学術活動

主な発表,講演 など

1. Yamada S, Mechanism of ventricular enlargement in normal pressure hydrocephalus, The 21th annual meeting of Japan Normal Pressure Hydrocephalus, Web Meeting, July 27, 2020
2. Oshio K, Yamada S, CSF Protein Content Estimation by T2 Component Analysis. The 21th annual meeting of Japan Normal Pressure Hydrocephalus, Web Meeting, July 27, 2020
3. Kawamura K, Yamada S. et. al. DNAH14 knock-out Mouse Develops Adult Onset Chronic Hydrocephalus. The 21th the annual meeting of Japan Normal Pressure Hydrocephalus, Web Meeting, July 27, 2020
4. Yamada S, invited speaker: No CSF Bulk flow Exist, 9th Croatian Congress OF Pharmacology, Zagreb, Croatia, Sep. 25 -28, 2019
5. Oshio K, Yamada S, et.al. CSF Protein Content Estimation by T2 Component Analysis. The 47th annual meeting of the Japanese Society for Magnetic Resonance in Medicine. Kumamoto, Japan, Sept. 9-11, 2019
6. Oshio K, Yamada S, et.al. Continuous CSF flow visualization using SSFP The 47th annual meeting of the Japanese Society for Magnetic Resonance in Medicine. Kumamoto, Japan, Sept. 9-11, 2019
7. Oshio K, Yamada S, Continuous CSF flow visualization using SSFP and CSF Protein Content Estimation by T2 Component Analysis. Kyoto CF forum 2019, Kyoto Japan, Aug. 4, 2019
8. Yamada S. invited lecture: Cerebrospinal Fluid Dynamics t with Arterial Spin labeling. 27th International Society for Magnetic Resonance in Medicine. Montreal, Canada, May 13. 2019
9. Oshio K, Yamada S, CSF Protein Content Estimation by T2 Component Analysis. 27th International Society for Magnetic Resonance in Medicine. Montreal, Canada, May 13. 2019
10. Yamada S. invited speaker: Cerebrospinal fluid, production absorption circulation. 18th annual meeting of CSF hypovolemia. Tokyo, Japan, March 04, 2019
11. Yamada S, Invited lecture, The Victor Horsley Lecture 2018: Cerebrospinal Fluid Dynamics in Normal and Pathological Brain -MRI time-SLIP technique-, University Collage London. Dept. of Neurosurgery. London, GB, Dec. 18, 2018
12. Yamada S: Visualization of Cerebrospinal Fluid dynamics. The 10th International meeting of hydrocephalus. Bologna, Italy, Oct. 18-21, 2018
13. Oshio K, Yamada S: Brain motion and brain water motion. Kyoto CSF forum. Kyoto, Japan Aug. 5, 2018
14. Yamada S, Symposium: Cerebrospinal fluid physiology, the 19the Japan Normal Pressure Hydrocephalus

Meeting, Kyoto, Japan, Feb. 24, 2018

15. Yamada S. invited speaker: Cerebrospinal fluid, production absorption circulation. Seminar Pediatric CSF hypovolemia. Sizuoka Japan Nov.25 2017
16. Yamada S. Invited lecture: Visualization of Cerebrospinal Fluid Dynamics. MRI Time-Spatial spin Labeling inversion Pulse Method. The ninth meeting of international hydrocephalus meeting and cerebrospinal fluid disorders Kobe, Japan, Sept 23 -25, 2017
17. Yamada S. Morning Seminar: Visualization of CSF dynamics using MRI Time-SLIP: Application to the Brain. The 9th meeting of international hydrocephalus meeting and cerebrospinal fluid disorders Kobe, Japan, Sept 23 -25, 2017
18. Yamada S. Invited lecture: Visualization of Cerebrospinal Fluid Dynamics. MRI Time-Spatial Labeling Pulse Method. Symposium: Cerebrospinal fluid hydrodynamics, 8th Congress of the Croatian Neurosurgical Society and Joint Meeting with the Italian Society of Neurosurgery (SiNch), Split, Croatia, May 18 -20, 2017
19. Yamada S, Invited lecture: Visualization of Cerebrospinal Fluid Dynamics. MRI Time-Spatial Labeling Pulse Method. Komaba Imaging seminar. Tokyo, Japan March 10, 2017
20. Yamada S: Visualization of Cerebrospinal Fluid Dynamics, physiological variability. The 40th meeting of Progress in Computer Imaging. Kagoshima, Japan March 3. 2017, May 18 -20, 2017
21. Sakai T, Yoshikawa K, Yamada S, poster presentation: Observation of cerebrospinal fluid pulsatility in real time magnetic resonance imaging by means of time spatial labeling inversion pulse (Time-SLIP) technique; validation study of pulsatility traceability with a phantom push-pull pump. Radiological Society of North America (RSNA2016). Chicago USA Nov.27-Dec.2 2016
22. Yamada S: Cerebrospinal Fluid Dynamics, What we know, what we do not know. Koto CSF forum. Kyoto, Japan Aug. 7th, 2016
23. Yamada S, Luncheon Seminar: Visualization of CSF dynamics using MRI Time-SLIP : Application to the Brain. International Society for Pediatric Neurosurgery (ISPN 2016) Kobe, Japan, Oct. 23-27, 2016
24. Sakai T, Yoshikawa K, Yamada S : Analysis of the fluid flow image of phantom push-pull pump by 2 dimensional steady state free precession time spatial spin labeling inversion pulse. The 44th Nuclear Magnetic Resonance Society in Japan. Sep 9-11. 2016
25. Yamada S, Symposium. MR Angiography and Techniques: Now and Beyond: True Tracer for Water -Time-SLIP Application to the Cerebrospinal Fluid- The 44th Nuclear Magnetic Resonance Society in Japan. Sep 9-11. 2016
26. Yamada S, Electric poster presentation: Visualization of CSF Dynamics using 4D time Spatial Spin Labeling

