

# Tomoyuki Mizuno

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

73 papers	1,671 citations	21 h-index	39 g-index
85 ext. papers	2,150 ext. citations	4.2 avg, IF	4.63 L-index

#	Paper	IF	Citations
73	1004: INADEQUATE MEROPENEM TARGET ATTAINMENT EARLY IN PEDIATRIC CRITICAL ILLNESS. <i>Critical Care Medicine</i> , <b>2022</b> , 50, 499-499	1.4	
72	Physiologically-Based Pharmacokinetic Modeling to Investigate the Effect of Maturation on Buprenorphine Pharmacokinetics in Newborns with Neonatal Opioid Withdrawal Syndrome. <i>Clinical Pharmacology and Therapeutics</i> , <b>2021</b> ,	6.1	2
71	A review of pregnancy-induced changes in opioid pharmacokinetics, placental transfer, and fetal exposure: Towards fetomaternal physiologically-based pharmacokinetic modeling to improve the treatment of neonatal opioid withdrawal syndrome. <i>Pharmacology &amp; Therapeutics</i> , <b>2021</b> , 108045	13.9	2
70	Personalized Therapy for Mycophenolate: Consensus Report by the International Association of Therapeutic Drug Monitoring and Clinical Toxicology. <i>Therapeutic Drug Monitoring</i> , <b>2021</b> , 43, 150-200	3.2	17
69	Toward pharmacogenetic SLCO1B1-guided dosing of methotrexate in arthritis using a murine Slco1b2 knockout model. <i>Clinical and Translational Science</i> , <b>2021</b> , 14, 2267-2277	4.9	1
68	Sirolimus Treatment in Sturge-Weber Syndrome. <i>Pediatric Neurology</i> , <b>2021</b> , 115, 29-40	2.9	3
67	Pharmacotherapy of neonatal opioid withdrawal syndrome: a review of pharmacokinetics and pharmacodynamics. <i>Expert Opinion on Drug Metabolism and Toxicology</i> , <b>2021</b> , 17, 87-103	5.5	5
66	A POETIC Phase II study of continuous oral everolimus in recurrent, radiographically progressive pediatric low-grade glioma. <i>Pediatric Blood and Cancer</i> , <b>2021</b> , 68, e28787	3	6
65	Physiologic Indirect Response Modeling to Describe Buprenorphine Pharmacodynamics in Newborns Treated for Neonatal Opioid Withdrawal Syndrome. <i>Clinical Pharmacokinetics</i> , <b>2021</b> , 60, 249-259	6.3	4
64	Population pharmacokinetics of vancomycin in paediatric patients with febrile neutropenia and augmented renal clearance: development of new dosing recommendations. <i>Journal of Antimicrobial Chemotherapy</i> , <b>2021</b> , 76, 2932-2940	5.1	0
63	Real-World Infliximab Pharmacokinetic Study Informs an Electronic Health Record-Embedded Dashboard to Guide Precision Dosing in Children with Crohn's Disease. <i>Clinical Pharmacology and Therapeutics</i> , <b>2021</b> , 109, 1639-1647	6.1	12
62	Antibodies-to-infliximab accelerate clearance while dose intensification reverses immunogenicity and recaptures clinical response in paediatric Crohn's disease.. <i>Alimentary Pharmacology and Therapeutics</i> , <b>2021</b> ,	6.1	1
61	Clinical implementation of pharmacogenetics and model-informed precision dosing to improve patient care. <i>British Journal of Clinical Pharmacology</i> , <b>2020</b> ,	3.8	6
60	MTXPK.org: A Clinical Decision Support Tool Evaluating High-Dose Methotrexate Pharmacokinetics to Inform Post-Infusion Care and Use of Glucarpidase. <i>Clinical Pharmacology and Therapeutics</i> , <b>2020</b> , 108, 635-643	6.1	13
59	Influence of MRP3 Genetics and Hepatic Expression Ontogeny for Morphine Disposition in Neonatal and Pediatric Patients. <i>Journal of Clinical Pharmacology</i> , <b>2020</b> , 60, 992-998	2.9	5
58	A phase II study of continuous oral mTOR inhibitor everolimus for recurrent, radiographic-progressive neurofibromatosis type 1-associated pediatric low-grade glioma: a Neurofibromatosis Clinical Trials Consortium study. <i>Neuro-Oncology</i> , <b>2020</b> , 22, 1527-1535	1	20
57	PK/PD Study of Mycophenolate Mofetil in Children With Systemic Lupus Erythematosus to Inform Model-Based Precision Dosing. <i>Frontiers in Pharmacology</i> , <b>2020</b> , 11, 605060	5.6	3

