

# Troy C Lund

## List of Publications by Year in descending order

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112  
papers

3,427  
citations

159585

30  
h-index

168389

53  
g-index

114  
all docs

114  
docs citations

114  
times ranked

5086  
citing authors

#	ARTICLE	IF	CITATIONS
1	Hematopoietic Stem-Cell Gene Therapy for Cerebral Adrenoleukodystrophy. <i>New England Journal of Medicine</i> , 2017, 377, 1630-1638.	27.0	412
2	Outcomes after allogeneic hematopoietic cell transplantation for childhood cerebral adrenoleukodystrophy: the largest single-institution cohort report. <i>Blood</i> , 2011, 118, 1971-1978.	1.4	236
3	Evaluation of TCR Gene Editing Achieved by TALENs, CRISPR/Cas9, and megaTAL Nucleases. <i>Molecular Therapy</i> , 2016, 24, 570-581.	8.2	168
4	Genomic landscape of paediatric adrenocortical tumours. <i>Nature Communications</i> , 2015, 6, 6302.	12.8	166
5	Outcomes after Hematopoietic Stem Cell Transplantation for Children with I-Cell Disease. <i>Biology of Blood and Marrow Transplantation</i> , 2014, 20, 1847-1851.	2.0	150
6	Long-term outcomes after allogeneic hematopoietic stem cell transplantation for metachromatic leukodystrophy: the largest single-institution cohort report. <i>Orphanet Journal of Rare Diseases</i> , 2015, 10, 94.	2.7	128
7	Migration of cardiomyocytes is essential for heart regeneration in zebrafish. <i>Development (Cambridge)</i> , 2012, 139, 4133-4142.	2.5	125
8	Hematopoietic stem cell transplantation for infantile osteopetrosis. <i>Blood</i> , 2015, 126, 270-276.	1.4	89
9	Survival and Functional Outcomes in Boys with Cerebral Adrenoleukodystrophy with and without Hematopoietic Stem Cell Transplantation. <i>Biology of Blood and Marrow Transplantation</i> , 2019, 25, 538-548.	2.0	81
10	Patient-Specific Naturally Gene-Reverted Induced Pluripotent Stem Cells in Recessive Dystrophic Epidermolysis Bullosa. <i>Journal of Investigative Dermatology</i> , 2014, 134, 1246-1254.	0.7	70
11	iTRAQ Is a Useful Method To Screen for Membrane-Bound Proteins Differentially Expressed in Human Natural Killer Cell Types. <i>Journal of Proteome Research</i> , 2007, 6, 644-653.	3.7	67
12	The blood supply in Sub-Saharan Africa: Needs, challenges, and solutions. <i>Transfusion and Apheresis Science</i> , 2013, 49, 416-421.	1.0	66
13	Expression of Telomerase and Telomere Length Are Unaffected by either Age or Limb Regeneration in <i>Danio rerio</i> . <i>PLoS ONE</i> , 2009, 4, e7688.	2.5	65
14	Advances in umbilical cord blood manipulationâ€”from niche to bedside. <i>Nature Reviews Clinical Oncology</i> , 2015, 12, 163-174.	27.6	62
15	A Randomized Trial of Phototherapy with Filtered Sunlight in African Neonates. <i>New England Journal of Medicine</i> , 2015, 373, 1115-1124.	27.0	59
16	A report on state-wide implementation of newborn screening for X-linked Adrenoleukodystrophy. <i>American Journal of Medical Genetics, Part A</i> , 2019, 179, 1205-1213.	1.2	56
17	Long-term outcomes of systemic therapies for Hurler syndrome: an international multicenter comparison. <i>Genetics in Medicine</i> , 2018, 20, 1423-1429.	2.4	54
18	Enzyme replacement therapy prior to haematopoietic stem cell transplantation in Mucopolysaccharidosis Type I: 10year combined experience of 2 centres. <i>Molecular Genetics and Metabolism</i> , 2016, 117, 373-377.	1.1	51

