

Lars Christian Gormsen

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/2463463/publications.pdf>

Version: 2024-02-01

109
papers

3,248
citations

147566

31
h-index

174990

52
g-index

114
all docs

114
docs citations

114
times ranked

4464
citing authors

#	ARTICLE	IF	CITATIONS
1	Prognostic value of myocardial perfusion imaging after first-line coronary computed tomography angiography: A multi-center cohort study. <i>Journal of Cardiovascular Computed Tomography</i> , 2022, 16, 34-40.	0.7	3
2	Myocardial efficiency in patients with different aetiologies and stages of heart failure. <i>European Heart Journal Cardiovascular Imaging</i> , 2022, 23, 328-337.	0.5	8
3	The pathophysiology of Wilson's disease visualized: A human ⁶⁴ Cu PET study. <i>Hepatology</i> , 2022, 75, 1461-1470.	3.6	15
4	Oral lactate slows gastric emptying and suppresses appetite in young males. <i>Clinical Nutrition</i> , 2022, 41, 517-525.	2.3	10
5	Pre-treatment total metabolic tumour volumes in lymphoma: Does quantity matter?. <i>British Journal of Haematology</i> , 2022, 197, 139-155.	1.2	11
6	Incidental ¹⁸ F-FDG Avid Focuses in Palatine Tonsils on PET/CT. <i>Laryngoscope</i> , 2022, 132, 2370-2378.	1.1	1
7	Normal values for ¹⁸ F-FDG uptake in organs and tissues measured by dynamic whole body multiparametric FDG PET in 126 patients. <i>EJNMMI Research</i> , 2022, 12, 15.	1.1	17
8	Clinical feasibility and impact of data-driven respiratory motion compensation studied in 200 whole-body ¹⁸ F-FDG PET/CT scans. <i>EJNMMI Research</i> , 2022, 12, 16.	1.1	6
9	Effects of SGLT2 inhibition on lipid transport in adipose tissue in type 2 diabetes. <i>Endocrine Connections</i> , 2022, 11, .	0.8	15
10	Ketogenic Diet and Cardiac Substrate Metabolism. <i>Nutrients</i> , 2022, 14, 1322.	1.7	12
11	Self-limiting reactive disease mimicking polymyalgia rheumatica following Moderna COVID-19 vaccine. <i>Scandinavian Journal of Rheumatology</i> , 2022, 51, 411-413.	0.6	5
12	Clinical use of cardiac ¹⁸ F-FDG viability PET: a retrospective study of 44 patients undergoing post-test revascularization. <i>International Journal of Cardiovascular Imaging</i> , 2022, 38, 2447-2458.	0.2	1
13	Clinical feasibility and impact of fully automated multiparametric PET imaging using direct Patlak reconstruction: evaluation of 103 dynamic whole-body ¹⁸ F-FDG PET/CT scans. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 2021, 48, 837-850.	3.3	34
14	Hepatic bile acid transport increases in the postprandial state: A functional ¹¹ C-CSar PET/CT study in healthy humans. <i>JHEP Reports</i> , 2021, 3, 100288.	2.6	3
15	Ischemic heart failure mortality is not predicted by cardiac insulin resistance but by diabetes per se and coronary flow reserve: A retrospective dynamic cardiac ¹⁸ F-FDG PET study. <i>Metabolism: Clinical and Experimental</i> , 2021, 123, 154862.	1.5	9
16	Limitations and Pitfalls of FDG-PET/CT in Infection and Inflammation. <i>Seminars in Nuclear Medicine</i> , 2021, 51, 633-645.	2.5	58
17	3-Hydroxybutyrate administration elevates plasma parathyroid hormone in a pilot human randomized, controlled, cross over trial. <i>Bone</i> , 2021, 153, 116166.	1.4	1
18	Cardiac hypoxic resistance and decreasing lactate during maximum apnea in elite breath hold divers. <i>Scientific Reports</i> , 2021, 11, 2545.	1.6	2

