

# Nobuhiro Ohkohchi

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/8511794/publications.pdf>

Version: 2024-02-01

125  
papers

2,842  
citations

159358

30  
h-index

205818

48  
g-index

127  
all docs

127  
docs citations

127  
times ranked

3310  
citing authors

#	ARTICLE	IF	CITATIONS
1	Development and evaluation of novel hydrogel for preventing postoperative pancreatic fistula. <i>Polymers for Advanced Technologies</i> , 2022, 33, 125-136.	1.6	7
2	Dualistic role of platelets in living donor liver transplantation: Are they harmful?. <i>World Journal of Gastroenterology</i> , 2022, 28, 897-908.	1.4	7
3	A novel hydrogel sheet prevents postoperative pancreatic fistula in a rat model. <i>Journal of Hepato-Biliary-Pancreatic Sciences</i> , 2021, 28, 192-201.	1.4	11
4	Platelets Stimulate Liver Regeneration in a Rat Model of Partial Liver Transplantation. <i>Liver Transplantation</i> , 2021, 27, 719-734.	1.3	9
5	Oxidative stress and Liver X Receptor agonist induce hepatocellular carcinoma in Non-alcoholic steatohepatitis model. <i>Journal of Gastroenterology and Hepatology (Australia)</i> , 2021, 36, 800-810.	1.4	9
6	The evidence of a macrophage barrier in the xenotransplantation of human hematopoietic stem cells to severely immunodeficient rats. <i>Xenotransplantation</i> , 2021, 28, e12702.	1.6	2
7	Drug-Drug Interaction between Tacrolimus and Vonoprazan in Kidney Transplant Recipients. <i>Journal of Clinical Medicine</i> , 2021, 10, 3964.	1.0	5
8	Survival-Assured Liver Injury Preconditioning (SALIC) Enables Robust Expansion of Human Hepatocytes in Fah <sup>fl/y</sup> Rag2 <sup>fl/y</sup> IL2rg <sup>fl/y</sup> Rats. <i>Advanced Science</i> , 2021, 8, e2101188.	0.6	5
9	The Effect of the Platelet Administration for the Patients with Liver Dysfunction after Liver Resection: Preliminary Clinical Trial. <i>Case Reports in Gastrointestinal Medicine</i> , 2021, 2021, 1-4.	0.2	0
10	Current trends in three-dimensional visualization and real-time navigation as well as robot-assisted technologies in hepatobiliary surgery. <i>World Journal of Gastrointestinal Surgery</i> , 2021, 13, 904-922.	0.8	18
11	Platelet and liver regeneration after liver surgery. <i>Surgery Today</i> , 2020, 50, 974-983.	0.7	17
12	A Nationwide Survey of Hepatitis E Virus Infection and Chronic Hepatitis in Heart and Kidney Transplant Recipients in Japan. <i>Transplantation</i> , 2020, 104, 437-444.	0.5	25
13	Prominent effect of platelet on improvement of liver cirrhosis. <i>AME Case Reports</i> , 2020, 4, 14-14.	0.2	3
14	Microarray analysis of verbenalin-treated human amniotic epithelial cells reveals therapeutic potential for Alzheimer's Disease. <i>Aging</i> , 2020, 12, 5516-5538.	1.4	17
15	Correlation analysis of the proportion of monocytic myeloid-derived suppressor cells in colorectal cancer patients. <i>PLoS ONE</i> , 2020, 15, e0243643.	1.1	6
16	Hepatic stellate cells contribute to liver regeneration through galectins in hepatic stem cell niche. <i>Stem Cell Research and Therapy</i> , 2020, 11, 425.	2.4	9
17	Title is missing!. , 2020, 15, e0243643.		0
18	Title is missing!. , 2020, 15, e0243643.		0