Magnetic Resonance Imaging. American Society of neuroradiology (ASNR 2016), Washington DC, USA May 23-26, 2016

27. Yamada S, Cerebrospinal fluid and Interstitial fluid interaction. Amyloid beta Clearance from Brain. April. 6 2016
28. Sakai T, Yoshikawa K, Yamada S, poster presentation: A validation study of cerebrospinal fluid pulsatility measurement by magnetic resonance imaging arterial spin labeling technique. European Society of Neuroradiology Vienna, Austria, March 2-6, 2016
29. Yamada S, invited lecture, Cerebrospinal Fluid Dynamics. The 15th meeting Cerebrospinal Fluid Hypotension. March 13 2016
30. Yamada S, Symposium: Real Time and 4D Time-SLIP method. Visualization of Cerebrospinal Fluid pulsatility, the 17the Japan Normal Pressure Hydrocephalus Meeting, Yamagata, Japan, March 19 2016
31. Yamada S, Symposium. Cerebrospinal fluid pulsatility and it clinical implication. MRI Time-SLIP method. The 74th annual meeting of Japan Neurosurgical Society. Sapporo, Japan Oct. 6 2015
32. Yamada S, Symposium. Advance MRI technique application to daily practice -Cerebrospinal fluid physiology revisited. MRI Time-SLIP method. The 34th annual meeting of Japan Society of Dementia Research. Sapporo, Japan Oct. 3 2015
33. Yamada S, Physiological variability in CSF motion using Magnetic Resonance Time Spatial Inversion pulse (Time-SLIP)- Real Time Imaging- Hydrocephalus 2015 Banff, Canada, Sept. 20, 2015
34. Yamada S, Quantitative Measurement of Interstitial Fluid Bulk Flow, Amyloid beta Clearance from Brain. Kyoto CSF forum Aug 1 2015
35. Yamada S, Invited lecture. Cerebrospinal Fluid Dynamics International Time spatial labeling inversion pulse technique (Time-SLIP). Imaging Working Group, Chicago, USA, April 30-May 1, 2015
36. Yamada S, Symposium (Invited lecture) -CSF: Venting out Flow Dynamics- Time-SLIP: Application to the Brain. The 53th annual meeting of American Society of Neuroradiology. Chicago, USA, April 29-30, 2015
37. Yamada S, Invited lecture (Dinner Seminar). Cerebrospinal Fluids Dynamics in Disproportionately Enlarged Subarachnoid space hydrocephalus (DESH) -Time spatial labeling inversion pulse technique (Time-SLIP)- International Hydrocephalus Imaging Working Group, Chicago, USA, April 25-30, 2015
38. Yamada S, Invited lecture. Cerebrospinal fluid -Time spatial labeling inversion pulse technique (Time-SLIP)- The International Society for Magnetic Resonance in Medicine Work Shop on Non-Contrast Cardiovascular MRI, Long Beach, USA, March 08-10, 2015
39. Yamada S, Invited lecture. Cerebrospinal Fluid Dynamics -Time Spatial Spin Labeling Inversion Pulse technique -. Kyoto Brain Forum 2014. Yamanashi, Japan Oct 10 2014

