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45-25
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Ассистент

Образование

Учреждение	Ереванский государственный университет
Факультет	Факультет Биологии/кафедра Биохимии
Дата	2008 - 2010
Степень / Звание	Магистр

Учреждение	Ереванский государственный университет
Факультет	Факультет Биологии/кафедра Биохимии
Дата	2004 - 2008
Степень / Звание	Бакалавр

Ученое звание/Ученая степень

Учреждение	Ереванский государственный университет
Дата	2013
Степень / Звание	Кандидат наук
Научный руководитель	Դավթյան Միսակ Արշամի
Научная тема	Ուրեոթելիկ և ոչ ուրեոթելիկ արգինազների դերը պոլիամինների կենսասինթեզում

Знание языков

English Русский

Опыт работы

Учреждение	Ереванский Государственный Университет

Период времени	2022 до настоящего времени
Звание/степень	Заведующий лаборатории фундаментальной и патологической биохимии

Членство

Учреждение	Европейская ассоциация исследований рака
Период времени	2021 до настоящего времени

Учреждение	Федерация европейских биохимических обществ (FEBS)
Период времени	2010 до настоящего времени

Публикации

Статья

Inhibition of the PI3K signaling pathway in cancer cells by Agrimonia eupatoria L. ethanolic extract: identification of tricoumaroyl spermidine as a potential PI3K inhibitor

Mikayel Ginovyan, Smbat Gevorgyan, Hayarpi Javrushyan, Barbara Kusznierewicz,

Izabela Koss-Mikołajczyk, Naira Sahakyan, Agnieszka Bartoszek, Nikolay Avtandilyan

BMC Complementary Medicine and Therapies 2026 1-27

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Статья

Evaluating the Efficacy of Polyphenol-Enriched Plant Extracts and Pathway Modulators in the Bone Marrow to Suppress Breast Cancer Progression

Hayarpi Javrushyan, Gayane Petrosyan, Marika Mróz, Barbara Kusznierewicz, Yem Alharithi,

Mikayel Ginovyan, Alina Maloyan, Nikolay Avtandilyan

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Photodynamic activity of meso-substituted cationic pyridyl porphyrin Zn-TOEt4PyP and its non-covalent interaction product with folic acid

Lusine Mkrtchyan, Nikolay Avtandilyan, Anzhela Galstyan, Anna Zakoyan, Edita Nadiryan,

Rafayel Muradyan, Grigor Gyulkhandanyan, Lusine Danielyan, Torgom Seferyan

Indian Journal of Biochemistry and Biophysics 2026 pp. 596-605

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Immunomodulatory and Anti-Tumor Effects of Alchemilla smirnovii Juz in Experimental Breast Cancer Models

Aqsanna Gevorgyan, Arpine Hakobyan, Astghik Mkrtchyan, Nikolay Avtandilyan, Hayarpi Javrushyan

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Effects of extracts of rumex species and the compound emodin on oxidative stress level and

antioxidant potential in liver tissue of streptozotocin-induced diabetic rats
A. Hovhannisyan, Z. Yavroyan, N. Hakobyan, A. Asatryan, N. Avtandilyan

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Статья

Benzene-linked bis-amino acids via asymmetric synthesis: CD/UV studies, DNA and serum albumin binding, and MCF-7 cytotoxicity
Hayarpi Simonyan, Satenik Petrosyan, Nikolay Avtandilyan, Karapet Ghazaryan, Anna Mkrtchyan,

Ruben Israyelyan, Ashot Saghyan, Giovanni N. Roviello

Spectrochimica Acta Part A Molecular and Biomolecular Spectroscopy 2026 128481 - 128481

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Tissue remodeling during high-altitude pulmonary edema in rats: Biochemical and histomorphological analysis
Ruzanna A. Shushanyan, Hasmik M. Karapetyan, Edita E. Nadiryan, Nikolay V. Avtandilyan,

Anna V. Grigoryan, Anna F. Karapetyan

Tissue and Cell 2025 102727

Статья

Characterization and antibacterial/cytotoxic activity of silver nanoparticles synthesized from Dicranum scoparium moss extracts growing in Armenia
Gayane Semerjyan, Inesa Semerjyan, Mikayel Ginovyan, Nikolay Avtandilyan

AIMS Biophysics 2025 29−42

Статья

Elucidating the impact of Hypericum alpestre extract and L-NAME on the PI3K/Akt signaling pathway in A549 lung adenocarcinoma and MDA-MB-231 triple-negative breast cancer cells
Hayarpi Javrushyan, Mikayel Ginovyan, Tigran Harutyunyan, Smbat Gevorgyan, Zaruhi Karabekian,