#	ARTICLE	IF	CITATIONS
19	Title is missing!. , 2020, 15, e0243643.		0
20	Title is missing!. , 2020, 15, e0243643.		0
21	Exploring the Potential Role of Rosmarinic Acid in Neuronal Differentiation of Human Amnion Epithelial Cells by Microarray Gene Expression Profiling. <i>Frontiers in Neuroscience</i> , 2019, 13, 779.	1.4	20
22	Isorhamnetin Alleviates Steatosis and Fibrosis in Mice with Nonalcoholic Steatohepatitis. <i>Scientific Reports</i> , 2019, 9, 16210.	1.6	48
23	Modified Reinforced Staple Closure Technique Decreases Postoperative Pancreatic Fistula After Distal Pancreatectomy. <i>Indian Journal of Surgical Oncology</i> , 2019, 10, 587-593.	0.3	6
24	Pathological complete response after preoperative chemotherapy including FOLFOX plus bevacizumab for locally advanced rectal cancer: A case report and literature review. <i>International Journal of Surgery Case Reports</i> , 2019, 62, 85-88.	0.2	4
25	Recurrent renal cell carcinoma leading to a misdiagnosis of polycystic liver disease: A case report. <i>World Journal of Gastroenterology</i> , 2019, 25, 2264-2270.	1.4	1
26	Remnant pancreatic volume as an indicator of poor prognosis in pancreatic cancer patients after resection. <i>Pancreatology</i> , 2019, 19, 716-721.	0.5	9
27	Prevalence and characteristics of hepatitis E virus infection in kidney transplant recipients: A single-center experience in Japan. <i>Transplant Infectious Disease</i> , 2019, 21, e13033.	0.7	3
28	Albumin-Indocyanine Green Evaluation Grading System Predicts Post-Hepatectomy Liver Failure for Biliary Tract Cancer. <i>Digestive Surgery</i> , 2019, 36, 13-19.	0.6	10
29	Enhanced hepatic differentiation in the subpopulation of human amniotic stem cells under 3D multicellular microenvironment. <i>World Journal of Stem Cells</i> , 2019, 11, 705-721.	1.3	19
30	Novel non-alcoholic steatohepatitis model with histopathological and insulin-resistant features. <i>Pathology International</i> , 2018, 68, 12-22.	0.6	17
31	A Novel Therapeutic Strategy for Pancreatic Cancer: Targeting Cell Surface Glycan Using rBC2LC-N Lectin-Drug Conjugate (LDC). <i>Molecular Cancer Therapeutics</i> , 2018, 17, 183-195.	1.9	45
32	Indocyanine green fluorescence-navigated laparoscopic metastasectomy for peritoneal metastasis of hepatocellular carcinoma: a case report. <i>Surgical Case Reports</i> , 2018, 4, 130.	0.2	13
33	Three-Dimensional Remnant Pancreatic Volumetry Predicts Postoperative Pancreatic Fistula in Pancreatic Cancer Patients after Pancreaticoduodenectomy. <i>Gastrointestinal Tumors</i> , 2018, 5, 90-99.	0.3	9
34	Three-dimensional surgical simulation of the bile duct and vascular arrangement in pancreatoduodenectomy: A retrospective cohort study. <i>Annals of Medicine and Surgery</i> , 2018, 36, 17-22.	0.5	10
35	Cyanidin-3-glucoside enhances mitochondrial function and biogenesis in a human hepatocyte cell line. <i>Cytotechnology</i> , 2018, 70, 1519-1528.	0.7	17
36	Surgical resection of hepatic and rectal metastases of pancreatic acinar cell carcinoma (PACC): a case report. <i>World Journal of Surgical Oncology</i> , 2018, 16, 158.	0.8	11