40. Yamada S, Invited lecture. Cerebrospinal Fluid Dynamics in Hydrocephalus, Reconsideration of Cerebrospinal Fluid Circulation -Time Spatial Spin Labeling Inversion Pulse technique -. The 21th annual meeting of Tohoku Cerebral Blood Flow and Metabolism. Sendai, Japan Oct 18 2014
41. Yamada S, Cerebrospinal Fluid Dynamics in idiopathic Normal pressure Hydrocephalus. Hypothesis of Occurrence of Idiopathic Normal Pressure Hydrocephalus. The 73th annual meeting of Japan Neurosurgical Society. Tokyo, Japan Oct. 11 2014
42. Yamada S, Cerebrospinal Fluid Dynamics Imaging. Real Time Time Spatial Spin Labeling Inversion Pulse technique. The 73th annual meeting of Japan Neurosurgical Society. Tokyo, Japan Oct. 10 2014
43. Yamada S, Invited lecture. Mapping Cerebrospinal fluid movement using Magnetic Resonance spin labeling in complex hydrocephalus imaging of hydrocephalus. Hydrocephalus 2014. Bristol United Kingdom Sept. 06-08, 2014
44. Kato T, Takahashi Y, Ono S, Samejima N, Kuwana N, Miyajima M, Arai H, Kaijima, Aoki H, Yamada S, Familial normal pressure hydrocephalus: a novel subgroup. Hydrocephalus 2014 Bristol UK Sept. 06-08, 2014
45. Ishikawa C, Kitagawa M, Ito D1, Tanaka N, Yamada H, Sakurai A, Yamada S: Cerebrospinal Fluid Movement Using Magnetic Resonance imaging with Time Spin Labeling inversion pulse method in Canine hydrocephalus. Hydrocephalus 2014 Bristol UK Sept. 06-08, 2014
46. Yamada S, Invited lecture, Cerebrospinal Fluid Dynamics in Disproportionately Enlarged Subarachnoid Spac e Hydrocephalus. International Hydrocephalus Imaging Working Group, Bristol UK Sept. 06, 2014
47. Yamada S, Invited lecture, Cerebrospinal Fluid Dynamics Imaging -MRI time-SLIP technique-, Fukushima Medical University Neurosurgery, Fukushima, Japan, July 4. 2014
48. Yamada S, Invited lecture, Cerebrospinal Fluid Dynamics in Normal and Pathological Brain -MRI time-SLIP technique-, Tohoku University. Dept. of Behavioral Neurology and Cognitive Neuroscience. Sendai, March 17 2014
49. Yamada S, Matsumoto S, Miyazaki M, Yamaoto T, Yui M, Shiodera T, T Takeguchi, Gordon McComb JG. Invited lecture, International Hydrocephalus Imaging Work Group, Montreal, Canada, May 22 2014
50. Yamada S, Matsumoto M, Miyazaki M, Yamaoto T, Yui M, Shiodera T, Takeguchi T. Visualization of Cerebrospinal Fluid dynamics in Response to Driving force by Arterial Spin Labeling Real Time Imaging. The 52th annual meeting of American Society of Neuroradiology. Montreal, Canada, May 17-22, 2014
51. Yamada S, Real time CSF imaging. Observation of Cerebrospinal fluid Dynamics. The 15th annual meeting

of Japan Normal Pressure Hydrocephalus. Osaka, Japan, Feb. 10 2014

52. Yamada S, Miyazaki M, Ouyang C, Anderson R, Bradley W, McComb JG. MRI time-SLIP findings support human olfactory drain. The National Biomedical Institute Unraveling VIIP Etiology -An Exploratory Symposium, NASA, Texas, USA. Feb. 10 2014
53. Yamada S, Invited lecture, Cerebrospinal Fluid Dynamics in Normal and Pathological Brain -MRI time-SLIP technique-, the 400th annual meeting Omuta Neuro Abent . Kyushu, Japan, Nov 28 2013
54. Yamada S, Invited lecture, Cerebrospinal Fluid Dynamics Imaging -Using MRI time-SLIP technique- the 12th annual meeting of Cerebrospinal Fluid hypotension, Nagoya, Japan. Oct.26 2013
55. Yamada S, Luncheon Seminar, Cerebrospinal Fluid Circulation does not exist. -MRI Time-SLIP CSF Dynamics imaging-. The 72 annual meeting of Japan Neurosurgical Society. Oct 16 Tokyo, Japan, 2013
56. Yamada S, Invited lecture. : Advanced Imaging of Hydrocephalus, 41th annual meeting of the International Society for Pediatric Neurosurgery, Mainz, Germany, Sept.29-Oct.3, 2013

57. Yamada S, MRI time-SLIP observation of CSF dynamics, International Hydrocephalus Imaging Working Gro up, Mainz, Germany, Oct 03-04, 2013
58. Yamada S, M Miyazaki, C Ouyang, R. Anderson W. Bradley, JG McComb: MRI time-SLIP findings support human olfactory drain. International Hydrocephalus Imaging Working Group, Mainz, Germany, Oct 03-04, 2013
59. Suzuki M, Kimura T, Kondo A, Shimoji K, Miyajima M, Yamada S, Arai H: Efficacy of non-contrast-enhanced time-spatial labeling inversion pulse (time-SLIP) method in treatment of congenital central nervous system anomalies, 41th annual meeting of the International Society for Pediatric Neurosurgery, Mainz, Germany, Sept.29-Oct.3, 2013
60. Yamada S, Invited lecture: Cerebrospinal Fluid Dynamics in Physiological and Pathophysiological Condition. Using Novel MRI Time-Spatial Labeling Pulse Technique. Symposium: Enigma of CSF Dynamics, 7th Croatian Congress OF Pharmacology, Zagreb, Croatia, Sep,18 -21, 2013
61. Yamada S: Normal pressure Hydrocephalus Observation Using MRI Time-Spatial Labeling Pulse Technique. International Hydrocephalus Imaging Working Group. San Diego, USA, May 23-24, 2013
62. Yamada S, Miyazaki M, McComb JG, : Visualization of cerebrospinal fluid movement in physiological and pathophysiological condition using MR imaging arterial spin labeling . 51th annual meeting of American Society of Neuroradiology. San Diego, USA, May 18-23, 2013
63. Shiodera T, Nitta S, Takeguchi T, Yui M, Yamashita Y, Yamamoto T, Yamada S, Development of an Autom ated Quantitation Method for Cerebral Fluid Dynamics in the Cerebral Ventricle and the Spinal

