

# Sally-Ann Cryan

## List of Publications by Year in descending order

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92  
papers

4,004  
citations

117453

34  
h-index

128067

60  
g-index

95  
all docs

95  
docs citations

95  
times ranked

6125  
citing authors

#	ARTICLE	IF	CITATIONS
1	All trans retinoic acid as a host-directed immunotherapy for tuberculosis. <i>Current Research in Immunology</i> , 2022, 3, 54-72.	1.2	6
2	Ion-Triggered Hydrogels Self-Assembled from Statistical Copolypeptides. <i>ACS Macro Letters</i> , 2022, 11, 323-328.	2.3	6
3	Development of collagen-poly(caprolactone)-based core-shell scaffolds supplemented with proteoglycans and glycosaminoglycans for ligament repair. <i>Materials Science and Engineering C</i> , 2021, 120, 111657.	3.8	10
4	Three-dimensionally printable shear-thinning triblock copolypeptide hydrogels with antimicrobial potency. <i>Biomaterials Science</i> , 2021, 9, 5144-5149.	2.6	8
5	Gene activated scaffolds incorporating star-shaped polypeptide-pDNA nanomedicines accelerate bone tissue regeneration <i>in vivo</i> . <i>Biomaterials Science</i> , 2021, 9, 4984-4999.	2.6	20
6	Translational Studies on the Potential of a VEGF Nanoparticle-Loaded Hyaluronic Acid Hydrogel. <i>Pharmaceutics</i> , 2021, 13, 779.	2.0	9
7	A Tissue-Engineered Tracheobronchial In Vitro Co-Culture Model for Determining Epithelial Toxicological and Inflammatory Responses. <i>Biomedicines</i> , 2021, 9, 631.	1.4	1
8	An Automated Culture System for Use in Preclinical Testing of Host-Directed Therapies for Tuberculosis. <i>Journal of Visualized Experiments</i> , 2021, , .	0.2	1
9	Antimicrobial and degradable triazolinedione (TAD) crosslinked polypeptide hydrogels. <i>Journal of Materials Chemistry B</i> , 2021, 9, 5456-5464.	2.9	10
10	Development and clinical translation of tubular constructs for tracheal tissue engineering: a review. <i>European Respiratory Review</i> , 2021, 30, 210154.	3.0	26
11	Development of a nanomedicine-loaded hydrogel for sustained delivery of an angiogenic growth factor to the ischaemic myocardium. <i>Drug Delivery and Translational Research</i> , 2020, 10, 440-454.	3.0	21
12	Biocompatible polypeptide-based interpenetrating network (IPN) hydrogels with enhanced mechanical properties. <i>Journal of Materials Chemistry B</i> , 2020, 8, 7785-7791.	2.9	16
13	Development of a Sustained Release Nano-In-Gel Delivery System for the Chemotactic and Angiogenic Growth Factor Stromal-Derived Factor 1 $\alpha$ . <i>Pharmaceutics</i> , 2020, 12, 513.	2.0	9
14	Cardiac responses to biomaterials. , 2020, , 573-599.		2
15	In Vitro and In Vivo Assessment of PEGylated PEI for Anti-IL-8/CxCL-1 siRNA Delivery to the Lungs. <i>Nanomaterials</i> , 2020, 10, 1248.	1.9	13
16	Precise Targeting of miRNA Sites Restores CFTR Activity in CF Bronchial Epithelial Cells. <i>Molecular Therapy</i> , 2020, 28, 1190-1199.	3.7	39
17	Amphiphilic Star Polypept(o)ides as Nanomeric Vectors in Mucosal Drug Delivery. <i>Biomacromolecules</i> , 2020, 21, 2455-2462.	2.6	17
18	The Fabrication and in vitro Evaluation of Retinoic Acid-Loaded Electrospun Composite Biomaterials for Tracheal Tissue Regeneration. <i>Frontiers in Bioengineering and Biotechnology</i> , 2020, 8, 190.	2.0	17