#	ARTICLE	IF	CITATIONS
37	Development of Implantable Wireless Sensor Nodes for Animal Husbandry and MedTech Innovation. <i>Sensors</i> , 2018, 18, 979.	2.1	8
38	[Invited Paper] A Liver Surgery Simulator Using Full HD Autostereoscopic Displays. <i>ITE Transactions on Media Technology and Applications</i> , 2018, 6, 11-17.	0.3	2
39	Thrombocytopenia after liver transplantation: Should we care?. <i>World Journal of Gastroenterology</i> , 2018, 24, 1386-1397.	1.4	32
40	Evaluation of safety for hepatectomy in a novel mouse model with nonalcoholic-steatohepatitis. <i>World Journal of Gastroenterology</i> , 2018, 24, 1622-1631.	1.4	7
41	A Case of Intraabdominal Bleeding due to Laceration of a Gastro-colic Membrane due to a Practice Swing. <i>Nihon Rinsho Geka Gakkai Zasshi (Journal of Japan Surgical Association)</i> , 2018, 79, 2058-2062.	0.0	0
42	Three-dimensional simulation of pancreatic surgery showing the size and location of the main pancreatic duct. <i>Surgery Today</i> , 2017, 47, 357-364.	0.7	32
43	Unique clinical courses of transfusion-transmitted hepatitis E in patients with immunosuppression. <i>Transfusion</i> , 2017, 57, 280-288.	0.8	62
44	Novel imaging using a touchless display for computer-assisted hepato-biliary surgery. <i>Surgery Today</i> , 2017, 47, 1512-1518.	0.7	2
45	The Effect of Three-Dimensional Preoperative Simulation on Liver Surgery. <i>World Journal of Surgery</i> , 2017, 41, 1840-1847.	0.8	60
46	Three-Dimensional Liver Surgery Simulation: Computer-Assisted Surgical Planning with Three-Dimensional Simulation Software and Three-Dimensional Printing<sup />. <i>Tissue Engineering - Part A</i> , 2017, 23, 474-480.	1.6	44
47	Survival of surgery for recurrent biliary tract cancer: a single-center experience and systematic review of literature. <i>Japanese Journal of Clinical Oncology</i> , 2017, 47, 206-212.	0.6	26
48	Regulation of HGF-induced hepatocyte proliferation by the small GTPase Arf6 through the PIP2-producing enzyme PIP5K1A. <i>Scientific Reports</i> , 2017, 7, 9438.	1.6	14
49	Antisense RNA transcripts in the blood may be novel diagnostic markers for colorectal cancer. <i>Oncology Letters</i> , 2017, 14, 3487-3493.	0.8	2
50	Pubic osteomyelitis after surgery for perforated colonic diverticulitis with fecal peritonitis: A case report. <i>International Journal of Surgery Case Reports</i> , 2017, 38, 50-52.	0.2	2
51	Terpinen-4-ol inhibits colorectal cancer growth via reactive oxygen species. <i>Oncology Letters</i> , 2017, 14, 2015-2024.	0.8	32
52	Dynamic Magnetization Properties of Platelet Ferromagnetic Nanoparticles and Their Heat Generation Injected in Tumors of Mice. <i>IEEE Transactions on Magnetics</i> , 2017, 53, 1-5.	1.2	3
53	A novel three-dimensional print of liver vessels and tumors in hepatectomy. <i>Surgery Today</i> , 2017, 47, 521-524.	0.7	53
54	Impact of Three-Dimensional Surgical Simulation on Pancreatic Surgery. <i>Gastrointestinal Tumors</i> , 2017, 4, 84-89.	0.3	16