Subarachnoid Space using MRI Spin Labeling Technique. The 51th annual meeting of American Society of Neuroradiology. San Diego, USA, May 18-23, 2013

64. Yamada S: Observation of Cerebrospinal Fluid Dynamics. Alteration Cerebrospinal Fluid Dynamics in Hydrocephalus. The 26th annual meeting of Japan Geriatric Neurosurgery Society. Tokyo, Japan, May 1 2013
65. Yamada S: Physiology of Cerebrospinal Fluid. The 14 annual meeting of Japan Normal Pressure Hydrocephalus. Tokyo, Japan Feb 2 2013
66. Sato O, Yamada S : Water movements in the brain and the spinal cord: Cerebrospinal fluid physiology revisited The 14 annual meeting of Japan Normal Pressure Hydrocephalus. Tokyo, Japan Feb 2 2013
67. Yamada S, Invited lecture, Cerebrospinal fluid hydrodynamics -MRI Time-SLIP technology- a Hundred Years of Misunderstanding: Nishi-Ogyu Neuro-conference Tokyo, Japan, Jan. 22 2013

68. Yamada S, Miyazaki M, Yamashita Y, Nakahashi M, Shiodera T, Nitta S, Takeguchi T, Miyajima M, Arai H, Hahshimoto M, Ninomiya T, McComb JG. : Changes in Cerebrospinal Fluid (CSF) Flow Patterns in Patients with Definitive Idiopathic Normal Pressure Hydrocephalus (iNPH) Using a MRI Spin Labeling Technique -Japanese multi institutional study, preliminary results- : The fourth meeting of the International Society for Hydrocephalus and Cerebrospinal Fluid Disorders Hydrocephalus 2012, Kyoto, Japan, Oct 20-22, 2012.
69. Sato O, Yamada S, Invited lecture. : Water movements in the brain and the spinal cord: Cerebrospinal fluid physiology revisited. The fourth meeting of the International Society for Hydrocephalus and Cerebrospinal Fluid Disorders Hydrocephalus 2012, Kyoto, Japan, Oct 20-22, 2012
70. Yamada S, Miyazaki M, William G Bradley, McComb JG. : MRI Findings to Support Possible Cerebrospinal Fluid (CSF). Olfactory Drainage in Humans. The fourth meeting of the International Society for Hydrocephalus and Cerebrospinal Fluid Disorders Hydrocephalus 2012, Kyoto, Japan, Oct 20-22, 2012.
71. Yamada S, Satellite Seminar: Visualization of cerebrospinal fluid movement with spin labeling at MR imaging in physiological and pathophysiological conditions. The fourth meeting of the International Society for Hydrocephalus and Cerebrospinal Fluid Disorders Hydrocephalus 2012, Kyoto, Japan, Oct 20-22, 2012. Hydrocephalus 2012, Kyoto, Japan, Oct 20-22, 2012.
72. Shiodera T, Nitta S, Takeguchi T, Yui M, Yamashita Y, Yamada S, : Quantitative Assessment for CSF Hydrodynamics with Spin Labeling at Magnetic Resonance Imaging. The fourth meeting of the International Society for Hydrocephalus and Cerebrospinal Fluid Disorders Hydrocephalus 2012, Kyoto, Japan, Oct 20-22, 2012.

73. Yamada S, McComb JG.: Visualization of cerebrospinal fluid movement with spin labeling at MR imaging. International hydrocephalus imaging working group, Kyoto, Japan, Oct 19, 2012.
74. Yamada S, Invited lecture, Cerebrospinal Fluid Hydrodynamics -MRI Time-SLIP technology- a Hundred Years of Misunderstanding. The 104th annual meeting of Japan Society of Medical Physics, Ibaragi, Japan, Sept 13-15,2012
75. Yamada S, Invited lecture, Cerebrospinal Fluid Dynamics, Pianissimo meeting. Saitama, Japan, July 18, 2012
76. Yamada S, Invited lecture, Cerebrospinal fluid dynamics imaging. Otsuka Cerebrospinal Fluid Advisory Lecture. Kanagawa, Japan, March 13 2012
77. Yamada S: Cerebrospinal Fluid Flow Imaging in Physiological and Pathophysiological Brain. -Time-SLIP for Non-invasive and Non-enhanced imaging of CSF flow Dynamics- satellite symposium. European Congress of Radiology (ECR 2012), Vienna, Austria March 1-5, 2012
78. Yamada S: Cerebrospinal Fluid Flow Imaging in Physiological and Pathophysiological Brain. -Time-SLIP for Non-invasive and Non-enhanced imaging of CSF flow Dynamics- invited lecture. Uppsala University Neuro-conference Uppsala, Sweden March 7, 2012.
79. Yamada S: Cerebrospinal Fluid Flow Imaging in Physiological and Pathophysiological Brain. Industrial symposium, Radiological Society of North America, Chicago, Illinoi, USA, Nov. 27-Dec 2,2011
80. Yamada S, Goto T, Miyazaki M, Yamashita Y, Shimizu S, McComb JG.: Use of Magnetic Resonance Imaging Spin Labeling Technique to observe Alteration in Cerebrospinal Movement in Patient with Shunted Hydrocephalus following a subarachnoid Hemorrhage. The third meeting of the International Society for Hydrocephalus and Cerebrospinal Fluid Disorders. Hydrocephalus 2011, Copenhagen, Denmark, Sept. 4-7, 2011
81. Yamada S: Cerebrospinal Fluid Flow Imaging in Physiological and Pathophysiological Brain Using Magnetic Resonance Imaging with Time Spatial Spin Labeling (Time-SLIP) European society for Magnetic Resonance in Medicine and Biology, Symposium, Leipzig, Germany, Oct 6-8, 2011
82. Yamada S, alteration of Cerebrospinal Fluid Dynamics before and after shunting in Idiopathic Normal Pressure Hydrocephalus. The 13th annual meeting of Japan Normal Pressure Hydrocephalus. Osaka, Japan. Feb 11 2012
83. Yamada S, Invited lecture: Cerebrospinal Fluid Dynamics Imaging. Niigata MRI Meeting, Niigata, Japan, Feb. 2012
84. Yamada S, Invited lecture: A concept of cerebrospinal fluid physiology -based on Time-Slip CSF flow

