forum, New York, NY.

2019 **S. Higuchi** et al and R.A. Haeusler.Bile acid composition regulates GPR119-dependent intestinal lipid sensing and food intake regulation in mice.4th World Congress on Interventional Therapies for Type 2 Diabetes, New York, NY

2019 **S. Higuchi** et al and R.A. Haeusler.Bile acid composition regulates GPR119-dependent intestinal lipid sensing and food intake regulation in mice.Keystone Symposia-Obesity and Adipose Tissue Biology, Banff, Alberta, Canada

2018 **Higuchi** et al and R.A. Haeusler. Bile acids regulate GPR119-dependent intestinal lipid sensing. Columbia University Postdoctoral Research Symposium, New York, NY

2018 **Poster award**, **S. Higuchi** et al and R.A. Haeusler. Bile acids regulate GPR119-dependent intestinal lipid sensing. The Institute of Human Nutrition Retreat at Columbia University, New York, NY

2018 **S. Higuchi** et al and R.A. Haeusler.Bile acids regulate GPR119-dependent intestinal lipid sensing. Mid-Atlantic Diabetes and Obesity Research Symposium in NIH, Bethesda, MD

2018 **Selected top 16 poster**, **S. Higuchi** et al and R.A. Haeusler. Bile acid regulate GPR119-dependent intestinal lipid sensing. The New York City Regional Obesity Forum, New York, NY

2018 **S. Higuchi** et al and R.A. Haeusler. 12-hydroxylated bile acids regulate gastric emptying through GPR119 in the intestine. ASBMB-DEUEL Conference on Lipids, Coronado, CA

2017 **Selected top 15 poster**, **S. Higuchi** et al and R.A. Haeusler. 12-hydroxylated bile acids regulate gastric emptying through GPR119 in the intestine. The New York City Regional Obesity Forum, New York, NY

2017 **S. Higuchi** et al and R.A. Haeusler. Effect of 12-hydroxylated bile acid on food intake. FASEB meeting Glucose transporter, Snowmass, CO

2017 **S. Higuchi** et al and R.A. Haeusler. 12-hydroxylated bile acids regulate food intake. New York City Regional Diabetes Meeting, New York, NY

2016 **S. Higuchi** et al and R.A. Haeusler. 12-hydroxylated bile acids regulate food intake. Columbia University Postdoctoral Research Symposium, New York, NY

2016 **Selected top 15 poster**, **S. Higuchi** et al and R.A. Haeusler. 12-hydroxylated bile acids regulate food intake. The New York City Regional Obesity Forum, New York, NY

2010 **S. Higuchi** et al and M. Fujiwara. The cannabinoid 1 receptors in astrocytes mediate preference for high-fat diets in mice. Chicago, IL

2009 **S. Higuchi** et al and M. Fujiwara. Hypothalamic endocannabinoid, 2-arachidonoylglycerol in developing a preference for high-fat. San Diego, CA

2008 **S. Higuchi**, K. Kuwahara, H. Natsume. The effect of lipophilicity on brain drug targeting after intranasal drug administration. Yokohama, Japan

**Oral presentation**

2018 **S. Higuchi.** Intestinal fat sensing-What’s on the outside matters more than what’s on the inside” Columbia Lipid Symposium, New York, NY

2014 **Best speaker award**, **S. Higuchi** et al and M. Yokode. EP4 receptor-associated protein in macrophage protects against bleomysin-induced pulmonary inflammation in mice. Sendai, Japan

**Selected Outreach and Popular Media**

I’m fully committed to contributing to human health and education through outreach activity. I had written articles and gave a talk to explain over the counter drugs for self-medication as a pharmacist. Also, I have served as a panelist and speaker for cancer survivors and citizens in the U.S.

2018 Panelist for SHARE (Cancer patient-supporting group in NY), “Relationship between obesity and cancer”

2018 Panelist for SHARE (Cancer patient-supporting group in NY), “Lifestyle and cancer”

2018 Guest Speaker for Sakura Radio, Title; Obesity treatment, New York, NY

2018 Guest Speaker for Sakura Radio, Title; OTC drug and self-medication, New York, NY

2018 Guest Speaker for Sakura Radio, Title; Japanese scientist in NY, New York, NY

2018 Interview for NY Japion (with Yuka Hasegawa; Fashion designer), “Science and Fashion”

2018 Medical column for NY Japion, “Lipid mediator cannabinoids and food intake”

2018 Guest Speaker for Sakura Radio, Title: Obesity, New York, NY

2017 Columnist for Vivi Navi, “Self-Medication and OTC drug”

2017 Columnist for NY Japion, “Self-medication and OTC Drug Part1”

2017 Columnist for NY Japion, “Self-medication and OTC Drug Part2”

2017 Columnist for Daily Sun NY, (Monthly) “Over the Counter Drug (OTC) 101” total 20 articles