#	ARTICLE	IF	CITATIONS
55	Gallbladder bleeding associated with microscopic polyangiitis: a case report. <i>Journal of Surgical Case Reports</i> , 2017, 2017, rjx159.	0.2	2
56	Platelets in liver disease, cancer and regeneration. <i>World Journal of Gastroenterology</i> , 2017, 23, 3228.	1.4	77
57	A Case of Inflammatory Pseudotumor-like Follicular Dendritic Cell Sarcoma of the Lymph Node in the Small Bowel Mesentery Accompanied by Myasthenia Gravis. <i>Nihon Rinsho Geka Gakkai Zasshi (Journal)</i> Tj ETQq1 1 0.084314ogBT /Ov		
58	A Case of Metastatic Splenic Tumor with Tumor Thrombus. <i>Kitakanto Medical Journal</i> , 2017, 67, 159-162.	0.0	0
59	Gastroenterological, Hepatobiliary and Pancreatic Surgery. <i>Journal of Japan Society of Computer Aided Surgery</i> , 2017, 19, 157-161.	0.1	0
60	Anticancer effect of linalool<i>via</i>cancer-specific hydroxyl radical generation in human colon cancer. <i>World Journal of Gastroenterology</i> , 2016, 22, 9765.	1.4	63
61	Pancreatic neuroendocrine tumor and solid-pseudopapillary neoplasm: Key immunohistochemical profiles for differential diagnosis. <i>World Journal of Gastroenterology</i> , 2016, 22, 8596.	1.4	57
62	Stable Liver Function during Long-Term Administration of Eltrombopag, a Thrombopoietin Receptor Agonist, in Patients with Chronic Liver Disease. <i>Tohoku Journal of Experimental Medicine</i> , 2016, 240, 277-279.	0.5	9
63	Treatment with ribavirin for chronic hepatitis E following living donor liver transplantation: A case report. <i>Hepatology Research</i> , 2016, 46, 1058-1059.	1.8	10
64	Well leg compartment syndrome after surgery for ulcerative colitis in the lithotomy position: A case report. <i>International Journal of Surgery Case Reports</i> , 2016, 23, 25-28.	0.2	8
65	Protecting liver sinusoidal endothelial cells suppresses apoptosis in acute liver damage. <i>Hepatology Research</i> , 2016, 46, 697-706.	1.8	13
66	Chronic hepatitis E virus infection after living donor liver transplantation via blood transfusion: a case report. <i>Surgical Case Reports</i> , 2016, 2, 32.	0.2	21
67	Cetuximab delivery and antitumor effects are enhanced by mild hyperthermia in a xenograft mouse model of pancreatic cancer. <i>Cancer Science</i> , 2016, 107, 514-520.	1.7	26
68	Postoperative Decrease in Platelet Counts Is Associated with Delayed Liver Function Recovery and Complications after Partial Hepatectomy. <i>Tohoku Journal of Experimental Medicine</i> , 2016, 239, 47-55.	0.5	19
69	Novel functions of platelets in the liver. <i>Journal of Gastroenterology and Hepatology (Australia)</i> , 2016, 31, 745-751.	1.4	46
70	Neuroendocrine carcinoma of the extrahepatic bile duct: A case report. <i>World Journal of Gastroenterology</i> , 2016, 22, 6960.	1.4	19
71	An Adult Case of Duplication of Transverse Colon Resected by Laparoscope-assisted Surgery. <i>Nihon Gekakei Rengo Gakkaishi (Journal of Japanese College of Surgeons)</i> , 2016, 41, 652-657.	0.0	0
72	Introduction of the Robotic Surgery (da Vinci Surgical System) for Colorectal Cancer. <i>Kitakanto Medical Journal</i> , 2016, 66, 155-158.	0.0	0

#	ARTICLE	IF	CITATIONS
73	A Case of a Resected Ileosigmoid Knot in an Older Schizophrenic Patient. Kitakanto Medical Journal, 2016, 66, 289-292.	0.0	1
74	A Case of a Duodenal Papilla Adenosquamous Carcinoma with Trophoblastic Differentiation. Nihon Rinsho Geka Gakkai Zasshi (Journal of Japan Surgical Association), 2016, 77, 1440-1445.	0.0	0
75	1,8-Cineole Ameliorates Steatosis of Pten Liver Specific KO Mice via Akt Inactivation. International Journal of Molecular Sciences, 2015, 16, 12051-12063.	1.8	27
76	Inter-Anastomosis Drainage Tube Between the Pancreas and Jejunum: A Novel Technique for Preventing Pancreatic Fistula after Pancreaticoduodenectomy. Journal of the American College of Surgeons, 2015, 221, e55-e60.	0.2	9
77	Complicated adult right-sided Bochdalek hernia with Chilaiditi's syndrome: a case report. Surgical Case Reports, 2015, 1, 95.	0.2	11
78	The Eltrombopag antitumor effect on hepatocellular carcinoma. International Journal of Oncology, 2015, 47, 1696-1702.	1.4	21
79	Sphingosine 1-phosphate has anti-apoptotic effect on liver sinusoidal endothelial cells and proliferative effect on hepatocytes in a paracrine manner in human. Hepatology Research, 2015, 45, 1136-1145.	1.8	29
80	Quantity Determination of Magnetic Particles Intravenously Administered to Mice Tissues Using Magnetization Measurements. IEEE Transactions on Magnetics, 2015, 51, 1-6.	1.2	1
81	Novel 3-dimensional virtual hepatectomy simulation combined with real-time deformation. World Journal of Gastroenterology, 2015, 21, 9982.	1.4	41
82	New drug delivery system for liver sinusoidal endothelial cells for ischemia-reperfusion injury. World Journal of Gastroenterology, 2015, 21, 12778.	1.4	10
83	Laparoscopic Inter-sphincteric Resection following Neoadjuvant Imatinib Mesylate Therapy for the Treatment of Rectal GIST with Anal Preservation—A Case Report—. Nihon Rinsho Geka Gakkai Zasshi (Journal of Japan Surgical Association), 2015, 76, 338-343.	0.0	1
84	Therapeutic Experience of Corrosive Esophagitis. Nihon Rinsho Geka Gakkai Zasshi (Journal of Japan Tj ETQqO 0 0 rgBT /Overlock 10 Tf 50	0.0	2
85	A Case of Nonalcoholic Fatty Liver Disease with Hepatic Encephalopathy after Pancreatoduodenectomy, Which Improved Rapidly through Nutritional Care and Pancreatic Enzyme Replacement. Japanese Journal of Gastroenterological Surgery, 2015, 48, 321-327.	0.0	0
86	Two Cases of Primary Retroperitoneal Mature Cystic Teratoma in Adults. Japanese Journal of Gastroenterological Surgery, 2015, 48, 421-428.	0.0	1
87	A Case of Retroperitoneal Abscess Arising from a Perforated Appendiceal Diverticulum Treated by Laparoscopic Appendectomy. Nihon Rinsho Geka Gakkai Zasshi (Journal of Japan Surgical Association), 2015, 76, 2471-2475.	0.0	0
88	Proton beam therapy combined with concurrent chemotherapy for esophageal cancer. Anticancer Research, 2015, 35, 1757-62.	0.5	45
89	Signal Transduction of Platelet-Induced Liver Regeneration and Decrease of Liver Fibrosis. International Journal of Molecular Sciences, 2014, 15, 5412-5425.	1.8	33
90	Mode of swine hepatitis E virus infection and replication in primary human hepatocytes. Journal of General Virology, 2014, 95, 2677-2682.	1.3	13

