

# Amrita Ahluwalia

## List of Publications by Year in descending order

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78  
papers

1,053  
citations

430874

18  
h-index

414414

32  
g-index

79  
all docs

79  
docs citations

79  
times ranked

1603  
citing authors

#	ARTICLE	IF	CITATIONS
1	Sexual Dimorphism of Rat Liver Gene Expression: Regulatory Role of Growth Hormone Revealed by Deoxyribonucleic Acid Microarray Analysis. <i>Molecular Endocrinology</i> , 2004, 18, 747-760.	3.7	127
2	ZAK: a MAP3Kinase that transduces Shiga toxin- and ricin-induced proinflammatory cytokine expression. <i>Cellular Microbiology</i> , 2008, 10, 1468-1477.	2.1	96
3	Neutralizing Anti-Vascular Endothelial Growth Factor (VEGF) Antibody Reduces Severity of Experimental Ulcerative Colitis in Rats: Direct Evidence for the Pathogenic Role of VEGF. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2009, 328, 749-757.	2.5	70
4	Angiogenesis in gastric mucosa: An important component of gastric erosion and ulcer healing and its impairment in aging. <i>Journal of Gastroenterology and Hepatology (Australia)</i> , 2014, 29, 112-123.	2.8	64
5	Early endothelial damage and increased colonic vascular permeability in the development of experimental ulcerative colitis in rats and mice. <i>Laboratory Investigation</i> , 2012, 92, 9-21.	3.7	55
6	Gastric Cytoprotection Beyond Prostaglandins: Cellular and Molecular Mechanisms of Gastroprotective and Ulcer Healing Actions of Antacids. <i>Current Pharmaceutical Design</i> , 2012, 19, 126-132.	1.9	48
7	Aging Gastropathy—Novel Mechanisms: Hypoxia, Up-regulation of Multifunctional Phosphatase PTEN, and Proapoptotic Factors. <i>Gastroenterology</i> , 2007, 133, 1938-1947.e1.	1.3	45
8	Role of Dopamine and D2 Dopamine Receptor in the Pathogenesis of Inflammatory Bowel Disease. <i>Digestive Diseases and Sciences</i> , 2015, 60, 2963-2975.	2.3	45
9	Increased susceptibility of aging gastric mucosa to injury: The mechanisms and clinical implications. <i>World Journal of Gastroenterology</i> , 2014, 20, 4467.	3.3	44
10	The Critical Role of Growth Factors in Gastric Ulcer Healing: The Cellular and Molecular Mechanisms and Potential Clinical Implications. <i>Cells</i> , 2021, 10, 1964.	4.1	42
11	VEGF and Colon Cancer Growth Beyond Angiogenesis: Does VEGF Directly Mediate Colon Cancer Growth Via a Non-angiogenic Mechanism?. <i>Current Pharmaceutical Design</i> , 2014, 20, 1041-1044.	1.9	40
12	Melatonin signaling in mitochondria extends beyond neurons and neuroprotection: Implications for angiogenesis and cardio/gastroprotection. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, E1942-E1943.	7.1	33
13	Confocal laser endomicroscopy: A new gold standard for the assessment of mucosal healing in ulcerative colitis. <i>Journal of Gastroenterology and Hepatology (Australia)</i> , 2015, 30, 85-92.	2.8	31
14	Shiga toxin 2-induced intestinal pathology in infant rabbits is A-subunit dependent and responsive to the tyrosine kinase and potential ZAK inhibitor imatinib. <i>Frontiers in Cellular and Infection Microbiology</i> , 2012, 2, 135.	3.9	28
15	Aberrant, ectopic expression of VEGF and VEGF receptors 1 and 2 in malignant colonic epithelial cells. Implications for these cells growth via an autocrine mechanism. <i>Biochemical and Biophysical Research Communications</i> , 2013, 437, 515-520.	2.1	27
16	PTEN silencing reverses aging-related impairment of angiogenesis in microvascular endothelial cells. <i>Biochemical and Biophysical Research Communications</i> , 2010, 394, 291-296.	2.1	20
17	Key role of endothelial importin- $\beta$ in VEGF expression and gastric angiogenesis: novel insight into aging gastropathy. <i>American Journal of Physiology - Renal Physiology</i> , 2014, 306, G338-G345.	3.4	20
18	Activation of the Classical Mitogen-Activated Protein Kinases Is Part of the Shiga Toxin-Induced Ribotoxic Stress Response and May Contribute to Shiga Toxin-Induced Inflammation. <i>Infection and Immunity</i> , 2016, 84, 138-148.	2.2	20