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19	Respiratory Drug/Vaccine Delivery Using Nanoparticles. AAPS Advances in the Pharmaceutical Sciences Series, 2020, , 125-154.	0.2	2
20	Rapid healing of a critical-sized bone defect using a collagen-hydroxyapatite scaffold to facilitate low dose, combinatorial growth factor delivery. Journal of Tissue Engineering and Regenerative Medicine, 2019, 13, 1843-1853.	1.3	38
21	Poly(ethylene glycol)-Based Peptidomimetic $\alpha$ -PEGtide of Oligo-Arginine Allows for Efficient siRNA Transfection and Gene Inhibition. ACS Omega, 2019, 4, 10078-10088.	1.6	11
22	Transfection of autologous host cells in vivo using gene activated collagen scaffolds incorporating star-polypeptides. Journal of Controlled Release, 2019, 304, 191-203.	4.8	27
23	Anisotropic polymer nanoparticles with solvent and temperature dependent shape and size from triblock copolymers. Polymer Chemistry, 2019, 10, 3436-3443.	1.9	7
24	Nebulised lipid-polymer hybrid nanoparticles for the delivery of a therapeutic anti-inflammatory microRNA to bronchial epithelial cells. ERJ Open Research, 2019, 5, 00161-2018.	1.1	35
25	Effective nebulization of interferon- $\beta$ using a novel vibrating mesh. Respiratory Research, 2019, 20, 66.	1.4	27
26	Gelating polypeptide matrices based on the difunctional $\alpha$ -carboxyanhydride diaminopimelic acid crosslinker. Journal of Polymer Science Part A, 2019, 57, 1209-1215.	2.5	7
27	Evaluation of the Immunomodulatory Effects of All-Trans Retinoic Acid Solid Lipid Nanoparticles and Human Mesenchymal Stem Cells in an A549 Epithelial Cell Line Model. Pharmaceutical Research, 2019, 36, 50.	1.7	13
28	Inhalable poly(lactic-co-glycolic acid) (PLGA) microparticles encapsulating all-trans-Retinoic acid (ATRA) as a host-directed, adjunctive treatment for Mycobacterium tuberculosis infection. European Journal of Pharmaceutics and Biopharmaceutics, 2019, 134, 153-165.	2.0	40
29	Degradable 3D-Printed Hydrogels Based on Star-Shaped Copolypeptides. Biomacromolecules, 2018, 19, 2691-2699.	2.6	38
30	Bioinspired Star-Shaped Poly(L-lysine) Polypeptides: Efficient Polymeric Nanocarriers for the Delivery of DNA to Mesenchymal Stem Cells. Molecular Pharmaceutics, 2018, 15, 1878-1891.	2.3	38
31	A Novel Methodology for Bio-electrospraying Mesenchymal Stem Cells that Maintains Differentiation, Immunomodulatory and Pro-reparative Functions. Journal of Medical and Biological Engineering, 2018, 38, 497-513.	1.0	11
32	X Chromosome-encoded MicroRNAs Are Functionally Increased in Cystic Fibrosis Monocytes. American Journal of Respiratory and Critical Care Medicine, 2018, 197, 668-670.	2.5	7
33	Knockdown of Gene Expression in Macrophages by microRNA Mimic-Containing Poly (Lactic-co-glycolic Acid) Microparticles. Medicines (Basel, Switzerland), 2018, 5, 133.	0.7	9
34	Disulphide crosslinked star block copolypeptide hydrogels: influence of block sequence order on hydrogel properties. Polymer Chemistry, 2018, 9, 3908-3916.	1.9	12
35	Biopolymer-Based Nanoparticles for Cystic Fibrosis Lung Gene Therapy Studies. Materials, 2018, 11, 122.	1.3	42
36	Facile Approach to Covalent Copolypeptide Hydrogels and Hybrid Organohydrogels. ACS Macro Letters, 2018, 7, 944-949.	2.3	12

