

# Dominik Duscher

## List of Publications by Year in descending order

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Version: 2024-02-01

100  
papers

3,715  
citations

136740

32  
h-index

138251

58  
g-index

102  
all docs

102  
docs citations

102  
times ranked

5394  
citing authors

#	ARTICLE	IF	CITATIONS
1	The Role of Hypoxia-Inducible Factor in Wound Healing. <i>Advances in Wound Care</i> , 2014, 3, 390-399.	2.6	257
2	Stem Cells in Wound Healing: The Future of Regenerative Medicine? A Mini-Review. <i>Gerontology</i> , 2016, 62, 216-225.	1.4	226
3	Microvesicles from human adipose stem cells promote wound healing by optimizing cellular functions via AKT and ERK signaling pathways. <i>Stem Cell Research and Therapy</i> , 2019, 10, 47.	2.4	186
4	Wnt Pathway in Bone Repair and Regeneration – What Do We Know So Far. <i>Frontiers in Cell and Developmental Biology</i> , 2018, 6, 170.	1.8	180
5	Transdermal deferoxamine prevents pressure-induced diabetic ulcers. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 94-99.	3.3	160
6	Mechanotransduction and fibrosis. <i>Journal of Biomechanics</i> , 2014, 47, 1997-2005.	0.9	157
7	Diabetes impairs the angiogenic potential of adipose-derived stem cells by selectively depleting cellular subpopulations. <i>Stem Cell Research and Therapy</i> , 2014, 5, 79.	2.4	153
8	Ageing disrupts cell subpopulation dynamics and diminishes the function of mesenchymal stem cells. <i>Scientific Reports</i> , 2014, 4, 7144.	1.6	140
9	Scarless Wound Healing. <i>Plastic and Reconstructive Surgery</i> , 2015, 135, 907-917.	0.7	116
10	Studies in Fat Grafting. <i>Plastic and Reconstructive Surgery</i> , 2015, 136, 67-75.	0.7	103
11	Capillary Force Seeding of Hydrogels for Adipose-Derived Stem Cell Delivery in Wounds. <i>Stem Cells Translational Medicine</i> , 2014, 3, 1079-1089.	1.6	100
12	Challenges and Opportunities in Drug Delivery for Wound Healing. <i>Advances in Wound Care</i> , 2016, 5, 79-88.	2.6	100
13	Exosomes from human adipose-derived stem cells promote sciatic nerve regeneration via optimizing Schwann cell function. <i>Journal of Cellular Physiology</i> , 2019, 234, 23097-23110.	2.0	85
14	Molecular Mechanisms of Hair Growth and Regeneration: Current Understanding and Novel Paradigms. <i>Dermatology</i> , 2020, 236, 271-280.	0.9	82
15	Cell-Assisted Lipotransfer Improves Volume Retention in Irradiated Recipient Sites and Rescues Radiation-Induced Skin Changes. <i>Stem Cells</i> , 2016, 34, 668-673.	1.4	71
16	Studies in Fat Grafting. <i>Plastic and Reconstructive Surgery</i> , 2015, 135, 1045-1055.	0.7	65
17	Denervation drives skeletal muscle atrophy and induces mitochondrial dysfunction, mitophagy and apoptosis via miR-142a-5p/MFN1 axis. <i>Theranostics</i> , 2020, 10, 1415-1432.	4.6	65
18	Diabetes Irreversibly Depletes Bone Marrow-Derived Mesenchymal Progenitor Cell Subpopulations. <i>Diabetes</i> , 2014, 63, 3047-3056.	0.3	58