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19	Increased susceptibility of aging gastric mucosa to injury and delayed healing: Clinical implications. World Journal of Gastroenterology, 2018, 24, 4721-4727.	3.3	20
20	An imbalance between VEGF and endostatin underlies impaired angiogenesis in gastric mucosa of aging rats. American Journal of Physiology - Renal Physiology, 2013, 305, G325-G332.	3.4	19
21	NGF protects endothelial cells from indomethacin-induced injury through activation of mitochondria and upregulation of IGF-1. Cellular Signalling, 2017, 40, 22-29.	3.6	17
22	Reduced NGF in Gastric Endothelial Cells Is One of the Main Causes of Impaired Angiogenesis in Aging Gastric Mucosa. Cellular and Molecular Gastroenterology and Hepatology, 2018, 6, 199-213.	4.5	16
23	Endothelial cells and blood vessels are major targets for COVID-19-induced tissue injury and spreading to various organs. World Journal of Gastroenterology, 2022, 28, 275-289.	3.3	15
24	Gastric mucosal injury activates bFGF gene expression and triggers preferential translation of high molecular weight bFGF isoforms through CUG-initiated, non-canonical codons. Biochemical and Biophysical Research Communications, 2011, 409, 494-499.	2.1	14
25	Modification of Delivery System Enhances MHC Nonrestricted Immunogenicity of V3 Loop Region of HIV gp120. Microbiology and Immunology, 1997, 41, 779-784.	1.4	13
26	Nerve growth factor is critical requirement for in vitro angiogenesis in gastric endothelial cells. American Journal of Physiology - Renal Physiology, 2016, 311, G981-G987.	3.4	13
27	In vivo imaging of porcine gastric enteric nervous system using confocal laser endomicroscopy & molecular neuronal probe. Journal of Gastroenterology and Hepatology (Australia), 2016, 31, 802-807.	2.8	13
28	Novel mechanisms and signaling pathways of esophageal ulcer healing: the role of prostaglandin EP2 receptors, cAMP, and pCREB. American Journal of Physiology - Renal Physiology, 2014, 307, G602-G610.	3.4	10
29	Melatonin ameliorates aging-related impaired angiogenesis in gastric endothelial cells via local actions on mitochondria and VEGF-survivin signaling. American Journal of Physiology - Renal Physiology, 2021, 321, G682-G689.	3.4	7
30	Angiotensin-Converting Enzyme Inhibitor and Angiotensin Receptor Blocker Use Associated with Reduced Mortality and Other Disease Outcomes in US Veterans with COVID-19. Drugs, 2022, 82, 43-54.	10.9	7
31	STAT3 and Importins Are Novel Mediators of Early Molecular and Cellular Responses in Experimental Duodenal Ulceration. Digestive Diseases and Sciences, 2014, 59, 297-306.	2.3	6
32	EUS-guided in vivo imaging of the porcine esophageal enteric nervous system by using needle-based confocal laser endomicroscopy. Gastrointestinal Endoscopy, 2015, 82, 1116-1120.	1.0	6
33	NSAID-induced injury of gastric epithelial cells is reversible: roles of mitochondria, AMP kinase, NGF, and PGE <sub>2</sub> . American Journal of Physiology - Renal Physiology, 2019, 317, G862-G871.	3.4	5
34	708 In-Vivo Detection By Confocal Endomicroscopy of Two Distinct Structural Abnormalities in Angioarchitecture and Increased Vascular Permeability in Colonic Mucosa of Patients with IBD in Remission: Mechanistic Implications.. Gastroenterology, 2009, 136, A-112.	1.3	3
35	385 DEDIFFERENTIATION AND REPROGRAMMING OF EPITHELIAL CELLS DURING GASTRIC ULCER HEALING IS TRIGGERED BY HYPOXIA AND A WELL-COORDINATED, SEQUENTIAL ACTIVATION OF EGFR SIGNALING: CROSS TALK WITH IGF1 AND COX2. Gastroenterology, 2021, 160, S-77-S-78.	1.3	3
36	Gastric Cytoprotection Beyond Prostaglandins: Cellular and Molecular Mechanisms of Gastroprotective and Ulcer Healing Actions of Antacids. Current Pharmaceutical Design, 2012, 19, 126-132.	1.9	3