56	Next Challenge From the Variance in Individual Physiologically-Based Pharmacokinetic Model-Predicted to Observed Morphine Concentration in Critically Ill Neonates. <i>Clinical Pharmacology and Therapeutics</i> , <b>2020</b> , 107, 319-320	6.1	2
55	Population pharmacokinetic modelling of busulfan and the influence of body composition in paediatric Fanconi anaemia patients. <i>British Journal of Clinical Pharmacology</i> , <b>2020</b> , 86, 933-943	3.8	3
54	Molecular Adsorbent Recirculating System Therapy with Continuous Renal Replacement Therapy Enhanced Clearance of Piperacillin in a Pediatric Patient and Led to Failure to Attain Pharmacodynamic Targets. <i>Pharmacotherapy</i> , <b>2020</b> , 40, 1061-1068	5.8	3
53	Model-Informed Bayesian Estimation Improves the Prediction of Morphine Exposure in Neonates and Infants. <i>Therapeutic Drug Monitoring</i> , <b>2020</b> , 42, 778-786	3.2	4
52	Electronic Health Record-Embedded Decision Support Platform for Morphine Precision Dosing in Neonates. <i>Clinical Pharmacology and Therapeutics</i> , <b>2020</b> , 107, 186-194	6.1	15
51	Improved Population Pharmacokinetic Model for Predicting Optimized Infliximab Exposure in Pediatric Inflammatory Bowel Disease. <i>Inflammatory Bowel Diseases</i> , <b>2020</b> , 26, 429-439	4.5	20
50	Delayed methotrexate clearance in patients with acute lymphoblastic leukemia concurrently receiving dasatinib. <i>Pediatric Blood and Cancer</i> , <b>2019</b> , 66, e27618	3	12
49	Significant effect of infection and food intake on sirolimus pharmacokinetics and exposure in pediatric patients with acute lymphoblastic leukemia. <i>European Journal of Pharmaceutical Sciences</i> , <b>2019</b> , 128, 209-214	5.1	6
48	Robust clinical and laboratory response to hydroxyurea using pharmacokinetically guided dosing for young children with sickle cell anemia. <i>American Journal of Hematology</i> , <b>2019</b> , 94, 871-879	7.1	35
47	1543. Ceftaroline Model-based Dose Individualization in an Infant with Kidney Disease and Mediastinitis. <i>Open Forum Infectious Diseases</i> , <b>2019</b> , 6, S563-S563	1	78
46	Route of Oseltamivir Administration Affects Metabolite Concentrations in Critically Ill Children. <i>Pediatric Infectious Disease Journal</i> , <b>2019</b> , 38, 1224-1227	3.4	3
45	Therapeutic Drug Monitoring of Tacrolimus-Personalized Therapy: Second Consensus Report. <i>Therapeutic Drug Monitoring</i> , <b>2019</b> , 41, 261-307	3.2	163
44	Dose modifications and pharmacokinetics of adjuvant cisplatin monotherapy while on hemodialysis for patients with hepatoblastoma. <i>Pediatric Blood and Cancer</i> , <b>2019</b> , 66, e27425	3	3
43	Developmental Pharmacokinetics and Age-Appropriate Dosing Design of Milrinone in Neonates and Infants with Acute Kidney Injury Following Cardiac Surgery. <i>Clinical Pharmacokinetics</i> , <b>2019</b> , 58, 793-803	6.3	9
42	Influence of OCT1 Ontogeny and Genetic Variation on Morphine Disposition in Critically Ill Neonates: Lessons From PBPK Modeling and Clinical Study. <i>Clinical Pharmacology and Therapeutics</i> , <b>2019</b> , 105, 761-768	6.1	27
41	Model-based dosing with concentration feedback as an integral part of personalized hydroxycarbamide management. <i>British Journal of Clinical Pharmacology</i> , <b>2018</b> , 84, 1410-1412	3.8	1
40	Acute Kidney Injury Biomarkers Predict an Increase in Serum Milrinone Concentration Earlier Than Serum Creatinine-Defined Acute Kidney Injury in Infants After Cardiac Surgery. <i>Therapeutic Drug Monitoring</i> , <b>2018</b> , 40, 186-194	3.2	11
39	Clinical and Laboratory Benefits of Early Initiation of Hydroxyurea with Pharmacokinetic Guided Dosing for Young Children with Sickle Cell Anemia. <i>Blood</i> , <b>2018</b> , 132, 507-507	2.2	1