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19	Mucopolysaccharidosis Type I: A Review of the Natural History and Molecular Pathology. <i>Cells</i> , 2020, 9, 1838.	4.1	48
20	Bone Marrow Stromal and Vascular Smooth Muscle Cells Have Chemosensory Capacity via Bitter Taste Receptor Expression. <i>PLoS ONE</i> , 2013, 8, e58945.	2.5	48
21	Stromal cell-derived factor-1 and hematopoietic cell homing in an adult zebrafish model of hematopoietic cell transplantation. <i>Blood</i> , 2011, 118, 766-774.	1.4	41
22	<sc>MRI</sc> surveillance of boys with X-linked adrenoleukodystrophy identified by newborn screening: Meta-analysis and consensus guidelines. <i>Journal of Inherited Metabolic Disease</i> , 2021, 44, 728-739.	3.6	39
23	Elevated Cerebral Spinal Fluid Cytokine Levels in Boys with Cerebral Adrenoleukodystrophy Correlates with MRI Severity. <i>PLoS ONE</i> , 2012, 7, e32218.	2.5	39
24	Vitamin D Insufficiency Is Common in Ugandan Children and Is Associated with Severe Malaria. <i>PLoS ONE</i> , 2014, 9, e113185.	2.5	37
25	Mucopolysaccharidosis Type I: Current Treatments, Limitations, and Prospects for Improvement. <i>Biomolecules</i> , 2021, 11, 189.	4.0	36
26	Hematopoietic Stem Cell Transplantation in the Leukodystrophies: A Systematic Review of the Literature. <i>Neuropediatrics</i> , 2014, 45, 169-174.	0.6	35
27	Intravenous Administration of Stable-Labeled N-Acetylcysteine Demonstrates an Indirect Mechanism for Boosting Glutathione and Improving Redox Status. <i>Journal of Pharmaceutical Sciences</i> , 2015, 104, 2619-2626.	3.3	34
28	Telomere shortening in diaphragm and tibialis anterior muscles of aged mdx mice. <i>Muscle and Nerve</i> , 2007, 36, 387-390.	2.2	33
29	Intensity of MRI Gadolinium Enhancement in Cerebral Adrenoleukodystrophy: A Biomarker for Inflammation and Predictor of Outcome following Transplantation in Higher Risk Patients. <i>American Journal of Neuroradiology</i> , 2016, 37, 367-372.	2.4	33
30	Humanized zebrafish enhance human hematopoietic stem cell survival and promote acute myeloid leukemia clonal diversity. <i>Haematologica</i> , 2020, 105, 2391-2399.	3.5	33
31	Chitotriosidase as a biomarker of cerebral adrenoleukodystrophy. <i>Journal of Neuroinflammation</i> , 2011, 8, 144.	7.2	32
32	Cerebral Spinal Fluid levels of Cytokines are elevated in Patients with Metachromatic Leukodystrophy. <i>Scientific Reports</i> , 2016, 6, 24579.	3.3	31
33	Allele-Level HLA Matching Impacts Key Outcomes Following Umbilical Cord Blood Transplantation for Inherited Metabolic Disorders. <i>Biology of Blood and Marrow Transplantation</i> , 2017, 23, 119-125.	2.0	31
34	Assessment of blood levels of heavy metals including lead and manganese in healthy children living in the Katanga settlement of Kampala, Uganda. <i>BMC Public Health</i> , 2018, 18, 717.	2.9	30
35	Granulocyte colony-stimulating factor mobilized CFU-F can be found in the peripheral blood but have limited expansion potential. <i>Haematologica</i> , 2008, 93, 908-912.	3.5	29
36	Impact of Long-Term Cryopreservation on Single Umbilical Cord Blood Transplantation Outcomes. <i>Biology of Blood and Marrow Transplantation</i> , 2015, 21, 50-54.	2.0	29