#	ARTICLE	IF	CITATIONS
19	SGLT2 Inhibition Does Not Affect Myocardial Fatty Acid Oxidation or Uptake, but Reduces Myocardial Glucose Uptake and Blood Flow in Individuals With Type 2 Diabetes: A Randomized Double-Blind, Placebo-Controlled Crossover Trial. <i>Diabetes</i> , 2021, 70, 800-808.	0.3	32
20	Human skeletal muscle CD90+ fibro-adipogenic progenitors are associated with muscle degeneration in type 2 diabetic patients. <i>Cell Metabolism</i> , 2021, 33, 2201-2214.e10.	7.2	54
21	Comment on: Diagnostic accuracy of ultrasound for detecting large vessel giant cell arteritis using FDG PET/CT as the reference: reply. <i>Rheumatology</i> , 2021, 60, e67-e68.	0.9	0
22	Extreme Hypoxia Causing Brady-Arrhythmias During Apnea in Elite Breath-Hold Divers. <i>Frontiers in Physiology</i> , 2021, 12, 712573.	1.3	2
23	Diagnostic accuracy of ultrasound for detecting large-vessel giant cell arteritis using FDG PET/CT as the reference. <i>Rheumatology</i> , 2020, 59, 2062-2073.	0.9	41
24	Successful Prediction of Positron Emission Tomography-Imaged Metformin Hepatic Uptake Clearance in Humans Using the Quantitative Proteomics-Informed Relative Expression Factor Approach. <i>Drug Metabolism and Disposition</i> , 2020, 48, 1210-1216.	1.7	15
25	Metformin Biodistribution: A Key to Mechanisms of Action?. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2020, 105, .	1.8	14
26	Myocardial Viability Testing by Positron Emission Tomography: Basic Concepts, Mini-Review of the Literature and Experience From a Tertiary PET Center. <i>Seminars in Nuclear Medicine</i> , 2020, 50, 248-259.	2.5	8
27	Patient Preparation and Patient-related Challenges with FDG-PET/CT in Infectious and Inflammatory Disease. <i>PET Clinics</i> , 2020, 15, 125-134.	1.5	5
28	18F-Fluorodeoxyglucose PET/Computed Tomography in the Diagnosis and Monitoring of Giant Cell Arteritis. <i>PET Clinics</i> , 2020, 15, 135-145.	1.5	10
29	Challenging but Clinically Useful: Fluorodeoxyglucose PET/Computed Tomography in Inflammatory and Infectious Diseases. <i>PET Clinics</i> , 2020, 15, xi-xii.	1.5	4
30	Metformin is distributed to tumor tissue in breast cancer patients in vivo: A 11C-metformin PET/CT study. <i>Breast Cancer Research and Treatment</i> , 2020, 181, 107-113.	1.1	3
31	Acute Hyperketonemia Does Not Affect Glucose or Palmitate Uptake in Abdominal Organs or Skeletal Muscle. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2020, 105, 1785-1790.	1.8	7
32	Intravenous and oral copper kinetics, biodistribution and dosimetry in healthy humans studied by [64Cu]copper PET/CT. <i>EJNMMI Radiopharmacy and Chemistry</i> , 2020, 5, 15.	1.8	21
33	PCI of LAD Improved Inferoseptal Perfusion in RCA CTO Patient. <i>Journal of Coronary Artery Disease</i> , 2020, 26, 44-47.	0.1	0
34	Simple dichotomous assessment of cranial artery inflammation by conventional 18F-FDG PET/CT shows high accuracy for the diagnosis of giant cell arteritis: a case-control study. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 2019, 46, 184-193.	3.3	81
35	Danish study of Non-Invasive testing in Coronary Artery Disease 2 (Dan-NICAD 2): Study design for a controlled study of diagnostic accuracy. <i>American Heart Journal</i> , 2019, 215, 114-128.	1.2	13
36	Value of detecting bone marrow involvement in Hodgkin lymphoma -Response to Adams and Kwee. <i>British Journal of Haematology</i> , 2019, 187, 396-397.	1.2	0