38	Phase 1 safety and pharmacokinetic study on the use of pioglitazone in critically ill patients with sepsis: a randomized clinical trial. <i>Intensive Care Medicine</i> , <b>2018</b> , 44, 2006-2008	14.5	4
37	ABCC3 genetic variants are associated with postoperative morphine-induced respiratory depression and morphine pharmacokinetics in children. <i>Pharmacogenomics Journal</i> , <b>2017</b> , 17, 162-169	3.5	21
36	Population pharmacokinetics of temsirolimus and sirolimus in children with recurrent solid tumours: a report from the Children's Oncology Group. <i>British Journal of Clinical Pharmacology</i> , <b>2017</b> , 83, 1097-1107	3.8	11
35	Developmental pharmacokinetics of sirolimus: Implications for precision dosing in neonates and infants with complicated vascular anomalies. <i>Pediatric Blood and Cancer</i> , <b>2017</b> , 64, e26470	3	46
34	Time in therapeutic range as a marker for thrombotic and bleeding outcomes in Fontan patients. <i>Journal of Thrombosis and Thrombolysis</i> , <b>2017</b> , 44, 38-47	5.1	15
33	OCT1 genetic variants are associated with postoperative morphine-related adverse effects in children. <i>Pharmacogenomics</i> , <b>2017</b> , 18, 621-629	2.6	28
32	Model-based precision dosing of sirolimus in pediatric patients with vascular anomalies. <i>European Journal of Pharmaceutical Sciences</i> , <b>2017</b> , 109S, S124-S131	5.1	25
31	Pharmacokinetic and pharmacogenetic analysis of immunosuppressive agents after laparoscopic sleeve gastrectomy. <i>Clinical Transplantation</i> , <b>2017</b> , 31, e12975	3.8	20
30	Learning Health Systems as Facilitators of Precision Medicine. <i>Clinical Pharmacology and Therapeutics</i> , <b>2017</b> , 101, 359-367	6.1	16
29	Fatty acid amide hydrolase-morphine interaction influences ventilatory response to hypercapnia and postoperative opioid outcomes in children. <i>Pharmacogenomics</i> , <b>2017</b> , 18, 143-156	2.6	8
28	Opportunities for model-based precision dosing in the treatment of sickle cell anemia. <i>Blood Cells, Molecules, and Diseases</i> , <b>2017</b> , 67, 143-147	2.1	4
27	Pharmacokinetics of IGF-1 in PAPP-A2-Deficient Patients, Growth Response, and Effects on Glucose and Bone Density. <i>Journal of Clinical Endocrinology and Metabolism</i> , <b>2017</b> , 102, 4568-4577	5.6	24
26	Bioequivalence between innovator and generic tacrolimus in liver and kidney transplant recipients: A randomized, crossover clinical trial. <i>PLoS Medicine</i> , <b>2017</b> , 14, e1002428	11.6	21
25	Characterizing the Developmental Trajectory of Sirolimus Clearance in Neonates and Infants. <i>CPT: Pharmacometrics and Systems Pharmacology</i> , <b>2016</b> , 5, 411-7	4.5	16
24	Individualized Dosing of Hydroxyurea for Children with Sickle Cell Anemia Using a Population Pharmacokinetic-Based Model: The TREAT Study. <i>Blood</i> , <b>2016</b> , 128, 3652-3652	2.2	2
23	Pharmacokinetics of meropenem in children receiving continuous renal replacement therapy: Validation of clinical trial simulations. <i>Journal of Clinical Pharmacology</i> , <b>2016</b> , 56, 291-7	2.9	16
22	Development of a pharmacokinetic-guided dose individualization strategy for hydroxyurea treatment in children with sickle cell anaemia. <i>British Journal of Clinical Pharmacology</i> , <b>2016</b> , 81, 742-52	3.8	26
21	Pharmacokinetics and pharmacogenomics of $\beta$ -lactam-induced neutropenia. <i>Pharmacogenomics</i> , <b>2016</b> , 17, 547-59	2.6	5