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37	Cerebrospinal Fluid Matrix Metalloproteinases Are Elevated in Cerebral Adrenoleukodystrophy and Correlate with MRI Severity and Neurologic Dysfunction. <i>PLoS ONE</i> , 2012, 7, e50430.	2.5	28
38	Second allogeneic hematopoietic cell transplantation for graft failure: Poor outcomes for neutropenic graft failure. <i>American Journal of Hematology</i> , 2015, 90, 892-896.	4.1	27
39	Hematopoietic Cell Transplant-Related Toxicities and Mortality in Frail Recipients. <i>Biology of Blood and Marrow Transplantation</i> , 2019, 25, 2454-2460.	2.0	27
40	Elevated cerebral spinal fluid biomarkers in children with mucopolysaccharidosis I-H. <i>Scientific Reports</i> , 2016, 6, 38305.	3.3	25
41	Progression of Hip Dysplasia in Mucopolysaccharidosis Type I Hurler After Successful Hematopoietic Stem Cell Transplantation. <i>Journal of Bone and Joint Surgery - Series A</i> , 2016, 98, 386-395.	3.0	25
42	Intrathecal enzyme replacement for Hurler syndrome: biomarker association with neurocognitive outcomes. <i>Genetics in Medicine</i> , 2019, 21, 2552-2560.	2.4	25
43	Treatment of CSF1R-Related Leukoencephalopathy: Breaking New Ground. <i>Movement Disorders</i> , 2021, 36, 2901-2909.	3.9	25
44	Adult-Onset Leukoencephalopathy With Axonal Spheroids and Pigmented Glia: Review of Clinical Manifestations as Foundations for Therapeutic Development. <i>Frontiers in Neurology</i> , 2021, 12, 788168.	2.4	24
45	A model of glucose-6-phosphate dehydrogenase deficiency in the zebrafish. <i>Experimental Hematology</i> , 2013, 41, 697-710.e2.	0.4	22
46	Successful donor engraftment and repair of the blood-brain barrier in cerebral adrenoleukodystrophy. <i>Blood</i> , 2019, 133, 1378-1381.	1.4	20
47	Glucose-6-Phosphate Dehydrogenase Deficiency in Nigerian Children. <i>PLoS ONE</i> , 2013, 8, e68800.	2.5	20
48	Mesenchymal stromal cells from donors varying widely in age are of equal cellular fitness after in vitro expansion under hypoxic conditions. <i>Cytotherapy</i> , 2010, 12, 971-981.	0.7	18
49	Differences in MPS I and MPS II Disease Manifestations. <i>International Journal of Molecular Sciences</i> , 2021, 22, 7888.	4.1	18
50	Filtered sunlight versus intensive electric powered phototherapy in moderate-to-severe neonatal hyperbilirubinaemia: a randomised controlled non-inferiority trial. <i>The Lancet Global Health</i> , 2018, 6, e1122-e1131.	6.3	15
51	Effect of Radiation Dose-Rate on Hematopoietic Cell Engraftment in Adult Zebrafish. <i>PLoS ONE</i> , 2013, 8, e73745.	2.5	14
52	A Functional Bioluminescent Zebrafish Screen for Enhancing Hematopoietic Cell Homing. <i>Stem Cell Reports</i> , 2017, 8, 177-190.	4.8	14
53	The Role of Hematopoietic Cell Transplant in the Glycoprotein Diseases. <i>Cells</i> , 2020, 9, 1411.	4.1	14
54	sdf1 Expression Reveals a Source of Perivascular-Derived Mesenchymal Stem Cells in Zebrafish. <i>Stem Cells</i> , 2014, 32, 2767-2779.	3.2	13