#	ARTICLE	IF	CITATIONS
37	A comparative study of standardized quantitative and visual assessment for predicting tumor volume and outcome in newly diagnosed diffuse large B-cell lymphoma staged with 18F-FDG PET/CT. <i>EJNMMI Research</i> , 2019, 9, 36.	1.1	9
38	Focal skeletal ¹⁸F-FDG uptake indicates poor prognosis in ¹⁸F-FDG PET/CT regardless of extent and first-line chemotherapy. <i>British Journal of Haematology</i> , 2019, 186, 431-439.	1.2	8
39	Cardiovascular Effects of Treatment With the Ketone Body 3-Hydroxybutyrate in Chronic Heart Failure Patients. <i>Circulation</i> , 2019, 139, 2129-2141.	1.6	289
40	Hepatic exposure of metformin in patients with non-alcoholic fatty liver disease. <i>British Journal of Clinical Pharmacology</i> , 2019, 85, 1761-1770.	1.1	19
41	Metformin increases endogenous glucose production in non-diabetic individuals and individuals with recent-onset type 2 diabetes. <i>Diabetologia</i> , 2019, 62, 1251-1256.	2.9	43
42	Acetylcholinesterase-associated inflammation in patients with giant cell arteritis. Evaluation by histology and 11C-donepezil PET/CT. <i>Clinical and Experimental Rheumatology</i> , 2019, 37 Suppl 117, 20-25.	0.4	0
43	Three days of high-dose glucocorticoid treatment attenuates large-vessel 18F-FDG uptake in large-vessel giant cell arteritis but with a limited impact on diagnostic accuracy. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 2018, 45, 1119-1128.	3.3	159
44	Metformin does not affect postabsorptive hepatic free fatty acid uptake, oxidation or resecretion in humans: A 3-month placebo-controlled clinical trial in patients with type 2 diabetes and healthy controls. <i>Diabetes, Obesity and Metabolism</i> , 2018, 20, 1435-1444.	2.2	18
45	PET/CT for Staging; Past, Present, and Future. <i>Seminars in Nuclear Medicine</i> , 2018, 48, 4-16.	2.5	48
46	Prognostic Value of Risk Factors, Calcium Score, Coronary CTA, Myocardial Perfusion Imaging, and Invasive Coronary Angiography in Kidney Transplantation Candidates. <i>JACC: Cardiovascular Imaging</i> , 2018, 11, 842-854.	2.3	39
47	Classical Hodgkin Lymphoma Presenting with Severe, Recurrent Hypothermic Episodes. <i>Case Reports in Hematology</i> , 2018, 2018, 1-3.	0.3	0
48	Ketone Body Infusion Increases Circulating Erythropoietin and Bone Marrow Glucose Uptake. <i>Diabetes Care</i> , 2018, 41, e152-e154.	4.3	11
49	Imaging in Pharmacogenetics. <i>Advances in Pharmacology</i> , 2018, 83, 95-107.	1.2	2
50	Concomitant Polymyalgia Rheumatica and Large-Vessel Vasculitis Visualized on 18F-FDG PET/CT. <i>Diagnostics</i> , 2018, 8, 27.	1.3	6
51	Metformin targets brown adipose tissue in vivo and reduces oxygen consumption in vitro. <i>Diabetes, Obesity and Metabolism</i> , 2018, 20, 2264-2273.	2.2	35
52	Regional cerebral effects of ketone body infusion with 3-hydroxybutyrate in humans: Reduced glucose uptake, unchanged oxygen consumption and increased blood flow by positron emission tomography. A randomized, controlled trial. <i>PLoS ONE</i> , 2018, 13, e0190556.	1.1	59
53	Quantitative PET of liver functions. <i>American Journal of Nuclear Medicine and Molecular Imaging</i> , 2018, 8, 73-85.	1.0	6
54	Clinical Use of Coronary CTA-Derived FFR for Decision-Making in Stable CAD. <i>JACC: Cardiovascular Imaging</i> , 2017, 10, 541-550.	2.3	126