observation- Does CSF circulate - The 2nd meeting of Ishikawa Cerebrospinal Fluid forum. Ishikawa, Japan, Jan. 2012

85. Yamada S : Mechanism of Disproportionately enlarged subarachnoid space （DESH） in idiopathic normal pressure hydrocephalus. -Cerebrospinal fluids dynamics Observation-. : 2011 annual meeting: the research committee of idiopathic normal pressure hydrocephalus, Studies on the etiology, Pathogenesis, diagnosis and therapy. Supported by the ministry of Health, Labor and Welfare of Japan. Tokyo, Japan, Nov. 2011
86. Yamada S: 3T MRI Cerebrospinal Fluid Imaging-Time Spatial Spin Labeling Inversion Pulse technology- The 70th annual meeting of Japan Neurosurgical Society. Yokohama, Japan, Oct 12-14 2011
87. Yamada S: A Concept of Cerebrospinal Fluid Physiology based on time-SLIP CSF Flow Observation. Dose CSF circulates- Kyoto CSF forum, Kyoto, Japan, Aug 7 2011
88. Yamada S, Cerebrospinal Fluids Dynamics. The 22th Neuro-Seminar. Toho Ohashi, Tokyo, Japan Jan. 23 2011
89. Yamada s, Goto T: Alteration of Cerebrospinal Fluid Hydrodynamics in Hydrocephalus. MRI Time-SLIP method. The 12th annual meeting of Japan Normal Pressure Hydrocephalus. Hokkaido, Japan. Feb 12 2011
90. Yamada S, Invited lecture: Cerebrospinal fluid imaging -Time Spatial Spin Labeling Inversion Pulse technology-Jichi Medical University Saitama, Japan, Nov. 16 2010
91. Yamada S, McComb JG, Cerebrospinal Fluid Flow Imaging in Physiological and Pathophysiological Brain Using Magnetic Resonance Imaging with Time Spatial Spin Labeling Inversion Pulse Method. The 38th International Society for Pediatric Neurosurgery Jeju Korea Oct 30-Nov 4 2010
92. Yamada S, Cerebrospinal Fluid Imaging -Time Spatial Spin Labeling Inversion Pulse technology- Nagoya CSF forum, Nagoya, Japan, Oct.16 2010
93. Yamada s Invited lecture: Cerebrospinal Fluid Hydrodynamics in Normal and Pathophysiologic Conditions. –MRI Time Spatial Spin Labeling Inversion Pulse technology- Shinshu University, Nagano Japan, Sept. 24 2010
94. Yamada, S, Miyazaki M, Yamashita Y, Shimizu S, Goto T, McComb JG, Shima K, Respiration as the Major Force of Cerebrospinal Fluid Movement. The 14th international conference on intracranial pressure and brain monitoring Tubingen Germany Sep. 12-16 2010
95. Yamada S, Invited Lecture: Visualization of Cerebrospinal Fluid dynamics in Normal and Pathophysiological brain using MRI Time-Spatial Spin Labeling Inversion Pulse Method. Kansai iNPH seminar, Osaka, Japan,Sept.11, 2010