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19	Adipose-Derived Stem Cell-Seeded Hydrogels Increase Endogenous Progenitor Cell Recruitment and Neovascularization in Wounds. <i>Tissue Engineering - Part A</i> , 2016, 22, 295-305.	1.6	57
20	Biological therapies for the treatment of cutaneous wounds: Phase III and launched therapies. <i>Expert Opinion on Biological Therapy</i> , 2013, 13, 1523-1541.	1.4	53
21	Comparison of the Hydroxylase Inhibitor Dimethyloxalyglycine and the Iron Chelator Deferoxamine in Diabetic and Aged Wound Healing. <i>Plastic and Reconstructive Surgery</i> , 2017, 139, 695e-706e.	0.7	50
22	Fibroblast-Specific Deletion of Hypoxia Inducible Factor-1 Critically Impairs Murine Cutaneous Neovascularization and Wound Healing. <i>Plastic and Reconstructive Surgery</i> , 2015, 136, 1004-1013.	0.7	48
23	A rapid crosslinking injectable hydrogel for stem cell delivery, from multifunctional hyperbranched polymers via RAFT homopolymerization of PEGDA. <i>Polymer Chemistry</i> , 2015, 6, 6182-6192.	1.9	46
24	Microfluidic single-cell transcriptional analysis rationally identifies novel surface marker profiles to enhance cell-based therapies. <i>Nature Communications</i> , 2016, 7, 11945.	5.8	46
25	Single-Cell Transcriptomics of Human Mesenchymal Stem Cells Reveal Age-Related Cellular Subpopulation Depletion and Impaired Regenerative Function. <i>Stem Cells</i> , 2019, 37, 240-246.	1.4	46
26	Controlled Delivery of a Focal Adhesion Kinase Inhibitor Results in Accelerated Wound Closure with Decreased Scar Formation. <i>Journal of Investigative Dermatology</i> , 2018, 138, 2452-2460.	0.3	45
27	Continuous Hemoadsorption with a Cytokine Adsorber during Sepsis – a Review of the Literature. <i>International Journal of Artificial Organs</i> , 2017, 40, 205-211.	0.7	43
28	Evaluating the Effect of Cell Culture on Gene Expression in Primary Tissue Samples Using Microfluidic-Based Single Cell Transcriptional Analysis. <i>Microarrays (Basel, Switzerland)</i> , 2015, 4, 540-550.	1.4	40
29	Ultrasound-Assisted Liposuction Does Not Compromise the Regenerative Potential of Adipose-Derived Stem Cells. <i>Stem Cells Translational Medicine</i> , 2016, 5, 248-257.	1.6	40
30	Tumor-associated collagen signatures: pushing tumor boundaries. <i>Cancer &amp; Metabolism</i> , 2020, 8, 14.	2.4	40
31	Ex vivo-expanded autologous adipose tissue-derived stromal cells ensure enhanced fat graft retention in breast augmentation: A randomized controlled clinical trial. <i>Stem Cells Translational Medicine</i> , 2020, 9, 1277-1286.	1.6	40
32	High-Throughput Screening of Surface Marker Expression on Undifferentiated and Differentiated Human Adipose-Derived Stromal Cells. <i>Tissue Engineering - Part A</i> , 2015, 21, 2281-2291.	1.6	38
33	New Insights on Lipedema: The Enigmatic Disease of the Peripheral Fat. <i>Plastic and Reconstructive Surgery</i> , 2019, 144, 1475-1484.	0.7	37
34	Age-associated intracellular superoxide dismutase deficiency potentiates dermal fibroblast dysfunction during wound healing. <i>Experimental Dermatology</i> , 2019, 28, 485-492.	1.4	35
35	Microarray analyses of lncRNAs and mRNAs expression profiling associated with diabetic peripheral neuropathy in rats. <i>Journal of Cellular Biochemistry</i> , 2019, 120, 15347-15359.	1.2	34
36	Extracellular superoxide dismutase deficiency impairs wound healing in advanced age by reducing neovascularization and fibroblast function. <i>Experimental Dermatology</i> , 2016, 25, 206-211.	1.4	33

