RESEARCH & PUBLICATIONS

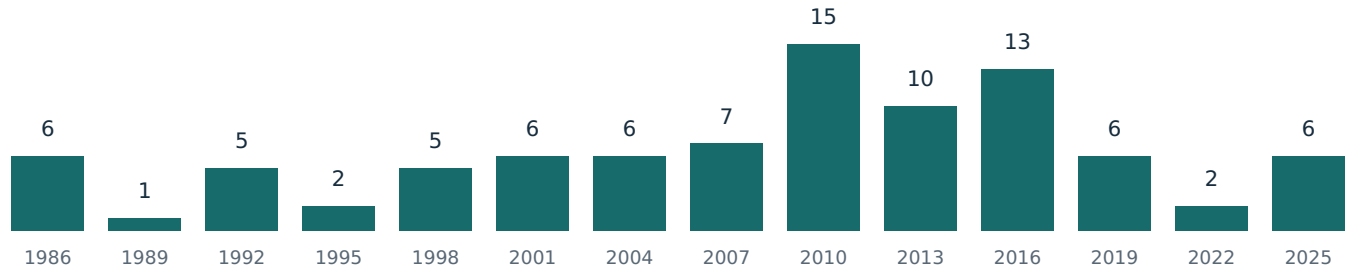
Ian Chambers

A publication record at a glance

90	21,156	44
ARTICLES	CITATIONS	h-INDEX

PUBLICATION ACTIVITY

Articles grouped into 3-year periods



MOST CITED IN THIS LIST

Formation of Pluripotent Stem Cells in the Mammalian Embryo Depends on the POU Transcription Factor Oct4 — 3,239

1998 Cell

Functional Expression Cloning of Nanog, a Pluripotency Sustaining Factor in Embryonic Stem Cells — 3,131

2003 Cell

BMP Induction of Id Proteins Suppresses Differentiation and Sustains Embryonic Stem Cell Self-Renewal in Collaboration With STAT3 — 2,162

2003 Cell

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Ordered by publication year, newest first

2026

01 **OTX2 Controls Chromatin Accessibility to Direct Somatic Versus Germline Differentiation**
1 citations
EMBO Reports · 27, 341-366
https://exaly.com/article/208057918

02 **NANOG Assembles Into Self-Limiting Aging Micelles That Drive a Sol-Gel Transition and Modulate DNA Dynamics**
0 citations
Physical Review Letters · 137, 018402
https://exaly.com/article/214279795

03 **TRIM37 Interacts With TRIM28 to Maintain Primordial Germ Cell Identity During Migration**
0 citations
Cell Research · 36, 1-19
https://exaly.com/article/216621567

2025

04 **Author Reply to Peer Reviews of OTX2 Controls Chromatin Accessibility to Direct Somatic Versus Germline Differentiation**
0 citations
Journal unavailable
https://exaly.com/article/200884202

05 **NANOG Is Repurposed After Implantation to Repress Sox2 and Begin Pluripotency Extinction**
2 citations
EMBO Journal · 44, 5337-5374
https://exaly.com/article/203940780

06 **TET Knockout Cells Transit Between Pluripotent States and Exhibit Precocious Germline Entry**
2 citations
EMBO Journal · 44, 7060-7089
https://exaly.com/article/206406429

2024

07 **Inhibition of HDAC Activity Directly Reprograms Murine Embryonic Stem Cells to Trophoblast Stem Cells**
28 citations
Developmental Cell · 59, 2101-2117.e8
https://exaly.com/article/186959751

2022

08 **Differential Repression of Otx2 Underlies the Capacity of NANOG and ESRRB to Induce Germline Entry**
7 citations
Stem Cell Reports · 17, 35-42
https://exaly.com/article/125025653

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2021

09 **Phosphorylation of NANOG by Casein Kinase I Regulates Embryonic Stem Cell Self-Renewal**
6 citations
FEBS Letters · 595, 14-25
https://exaly.com/article/77748294

10 **Direct Repression of Nanog and Oct4 by OTX2 Modulates the Contribution of Epiblast-Derived Cells to Germline and Somatic Lineage**
13 citations
Development (Cambridge)
https://exaly.com/article/80449796

11 **Loss of Resf1 Reduces the Efficiency of Embryonic Stem Cell Self-Renewal and Germline Entry**
5 citations
Life Science Alliance · 4, e202101190
https://exaly.com/article/91238945

2020

12 **TET1 Interacts Directly With NANOG via Independent Domains Containing Hydrophobic and Aromatic Residues**
4 citations
Journal of Molecular Biology · 432, 6075-6091
https://exaly.com/article/75477319

2019

13 **Segregation of the Mouse Germline and Soma**
9 citations
Cell Cycle · 18, 3064-3071
https://exaly.com/article/72783877