96. Yamada S: Visualization of Cerebrospinal Fluid dynamics in Normal and Pathophysiological brain using MRI Time-Spatial Spin Labeling Inversion Pulse Method. Kyoto CSF forum, Kyoto, Japan Aug 1 2010
97. Yamada S: Visualization of Cerebrospinal Fluid dynamics in Normal and Pathophysiological Brain using MRI Time-Spatial Spin Labeling Inversion Pulse Method. National Seiiku Hospital, Tokyo, Japan, June 1 2010
98. Yamada S, Symposium: Understanding of cerebrospinal fluid hydrodynamics in idiopathic hydrocephalus Visualization of CSF bulk flow with MRI time-spatial labeling pulse method (time-SLIP). The 51th annual Meeting of Japanese Neurological Society of Neurology. Tokyo, Japan, May 22 2010
99. Yamada S, Visualization of Cerebrospinal Fluid using MRI Time-Spatial Spin Labeling Inversion Pulse Method. Kanagawa MRI meeting. Kanagawa, Japan, Feb 13 2010.
100. Yamada S: Visualization of Cerebrospinal Fluid in Hydrocephalus using MRI Time-Spatial Spin Labeling Inversion Pulse Method. The 11th annual meeting of Japan Normal Pressure Hydrocephalus Osaka, Japan, Feb. 6 2010
101. Yamada S: Visualization of Cerebrospinal Fluid in Hydrocephalus using MRI Time-Spatial Spin Labeling Inversion Pulse Method. Shin-Toshin Neuroendoscope meeting. Tokyo, Japan, Oct 20, 2009
102. Yamada S, McComb JG, Cerebrospinal Fluid Flow Imaging in Physiological and Pathophysiological Brain Using Magnetic Resonance Imaging with Time Spatial Spin Labeling (Time-SLIP) 37th International Society for Pediatric Neurosurgery Los Angels USA Oct 11-Nov 15 2009
103. Yamada S, McComb JG, Cerebrospinal Fluid Flow Imaging in Physiological and Pathophysiological Brain Using Magnetic Resonance Imaging with Time Spatial Spin Labeling (Time-SLIP) Hydrocephalus 2009 Baltimore USA Sept 17-20 2009
104. Yamada S: Visualization of Cerebrospinal Fluid dynamics in Normal and Pathophysiological Brain using MRI Time-Spatial Spin Labeling Inversion Pulse Method. Okayama Summer seminar l, Okayama, Japan, July 12 2009
105. Yamada S: Visualization of Cerebrospinal Fluid dynamics in Normal and Pathophysiological Brain using MRI Time-Spatial Spin Labeling Inversion Pulse Method. The 29th annual meeting of The Japanese Congress of Neurological surgeons. Osaka, Japan, May 19 2009
106. Yamada S, Invited lecture: Cerebrospinal Fluid Circulation New Findings using MRI Time-Spatial Spin Labeling Inversion Pulse Method. The Best Image. Tokyo, Japan, Dec.20 2008
107. Yamada S, Invited lecture: Visualization of Cerebrospinal Fluid dynamics in Normal and Pathophysiological Brain using MRI Time-Spatial Spin Labeling Inversion Pulse Method. Fukui Neurosurgical meeting. Fukui, Japan, 2008

108. Yamada S, Miyazaki M, Higashi M, Kanazawa H, Morohoshi Y, McComb JG: Non-Contrast Bulk Flow Imaging of Cerebrospinal Fluid (CSF) Using Time-Spatial Labeling Inversion Pulse (Time-SLIP) International society for Magnetic resonance in Medicine Toronto, Canada May 3-9 2008
109. Yamada S, Invited lecture: Visualization of Cerebrospinal Fluid dynamics in Normal and Pathophysiological Brain using MRI Time-Spatial Spin Labeling Inversion Pulse Method. The annual meeting of Japan Intracranial Pressure and brain edema Meeting. Tokyo, Japan, 2008
110. Yamada S, Invited lecture: Visualization of Cerebrospinal Fluid dynamics in Normal and Pathophysiological Brain using MRI Time-Spatial Spin Labeling Inversion Pulse Method. Saitama CSF seminar. Saitama, Japan, 2008
111. Yamada S, Cerebrospinal Fluid Flow Imaging in Physiological and Pathophysiological Brain Using Magnetic Resonance Imaging with Time Spatial Spin Labeling (Time-SLIP) 35th International Society for Pediatric Neurosurgery river pool UK 2007

112. Yamada S: Visualization of Cerebrospinal Fluid dynamics in Normal and Pathophysiological Brain using MRI Time-Spatial Spin Labeling Inversion Pulse Method. The 67th annual meeting of The Japan Society of Neurological Surgeons. Tokyo, Japan, 2007
113. Yamada S: Visualization of Cerebrospinal Fluid dynamics in Normal and Pathophysiological Brain using MRI Time-Spatial Spin Labeling Inversion Pulse Method. The 67th annual meeting of The Japan Society of Radiology. Yokohama, Japan, 2007
114. Yamada, S, McComb JG, Cerebrospinal Fluid Flow Imaging in Physiological and Pathophysiological Brain Using Magnetic Resonance Imaging with Time Spatial Spin Labeling (Time-SLIP) 12th International Conference on Intracranial Pressure and Brain Monitoring San Francisco USA 2007
115. Yamada S: Visualization of Cerebrospinal Fluid Circulation using MRI Time-Spatial Spin Labeling Inversion Pulse Method. The Best Image. Tokyo, Japan, 2005
116. Ishiguro T, Yamada S: Visualization of Cerebrospinal Fluid Circulation using MRI Time-Spatial Spin Labeling Inversion Pulse Method. -Clinical observation- The 33th annual meeting of Japanese Society for Magnetic Resonance in Medicine, Tokyo, Japan, 2005
117. Morohoshi Y, Yamada S: Visualization of Cerebrospinal Fluid Circulation using MRI Time-Spatial Spin Labeling Inversion Pulse Method. -Basic technology- The 33th annual meeting of Japanese Society for Magnetic Resonance in Medicine, Tokyo, Japan, 2005
118. Yamada S, Cerebrospinal Fluid Flow Imaging in Physiological and Pathophysiological Brain Using Magnetic Resonance Imaging with Time Spatial Spin Labeling (Time-SLIP) 33th International Society for