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37	Ultrasound-assisted liposuction provides a source for functional adipose-derived stromal cells. <i>Cytotherapy</i> , 2017, 19, 1491-1500.	0.3	33
38	Suction assisted liposuction does not impair the regenerative potential of adipose derived stem cells. <i>Journal of Translational Medicine</i> , 2016, 14, 126.	1.8	32
39	Optimization of transdermal deferoxamine leads to enhanced efficacy in healing skin wounds. <i>Journal of Controlled Release</i> , 2019, 308, 232-239.	4.8	31
40	Stem Cell-Based Therapeutics to Improve Wound Healing. <i>Plastic Surgery International</i> , 2015, 2015, 1-7.	0.7	30
41	Role of Wnt signaling during inflammation and sepsis: A review of the literature. <i>International Journal of Artificial Organs</i> , 2018, 41, 247-253.	0.7	28
42	Perforasomes of the upper abdomen: An anatomical study. <i>Journal of Plastic, Reconstructive and Aesthetic Surgery</i> , 2014, 67, 42-47.	0.5	27
43	Live Fibroblast Harvest Reveals Surface Marker Shift <i>In Vitro</i> . <i>Tissue Engineering - Part C: Methods</i> , 2015, 21, 314-321.	1.1	26
44	Seasonal Impact on Surgical-Site Infections in Body Contouring Surgery: A Retrospective Cohort Study of 602 Patients over a Period of 6 Years. <i>Plastic and Reconstructive Surgery</i> , 2018, 142, 653-660.	0.7	22
45	Breast cancer recurrence after reconstruction: know thine enemy. <i>Oncotarget</i> , 2018, 9, 27895-27906.	0.8	22
46	Small molecule inhibition of dipeptidyl peptidase-4 enhances bone marrow progenitor cell function and angiogenesis in diabetic wounds. <i>Translational Research</i> , 2019, 205, 51-63.	2.2	20
47	Five Years Experience With Meek Grafting in the Management of Extensive Burns in an Adult Burn Center. <i>Plastic Surgery</i> , 2019, 27, 44-48.	0.4	19
48	The Construction and Analysis of lncRNA-miRNA-mRNA Competing Endogenous RNA Network of Schwann Cells in Diabetic Peripheral Neuropathy. <i>Frontiers in Bioengineering and Biotechnology</i> , 2020, 8, 490.	2.0	19
49	Skin Rejuvenation through HIF-1 $\alpha$ Modulation. <i>Plastic and Reconstructive Surgery</i> , 2018, 141, 600e-607e.	0.7	18
50	Differentiated human adipose-derived stromal cells exhibit the phenotypic and functional characteristics of mature Schwann cells through a modified approach. <i>Cytotherapy</i> , 2019, 21, 987-1003.	0.3	17
51	Elektra prosthesis versus resection-suspension arthroplasty for thumb carpometacarpal osteoarthritis: a long-term cohort study. <i>Journal of Hand Surgery: European Volume</i> , 2020, 45, 452-457.	0.5	17
52	Murine Dermal Fibroblast Isolation by FACS. <i>Journal of Visualized Experiments</i> , 2016, , .	0.2	16
53	Short Hairpin RNA Silencing of PHD-2 Improves Neovascularization and Functional Outcomes in Diabetic Wounds and Ischemic Limbs. <i>PLoS ONE</i> , 2016, 11, e0150927.	1.1	16
54	Cutaneous innervation of the ankle: An anatomical study showing danger zones for ankle surgery. <i>Clinical Anatomy</i> , 2014, 27, 653-658.	1.5	14