Alina Maloyan, Nikolay Avtandilyan

PLOS ONE 2025 e0303736

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Silver nanoparticles fabricated using phycocyanin from Arthrospira platensis: green synthesis, physicochemical characterization, and biological activities
Ani Harutyunyan, Astghik Hambardzumyan, Liana Gabrielyan, Anush Aghajanyan, Meri Kocharyan,

Nikolay Avtandilyan, Alina Zurnachyan, Inga Bazukyan, Wojciech Kujawski, Lilit Gabrielyan

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Interconnection between hyperglycemia, cancer, and arginine metabolism: a unified therapeutic approach
E.Nadiryan, H.Javrushyan, N.Avtandilyan

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Bee Venom as a Source of Novel Antimicrobial Agents: A Regional Study from Armenia

Inesa Semerjyan, Melanya Grigoryan, Svetlana Hovhannisyan, Nikolay Avtandilyan, Peter Vandamme,

Inga Bazukyan

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Emodin inhibits HIF-1α expression in MDA-MB- 231 cells via suppression of the PI3K/Akt/mTOR pathway

S. Hovhannisyan, M. Ginovyan, N. Avtandilyan

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Hypericum alpestre Inhibits PI3K/Akt/mTOR and HIF-1α Signaling While Activating Caspase-3 in MDA-MB-231 Cells: A Comparative Study with Dactolisib and Doxorubicin

H. Javrushyan, N. Avtandilyan, A. Maloyan

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Synergistic Inhibition of HIF1α and PI3K/Akt Signaling and Activation of Caspase3 by Emodin and Metformin Combination in MDAMB231 Cells

M. Kocharyan, H. Javrushyan, N. Avtandilyan

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Phytochemicals and Chemotherapy: Present and Future Strategy

Hayarpi Javrushyan, Edita Nadiryan, Nikolay Avtandilyan, Alina Maloyan

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Hypoxia-Linked Alterations in Arginine Metabolism and Oxidative Stress in the Bone Marrow during Breast Cancer Progression and Treatment

Hayarpi Javrushyan, Edita Nadiryan, Svetlana Hovhannisyan, Nikolay Avtandilyan

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Modulating Bone Marrow Microenvironment in Breast Cancer: Impact of Combined Chemotherapy and Herbal Extracts

Edita Nadiryan, Gayane Petrosyan, Nikolay Avtandilyan, Hayarpi Javrushyan

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Hypericum alpestre Extract and L-NAME Suppress PI3K/Akt Pathway and Enhance Apoptosis in Lung and Breast Cancer Cells

Svetlana Hovhannisyan, Gayane Petrosyan, Hayarpi Javrushyan, Mikayel Ginovyan, Nikolay Avtandilyan

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The Impact of Hypericum alpestre and Rumex obtusifolius on Proline Metabolism in Breast Cancer Model Animals

Hasmik Karapetyan, Ernestina Barseghyan, Nikolay Avtandilyan

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Статья

Hypericum alpestre extract exhibits in vitro and in vivo anticancer properties by regulating the cellular antioxidant system and metabolic pathway of L-arginine

Mikayel Ginovyan, Hayarpi Javrushyan, Hasmik Karapetyan, Izabela Koss-Mikołajczyk,

Barbara Kusznierewicz, Anna Grigoryan, Alina Maloyan, Agnieszka Bartoszek, Nikolay Avtandilyan

Cell Biochemistry and Function 2024 1-21

Статья

The role of oxidative stress and neuroinflammatory mediators in the pathogenesis of high-altitude cerebral edema in rats

Ruzanna A. Shushanyan, Nikolay V. Avtandilyan, Anna V. Grigoryan, Anna F. Karapetyan

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5-fluorouracil and Rumex obtusifolius extract combination trigger A549 cancer cell apoptosis: uncovering PI3K/Akt inhibition by in vitro and in silico approaches

Mikayel Ginovyan, Hayarpi Javrushyan, Svetlana Hovhannisyan, Edita Nadiryan, Gohar Sevoyan,

Tigran Harutyunyan, Smbat Gevorgyan, Zaruhi Karabekian, Alina Maloyan, Nikolay Avtandilyan

Scientific Reports 2024 1-16

Статья

THEREGULATION OF DEAMINATION OF ADENINE COMPOUNDS IN BREASTANDLIVERIN DMBA-INDUCED BREASTCANCERRATS TREATED BYHYPERICUM ALPESTRE