14 **Endogenous Epitope-Tagging of Tet1, Tet2 and Tet3 Identifies TET2 as a Naïve Pluripotency Marker**
17 citations
Life Science Alliance · 2, e201900516
https://exaly.com/article/88648399

2018

15 **Dynamic Changes in Sox2 Spatio-Temporal Expression Promote the Second Cell Fate Decision Through Fgf4/Fgfr2 Signaling in Preimplantation Mouse Embryos**
29 citations
Biochemical Journal · 475, 1075-1089
https://exaly.com/article/68828979

16 **Esrrb Complementation Rescues Development of Nanog-Null Germ Cells**
45 citations
Cell Reports · 22, 332-339
https://exaly.com/article/69141820

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2018 / continued

17 OTX2 Restricts Entry to the Mouse Germline — 66 citations
Nature · 562, 595-599
https://exaly.com/article/70684309

18 Esrrb Extinction Triggers Dismantling of Naïve Pluripotency and Marks Commitment to Differentiation — 27 citations
EMBO Journal
https://exaly.com/article/70691626

19 Functional Dissection of the Enhancer Repertoire in Human Embryonic Stem Cells — 188 citations
Cell Stem Cell · 23, 276-288.e8
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2017

20 Distinct Contributions of Tryptophan Residues Within the Dimerization Domain to Nanog Function — 12 citations
Journal of Molecular Biology · 429, 1544-1553
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21 Functional Antagonism Between OTX2 and NANOG Specifies a Spectrum of Heterogeneous Identities in Embryonic Stem Cells — 29 citations
Stem Cell Reports · 9, 1642-1659
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22 A New Twist to Sin3 Complexes in Pluripotent Cells — 7 citations
EMBO Journal · 36, 2184-2186
https://exaly.com/article/67612505

23 Distinct SoxB1 Networks Are Required for Naïve and Primed Pluripotency. — 21 citations
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https://exaly.com/article/68429967

24 Author Response: Distinct SoxB1 Networks Are Required for Naïve and Primed Pluripotency — 1 citations
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2016

25 SOX2-Dependent Regulation of Pluripotent Stem Cells — 4 citations
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2016 / continued

26 The Pluripotency Factor Nanog Regulates Pericentromeric Heterochromatin Organization in Mouse Embryonic Stem Cells — 55 citations

Genes and Development · 30, 1101-1115

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27 Distinct Signaling Requirements for the Establishment of ESC Pluripotency in Late-Stage EpiSCs — 29 citations

Cell Reports · 15, 787-800

https://exaly.com/article/65181917

2015

28 Selective Influence of Sox2 on POU Transcription Factor Binding in Embryonic and Neural Stem Cells — 48 citations

EMBO Reports · 16, 1177-91

https://exaly.com/article/60374827

29 Lessons in Learning — 6 citations

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30 Reprogramming Roadblocks Are System Dependent — 31 citations

Stem Cell Reports · 5, 350-364

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2014

31 Transcription Factor Heterogeneity in Pluripotent Stem Cells: A Stochastic Advantage — 166 citations

Development (Cambridge) · 141, 2173-2181

https://exaly.com/article/59731676

2013

32 The Pluripotent Genome in Three Dimensions Is Shaped Around Pluripotency Factors — 257 citations

Nature · 501, 227-231

https://exaly.com/article/54809419

33 The Role of Pluripotency Gene Regulatory Network Components in Mediating Transitions Between Pluripotent Cell States — 49 citations

Current Opinion in Genetics and Development · 23, 504-511

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2013 / continued

34 **Reduced Oct4 Expression Directs a Robust Pluripotent State With Distinct Signaling Activity and Increased Enhancer Occupancy by Oct4 and Nanog**

Cell Stem Cell · 12, 531-545

https://exaly.com/article/55865079

169 citations

35 **A Direct Physical Interaction Between Nanog and Sox2 Regulates Embryonic Stem Cell Self-Renewal**

EMBO Journal · 32, 2231-47

https://exaly.com/article/55996210

116 citations

36 **Hes1 Desynchronizes Differentiation of Pluripotent Cells by Modulating STAT3 Activity.**

Stem Cells · 31, 1511-22

https://exaly.com/article/56650331

31 citations

37 **Fondation René Touraine**

Experimental Dermatology · 22, 682-693

https://exaly.com/article/56722791

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38 **Stem Cell Powwow in Squaw Valley**

Development (Cambridge) · 139, 2457-2461

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39 **Bmi1 Facilitates Primitive Endoderm Formation by Stabilizing Gata6 During Early Mouse Development**