Pediatric Neurosurgery Vancouver Canada 2005

Selected publications

1. Ohio K, Yamada S, Shimizu S, Yui M, The Spatial Distribution of Water Components with Similar T_2 May Provide Insight into Pathways for Large Molecule Transportation in the Brain. Magnetic Resonance in Medical Science, Feb. 2020
2. Yamada S: relationship between Subarachnoid hemorrhage and Glymphatic system. Clinical Neuroscience, Chugai Igaku-sha, 37-1,111-115, Jan. 2019 (Japanese)
3. Yamada S: Cerebrospinal Fluid dynamics: Noshinkeigeka-Sokuhou, MC Medica, 28,641-647,July 2018 (Japanese)
4. Yamada S: Water in Brain: Noshinkeigeka, Igakushoin,46(4), April 2018 (Japanese)
5. Yamada S: Cerebrospinal Fluid dynamics -No Bulk Flow Exist- Gazoushindan ,38(3),277-286, July 2018 (Japanese)
6. Yamada S: Observation of Cerebrospinal Fluid dynamics using MRI Time Spatial Labeling Inversion Pulse -Cerebrospinal Fluid Physiology-, Update Cerebrospinal Fluid: Shinkeinaika, , 87(3),264-271 ,Sept. 2017 (Japanese)
7. Yamada S: Cerebrospinal Fluid physiology Revisited -MRI Time-SLIP method- (Recent advancement of MRI, application to dementia practice) Spatial Labeling Inversion Pulse -Cerebrospinal Fluid Physiology-, Update Cerebrospinal Fluid: Dementia Japan, 31(2),242-250,2017 (Japanese)
8. Yamada S: Recent Advancement of Cerebrospinal Fluid physiology and Spinal Disorder. Review Opinion for Certified Neurosurgeon -MRI Time-SLIP method-, SPINAL SURGERY 31 (1) 20-27,2017, (Japanese)
9. Yamada S, and Kelly. E J "Cerebrospinal fluid dynamics and the pathophysiology of hydrocephalus: new concepts." Seminars in Ultrasound, CT and MRI. 2016, 37(2), 84-91.
10. Kelly, Erin J., and Yamada S. "Cerebrospinal fluid flow studies and recent advancements." Seminars in Ultrasound, CT and MRI. 2016, 37(2), 92-9.
11. Yamada S, Physiological variability in CSF motion using magnetic resonance time spatial labeling inversion pulse (Time-SLIP) - real time imaging. Fluids Barriers CNS. 2015, 12 (suppl 1) O12.
12. Yamada S, Tsuchiya K, Bradley WG, Law M, Winkler ML, Borzage MT, Miyazaki M, Kelly EJ, McComb JG. Current and Emerging MR Imaging Techniques for the Diagnosis and Management of CSF Flow Disorders: A Review of Phase-Contrast and Time-Spatial Labeling Inversion Pulse. AJNR Am J Neuroradiol. 2015, 36(4), 623-630, 2015
13. Yamada S, Cerebrospinal fluid physiology: visualization of cerebrospinal fluid dynamics using the magnetic

resonance imaging Time-Spatial Inversion Pulse method. 2014, 55(4), 337-46.

14. Mori E, Yamada S, Hypothesis of cerebrospinal fluid formation and absorption: from the clinical viewpoint of idiopathic normal pressure hydrocephalus Rinsho Shinkeigaku. 2014, 54(12), 1190-2.
15. Shiodera T1, Nitta S, Takeguchi T, Yui M, Yamashita Y, Yamamoto T, Yamada S, Automated flow quantification for spin labeling MR imaging. Magnetic Resonance in Medicine and Biology. 2014, 27(5), 425-33.
16. Yamada S, Miyazaki M, Yuichi Y, Cheng O, Masao N, Shimizu S, Aoki I, Morohoshi Y, McComb JG :Influence of respiration on cerebrospinal fluid movement using magnetic resonance spin labeling: Fluids Barriers CNS.2013, 10 (1), 36.
17. Yamada S, Goto T, McComb JG. Use of a Spin-Labeled Cerebrospinal Fluid Magnetic Resonance Imaging Technique to Demonstrate Successful Endoscopic Fenestration of an Enlarging Symptomatic Cavum Septi Pellucidi. World Neurosurg. 2013, 80(3-4), 436.
18. Yamada S, Physiology of cerebrospinal fluid -Cerebrospinal Fluid Dynamics- Jpn. J. Med. Phys.2013 32 (3): 148-154.
19. McComb JG, Yamada S, Cerebrospinal fluids physiology Youmans Neurological Surgery, 6th Edition, Elsevier chapter, 2012, 18: 1998-2001
20. Yamada S, Goto T. Understanding of cerebrospinal fluid hydrodynamics in idiopathic hydrocephalus Visualization of CSF bulk flow with MRI time-spatial labeling pulse method (time-SLIP) Rinsho Shinkeigaku.2010, 50(11), 966-970.
21. Yamada S, Miyazaki M, Kanazawa H, Higashi M, Morohoshi Y, Bluml S, McComb JG, Visualization of cerebrospinal fluid movement with spin labeling at MR imaging: preliminary results in normal and pathophysiologic conditions. Radiology. 2008, 249(2), 644-52.
22. Yamada S, Xiang BU, Khankaldyyan V, Gonzales-Gomez I. in Nude Mice. Neurosurgery, 2006, 59 (6), 1304-1312.
23. Yamada S, Shibata M, Scadeng M, Bluml S, NGUY C, Ross B, McComb JG, MRI tracer study of the cerebrospinal fluid drainage pathway in normal and hydrocephalic guinea pig brain. Tokai J Exp. Clin. Med. 2005, 30(1), 21-29.
24. Yamada S, Khankaldyyan V, Xiang BU, Suzuki A, Gonzales-Gomez I, Takahashi K, McComb JG, Laug WE. A method to accurately inject tumor cells into the caudate/putamen nuclei of the mouse brain. Tokai J Exp. Clin. Med. 2005, 29 (4), 167-73.
25. Monro O, Mackic J, Yamada S, Segal M, Ghiso J, Maurer C, Calero M, Frangione B, Zlokovic BV. Substitution at codon 22 reduces clearance of Alzheimer's amyloid-β peptide from the cerebrospinal fluid