G. H. PETROSYAN, S. V. MARUTYAN, N. V. AVTANDILYAN

Proceedings of the YSU B Chemical and Biological Sciences 2024 17-26

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RABBITS ARGINASE I AND II: ACTIVITY AND pH SENSITIVITY OF SELF-FORMATION POLYPEPTIDES

S. M. HOVHANNISYAN, E. K. BARSEGHYAN, N. V. AVTANDILYAN

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Статья

Royal Jelly–Mediated Silver Nanoparticles Show Promising Anticancer Effect on HeLa and A549 Cells Through Modulation of the VEGFa/PI3K/Akt/MMP-2 Pathway

Meri Kocharyan, Syuzan Marutyan, Edita Nadiryan, Mikayel Ginovyan, Hayarpi Javrushyan,

Seda Marutyan, Nikolay Avtandilyan

Applied Organometallic Chemistry 2024 1-11

Конференция

The combination of herbs and chemotherapeutic agents inhibits tumor progression via down-regulation of the TNFa-VEGFa/PI3K/Akt/NOS/COX-2-MMP-2 pathway in DMBA-induced breast cancer in rats
N. Avtandilyan, M. Kocharyan, S. Hovhannisyan, S. Gevorgyan, H. Javrushyan, M. Ginovyan, A. Maloyan

2024 276-276

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Конференция

From metabolomics to medicine: exploiting the functional potential of plant extracts in human health, with emphasis on Ribes nigrum, Ficus carica and Vitis vinifera
S. Tadevosyan, M. Ginovyan, N. Avtandilyan, A. Shirvanyan, A. Bartoszek, N. Sahakyan

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Конференция

From agro-bio-waste to application: the power of bilberry aerial part extract as anti-cancer and antibiotic-modulating agent
N. Sahakyan, M. Ginovyan, A. Babayan, A. Shirvanyan, A. Minasyan, B. Kusznierewicz,

I. Koss-Mikołajczyk, N. Avtandilyan, A. Bartoszek

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Harnessing plant extracts to overcome antibiotic resistance: leaf extracts of Ribes nigrum, Ficus carica, and Vitis vinifera as resistance modifiers of E. coli strains
M. Ginovyan, A. Shirvanyan, S. Tadevosyan, A. Babayan, B. Kusznierewicz, N. Avtandilyan, A. Bartoszek,

N. Sahakyan

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Конференция

The morphofunctional changes in rat’s liver under conditions of 7, 12-DMBA-induced breast cancer after NG-Nitro-L-arginine methyl ester treatment
A. Grigoryan, R. Shushanyan, N. Avtandilyan, A. Karapetyan

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Конференция

Antibacterial, hemolytic and anticancer activities of silver nanoparticles biosynthesized by phycocyanin extracted from Spirulina
L. Gabrielyan, A. Harutyunyan, A. Hambardzumyan, A. Aghajanyan, N. Avtandilyan, L. Gabrielyan

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Конференция

Enhanced anti-inflammatory and antiproliferative effects of Inula helenium herbal extract and arginase inhibitor in breast cancer in vivo study
E. Nadiryan, H. Javrushyan, N. Avtandilyan

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Конференция

Investigating the anticancer advantages of pairing Rumex obtusifolius herb extract with 5-fluorouracil against breast cancer in vivo
S. Hovhannisyan, M. Ginovyan, N. Avtandilyan

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Статья

Anti-cancer effect of in vivo inhibition of nitric oxide synthase in a rat model of breast cancer
Nikolay Avtandilyan, Hayarpi Javrushyan, Mikayel Ginovyan, Anna Karapetyan, Armen Trchounian

Molecular and Cellular Biochemistry 2023 261-275

Статья

Screening revealed the strong cytotoxic activity of Alchemilla smirnovii and Hypericum alpestre ethanol extracts on different cancer cell lines
Mikayel Ginovyan, Svetlana Hovhannisyan, Hayarpi Javrushyan, Gohar Sevoyan, Zaruhi Karabekyan,

Narine Zakaryan, Naira Sahakyan, Nikolay Avtandilyan

AIMS Biophysics 2023 12–22

Статья

Anti-cancer effect of Rumex obtusifolius in combination with arginase/nitric oxide synthase inhibitors via downregulation of oxidative stress, inflammation, and polyamine synthesis
Mikayel Ginovyan, Hayarpi Javrushyan, Gayane Petrosyan, Barbara Kusznierewicz,

Izabela Koss-Mikołajczyk, Zuzanna Koziara, Monika Kuczyńska, Patrycja Jakubek, Anna Karapetyan,