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55	Maternal Instruction About Jaundice and the Incidence of Acute Bilirubin Encephalopathy in Nigeria. <i>Journal of Pediatrics</i> , 2020, 221, 47-54.e4.	1.8	13
56	PCR-Based Allelic Discrimination for Glucose-6-Phosphate Dehydrogenase (G6PD) Deficiency in Ugandan Umbilical Cord Blood. <i>Pediatric Hematology and Oncology</i> , 2014, 31, 68-75.	0.8	12
57	Association Between the Magnitude of Intravenous Busulfan Exposure and Development of Hepatic Veno-Occlusive Disease in Children and Young Adults Undergoing Myeloablative Allogeneic Hematopoietic Cell Transplantation. <i>Transplantation and Cellular Therapy</i> , 2022, 28, 196-202.	1.2	12
58	Prevalence of glucose-6-phosphate dehydrogenase deficiency in Cameroonian blood donors. <i>BMC Research Notes</i> , 2019, 12, 195.	1.4	11
59	Cerebral adrenoleukodystrophy is associated with loss of tolerance to profilin. <i>European Journal of Immunology</i> , 2019, 49, 947-953.	2.9	11
60	Clinical trial of laronidase in Hurler syndrome after hematopoietic cell transplantation. <i>Pediatric Research</i> , 2020, 87, 104-111.	2.3	11
61	Reduced-Toxicity (BuFlu) Conditioning Is Better Tolerated but Has a Higher Second Transplantation Rate Compared to Myeloablative Conditioning (BuCy) in Children with Inherited Metabolic Disorders. <i>Biology of Blood and Marrow Transplantation</i> , 2020, 26, 486-492.	2.0	11
62	Neurocognitive benchmarks following transplant for emerging cerebral adrenoleukodystrophy. <i>Neurology</i> , 2020, 95, e591-e600.	1.1	11
63	Hematopoietic stem cell transplant for lysosomal storage diseases. <i>Pediatric Endocrinology Reviews</i> , 2013, 11 Suppl 1, 91-8.	1.2	11
64	Fatal Myocarditis Associated With HHV-6 Following Immunosuppression in Two Children. <i>Pediatrics</i> , 2016, 137, .	2.1	10
65	Biochemical and clinical response after umbilical cord blood transplant in a boy with early childhood-onset beta-mannosidosis. <i>Molecular Genetics &amp; Genomic Medicine</i> , 2019, 7, e00712.	1.2	10
66	Association between APOE4 and biomarkers in cerebral adrenoleukodystrophy. <i>Scientific Reports</i> , 2019, 9, 7858.	3.3	10
67	An Exploratory Analysis of Mitochondrial Haplotypes and Allogeneic Hematopoietic Cell Transplantation Outcomes. <i>Biology of Blood and Marrow Transplantation</i> , 2015, 21, 81-88.	2.0	9
68	Late Mortality after Allogeneic Blood or Marrow Transplantation for Inborn Errors of Metabolism: A Report from the Blood or Marrow Transplant Survivor Study-2 (BMTSS-2). <i>Biology of Blood and Marrow Transplantation</i> , 2019, 25, 328-334.	2.0	9
69	Consensus opinion on immune-mediated cytopenias after hematopoietic cell transplant for inherited metabolic disorders. <i>Bone Marrow Transplantation</i> , 2021, 56, 1238-1247.	2.4	9
70	TP53 Modulates Oxidative Stress in Gata1 + Erythroid Cells. <i>Stem Cell Reports</i> , 2017, 8, 360-372.	4.8	8
71	White matter alteration and cerebellar atrophy are hallmarks of brain MRI in alpha-mannosidosis. <i>Molecular Genetics and Metabolism</i> , 2021, 132, 189-197.	1.1	8
72	Quantitative Proteomics of Vestibular Schwannoma Cerebrospinal Fluid. <i>Otolaryngology - Head and Neck Surgery</i> , 2016, 154, 902-906.	1.9	7

