## Nature analysis of papers alleged to come from paper mills

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Journal	)			Expression of				Data up to 18 March 2020;
	which sleuths /journals		before Jan	concern since		1	marked*	*Journal may have
	· · · ·	2020	2020, or	; ;	before Jan	2020		investigated and decided not
	paper mills since Jan		retraction		2020			to retract or otherwise alter
	2020		date unclear					the paper. Or it might be in
								the process of investigating.
European Review for Medical and	355	142	1	1			211	
Pharmacological Sciences								
Journal of Cellular Biochemistry	137	23	5				109	
Artificial Cells Nanomedicine and	83	18		17			48	
Biotechnology								
Cellular Physiology and Biochemistry	82	13		2		2	65	
Biomedicine & Pharmacotherapy	80	8					72	
Journal of Cellular Physiology	74	4					70	
RSC Advances	68†	68						†Alleged by journal
Oncology Research Featuring	63	9	1				53	
Preclinical and Clinical Cancer								
Therapeutics								
Brazilian Journal of Medical and	31	6					25	
Biological Research								
Experimental and Molecular Pathology	29	2					27	
Life Sciences	28	7	1				20	
The Anatomical Record	21	7					14	
Bioscience Reports	17	3		10	~~~~~~		4	
Cancer Biomarkers	17	4					13	
BioFactors	16						16	
International Journal of Clinical and	14	~~~~~~					14	1
Experimental Medicine								
Journal of B.U.ON	14						14	

American Journal of Cancer Research	12	7		5	
International Journal of	12		12		
Immunopathology and Pharmacology					
Medical Science Monitor	12			12	
International Immunopharmacology	11	1		10	
OncoTarget	9			9	
Tumor Biology	9			9	
BMC Cancer	8			8	
Journal of Cellular and Molecular	8	6		2	
Medicine					
Naunyn-Schmiedeberg s Archives of	8‡	8			‡7 alleged by sleuths, 1 by
Pharmacology					journal. (Journal has stated
					that 2 others to be retracted,
					but not said which ones).
Neoplasma	8			 8	
Phytotherapy Research	8	8		 	
Cancer Biotherapy &	7			7	
Radiopharmaceuticals				 	
Biochemical and Biophysical Research	6			1 5	
Communications				 	
Molecular and Cellular Biochemistry	6			6	
Pharmacological Reports	6	6			
International journal of clinical and	5	1		4	
experimental pathology					
Acta Pharmacologica Sinica	4			4	
European Journal of Pharmacology	4	1		3	
International Journal of Biological	4			4	
Macromolecules					
Iranian Journal of Basic Medical	4			4	
Sciences					
Journal of Physiology and Biochemistry	4		1	3	
Oncology Letters	4	2		2	
OncoTargets and Therapy	4	3		1	

Biological Chemistry	3				3	
Cell Biochemistry and Function	3	1	 	 	2	
Cell Cycle	3		 	 	3	
International Journal of Oncology	3				3	
International Journal of Oncology Journal of Experimental & Clinical Cance	3	1			2	
Molecular Immunology	3				3	
Pathology - Research and Practice	3				3	
Pharmaceutical Biology	3				3	
Pharmazie	3				3	
American journal of translational	2				2	
research						
Bone Joint Research	2				2	
Brain Research Bulletin	2				2	
Cell Biology International	2				2	
Cell Proliferation	2				2	
Chemico-Biological Interactions	2				2	
CNS Neuroscience & Therapeutics	2	1			1	
Cytogenetic and Genome Research	2				2	
DNA and Cell Biology	2	1			1	
Experimental & Molecular Medicine	2				2	
Experimental and Therapeutic	2				2	
Medicine						
Human Cell	2	1			1	
International Heart Journal	2				2	
International Journal of Biochemistry	2	1			1	
and Cell Biology						
IUBMB Life	2				2	
Journal of Clinical Laboratory Analysis	2				2	
Molecular Medicine	2				2	
Molecules and Cells	2			 	2	
Neuroscience Letters	2				2	
Oncology Reports	2				2	
Open Biology	2	2				
Pancreatology	2				2	

Pathology & Oncology Research	2						2	1
()	}						} <u>-</u>	
Technology in Cancer Research &	2						2	
Treatment								
Acta Ophthalmologica	1						1	
Advances in Clinical and Experimental	1						1	
Medicine								
American Journal of Physiology Cell	1						1	
Physiology								
American journal of physiology.	1						1	
Gastrointestinal and liver physiology								
Basic & Clinical Pharmacology &	1						1	
Toxicology								
Biochemistry and Cell Biology	1						1	
Calcified Tissue International	1						1	
Cancer Chemotherapy and	1						1	
Pharmacology								
Cancer gene therapy	1					1		
Cancer Letters	1						1	
Cancer Management and Research	1			1				
Cancer Medicine	1						1	
Cancer Science	1	1						
Cardiology Journal	1						1	
Cellular Signalling	1					*****	1	
Chinese Medical Journal	1						1	
Digestive diseases and sciences	1						1	}
European Journal of Medical Research	1						1	
Experimental Cell Research	1						1	
Food & Function	1†	1						†alleged by journal
Gene	1	1						
Gene Therapy	1						1	
General Physiology and Biophysics	1						1	······
Genetics and Molecular Research	1						1	
Gynecologic and Obstetric	- 1						- 1	
Investigation	-						-	
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Immunopharmacology and	1	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	1			1
Immunotoxicology						
Inflammation	1				1	
Journal of Biosciences	1				1	
Journal of Cancer	1				1	
Journal of Cardiovascular	1	1				
Pharmacology						
Journal of Drug Targeting	1				1	
Journal of molecular neuroscience : MN	1				1	
Journal of Thoracic Disease	1		 		 1	
Kaohsiung Journal of Medical Sciences	1				1	
Kidney Blood Press Res	1				1	
MedChemComm (now RSC Medicinal	1†	1				†alleged by journal
Chemistry)			 		 	
Medicine	1				1	
Molecular and Cellular Endocrinology	1		 		 1	
Molecular Carcinogenesis	1		 		 1	
Molecular Pain	1			1	 	
Molecular Therapy — Nucleic Acids	1				1	
Placenta	1		 		 1	
RNA Biology	1		 		 1	
Scientific Reports	1		 		 1	
SSRN Electronic Journal	1				 1	