Naira Sahakyan, Alina Maloyan, Agnieszka Bartoszek, Nikolay Avtandilyan

The International Journal of Biochemistry & Cell Biology 2023 106396

Статья

The Action Mechanisms, Anti-Cancer and Antibiotic-Modulation Potential of Vaccinium myrtillus L. Extract
Mikayel Ginovyan, Anush Babayan, Anahit Shirvanyan, Alvard Minasyan, Meri Qocharyan,

Barbara Kusznierewicz, Izabela Koss-Mikołajczyk, Nikolay Avtandilyan, Anne Vejux, Agnieszka Bartoszek,

Naira Sahakyan

Discovery Medicine 2023 590-611

Статья

The possible anti-inflammatory properties of hydro-ethanolic extract of Oregano
Armenuhi Moghrovyan, Mikayel Ginovyan, Nikolay Avtandilyan, Lilya Parseghyan, Armen Voskanyan,

Naira Sahakyan, Anna Darbinyan

Functional Foods in Health and Disease 2023 476-486

Статья

THE CYTOTOXIC PROPERTIES OF ALCHEMILLA SMIRNOVII EXTRACT ON THE HELA CANCER CELLS VIA DOWNREGULATION OF ARGINASE ACTIVITY
S.M. Hovhannisyan, E.E. Nadiryan, M.V. Qocharyan, G.H. Petrosyan, G.P. Sevoyan, Z.I. Karabekyan,

H.G. Javrushyan, M.M Ginovyan, N.V. Avtandilyan

ԵՊՀ գիտական տեղեկագիր. Քիմիա և կենսաբանություն: 2023 238-247

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REGULATORY EFFECTS OF RUMEX OBTUSIFOLIUS AND HYPERICUM ALPESTRE EXTRACTS ON THE QUANTITY OF IL-2 IN IN VITRO AND IN VIVO CANCER MODELS
E.E. Nadiryan, S.M. Hovhannisyan, M. V. Qocharyan, G.H. Petrosyan, H.G. Javrushyan, M.M. Ginovyan,

N.V. Avtandilyan
ԵՊՀ գիտական տեղեկագիր. Քիմիա և կենսաբանություն: 2023 248-257

Конференция
Hypericum alpestre combined with arginase and NOS inhibitors shows antiproliferative activity in the rat breast cancer model
H.Javrushyan, N.Avtandilyan, S.Hovhannsiyan, M.Qocharyan, M.Ginovyan, A.Maloyan

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Конференция
Anti-inflammatory and immunostimulatory effect of Hypericum alpestre combined with arginase and NOS inhibitors in the rat breast cancer model
H.Javrushyan, E.Nadiryan, G.Petrosyan, M.Ginovyan, A.Maloyan, N.Avtandilyan

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Конференция
BIOLOGICAL ACTIVITY OF ARMENIAN HONEY BEES' VENOM AND LACTIC ACID BACTERIA ISOLATED FROM HONEYBEES’ GUT
Anahit Sahakyan, Nelli Vardazaryan, Mery Qocharyan, Nikolay Avtandilyan, Inessa Semerjyan,

Inga Bazukyan
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Конференция
ANTI-CANCER PROPERTIES AND POTENTIAL MOLECULAR MECHANISMS OF COMBINATIONS OF HERBAL EXTRACTS AND CHEMOTHERAPEUTIC AGENTS
N. Avtandilyan, H. Javrushyan, H. Karapetyan, A. Grigoryan, E. Nadiryan, G. Sevoyan, M. Ginovyan,

A. Maloyan
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Конференция
Cytotoxic and prooxidant properties of ethanolic extract from Hypericum alpestre and metabolomic profiling of its bioactive phytochemicals
M. Ginovyan, I. Koss-Mikołajczyk, B. Kusznierewicz, N. Avtandilyan, A. Bartoszek

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Статья
ALTERATION OF TOTAL AND MITOCHONDRIAL ATPASE ACTIVITY IN THE BREAST AND LIVER IN BREAST CANCER-INDUCED RATS
Seda V. Marutyan, Gayane A. Petrosyan, Anna R. Muradyan, Lilit A. Marutyan, Syuzan A. Marutyan,

Nikolay V. Avtandilyan
Proceedings of the YSU B Chemical and Biological Sciences 2022 151-160

Статья

Antihyperglycemic activity of L-norvaline and L-arginine in high-fat diet and streptozotocin-treated male rats
Hayarpi Javrushyan, Edita Nadiryan, Anna Grigoryan, Nikolay Avtandilyan, Alina Maloyan

