

# Vakhtang Mshvildadze

## Personal information

## Contact Details

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Full name: Vakhtang Mshvildadze

Call number: 593323843

Gender: Male

Country: საქართველო (Georgia)

Date of birth: 11.03.1962

City: Tbilisi

Citizenship: საქართველო (Georgia)

Address: 5a Khomleli str, fl. 91.

## Languages

Language	Writing	Reading	Speaking
French	C1	C2	C2
English	C1	C2	C2
Russian	C2	C2	C2
ქართული (Georgian)	C2	C2	C2

## Education

### Academic degree

Academic Degree: Doctoral/PhD, Ed.D or other equivalent

Year obtained: 1994

### Education

Academic Degree	Name of the Institution	Country	Major discipline	Start year	End year
Doctoral/PhD, Ed.D or other equivalent	Institute of Pharmacochimistry (Tbilisi State Medical University)	საქართველო (Georgia)	Pharmacognosy-Pharmaceutical Chemistry	1989	1994
Bachelor/BS, BA, BE or other equivalent	Tbilisi State Medical University	საქართველო (Georgia)	Pharmacy	1981	1986
Master/MS, MA, MR, MBA, m.Ed or other equivalent	Tbilisi State Medical University	საქართველო (Georgia)	Pharmacy	1981	1986

### Trainings / Seminars / Training courses

Training / Seminar / The theme of the course	Organization name	Start year	End year
Postdoctoral fellow	University of Qubec, Chicoutimi, Canada	2004	
Postdoctoral fellow	Clermont-Ferrand university, Clermont-Ferrand, France	2001	
Postdoctoral fellow	Liege University, Liege, Belgium	2000	
Postdoctoral fellow	Graz University, Graz, Austria	1998	
Postdoctoral fellow	University Aix-Marseille, Marseille France	1997	

## Projects

### Ongoing projects

Project title	Position	Project head	Start Date	Donor
In-situ antitumoral nanogel design, technology and biological evaluation.	Researcher	Aliosha Bakuridze	05.02.2019	Shota Rustaveli Georgian National Science Foundation
Phytochemical and biological study on <i>Daphne glomerata</i> grown in Georgia	Supervisor	Vakhtang Mshvildadze	01.01.2018	Shota Rustaveli Georgian National Science Foundation
Applied research of boreal forest polypors for their pharmaceutical application	Codirector	Jean Legault	01.05.2016	FauneNord, Canada

### Completed projects

Project title	Position	Project head	Start Date	End Date	Donor
Identification and characterisation of triterpenes from Labrador tea and their cosmetic application	Director	Vakhtang Mshvildadze	01.09.2015	31.08.2016	MITACS, Canada
Evaluation of hydrolates for cosmetic application and their impact on properties of final formulation	Director	Vakhtang Mshvildadze	06.07.2015	31.12.2016	MITACS, Canada
Chemical and biological valorisation of boreal forest mushrooms for their application in cosmeceutic	Codirector	Jean Legault	01.01.2013	31.12.2015	CRSNG/RDC, Canada
Evaluation of different polarity extracts from <i>Hedera</i> species for their antiulcer activity	Scientific Director	Vakhtang Mshvildadze	01.01.2013	01.01.2014	Shota Rustaveli Georgian National Science Foundation, Georgia
Développement de nouveaux produits phytogènes pour favoriser la croissance animale et pour préserver la qualité des aliments dérivés des animaux d'élevage.	Codirector	Jean Legault	01.01.2012	31.12.2015	FRQNT
Potentiel d'utilisation du saule à croissance rapide comme source de produits anti-oxydantes et anti-inflammatoires.	Codirector	Andre Pichette	01.01.2011	31.12.2012	CRSNG/SEP
Phytochemical and biological evaluation of boreal forest plants	Codirector	Andre Pichette	01.01.2009	30.12.2010	FQRNT, Canada
Evaluation of Leishmanicid and anti-inflammatory activity of triterpene glycosides obtained by pharmacomodulation of natural products.	Codirector	Andre Pichette	01.01.2009	31.12.2011	61e Commission permanente de coopération franco-québécoise
Antioxidant and cytotoxic triterpene glycosides from the plants of Georgian flora. Development of the New Drug Forms of Bronchospasmolytic Preparation "Kavsuron"	Director	Vakhtang Mshvildadze	01.01.2009	31.12.2012	Shota Rustaveli Georgian National Science Foundation, Georgia
Protection of Medicinal Plants from Caucasus: Georgia, Azerbaidjan	Researcher	Guy Balansard, Ether Kemertelidze	01.01.2003	01.01.2004	ECONET
Research on antitumoral natural compounds from Uzbek and Georgian plants.	Researcher, scientific coordinator.	Guy Balansard, Ether Kemertelidze	01.01.2001	01.01.2004	INTAS
Structure, elucidation, cytotoxic and antiparasitic activities of saponins from <i>Hedera colchica</i> and <i>Hedera pastuchowii</i> and their possible application in human and Veterinary medicine.	Researcher, scientific coordinator.	Guy Balansard, Ether Kemertelidze	01.01.1999	01.01.2002	INTAS