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37	Nanotechnology approaches to pulmonary drug delivery. , 2018, , 221-253.		14
38	Controlled release of vascular endothelial growth factor from spray-dried alginate microparticles in collagen-hydroxyapatite scaffolds for promoting vascularization and bone repair. Journal of Tissue Engineering and Regenerative Medicine, 2017, 11, 1097-1109.	1.3	88
39	Retinoic Acid-Loaded Collagen-Hyaluronate Scaffolds: A Bioactive Material for Respiratory Tissue Regeneration. ACS Biomaterials Science and Engineering, 2017, 3, 1381-1393.	2.6	16
40	A methylcellulose and collagen based temperature responsive hydrogel promotes encapsulated stem cell viability and proliferation in vitro. Drug Delivery and Translational Research, 2017, 7, 132-146.	3.0	24
41	Translating the role of osteogenic-angiogenic coupling in bone formation: Highly efficient chitosan-pDNA activated scaffolds can accelerate bone regeneration in critical-sized bone defects. Biomaterials, 2017, 149, 116-127.	5.7	106
42	An efficient, non-viral dendritic vector for gene delivery in tissue engineering. Gene Therapy, 2017, 24, 681-691.	2.3	24
43	Direct UV-Triggered Thiolâ€“ene Cross-Linking of Electrospun Polyester Fibers from Unsaturated Poly(macrolactone)s and Their Drug Loading by Solvent Swelling. Biomacromolecules, 2017, 18, 4292-4298.	2.6	21
44	Anti-GD2-ch14.18/CHO coated nanoparticles mediate glioblastoma (GBM)-specific delivery of the aromatase inhibitor, Letrozole, reducing proliferation, migration and chemoresistance in patient-derived GBM tumor cells. Oncotarget, 2017, 8, 16605-16620.	0.8	30
45	Treatment of Mycobacterium tuberculosis-Infected Macrophages with Poly(Lactic-Co-Glycolic Acid) Microparticles Drives NFÎ±B and Autophagy Dependent Bacillary Killing. PLoS ONE, 2016, 11, e0149167.	1.1	47
46	Multifunctional biomaterials from the sea: Assessing the effects of chitosan incorporation into collagen scaffolds on mechanical and biological functionality. Acta Biomaterialia, 2016, 43, 160-169.	4.1	123
47	Sharpening nature's tools for efficient tuberculosis control: A review of the potential role and development of host-directed therapies and strategies for targeted respiratory delivery. Advanced Drug Delivery Reviews, 2016, 102, 33-54.	6.6	29
48	Biomaterialâ€“Enhanced Cell and Drug Delivery: Lessons Learned in the Cardiac Field and Future Perspectives. Advanced Materials, 2016, 28, 5648-5661.	11.1	63
49	Delivering Nucleicâ€“Acid Based Nanomedicines on Biomaterial Scaffolds for Orthopedic Tissue Repair: Challenges, Progress and Future Perspectives. Advanced Materials, 2016, 28, 5447-5469.	11.1	95
50	Glyco-copolyptide grafted magnetic nanoparticles: the interplay between particle dispersion and RNA loading. Polymer Chemistry, 2016, 7, 3221-3224.	1.9	4
51	The development of a tissue-engineered tracheobronchial epithelial model using a bilayered collagen-hyaluronate scaffold. Biomaterials, 2016, 85, 111-127.	5.7	53
52	Hydrogels from amphiphilic star block copolypeptides. RSC Advances, 2016, 6, 23370-23376.	1.7	27
53	Starâ€“Shaped Polypeptides: Synthesis and Opportunities for Delivery of Therapeutics. Macromolecular Rapid Communications, 2015, 36, 1862-1876.	2.0	62
54	High-throughput methods for screening liposomeâ€“macrophage cell interaction. Journal of Liposome Research, 2015, 25, 211-221.	1.5	9