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37	Mitochondria in gastric epithelial cells are the key targets for NSAIDs-induced injury and NGF cytoprotection. <i>Journal of Cellular Biochemistry</i> , 2019, 120, 11651-11659.	2.6	2
38	S1619 MMP9-Mediated Upregulation of Endostatin and Downregulation of VEGF in Aging Gastric Mucosa: Novel Mechanism for Impaired Angiogenesis. <i>Gastroenterology</i> , 2008, 134, A-236.	1.3	1
39	780 Quantitative In Vivo Assessment of Vascular Permeability in Human Colonic Mucosa Using Confocal Endomicroscopy: Clinical Implications for Colonic Neoplasia. <i>Gastroenterology</i> , 2009, 136, A-123.	1.3	1
40	W2017 Endothelial Damage and Increased Colonic Vascular Permeability Precede Epithelial "Barrier" Dysfunction in the Development of Experimental Ulcerative Colitis: the Role of Hypoxia in the Mechanism of Injury. <i>Gastroenterology</i> , 2009, 136, A-774.	1.3	1
41	W1696 Hydrotalcite Protects Aging Gastric Mucosa Against NSAID- And Ethanol-Induced Injury by Preserving Endothelial and Progenitor Cells. Underlying Molecular Mechanisms Include Activation of Survivin and VEGF.. <i>Gastroenterology</i> , 2010, 138, S-721.	1.3	1
42	Mo1429 Visualization of the Gastric Submucosal and Myenteric Neuronal Network Using Endoscopic Ultrasound (EUS) Guided Needle-Based Confocal LASER Induced Endomicroscopy and a Novel EUS Guided Through-the-Needle Biopsy Technique. <i>Gastrointestinal Endoscopy</i> , 2014, 79, AB433.	1.0	1
43	800 Expression and Co-Localization of IGF-1, Its Receptor and Survivin in Esophageal Progenitor Cells: Implications for Esophageal Mucosal Renewal, Protection and Healing. <i>Gastroenterology</i> , 2015, 148, S-157.	1.3	1
44	596 Downregulation of Importin $\beta$ and Inhibition of Nuclear Translocation of VEGFR2 and Hif1 $\beta$ in Capillary Endothelial Cells: Novel Mechanisms of Aging-Related Impairment of Angiogenesis in Gastric Mucosa. <i>Gastroenterology</i> , 2008, 134, A-82.	1.3	0
45	811 Aging Gastric Mucosa Exhibits Impaired Angiogenesis, Arrested Vasculogenesis and Delayed Healing. Reduced VEGF, VEGFR2, cAMP, Increased Endostatin and Dysfunction of Bone Marrow-Derived Endothelial Precursors Are the Underlying Mechanisms. <i>Gastroenterology</i> , 2008, 134, A-115.	1.3	0
46	S1655 Mechanistic Roles of cAMP, Protein Kinase $\alpha$ and P-CREB in Aging-Related Impairment of Angiogenesis: Implications for Delayed Healing of Aging Gut. <i>Gastroenterology</i> , 2008, 134, A-243.	1.3	0
47	M1591 Activation of HGF/c-MET Is the Key Mechanism for Acid-Induced Proliferation of Barrett's-Derived Esophageal Cancer Cells. Critical Roles of Functional EGFR and COX2 in C-MET Activation and Therapeutic Implications. <i>Gastroenterology</i> , 2008, 134, A-377.	1.3	0
48	W1938 Mitochondria But Not Cell Membrane Are Primary Target of Indomethacin and NS-398-Induced Injury and Prostaglandin E2 Afforded Protection of Gastric Epithelial Cells. <i>Gastroenterology</i> , 2008, 134, A-738.	1.3	0
49	126 STAT3 Tyrosine Phosphorylation and Its Nuclear Import Are Novel Molecular Mechanisms in Experiment Duodenal Ulceration in Rats and Egr-1 Knockout Mice. <i>Gastroenterology</i> , 2009, 136, A-23.	1.3	0
50	947 Hydrotalcite-Gastroprotective and Ulcer Healing Compound Reverses Aging-Related Impairment of Angiogenesis By Activating VEGF and VEGFR2 Genes. Therapeutic Implications for Aging-Related Dysfunction.. <i>Gastroenterology</i> , 2009, 136, A-143.	1.3	0
51	T1170 Colonic Biopsy Specimens Obtained During Confocal Endomicroscopy Are In Vivo Prestained with Fluorescein and Exceptionally Suited for Cellular and Molecular Imaging. <i>Gastroenterology</i> , 2009, 136, A-515.	1.3	0
52	W1594 Importins $\beta$ 1 and $\beta$ 3 Regulate VEGF Gene Expression and Angiogenesis in Gastric Mucosal Microvascular Endothelial Cells.. <i>Gastroenterology</i> , 2009, 136, A-698-A-699.	1.3	0
53	T1937 Increased Nuclear Expression of Importin $\beta$ and $\beta$ 2 in Barrett's Esophagus and Esophageal Adenocarcinoma: A Novel Mechanism for Increased, Uncontrolled Cell Proliferation.. <i>Gastroenterology</i> , 2009, 136, A-604.	1.3	0
54	545 Confocal Endomicroscopy and Molecular Imaging Demonstrates in Colonic Mucosa of Patients With IBD in Remission Impaired Crypt Regeneration, Persistent Inflammation and Pathological Angiogenesis. Underlying Mechanisms Include Dysregulation of Survivin and Aberrant Activation of VEGF Gene.. <i>Gastroenterology</i> , 2010, 138, S-75.	1.3	0