Genes and Development · 26, 1445-1458

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40 **OCT4/SOX2-Independent Nanog Autorepression Modulates Heterogeneous Nanog Gene Expression in Mouse ES Cells**

EMBO Journal · 31, 4547-62

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41 **Esrrb Is a Direct Nanog Target Gene That Can Substitute for Nanog Function in Pluripotent Cells**

Cell Stem Cell · 11, 477-490

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314 citations

42 **The Developmental Dismantling of Pluripotency Is Reversed by Ectopic Oct4 Expression**

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43 **Quantification of Pluripotency Transcription Factor Levels in Embryonic Stem Cells by Flow Cytometry**
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https://exaly.com/article/50155181
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44 **The Function of Nanog in Pluripotency**
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45 **The X-Inactivation Trans-Activator Rnf12 Is Negatively Regulated by Pluripotency Factors in Embryonic Stem Cells**
Human Genetics · 130, 255-264
https://exaly.com/article/51307536
52 citations

46 **The Evolving Biology of Cell Reprogramming**
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https://exaly.com/article/51812476
39 citations

47 **Transcription Factor Heterogeneity and Epiblast Pluripotency**
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48 **Molecular Coupling of Tsix Regulation and Pluripotency**
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49 **Is the Umbilical Cord a Lifeline for Regenerative Therapy?**
Cell Cycle · 9, 1464
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50 **An Oct4-Centered Protein Interaction Network in Embryonic Stem Cells**
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https://exaly.com/article/49553086
503 citations

51 **A Distinct Expression Pattern in Mammalian Testes Indicates a Conserved Role for NANOG in Spermatogenesis**
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52 **Pluripotency Determining Factors and Uses Thereof**
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53 **The Transcriptional Foundation of Pluripotency**
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Development (Cambridge) · 136, 2311-2322
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54 **Expression-Independent Gene Trap Vectors for Random and Targeted Mutagenesis in Embryonic Stem Cells.**
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Nucleic Acids Research · 37, e129
https://exaly.com/article/45736461

55 **Nanog Is the Gateway to the Pluripotent Ground State**
991 citations
Cell · 138, 722-737
https://exaly.com/article/46683306

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56 **Molecular Coupling of Xist Regulation and Pluripotency**
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Science · 321, 1693-5
https://exaly.com/article/43966969

57 **Estrogen-Related Receptor Beta Interacts With Oct4 to Positively Regulate Nanog Gene Expression**
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Molecular and Cellular Biology · 28, 5986-95
https://exaly.com/article/44621470

58 **The Pluripotency Rheostat Nanog Functions as a Dimer**
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59 **Nanog Safeguards Pluripotency and Mediates Germline Development**
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60 **Nanog Promotes Transfer of Pluripotency After Cell Fusion**
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63 **Mechanisms and Factors in Embryonic Stem Cell Self-Renewal**
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64 **Self-Renewal of Teratocarcinoma and Embryonic Stem Cells**
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65 **The Molecular Basis of Pluripotency in Mouse Embryonic Stem Cells**
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66 **Engineering the Mouse Genome With Bacterial Artificial Chromosomes to Create Multipurpose Alleles**
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67 **Functional Expression Cloning of Nanog, a Pluripotency Sustaining Factor in Embryonic Stem Cells**
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69 **Phenotypic Complementation Establishes Requirements for Specific POU Domain and Generic Transactivation Function of Oct-3/4 in Embryonic Stem Cells**
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70 Functional Gene Screening in Embryonic Stem Cells Implicates Wnt Antagonism in Neural Differentiation

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71 Physiological Rationale for Responsiveness of Mouse Embryonic Stem Cells to gp130 Cytokines

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72 Signaling Mechanisms Regulating Self-Renewal and Differentiation of Pluripotent Embryonic Stem Cells

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73 Suppression of SHP-2 and ERK Signalling Promotes Self-Renewal of Mouse Embryonic Stem Cells

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74 Formation of Pluripotent Stem Cells in the Mammalian Embryo Depends on the POU Transcription Factor Oct4

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https://exaly.com/article/29269772

75 Paracrine Induction of Stem Cell Renewal by LIF-Deficient Cells: A New ES Cell Regulatory Pathway

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78 **Complementary Tissue-Specific Expression of LIF and LIF-Receptor mRNAs in Early Mouse Embryogenesis**

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83 **Transcriptional Up-Regulation of the Mouse Cytosolic Glutathione Peroxidase Gene in Erythroid Cells Is Due to a Tissue-Specific 3' Enhancer Containing Functionally Important CACC/GT Motifs and Binding Sites for GATA and Ets Transcription Factors**

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87 **Changes in Minor Transcripts From the Alpha 1 and Beta Maj Globin and Glutathione Peroxidase Genes During Erythropoiesis.**

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