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55	Respiratory Tissue Engineering: Current Status and Opportunities for the Future. Tissue Engineering - Part B: Reviews, 2015, 21, 323-344.	2.5	25
56	High-content analysis for drug delivery and nanoparticle applications. Drug Discovery Today, 2015, 20, 942-957.	3.2	39
57	Development of a gene-activated scaffold platform for tissue engineering applications using chitosan-pDNA nanoparticles on collagen-based scaffolds. Journal of Controlled Release, 2015, 210, 84-94.	4.8	95
58	Development of collagen-hydroxyapatite scaffolds incorporating PLGA and alginate microparticles for the controlled delivery of rhBMP-2 for bone tissue engineering. Journal of Controlled Release, 2015, 198, 71-79.	4.8	187
59	Combinatorial Gene Therapy Accelerates Bone Regeneration: Non-Viral Dual Delivery of VEGF and BMP2 in a Collagen-Nanohydroxyapatite Scaffold. Advanced Healthcare Materials, 2015, 4, 223-227.	3.9	151
60	TRIM68 Negatively Regulates IFN- $\beta$ Production by Degrading TRK Fused Gene, a Novel Driver of IFN- $\beta$ Downstream of Anti-Viral Detection Systems. PLoS ONE, 2014, 9, e101503.	1.1	23
61	Therapeutic Aerosol Bioengineering of siRNA for the Treatment of Inflammatory Lung Disease by TNF- $\alpha$ Gene Silencing in Macrophages. Molecular Pharmaceutics, 2014, 11, 4270-4279.	2.3	21
62	Long noncoding RNA are aberrantly expressed in vivo in the cystic fibrosis bronchial epithelium. International Journal of Biochemistry and Cell Biology, 2014, 52, 184-191.	1.2	51
63	Molecular weight and architectural dependence of well-defined star-shaped poly(lysine) as a gene delivery vector. Biomaterials Science, 2013, 1, 1223.	2.6	81
64	High levels of ephrinB2 over-expression increases the osteogenic differentiation of human mesenchymal stem cells and promotes enhanced cell mediated mineralisation in a polyethyleneimine-ephrinB2 gene-activated matrix. Journal of Controlled Release, 2013, 165, 173-182.	4.8	52
65	Chitosan for Gene Delivery and Orthopedic Tissue Engineering Applications. Molecules, 2013, 18, 5611-5647.	1.7	133
66	Smart non-viral delivery systems for targeted delivery of RNAi to the lungs. Therapeutic Delivery, 2013, 4, 59-76.	1.2	12
67	Non-viral gene-activated matrices. Organogenesis, 2013, 9, 22-28.	0.4	40
68	Targeting miRNA-based medicines to cystic fibrosis airway epithelial cells using nanotechnology. International Journal of Nanomedicine, 2013, 8, 3907.	3.3	43
69	Therapeutic modulation of miRNA for the treatment of proinflammatory lung diseases. Expert Review of Anti-Infective Therapy, 2012, 10, 359-368.	2.0	35
70	Star polypeptides by NCA polymerisation from dendritic initiators: synthesis and enzyme controlled payload release. Polymer Chemistry, 2012, 3, 2825.	1.9	50
71	The development of non-viral gene-activated matrices for bone regeneration using polyethyleneimine (PEI) and collagen-based scaffolds. Journal of Controlled Release, 2012, 158, 304-311.	4.8	93
72	Therapeutic aerosol bioengineering of targeted, inhalable microparticle formulations to treat Mycobacterium tuberculosis (MTb). Journal of Materials Science: Materials in Medicine, 2012, 23, 89-98.	1.7	22