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55	An Improved Humanized Mouse Model for Excisional Wound Healing Using Double Transgenic Mice. <i>Advances in Wound Care</i> , 2018, 7, 11-17.	2.6	14
56	Comprehensive analysis of differentially expressed microRNAs and mRNAs in dorsal root ganglia from streptozotocin-induced diabetic rats. <i>PLoS ONE</i> , 2018, 13, e0202696.	1.1	14
57	Overexpression of microRNA-21-5p prevents the oxidative stress-induced apoptosis of RSC96 cells by suppressing autophagy. <i>Life Sciences</i> , 2020, 256, 118022.	2.0	13
58	Oncogenic Linear Collagen VI of Invasive Breast Cancer Is Induced by CCL5. <i>Journal of Clinical Medicine</i> , 2020, 9, 991.	1.0	13
59	Fibrin Glue Enhances Adipose-Derived Stromal Cell Cytokine Secretion and Survival Conferring Accelerated Diabetic Wound Healing. <i>Stem Cells International</i> , 2018, 2018, 1-8.	1.2	12
60	Re-motion total wrist arthroplasty: 39 non-rheumatoid cases with a mean follow-up of 7 years. <i>Journal of Hand Surgery: European Volume</i> , 2019, 44, 946-950.	0.5	11
61	Polydioxanone Threads for Facial Rejuvenation: Analysis of Quality Variation in the Market. <i>Plastic and Reconstructive Surgery</i> , 2019, 144, 1002e-1009e.	0.7	11
62	Radial and palmar active range of motion measurement: reliability of six methods in healthy adults. <i>Journal of Plastic Surgery and Hand Surgery</i> , 2021, 55, 41-47.	0.4	11
63	Surveillance of Stem Cell Fate and Function: A System for Assessing Cell Survival and Collagen Expression <i>in Situ</i> . <i>Tissue Engineering - Part A</i> , 2016, 22, 31-40.	1.6	10
64	Double-Loop Dermal Suture: A Technique for High-Tension Wound Closure. <i>Aesthetic Surgery Journal</i> , 2016, 36, NP165-NP167.	0.9	9
65	Comparison of Energy-Based Tissue Dissection Techniques in Abdominoplasty: A Randomized, Open-Label Study Including Economic Aspects. <i>Aesthetic Surgery Journal</i> , 2019, 39, 536-543.	0.9	9
66	Burns: modified metabolism and the nuances of nutrition therapy. <i>Journal of Wound Care</i> , 2020, 29, 184-191.	0.5	9
67	Stevens-Johnson syndrome and toxic epidermal necrolysis: a systematic review and meta-analysis. <i>Journal of Wound Care</i> , 2021, 30, 1012-1019.	0.5	8
68	Occlusive dressing-induced secretomes influence the migration and proliferation of mesenchymal stem cells and fibroblasts differently. <i>European Journal of Medical Research</i> , 2018, 23, 60.	0.9	7
69	Macrophage Transplantation Fails to Improve Repair of Critical-Sized Calvarial Defects. <i>Journal of Craniofacial Surgery</i> , 2019, 30, 2640-2645.	0.3	7
70	Stevens-Johnson syndrome and toxic epidermal necrolysis: a 10-year experience in a burns unit. <i>Journal of Wound Care</i> , 2021, 30, 492-496.	0.5	7
71	Geographical differences in carpometacarpal joint osteoarthritis treatment of the thumb: A survey of 1138 hand surgeons from the USA and Europe. <i>Journal of Plastic, Reconstructive and Aesthetic Surgery</i> , 2021, 74, 1854-1861.	0.5	7
72	HIF-1 $\alpha$ Stimulators Function Equally to Leading Hair Loss Agents in Enhancing Dermal Papilla Growth. <i>Skin Pharmacology and Physiology</i> , 2020, 33, 309-316.	1.1	7