Experimental and Molecular Pathology 2022 104763

Статья

EVALUATION OF THE ANTIOXIDANT ACTIVITY AND THEANTI-CANCER PROPERTIES OFALCHEMILLA SMIRNOVII JUZ. EXTRACTON THE HELA CANCER CELL LINE
S. Hovhannisyan, E. Nadiryan, M.Qocharyan, G. Sevoyan, M. Ginovyan, N. Avtandilyan

СТУДЕНЧЕСКАЯ ГОДИЧНАЯ НАУЧНАЯ КОНФЕРЕНЦИЯ ЯРОССИЙСКО-АРМЯНСКИЙ УНИВЕРСИТЕТА 2022

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Конференция

High antioxidant and cytotoxic activity of Rumex obtusifolius seed extract and metabolomic characterization of its bioactive phytochemicals.
M. Ginovyan, Z. Koziara, M. Baranowska, I. Koss-Mikolajczyk, K. Suliborska, P. Jakubek, B. Kusznierewicz,

N. Avtandilyan, N. Sahakyan, A. Bartoszek

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Конференция

Deamination of adenine compounds in different organs of rats with DMBA-induced cancer
G.Petrosyan, N.Avtandilyan, S.Marutyan

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Upregulation of nitric oxide quantity by L-norvaline and L-arginine in high-fat diet and Streptozotocin-treated male rats
E. Nadiryan, H. Javrushyan, N. Avtandilyan, A. Maloyan

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Конференция

New therapeutic approach in breast anti-cancer treatment using a combination of Rumex obtusifolius extract and L-arginine pathway inhibitors
N. Avtandilyan, H. Javrushyan, A. Karapetyan, M. Ginovyan

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Конференция

Evaluation of immunostimulatory effect of combination of herbal extracts and chemotherapeutic drugs by quantitative alteration of interleukin-2
H. Javrushyan, G. Sevoyan, M. Ginovyan, Z. Karabekian, N. Avtandilyan

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Статья

The effects of NO on the urea cycle pathway in short-term intermittent hypobaric hypoxia in rats

Hayarpi Javrushyan, Nikolay Avtandilyan, Armen Trchounian

Respiratory Physiology & Neurobiology 2021 103598

Статья

NEW THERAPEUTIC APPROACHES IN BREAST ANTICANCER TREATMENT USING ARMENIAN HERBAL EXTRACTS

H.G. JAVRUSHYAN, N.V. AVTANDILYAN, M.M. GINOVYAN, A.H. TRCHOUNIAN

Biological Journal of Armenia 2021 32-38

Конференция

Suppression of tumor progression by arginaseand NO-synthase combined inhibition in7,12-dimethylbenz(a)anthracene-inducedbreast cance r in rats

A. Mamikonyan, H. Javrushyan, N. Avtandilyan, A. Trchounian

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Конференция

Antioxidant properties of some herbal extracts from Armenian flora, evaluation of their cytotoxicity and genotoxicity on HT29 cell line

Mikayel Ginovyan, Zuzanna Koziara, Monika Baranowska, Klaudia Suliborska, Patrycja Jakubek,

Barbara Kusznierewicz, Nikolay Avtandilyan, Naira Sahakyan, Agnieszka Bartoszek

2021 28

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Статья

The potential therapeutic effect of NG-hydroxy-nor-L-arginine in 7,12-dimethylbenz(a)anthracene-induced breast cancer in rats

Nikolay Avtandilyan, Hayarpi Javrushyan, Anahit Mamikonyan, Anna Grigoryan, Armen Trchounian

Experimental and Molecular Pathology 2019 1-10

Конференция

Oxidative stress in the 7,12-dimethylbenz[a] anthracene rat model of breast cancer: suppression by a NO-synthase inhibitor NG- nitro-L-arginine methyl ester

N.Avtandilyan, G.Petrosyan, A.Trchounian

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Конференция

Effect of L-arginine catabolic enzymes inhibitors on 7,12-dimethylbenz(a)anthracene-induced mammary tumors in rats

NIKOLAY AVTANDILYAN, HAYARPI JAVRUSHYAN, ANAHIT MAMIKONYAN, ARMEN TRCHOUNIAN

2019 16-18

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Статья

The Involvement of Arginase and Nitric Oxide Synthase in Breast Cancer Development: Arginase and NO Synthase as Therapeutic Targets in Cancer

Nikolay Avtandilyan, Hayarpi Javrushyan, Gayane Petrosyan, Armen Trchounian

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Конференция

INHIBITION OF NOS ACTIVITY AS AN EFFECTIVE ANTICANCER THERAPY AGAINST 7,12-DMBA RAT MODEL OF BREAST CANCER

Mamikonyan A., Avtandilyan N., Javrushyan H., Trchounian A.

2018 114

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