#	ARTICLE	IF	CITATIONS
55	Ketone Body Infusion With 3- ¹¹ C-Hydroxybutyrate Reduces Myocardial Glucose Uptake and Increases Blood Flow in Humans: A Positron Emission Tomography Study. <i>Journal of the American Heart Association</i> , 2017, 6, .	1.6	144
56	Increased VLDL-TG Fatty Acid Storage in Skeletal Muscle in Men With Type 2 Diabetes. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2017, 102, 831-839.	1.8	14
57	Myocardial Perfusion Imaging Versus Computed Tomography Angiography—Derived Fractional Flow Reserve Testing in Stable Patients With Intermediate-Range Coronary Lesions: Influence on Downstream Diagnostic Workflows and Invasive Angiography Findings. <i>Journal of the American Heart Association</i> , 2017, 6, .	1.6	23
58	Using FDG-PET/CT to Detect Vascular Inflammation in Patients with Psoriasis: Where to Look? And for What??. <i>Journal of Investigative Dermatology</i> , 2017, 137, 2236-2237.	0.3	2
59	Cholinergic PET imaging in infections and inflammation using 11C-donepezil and 18F-FEOBV. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 2017, 44, 449-458.	3.3	14
60	Whole-Body Biodistribution, Dosimetry, and Metabolite Correction of [¹¹ C]Palmitate: A PET Tracer for Imaging of Fatty Acid Metabolism. <i>Molecular Imaging</i> , 2017, 16, 153601211773448.	0.7	23
61	Coronary Calcium Score May Replace Cardiovascular Risk Factors as Primary Risk Stratification Tool Before Kidney Transplantation. <i>Transplantation</i> , 2016, 100, 2177-2187.	0.5	11
62	In Vivo Imaging of Human ¹¹ C-Metformin in Peripheral Organs: Dosimetry, Biodistribution, and Kinetic Analyses. <i>Journal of Nuclear Medicine</i> , 2016, 57, 1920-1926.	2.8	106
63	A dual tracer ⁶⁸ Ga-DOTANOC PET/CT and ¹⁸ F-FDG PET/CT pilot study for detection of cardiac sarcoidosis. <i>EJNMMI Research</i> , 2016, 6, 52.	1.1	112
64	Reverse Mismatch Pattern in Cardiac ¹⁸ F-FDG Viability PET/CT Is Not Associated With Poor Outcome of Revascularization. <i>Clinical Nuclear Medicine</i> , 2016, 41, e428-e435.	0.7	8
65	The Authors Reply:. <i>JACC: Cardiovascular Imaging</i> , 2016, 9, 329-330.	2.3	0
66	[¹¹ C]-Labeled Metformin Distribution in the Liver and Small Intestine Using Dynamic Positron Emission Tomography in Mice Demonstrates Tissue-Specific Transporter Dependency. <i>Diabetes</i> , 2016, 65, 1724-1730.	0.3	69
67	The Combination of Pixantrone, Etoposide, Bendamustine and, in CD20+ Tumors, Rituximab (PREBEN) Shows Promising Feasibility/Efficacy in Heavily Pre-Treated Aggressive Lymphomas of B- and T-Cell Phenotype - Results of the Pre-Trial Experience Leading to a Nordic Phase 1/2 Study (the PREBEN Trial). <i>Blood</i> , 2016, 128, 1782-1782.	0.6	10
68	Effect of Recent Contrast-Enhanced CT and Patient Age on Image Quality of Thyroid Scintigraphy. <i>Clinical Nuclear Medicine</i> , 2015, 40, 297-302.	0.7	6
69	Lean body mass, not FFA, predicts VLDL-TG secretion rate in healthy men. <i>Obesity</i> , 2015, 23, 1379-1385.	1.5	7
70	Utility of interim and end-of-treatment PET/CT in peripheral T-cell lymphomas: A review of 124 patients. <i>American Journal of Hematology</i> , 2015, 90, 975-980.	2.0	51
71	Noninvasive Fractional Flow Reserve for the Diagnosis of Lesion-specific Ischemia: A Case Example. <i>Journal of Clinical Imaging Science</i> , 2015, 5, 3.	0.4	1
72	Diagnostic Performance of Coronary CT Angiography and Myocardial Perfusion Imaging in Kidney Transplantation Candidates. <i>JACC: Cardiovascular Imaging</i> , 2015, 8, 553-562.	2.3	85