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73	Dermatopontin in Bone Marrow Extracellular Matrix Regulates Adherence but Is Dispensable for Murine Hematopoietic Cell Maintenance. <i>Stem Cell Reports</i> , 2017, 9, 770-778.	4.8	7
74	Post-transplant adaptive function in childhood cerebral adrenoleukodystrophy. <i>Annals of Clinical and Translational Neurology</i> , 2018, 5, 252-261.	3.7	7
75	Post-transplant laronidase augmentation for children with Hurler syndrome: biochemical outcomes. <i>Scientific Reports</i> , 2019, 9, 14105.	3.3	7
76	Volume of Gadolinium Enhancement and Successful Repair of the Blood-Brain Barrier in Cerebral Adrenoleukodystrophy. <i>Biology of Blood and Marrow Transplantation</i> , 2020, 26, 1894-1899.	2.0	7
77	Evaluation of Neurofilament Light Chain as a Biomarker of Neurodegeneration in X-Linked Childhood Cerebral Adrenoleukodystrophy. <i>Cells</i> , 2022, 11, 913.	4.1	7
78	Markers of oxidative stress in umbilical cord blood from G6PD deficient African newborns. <i>PLoS ONE</i> , 2017, 12, e0172980.	2.5	6
79	Hematopoietic cell transplantation for severe MPS I in the first six months of life: The heart of the matter. <i>Molecular Genetics and Metabolism</i> , 2019, 126, 117-120.	1.1	6
80	Failure of intrathecal allogeneic mesenchymal stem cells to halt progressive demyelination in two boys with cerebral adrenoleukodystrophy. <i>Stem Cells Translational Medicine</i> , 2020, 9, 554-558.	3.3	6
81	Outcome After Cord Blood Transplantation Using Busulfan Pharmacokinetics-Targeted Myeloablative Conditioning for Hurler Syndrome. <i>Transplantation and Cellular Therapy</i> , 2021, 27, 91.e1-91.e4.	1.2	6
82	Zebrafish stromal cells have endothelial properties and support hematopoietic cells. <i>Experimental Hematology</i> , 2012, 40, 61-70.e1.	0.4	5
83	Pediatric multiple myeloma. <i>Blood</i> , 2017, 129, 395-395.	1.4	5
84	Abnormal polyamine metabolism is unique to the neuropathic forms of MPS: potential for biomarker development and insight into pathogenesis. <i>Human Molecular Genetics</i> , 2017, 26, 3837-3849.	2.9	5
85	Inappropriate cathepsin K secretion promotes its enzymatic activation driving heart and valve malformation. <i>JCI Insight</i> , 2020, 5, .	5.0	5
86	Umbilical Cord Blood Expansion: Are We There Yet?. <i>Biology of Blood and Marrow Transplantation</i> , 2018, 24, 1311-1312.	2.0	4
87	Impact of Frailty on Hematopoietic Cell on Early Transplant Outcomes in Older Recipients. <i>Blood</i> , 2015, 126, 388-388.	1.4	4
88	G-CSF Mobilized Human Mesenchymal Stem Cells Are Found in the Peripheral Blood and Have Telomere Limited Growth Potential.. <i>Blood</i> , 2006, 108, 4246-4246.	1.4	4
89	Hematopoietic stem cell transplant for Hurler syndrome: does using bone marrow or umbilical cord blood make a difference?. <i>Blood Advances</i> , 2022, 6, 6023-6027.	5.2	4
90	Cadherin 17 mutation associated with leaky severe combined immune deficiency is corrected by HSCT. <i>Blood Advances</i> , 2017, 1, 2083-2087.	5.2	3