#	ARTICLE	IF	CITATIONS
91	Characterization of Spinel-Structured Iron Oxide Nanoparticles Synthesized by Heating of $\alpha$ -FeOOH Platelets in Tetra-Ethylene Glycol. <i>Materials Transactions</i> , 2014, 55, 813-817.	0.4	2
92	( $\hat{\sim}$ )-Epigallocatechin-3-gallate suppresses liver metastasis of human colorectal cancer. <i>Oncology Reports</i> , 2014, 31, 625-633.	1.2	36
93	Three-dimensional imaging identified the accessory bile duct in a patient with cholangiocarcinoma. <i>World Journal of Gastroenterology</i> , 2014, 20, 11451.	1.4	21
94	Novel therapy for liver regeneration by increasing the number of platelets. <i>Surgery Today</i> , 2013, 43, 1081-1087.	0.7	23
95	Human platelets promote liver regeneration with Kupffer cells in SCID mice. <i>Journal of Surgical Research</i> , 2013, 180, 62-72.	0.8	30
96	Effects of thrombopoietin on growth of hepatocellular carcinoma: Is thrombopoietin therapy for liver disease safe or not?. <i>Hepatology Research</i> , 2013, 43, 610-620.	1.8	20
97	Platelet Transfusion Improves Liver Function in Patients with Chronic Liver Disease and Cirrhosis. <i>Tohoku Journal of Experimental Medicine</i> , 2013, 229, 213-220.	0.5	45
98	Gene expression profiling of sense and antisense transcripts in liver regeneration by microarray analysis. <i>Biomedical Reports</i> , 2013, 1, 383-388.	0.9	7
99	Hypercobalaminemia Induced by an Energy Drink after Total Gastrectomy: A Case Report. <i>Journal of Rural Medicine: JRM</i> , 2013, 8, 181-185.	0.2	2
100	Human platelets inhibit liver fibrosis in severe combined immunodeficiency mice. <i>World Journal of Gastroenterology</i> , 2013, 19, 5250.	1.4	31
101	Regulation of Signal Transduction and Role of Platelets in Liver Regeneration. <i>International Journal of Hepatology</i> , 2012, 2012, 1-8.	0.4	15
102	Platelet Administration Via the Portal Vein Promotes Liver Regeneration in Rats After 70% Hepatectomy. <i>Annals of Surgery</i> , 2011, 253, 759-763.	2.1	102
103	Platelets prevent acute hepatitis induced by anti- $\epsilon$ fas antibody. <i>Journal of Gastroenterology and Hepatology (Australia)</i> , 2011, 26, 348-355.	1.4	25
104	Platelets prevent acute liver damage after extended hepatectomy in pigs. <i>Journal of Hepato-Biliary-Pancreatic Sciences</i> , 2010, 17, 855-864.	1.4	31
105	Activation of human liver sinusoidal endothelial cell by human platelets induces hepatocyte proliferation. <i>Journal of Hepatology</i> , 2010, 53, 648-654.	1.8	86
106	Heating characteristics of ferromagnetic iron oxide nanoparticles for magnetic hyperthermia. <i>Journal of Applied Physics</i> , 2010, 107, .	1.1	50
107	A Case of Severe Radiation Enteritis caused by Proton Therapy for Hepatocellular Carcinoma. <i>Japanese Journal of Gastroenterological Surgery</i> , 2010, 43, 83-89.	0.0	0
108	Platelets contribute to the reduction of liver fibrosis in mice. <i>Journal of Gastroenterology and Hepatology (Australia)</i> , 2009, 24, 78-89.	1.4	94