#	ARTICLE	IF	CITATIONS
73	Impact of radiation dose and standardized uptake value of (18)FDG PET on nodal control in locally advanced cervical cancer. <i>Acta Oncologica</i> , 2015, 54, 1567-1573.	0.8	47
74	Using positron emission tomography to study human ketone body metabolism: A review. <i>Metabolism: Clinical and Experimental</i> , 2014, 63, 1375-1384.	1.5	19
75	Active ulcerative colitis diagnosed by 18F-FDG PET/CT in an anti-TNF alpha treated patient with no visible luminal lesions on colonoscopy. <i>International Journal of Colorectal Disease</i> , 2014, 29, 643-644.	1.0	5
76	Impact of ¹⁸ F-fluorodeoxyglucose positron emission tomography/computed tomography staging in newly diagnosed classical Hodgkin lymphoma: fewer cases with stage I disease and more with skeletal involvement. <i>Leukemia and Lymphoma</i> , 2014, 55, 2349-2355.	0.6	23
77	Acute and Short-term Chronic Testosterone Fluctuation Effects on Glucose Homeostasis, Insulin Sensitivity, and Adiponectin: A Randomized, Double-Blind, Placebo-Controlled, Crossover Study. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2014, 99, E1088-E1096.	1.8	19
78	Preliminary Clinical Experience on the Efficacy and Feasibility of a New Combination Regimen Consisting of Pixantrone, Etoposide, and Bendamustine with or without the Addition of Rituximab in Patients with Relapsed/Refractory Aggressive Non-Hodgkin Lymphomas. <i>Blood</i> , 2014, 124, 5435-5435.	0.6	6
79	Diffusely Increased Bone Marrow 18F-FDG Uptake Is an Independent Predictor of Focal Bone Lesions in Patients with Newly Diagnosed Classical Hodgkin Lymphoma. <i>Blood</i> , 2014, 124, 5360-5360.	0.6	0
80	Complete somatostatin-induced insulin suppression combined with heparin loading does not significantly suppress myocardial 18F-FDG uptake in patients with suspected cardiac sarcoidosis. <i>Journal of Nuclear Cardiology</i> , 2013, 20, 1108-1115.	1.4	23
81	Independent Effects of Testosterone on Lipid Oxidation and VLDL-TG Production. <i>Diabetes</i> , 2013, 62, 1409-1416.	0.3	26
82	The International Prognostic Index Predicts Outcome In Patients With Untreated Nodal Peripheral T-Cell Lymphomas Staged With PET/CT. <i>Blood</i> , 2013, 122, 5077-5077.	0.6	0
83	Estradiol acutely inhibits whole body lipid oxidation and attenuates lipolysis in subcutaneous adipose tissue: a randomized, placebo-controlled study in postmenopausal women. <i>European Journal of Endocrinology</i> , 2012, 167, 543-551.	1.9	34
84	Impaired Insulin-Mediated Antilipolysis and Lactate Release in Adipose Tissue of Upper Body Obese Women. <i>Obesity</i> , 2012, 20, 57-64.	1.5	14
85	Bile acid malabsorption investigated by selenium-75-homocholeic acid taurine (75SeHCAT) scans: Causes and treatment responses to cholestyramine in 298 patients with chronic watery diarrhoea. <i>European Journal of Internal Medicine</i> , 2011, 22, e137-e140.	1.0	62
86	Increased VLDL-Triglyceride Secretion Precedes Impaired Control of Endogenous Glucose Production in Obese, Normoglycemic Men. <i>Diabetes</i> , 2011, 60, 2257-2264.	0.3	37
87	Basal and Insulin Mediated VLDL-Triglyceride Kinetics in Type 2 Diabetic Men. <i>Diabetes</i> , 2011, 60, 88-96.	0.3	48
88	Similar VLDL-TG Storage in Visceral and Subcutaneous Fat in Obese and Lean Women. <i>Diabetes</i> , 2011, 60, 2787-2791.	0.3	12
89	Effects of exercise on VLDL-triglyceride oxidation and turnover. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2011, 300, E939-E944.	1.8	46
90	Reply to Russell: VLDL-TG kinetics: how to interpret a dual-isotope study. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2011, 300, E253-E253.	1.8	0