and prevents its transport from the central nervous system into blood. Neurobiol. Aging. 2002, 23(3), 405-412.

26. Bading J, Yamada S, Mackic J, Kirkman L, Miller C, Calero M, Ghiso J, Frangione B. and Zlokovic B. Brain clearance of Alzheimer's amyloid-β40 in the squirrel monkey: a SPECT study in a primate model of cerebral amyloid angiopathy. J. Drug Targeting. 2002, 10(4), 359-368.
27. Scading M, Moats RA, Yamada S, Nelson MD Jr., McComb JG. MR spectroscopic changes in pediatric acute, sub-acute hydrocephalus and cortical atrophy. Proc. American Society Pediatric Neurosurgeons San Diego, USA 2000
28. Scading M, Moats RA, Yamada S, Nelson MD Jr., McComb JG. MR spectroscopic changes in pediatric acute hydrocephalus, insidious onset hydrocephalus and cortical atrophy. Proc. Int. Soc. Mag. Res. Med. 9 558 2001
29. Shibata M, Yamada S, Kumar SR, Calero M, Bading J, Frangione B, Holtzman D, Miller AC, Strickland DK, Ghiso J, Zlokovic BV, Clearance of Alzheimer's amyloid-B1-40 Peptide from brain by LDL receptor-related protein-1 at the blood-brain barrier. J. Clin. Invest. 2000, 106(12), 1489-1499.
30. Zlokovic BV, Yamada S, Holtzman D, Ghiso J, Frangione B, Clearance of amyloid B-peptide from brain: Transport or Metabolism? Nature Med. 200, 6(7), 718.
31. Tabrizi P, Wang L, Seed N, McComb JG, Yamada S, Griffin JH, Carmeliet P, Weiss MH, Zlokovic BV, Tissue plasminogen activator (t-PA) deficiency exacerbates cerebrovascular fibrin deposition and brain injury in a murine stroke model: Studies in t-PA-deficient mice and wild-type mice on a matched genetic background. Arteriosclerosis, Thrombosis & Vascular Biology. 1999, 19(11) 2801-2806.
32. Levy LM, Chen CTJ, Amar PA, Yamada S, Togo K, Iizuka Y, Assiti MM, Virtual endoscopic environments in modern neurosurgical practice. Neurosurgical Focus. 1999, 6(4), e11.
33. Sato O, Yamada S, Neonatal and Childhood Hydrocephalus: A variety of treatment strategies. Critical Review In Neurosurg. 1996, 44(6), 296-303.
34. Cserr HF, Harlingberg C, Ichimura T, Knopf PM and Yamada S, Drainage of cerebral extracellular fluid into cervical lymph - an afferent limb brain/immune system interactions. Pathophysiology of the Blood Brain Barrier.1994, 14, 413-420.
35. Sato O, Yamada S, Hydocephalus : Diagnosis, treatment and rationale. Critical Review in Neurosugery.1994, 4(3), 197-207.
36. Sato O, Takei F, Yamada S, Hydocephalus is impaired cerebrospinal fluid circulation only one problem involved. Child's Nervous System. 1994, 10(3), 151-155.
37. Yamada S, Sato O, Ventricular system and cerebrospinal fluid: Blood brain barrier. Clinical Neuroscience.

1993, 11(8), 138-141.

38. Yamamoto M, Akiyama K, Haida M, Osuga H, Shinohara N, Yamada S, Shinohara Y, Determination of intracellular colloid osmotic pressure of cultured endothelial cells. Microcirculatory stasis in the brain. Elsevier Science Publications. 1993, 399-401.
39. Yamada S, Depasquales M, Patlak C, Cserr HF, Albumin outflow into deep cervical lymph from different lesions of rabbit brain. American Journal of Physiology. 1991, 26 (Heart Circulation 30) H1147-H1204.
40. Yamada S. and Sato O. Diagnosis and treatment of hydrocephalus. Recent advancement of pediatric neurosurgery: Pediatric Surgery.1991, 23(11), 1143-1248.