#	ARTICLE	IF	CITATIONS
109	Autonomic Regulation of Liver Regeneration After Partial Hepatectomy in Mice. <i>Journal of Surgical Research</i> , 2009, 152, 218-223.	0.8	26
110	Platelets Promote Liver Regeneration under Conditions of Kupffer Cell Depletion after Hepatectomy in Mice. <i>World Journal of Surgery</i> , 2008, 32, 1088-1096.	0.8	54
111	Platelets Strongly Induce Hepatocyte Proliferation with IGF-1 and HGF In Vitro. <i>Journal of Surgical Research</i> , 2008, 145, 279-286.	0.8	115
112	Role of platelets on liver regeneration after 90% hepatectomy in mice. <i>Journal of Hepatology</i> , 2008, 49, 363-372.	1.8	109
113	Single Administration of Thrombopoietin Prevents Progression of Liver Fibrosis and Promotes Liver Regeneration After Partial Hepatectomy in Cirrhotic Rats. <i>Annals of Surgery</i> , 2008, 248, 821-828.	2.1	72
114	Freeze-dried platelets promote hepatocyte proliferation in mice. <i>Cryobiology</i> , 2007, 55, 255-260.	0.3	24
115	Platelets Promote Liver Regeneration in Early Period after Hepatectomy in Mice. <i>World Journal of Surgery</i> , 2007, 31, 808-816.	0.8	161
116	Significance of Ductal Margin Status in Patients Undergoing Surgical Resection for Extrahepatic Cholangiocarcinoma. <i>World Journal of Surgery</i> , 2007, 31, 1788-1796.	0.8	99
117	A CASE OF INGUINAL BLADDER HERNIA. <i>Nihon Rinsho Geka Gakkai Zasshi (Journal of Japan Surgical Association)</i> 107:1431-1434 (2005)	0.0	0
118	Successful liver transplantation from agonal non-heart-beating donors in pigs. <i>Transplant International</i> , 2003, 16, 100-107.	0.8	14
119	Living-donor liver transplantation for homozygous familial hypercholesterolemia from a donor with heterozygous hypercholesterolemia. <i>Transplant International</i> , 2003, 16, 276-279.	0.8	29
120	Portal vein pressure is the key for successful liver transplantation of an extremely small graft in the pig model. <i>Transplant International</i> , 2003, 16, 376-382.	0.8	51
121	Immunological reactions in liver graft perireperfusion in living donor liver transplantation--change of expression of adhesion molecules, deposition of immunoglobulins and cytokine level. <i>Hepato-Gastroenterology</i> , 2003, 50, 1090-6.	0.5	0
122	Decreasing the Epstein-Barr virus load by adjusting the FK506 blood level. <i>Transplant International</i> , 2002, 15, 529-534.	0.8	11
123	Kupffer cells play an important role in the cytokine production and activation of nuclear factors of liver grafts from non-heart-beating donors. <i>Transplant International</i> , 2002, 15, 397-405.	0.8	13
124	Administration of Fresh Frozen Plasma in Hepatectomy Patients.. <i>Nihon Rinsho Geka Gakkai Zasshi (Journal of Japan Surgical Association)</i> , 2002, 63, 2621-2625.	0.0	2
125	Usefulness of quantitative real-time polymerase chain reaction in following up patients with Epstein-Barr virus infection after liver transplantation. <i>Clinical Transplantation</i> , 2000, 14, 308-317.	0.8	34