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55	916 Activation of Energy Sensor “ AMPK Reverses Impairment of Angiogenesis in Aging Gastric Mucosa. Underlying Molecular Mechanisms are: Activation of AMPK, Induction of Importin $\beta$ and Activation of VEGF Gene.. Gastroenterology, 2010, 138, S-131.	1.3	0
56	S1633 Abnormal Angiogenesis in Barrett's Mucosa Demonstrated In Vivo by Confocal Endomicroscopy. Underlying Molecular Mechanisms Include Increased and Aberrant Expression of Importin $\beta$ , VEGF VRGFR2 and COX2. Implications for Esophageal Neoplasia. Gastroenterology, 2010, 138, S-242-S-243.	1.3	0
57	T1196 Common Molecular Links Between Chronic Inflammation in Ulcerative Colitis and Colon Cancer Identified by Confocal Endomicroscopy and Molecular Imaging: Mitochondrial DNA Mutations, Dysregulated Importin $\beta$ and Upregulated COX2. Gastroenterology, 2010, 138, S-509.	1.3	0
58	Mo1065 Does Hydrotalcite Protect Esophageal Epithelium From H Ion- and Bile Acid-Induced Injury? Studies in Cultured Human Esophageal Epithelial Cells and in Short Term Organ Cultures of Rat Esophageal Tissue.. Gastroenterology, 2012, 142, S-585-S-586.	1.3	0
59	852 New inSIGHT Into Gastric Ulcer Healing: Direct Evidence That Bone Marrow Derived Endothelial Progenitor Cells Form in Granulation Tissue New Hybrid Blood Vessels Jointly With Local Endothelial Cells.. Gastroenterology, 2012, 142, S-146.	1.3	0
60	957 Novel Mechanisms for Aberrant Expression of VEGF and Its Receptor in Colon Cancer Cells: Upregulation of Importins and Increased Nuclear Transport of P-CREB, P-STAT3 and P-MAPK/ERK1/2. Gastroenterology, 2012, 142, S-165.	1.3	0
61	1054 Is the Hypoxia Sensor Defective in Aging Gastric Mucosal Endothelial Cells? Novel Mechanism for Impaired Angiogenesis in Aging Gastric Mucosa. Gastroenterology, 2012, 142, S-186.	1.3	0
62	1115 Novel Players in Esophageal Mucosal Defense - Survivin, COX2 and HSP70. are They Targets for Protective Action of Hydrotalcite (HTL) on Esophageal Mucosa?. Gastroenterology, 2012, 142, S-202.	1.3	0
63	329 Reduced Expression of Nerve Growth Factor in Aging Gastric Mucosal Endothelial Cells - A New Key Mechanism for Impaired Angiogenesis in Aging Gastric Mucosa?. Gastroenterology, 2013, 144, S-69.	1.3	0
64	Mo1531 In Vivo Visualization of the Pancreatic Neuronal Network Using EUS Guided Needle-Based Confocal LASER Induced Endomicroscopy With Histologic Correlation: a New Frontier in Endoscopy. Gastrointestinal Endoscopy, 2013, 77, AB416.	1.0	0
65	35 Novel Insight Into Esophageal Mucosal Defense and Its Enhancement by Hydrotalcite. Direct Evidence That VEGF, Its Receptor 2 and KGFR Are Expressed in Esophageal Keratinocyte Progenitor Cells and Regulate Their Growth and Epithelial Cell Renewal. Gastroenterology, 2013, 144, S-9.	1.3	0
66	542 Direct In Vivo Visualization of Esophageal Neuronal Network During Endoscopy Using Needle-Based Confocal Laser Endomicroscopic Probe. Validation Using Neuronal Probes and Correlation With Expression of CGRP, Neuronal NOS & Enolase and NGF. Gastroenterology, 2013, 144, S-98-S-99.	1.3	0
67	Sa1933 Reduced Expression of Nerve Growth Factor and Its Receptors in Scars of Healed Gastric Ulcers: A Major Mechanism Underlying Impaired Neural Plexus and Sensory Nerve Regeneration in Ulcer Scars and a Novel Causal Role in Abnormal Neovascularization?. Gastroenterology, 2013, 144, S-338.	1.3	0
68	33 Nerve Growth Factor and Its TrkA Receptor Are Expressed in Gastric Mucosal Endothelial Cells and Stimulates Neovascularization: Novel Mechanistic Implications for Angiogenesis and Gastric Mucosal Injury Healing. Gastroenterology, 2013, 144, S-9.	1.3	0
69	328 In Vivo Endoscopic Visualization of the Pancreatic Neural Network Using Fine Needle-Based Confocal Laser Endomicroscopy: Correlation With Expression of Nerve Growth Factor, TrkA and Melatonin Receptor. Basic Science and Clinical Implications. Gastroenterology, 2013, 144, S-68-S-69.	1.3	0
70	419 Endoscopic Visualization of the Submucosal and Myenteric Neuronal Network of the GI Tract Using EUS-Guided Needle Based Confocal LASER Induced Endomicroscopy: Exploring the New Blue Ocean of the Submucosal Space. Gastrointestinal Endoscopy, 2013, 77, AB152.	1.0	0
71	868 Direct Autocrine Regulation of Colon Cancer Cell Growth by VEGF Is Mediated via Activation of VEGF-R1/2 and Transactivation of EGF-R: Direct Effect of VEGF on CRC Cell Proliferation and Reduced Apoptosis. Gastroenterology, 2014, 146, S-151.	1.3	0
72	Sa1806 Upregulation of Importins Is a Novel Key Mechanism for Aberrant, Increased VEGF Expression in Colon Cancer Cells and Sustained Proliferation of These Cells via an Autocrine Pathway. Gastroenterology, 2014, 146, S-299.	1.3	0