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91	Traditional African remedies induce hemolysis in a glucose-6-phosphatase deficient zebrafish model. <i>Scientific Reports</i> , 2020, 10, 19172.	3.3	3
92	Differential outcomes for frontal versus posterior demyelination in childhood cerebral adrenoleukodystrophy. <i>Journal of Inherited Metabolic Disease</i> , 2021, 44, 1434-1440.	3.6	3
93	The Changing Patterns of Graft Failure in MPS1H, Hurler Syndrome: A Review of 30-Years Experience. <i>Blood</i> , 2016, 128, 4700-4700.	1.4	3
94	Primary Adrenal Insufficiency in a Boy with Type I Diabetes: The Importance of Considering X-linked Adrenoleukodystrophy. <i>Journal of the Endocrine Society</i> , 2022, 6, bvac039.	0.2	3
95	Neonatal Jaundice: Knowledge and Practices of Healthcare Providers and Trainees in Southwest Nigeria. <i>American Journal of Tropical Medicine and Hygiene</i> , 2022, 107, 328-335.	1.4	3
96	An irradiated marrow niche reveals a small non-collagenous protein mediator of homing, dermatopontin. <i>Blood Advances</i> , 2021, 5, 3609-3622.	5.2	2
97	Hematopoietic cell transplantation for sialidosis type I. <i>Molecular Genetics and Metabolism Reports</i> , 2022, 30, 100832.	1.1	2
98	Isoprostanoid Plasma Levels Are Relevant to Cerebral Adrenoleukodystrophy Disease. <i>Life</i> , 2022, 12, 146.	2.4	2
99	Isokinetic muscle strength differences in patients with mucopolysaccharidosis I, II, and VI. <i>Journal of Pediatric Rehabilitation Medicine</i> , 2014, 7, 353-360.	0.5	1
100	Hypogammaglobulinemia in sub-Saharan Africa: a case report and review of the literature. <i>African Health Sciences</i> , 2015, 15, 299.	0.7	1
101	Fast, sensitive method for trisaccharide biomarker detection in mucopolysaccharidosis type 1. <i>Scientific Reports</i> , 2018, 8, 3681.	3.3	1
102	Dysostosis Multiplex in Human Mucopolysaccharidosis Type 1 H and in Animal Models of the Disease. <i>Pediatric Endocrinology Reviews</i> , 2020, 17, 317-326.	1.2	1
103	The Oxidative Stress Response In Erythroid Precursors Is Mediated By tp53. <i>Blood</i> , 2013, 122, 7-7.	1.4	1
104	High-Exposure, Targeted Daily Busulfan and Fludarabine-Based Conditioning for Children Undergoing Hematopoietic Stem Cell Transplantation for Inherited Metabolic Disorders: Outcomes at a Single Center. <i>Blood</i> , 2016, 128, 2191-2191.	1.4	1
105	Glycoprotein nonmetastatic melanoma protein B (GNMPB) as a novel biomarker for cerebral adrenoleukodystrophy. <i>Scientific Reports</i> , 2022, 12, 7985.	3.3	1
106	Reply to "Prophylactic Allogeneic Hematopoietic Stem Cell Therapy for CSF1R-Related Leukoencephalopathy" <i>Movement Disorders</i> , 2022, 37, 1109-1110.	3.9	1
107	Hematopoietic Stem Cell Transplantation in the Leukodystrophies: A Systematic Review of the Literature. <i>Neuropediatrics</i> , 2014, 45, e1-e1.	0.6	0
108	Adrenal Insufficiency in an Adolescent Boy With Type 1 Diabetes Mellitus - the Importance of Considering X-Linked Adrenoleukodystrophy. <i>Journal of the Endocrine Society</i> , 2021, 5, A110-A110.	0.2	0

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109	A Mathematical Model of Hematopoietic Stem Cell Transplantation and Analysis of the Effect of Drug Treatments on Transplantation in Patients with Lymphoma. <i>Blood</i> , 2015, 126, 2376-2376.	1.4	0
110	Neurocognitive Trajectory of Patients with Childhood Cerebral Adrenoleukodystrophy Who Received Allogeneic Hematopoietic Cell Transplantation at an Early Stage of Cerebral Disease. <i>Blood</i> , 2016, 128, 4682-4682.	1.4	0
111	Low Incidence of Chronic Graft-Versus-Host Disease in Myeloablative Allogeneic Hematopoietic Cell Transplantation with Post-Transplant Cyclophosphamide Using Matched Related or Unrelated Donors: Phase II Study Interim Analysis. <i>Blood</i> , 2021, 138, 1811-1811.	1.4	0
112	Burden of Morbidity after Allogeneic Blood or Marrow Transplantation for Inborn Errors of Metabolism: A BMT Survivor Study Report. <i>Transplantation and Cellular Therapy</i> , 2022, 28, 157.e1-157.e9.	1.2	0