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73	Novel Assay Analyzing Tropism between Adipose-Derived Stem Cells and Breast Cancer Cells Reveals a Low Oncogenic Response. <i>Breast Care</i> , 2019, 14, 278-288.	0.8	5
74	Posterior intercostal artery perforator flap for posterior trunk reconstruction: Perforator mapping with high-resolution ultrasound and clinical application. <i>Journal of Plastic, Reconstructive and Aesthetic Surgery</i> , 2019, 72, 737-743.	0.5	5
75	Deferoxamine enhances the regenerative potential of diabetic Adipose Derived Stem Cells. <i>Journal of Plastic, Reconstructive and Aesthetic Surgery</i> , 2020, 73, 1738-1746.	0.5	5
76	Preauricular pull through flap for reconstruction of the auricle. <i>Journal of Plastic, Reconstructive and Aesthetic Surgery</i> , 2021, 74, 130-134.	0.5	5
77	Differences of embedding adipose-derived stromal cells in natural and synthetic scaffolds for dermal and subcutaneous delivery. <i>Stem Cell Research and Therapy</i> , 2021, 12, 68.	2.4	5
78	Single-Cell Gene Expression Analysis and Evaluation of the Therapeutic Function of Murine Adipose-Derived Stromal Cells (ASCs) from the Subcutaneous and Visceral Compartment. <i>Stem Cells International</i> , 2018, 2018, 1-9.	1.2	4
79	Proximal Row Carpectomy with Total Scapoidectomy vs. Conventional Carpal Resection for ReMotion Total Wrist Arthroplasty. <i>Journal of Clinical Medicine</i> , 2021, 10, 1865.	1.0	4
80	Recombinant Silk Hydrogel as a Novel Dermal Filler Component: Preclinical Safety and Efficacy Studies of a New Class of Tissue Fillers. <i>Aesthetic Surgery Journal</i> , 2020, 40, NP511-NP518.	0.9	2
81	Wound fluid under occlusive dressings from diabetic patients show an increased angiogenic response and fibroblast migration. <i>Journal of Tissue Viability</i> , 2021, 30, 446-453.	0.9	2
82	A modified microvascular "Tube-in-Tube" concept for penile construction in female-to-male transsexuals: Combined radial forearm free flap with anterolateral thigh flap. <i>Journal of Plastic, Reconstructive and Aesthetic Surgery</i> , 2021, 74, 2364-2371.	0.5	2
83	Stem Cell Therapies for Tissue Regeneration and Wound Healing: Strategies to Enhance Therapeutic Effectiveness. , 2019, , 187-199.		2
84	Understanding regulatory pathways of neovascularization in diabetes. <i>Expert Review of Endocrinology and Metabolism</i> , 2014, 9, 487-501.	1.2	1
85	Optimising management of self-inflicted burns: a retrospective review. <i>Journal of Wound Care</i> , 2019, 28, 317-322.	0.5	1
86	Engineering a Future with VCA: Applying Genetic Circuits to Engineer Tissues for Vascularized Composite Allotransplantation. <i>Journal of Plastic, Reconstructive and Aesthetic Surgery</i> , 2021, 74, 223-243.	0.5	1
87	Erythropoetin can partially restore cigarette smoke induced effects on Adipose derived Stem Cells. <i>Clinical Hemorheology and Microcirculation</i> , 2021, 77, 27-36.	0.9	1
88	Epidermal-Derived Hedgehog Signaling Drives Mesenchymal Proliferation during Digit Tip Regeneration. <i>Journal of Clinical Medicine</i> , 2021, 10, 4261.	1.0	1
89	Mechanical irritation by protruding bone: A possible cause of breast implant rupture. <i>Archives of Plastic Surgery</i> , 2018, 45, 470-473.	0.4	1
90	Pectoralis Major Median Myotomy: The Median Cut. <i>Plastic and Reconstructive Surgery</i> , 2021, 147, 561e-562e.	0.7	1

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91	Reply: Seasonal Impact on Surgical-Site Infections in Body Contouring Surgery: A Retrospective Cohort Study of 602 Patients over a Period of 6 Years. <i>Plastic and Reconstructive Surgery</i> , 2019, 143, 891e-892e.	0.7	0
92	Reply. <i>Plastic and Reconstructive Surgery</i> , 2019, 143, 240e-241e.	0.7	0
93	Comments on "Preliminary 3-Year Evaluation of Experience With SilkSurface and VelvetSurface Motiva Silicone Breast Implants: A Single-Center Experience With 5813 Consecutive Breast Augmentation Cases". <i>Aesthetic Surgery Journal</i> , 2019, 39, NP18-NP19.	0.9	0
94	Reply: Polydioxanone Threads for Facial Rejuvenation: Analysis of Quality Variation in the Market. <i>Plastic and Reconstructive Surgery</i> , 2020, 146, 228e-228e.	0.7	0
95	A single-center blinded randomized clinical trial to evaluate the anti-aging effects of a novel HSF <sub>1</sub> -based skin care formulation. <i>Journal of Cosmetic Dermatology</i> , 2020, 19, 2936-2945.	0.8	0
96	Dimensions of the ankle ligaments: anatomical study and literature review. <i>FASEB Journal</i> , 2013, 27, 749.14.	0.2	0
97	Cutaneous innervation of the ankle: an anatomical study with clinical implications. <i>FASEB Journal</i> , 2013, 27, 748.10.	0.2	0
98	The vascular basis of perforator flaps of the upper abdominal wall: an anatomical study. <i>FASEB Journal</i> , 2013, 27, 742.12.	0.2	0
99	Harvesting, Processing, and Injection of Lipoaspirate for Soft-Tissue Reconstruction: Details Make the Difference. , 2019, , 39-43.		0
100	Effect of Music on the Efficiency of Performing a Microsurgical Arterial Anastomosis: A Prospective Randomized Study. <i>Journal of Hand and Microsurgery</i> , 2023, 15, 013-017.	0.1	0