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73	278 Novel Mechanisms and Signaling Pathways of Esophageal Keratinocyte Progenitor Cells: Interactions of COX2/prostaglandin E, c-AMP/PKA and KGF. Implications for Esophageal Epithelial Renewal, Healing and the Therapeutic Actions of Hydrotalcite.. Gastroenterology, 2014, 146, S-66-S-67.	1.3	0
74	681 Novel Insight Into Gastric Enteric Nervous System Using EUS-Guided Needle Based Confocal Laser Endomicroscopy, Neuronal Probe and Molecular Imaging. Evidence for Common Mediators and Cross-Talk Between Neural Epithelial & ECL Cells. Gastroenterology, 2014, 146, S-121.	1.3	0
75	Su1948 In Vivo, Real Time Non-Invasive Assessment of Gastric Mucosal Injury Using Confocal Laser Endomicroscopy: Focus on Mucosal Microvessels, Progenitor Cells and Mucosal Protection. Direct Comparison With Quantitative Histology and Electron Microscopy.. Gastroenterology, 2014, 146, S-506.	1.3	0
76	546 Nerve Growth Factor (NGF) Deficiency in Aging Gastric Mucosa: A New, Previously Unrecognized Mechanism of Aging-Related Impairment of Gastric Angiogenesis. NGF Therapy Completely Reverses This Impairment. Gastroenterology, 2015, 148, S-110.	1.3	0
77	Sa1993 Specific Inhibitor of Importin- $\beta$ Mediated Nuclear Transport - Ivermectin Reduces VEGF Expression and Inhibits Colon Cancer Cell Proliferation. Gastroenterology, 2015, 148, S-378.	1.3	0
78	524 Direct Evidence That Nerve Growth Factor (NGF) Is an Essential Regulator of Gastric Angiogenesis Independent of VEGF: Gene Therapy of Gastric Endothelial Cells With LV-NGF Uncovers New Mechanisms of NGF Angiogenic Action. Gastroenterology, 2015, 148, S-103.	1.3	0