#	ARTICLE	IF	CITATIONS
91	Postabsorptive VLDL-TG Fatty Acid Storage in Adipose Tissue in Lean and Obese Women. <i>Obesity</i> , 2010, 18, 1304-1311.	1.5	18
92	Acute estrogen exposure does not affect basal very low-density lipoprotein-triglyceride production or oxidation in postmenopausal women. <i>European Journal of Endocrinology</i> , 2010, 163, 421-426.	1.9	6
93	Decreased Lipid Intermediate Levels and Lipid Oxidation Rates Despite Normal Lipolysis in Patients with Hypothyroidism. <i>Thyroid</i> , 2010, 20, 843-849.	2.4	19
94	Reduced Expression of Uncoupling Protein 2 in Adipose Tissue in Patients with Hypothyroidism. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2010, 95, 3537-3541.	1.8	8
95	Exercise and Fasting Activate Growth Hormone-Dependent Myocellular Signal Transducer and Activator of Transcription-5b Phosphorylation and Insulin-Like Growth Factor-I Messenger Ribonucleic Acid Expression in Humans. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2010, 95, E64-E68.	1.8	25
96	Free Fatty Acids Inhibit Growth Hormone/Signal Transducer and Activator of Transcription-5 Signaling in Human Muscle: A Potential Feedback Mechanism. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2009, 94, 2204-2207.	1.8	21
97	Impact of body composition on very-low-density lipoprotein-triglycerides kinetics. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2009, 296, E165-E173.	1.8	28
98	VLDL-TG kinetics: a dual isotope study for quantifying VLDL-TG pool size, production rates, and fractional oxidation in humans. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2009, 297, E1324-E1330.	1.8	27
99	Ghrelin Infusion in Humans Induces Acute Insulin Resistance and Lipolysis Independent of Growth Hormone Signaling. <i>Diabetes</i> , 2008, 57, 3205-3210.	0.3	138
100	Growth Hormone Signaling in Vivo in Human Muscle and Adipose Tissue: Impact of Insulin, Substrate Background, and Growth Hormone Receptor Blockade. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2008, 93, 2842-2850.	1.8	58
101	Serum Ghrelin Levels Are Increased in Hypothyroid Patients and Become Normalized by L-Thyroxine Treatment. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2008, 93, 2277-2280.	1.8	36
102	Growth hormone-induced insulin resistance is associated with increased intramyocellular triglyceride content but unaltered VLDL-triglyceride kinetics. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2007, 292, E920-E927.	1.8	84
103	Simvastatin Reduces Plasma Osteoprotegerin in Type 2 Diabetic Patients With Microalbuminuria. <i>Diabetes Care</i> , 2007, 30, 3122-3124.	4.3	33
104	Constant intravenous ghrelin infusion in healthy young men: clinical pharmacokinetics and metabolic effects. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2007, 292, E1829-E1836.	1.8	87
105	Effects of free fatty acids, growth hormone and growth hormone receptor blockade on serum ghrelin levels in humans. <i>Clinical Endocrinology</i> , 2007, 66, 641-645.	1.2	26
106	Measuring VLDL-triglyceride turnover in humans using ex vivo-prepared VLDL tracer. <i>Journal of Lipid Research</i> , 2006, 47, 99-106.	2.0	32
107	Free fatty acids decrease circulating ghrelin concentrations in humans. <i>European Journal of Endocrinology</i> , 2006, 154, 667-673.	1.9	41
108	Energy expenditure, insulin, and VLDL-triglyceride production in humans. <i>Journal of Lipid Research</i> , 2006, 47, 2325-2332.	2.0	34

#	ARTICLE	IF	CITATIONS
109	Thyroid hormone increases mannan-binding lectin levels. European Journal of Endocrinology, 2005, 153, 643-649.	1.9	22