20	Pharmacokinetics of Oral Methadone in the Treatment of Neonatal Abstinence Syndrome: A Pilot Study. <i>Journal of Pediatrics</i> , <b>2015</b> , 167, 1214-20.e3	3.6	34
19	Age-dependent changes in sirolimus metabolite formation in patients with neurofibromatosis type 1. <i>Therapeutic Drug Monitoring</i> , <b>2015</b> , 37, 395-9	3.2	9
18	Retrospective Evaluation of Milrinone Pharmacokinetics in Children With Kidney Injury. <i>Therapeutic Drug Monitoring</i> , <b>2015</b> , 37, 792-6	3.2	11
17	Kidney Injury Molecule-1 and its association with delayed clearance and drug exposure in pediatric oncology patients treated with high dose methotrexate.. <i>Journal of Clinical Oncology</i> , <b>2015</b> , 33, 10034-10034	2.3	34
16	Pharmacogenetic variants associated with differential sirolimus clearance in pediatric patients.. <i>Journal of Clinical Oncology</i> , <b>2015</b> , 33, 2562-2562	2.2	
15	Exposure-toxicity relationship of sorafenib in Japanese patients with renal cell carcinoma and hepatocellular carcinoma. <i>Clinical Pharmacokinetics</i> , <b>2014</b> , 53, 185-96	6.2	60
14	Leukopenia With Mycophenolate in Calcineurin Inhibitor-Free, Corticosteroid-Free Renal Transplant Recipients.. <i>Transplantation</i> , <b>2014</b> , 98, 549	1.8	
13	Mycophenolate Pharmacokinetics in Calcineurin Inhibitor-Free, Corticosteroid-Free Renal Transplant Recipients.. <i>Transplantation</i> , <b>2014</b> , 98, 550	1.8	
12	Developmental trajectory of intestinal MDR1/ABCB1 mRNA expression in children. <i>British Journal of Clinical Pharmacology</i> , <b>2014</b> , 77, 910-2	3.8	16
11	ABCC3 and OCT1 genotypes influence pharmacokinetics of morphine in children. <i>Pharmacogenomics</i> , <b>2014</b> , 15, 1297-309	2.6	58
10	Sorafenib in a hepatocellular carcinoma patient with end-stage renal failure: A pharmacokinetic study. <i>Hepatology Research</i> , <b>2014</b> , 44, 685-8	5.1	6
9	The effect of ABCG2 genotype on the population pharmacokinetics of sunitinib in patients with renal cell carcinoma. <i>Therapeutic Drug Monitoring</i> , <b>2014</b> , 36, 310-6	3.2	32
8	OCT1 genetic variants influence the pharmacokinetics of morphine in children. <i>Pharmacogenomics</i> , <b>2013</b> , 14, 1141-51	2.6	73
7	Effect of P-glycoprotein and breast cancer resistance protein inhibition on the pharmacokinetics of sunitinib in rats. <i>Drug Metabolism and Disposition</i> , <b>2013</b> , 41, 1592-7	4	17
6	Cerebrospinal fluid concentration of gefitinib and erlotinib in patients with non-small cell lung cancer. <i>Cancer Chemotherapy and Pharmacology</i> , <b>2012</b> , 70, 399-405	3.5	212
5	Impact of genetic variation in breast cancer resistance protein (BCRP/ABCG2) on sunitinib pharmacokinetics. <i>Drug Metabolism and Pharmacokinetics</i> , <b>2012</b> , 27, 631-9	2.2	75
4	ABCG2 421C>A polymorphism and high exposure of sunitinib in a patient with renal cell carcinoma. <i>Annals of Oncology</i> , <b>2010</b> , 21, 1382-1383	10.3	47
3	Tolerable sorafenib therapy for a renal cell carcinoma patient with hemodialysis: a case study. <i>International Journal of Clinical Oncology</i> , <b>2010</b> , 15, 512-4	4.2	17

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|---|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----|
| 2 | Targeted disruption of the multidrug and toxin extrusion 1 (mate1) gene in mice reduces renal secretion of metformin. <i>Molecular Pharmacology</i> , <b>2009</b> , 75, 1280-6      | 4.3  | 147 |
| 1 | Dual imaging of pulmonary delivery and gene expression of dry powder inhalant by fluorescence and bioluminescence. <i>Journal of Controlled Release</i> , <b>2009</b> , 134, 149-54 | 11.7 | 47  |