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73	Screening of siRNA nanoparticles for delivery to airway epithelial cells using high-content analysis. <i>Therapeutic Delivery</i> , 2011, 2, 987-999.	1.2	17
74	The Application of High-Content Analysis in the Study of Targeted Particulate Delivery Systems for Intracellular Drug Delivery to Alveolar Macrophages. <i>Molecular Pharmaceutics</i> , 2011, 8, 1100-1112.	2.3	34
75	Inhalable, bioresponsive microparticles for targeted drug delivery in the lungs. <i>Journal of Pharmacy and Pharmacology</i> , 2011, 63, 369-375.	1.2	21
76	Cellular targeting and trafficking of drug delivery systems for the prevention and treatment of MTb. <i>Tuberculosis</i> , 2011, 91, 93-97.	0.8	30
77	The Effects of Excipients and Particle Engineering on the Biophysical Stability and Aerosol Performance of Parathyroid Hormone (1-34) Prepared as a Dry Powder for Inhalation. <i>AAPS PharmSciTech</i> , 2011, 12, 304-311.	1.5	33
78	The Effect of Liposome Encapsulation on the Pharmacokinetics of Recombinant Secretory Leukocyte Protease Inhibitor (rSLPI) Therapy after Local Delivery to a Guinea Pig Asthma Model. <i>Pharmaceutical Research</i> , 2011, 28, 2233-2245.	1.7	16
79	Targeted Liposomal Drug Delivery to Monocytes and Macrophages. <i>Journal of Drug Delivery</i> , 2011, 2011, 1-11.	2.5	293
80	<i>In Vitro</i> Activities of Synthetic Host Defense Propeptides Processed by Neutrophil Elastase against Cystic Fibrosis Pathogens. <i>Antimicrobial Agents and Chemotherapy</i> , 2011, 55, 2487-2489.	1.4	17
81	A Dry Powder Formulation of Liposome-Encapsulated Recombinant Secretory Leukocyte Protease Inhibitor (rSLPI) for Inhalation: Preparation and Characterisation. <i>AAPS PharmSciTech</i> , 2010, 11, 1411-1421.	1.5	30
82	Delivery of rSLPI in a liposomal carrier for inhalation provides protection against cathepsin L degradation. <i>Journal of Microencapsulation</i> , 2009, 26, 513-522.	1.2	34
83	A comparative study of a range of polymeric microspheres as potential carriers for the inhalation of proteins. <i>International Journal of Pharmaceutics</i> , 2008, 358, 159-167.	2.6	99
84	Inhalable siRNA: Potential as a Therapeutic Agent in the Lungs. <i>Molecular Pharmaceutics</i> , 2008, 5, 559-566.	2.3	91
85	<i>In vivo</i> animal models for drug delivery across the lung mucosal barrier. <i>Advanced Drug Delivery Reviews</i> , 2007, 59, 1133-1151.	6.6	132
86	Increased Intracellular Targeting to Airway Cells Using Octaarginine-Coated Liposomes: <i>In Vitro</i> Assessment of Their Suitability for Inhalation. <i>Molecular Pharmaceutics</i> , 2006, 3, 104-112.	2.3	55
87	Carrier-based strategies for targeting protein and peptide drugs to the lungs. <i>AAPS Journal</i> , 2005, 7, E20-E41.	2.2	130
88	Secretory leucoprotease inhibitor binds to NF- $\kappa$ B binding sites in monocytes and inhibits p65 binding. <i>Journal of Experimental Medicine</i> , 2005, 202, 1659-1668.	4.2	204
89	Cell transfection with polycationic cyclodextrin vectors. <i>European Journal of Pharmaceutical Sciences</i> , 2004, 21, 625-633.	1.9	135
90	Mechanistic studies on nonviral gene delivery to the intestine using <i>in vitro</i> differentiated cell culture models and an <i>in vivo</i> rat intestinal loop. <i>Pharmaceutical Research</i> , 2003, 20, 569-575.	1.7	33

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91	Modified poly(L-lysine)-based structures as novel antimicrobials for diabetic foot infections, an in-vitro study. HRB Open Research, 0, 5, 4.	0.3	2
92	Systematic study of enzymatic degradation and plasmid DNA complexation of mucus penetrating star-shaped lysine/sarcosine polypept(o)ides with different block arrangements. Macromolecular Bioscience, 0, , 2200175.	2.1	3