### Scientific Fields

**Main Field**

Field: 3. Medical and health sciences

Sub-Field: 3.5 Other medical sciences

Subject area: 3.5.2 Other medical sciences

**Additional Field (1)**

Field: 1. Natural sciences

Sub-Field: 1.4 Chemical sciences

Subject area: 1.4.6 Other

**Employment History****Current place(s) of employment**

Workplace	Name of the work department	Position	Main responsibilities	Start Date
Quebec University (UQAC)	Fundamental Sciences Department	Invited Professor	Research projects ; Lecturer; Supervision of Masters and Doctorate students; International collaboration manager	15.01.2004
Institute of Pharmacochimistry, TSMU	Phytochemistry	Senior researcher	Research projects; Supervision of Masters and Doctorate students; International collaboration manager	23.03.1988

**Work experience**

Company/Institution	Name of the department	Position	Main responsibilities	Start Date	End Date
Institute of Pharmacochimistry, TSMU	Phytochemistry	Researcher	Research projects; Supervision of Doctorate students; International research collaboration manager	01.01.1995	14.05.2003
Institute of Pharmacochimistry, TSMU	Phytochemistry	Junior researcher	Research projects	01.09.1991	01.01.1995
Institute of Pharmacochimistry, TSMU	Phytochemistry	Laboratory assistant	Research projects	23.03.1988	01.09.1991

**Scientific Productivity****Patents**

Patent name	Issuing organization	Registration number	Year of Issue
Method of obtaining of triterpen saponins against of nose and ear cavities inflammations	Sakpatenti, Georgia	GE U 2015 1855Y	2012
Method for production of liquid extract with bronchospasmodic activity	Sakpatenti, Georgia	GE U 2007 1395Y	2007
Method for production of liquid extract with bronchospasmodic activity	Sakpatenti, Georgia	N111	1996
Method of obtaining a psychotropic remedy.	Patent of USSR	1717144	1992

**Article / Monograph / Manual**

Type	Authors	Publication title	Source title	Year
Article	Nanuli Sh Nadaraia, Nana N Barbakadze, Meri L Kakhabrishvili, and Vakhtang D Mshvildadze	Synthesis and biological activity of hydrazones Of 5 $\alpha$ -Steroids.	Research Journal of Pharmaceutical, Biological and Chemical Sciences.	2019

Type	Authors	Publication title	Source title	Year
Article	Kintsurashvili L., Mshvildadze V., Suladze T.	Alkaloids of underground parts of Georgian flora's <i>Aconitum orientale</i> Mill. And <i>Aconitum navustum</i> Fisch. Ex Reichemb and their biological activity.	Georgian Medical News.	2018
Monograph	E.Kemertelidze, G. Dekanosidze, V. Mshvildadze, N. Tabatadze, Z. Kemoklidze, B. Tabidze.	Chemical composition and pharmaceutical effectiveness of triterpene glycosides of certain plants growing in Georgia.		2018
Article	Kintsurashvili L., Mshvildadze V., Gorgaslidze N.	Biologically active alkaloids from the bark of <i>Taxus baccata</i> L. growing in Georgia.	International Journal of Pharmacy and Pharmaceutical Research.	2018
Article	L. Kintsurashvili, K. Mchedlidze, M. Churadze, V. Mshvildadze.	Microstructural specificities of <i>Taxus bacata</i> L. (Taxaceae).	Experimental and Clinical Medicine.	2018
Article	L. Kintsurashvili, K. Mchedlidze, M. Churadze, V. Mshvildadze.	Microstructural specificities of <i>Taxus bacata</i> L. (Taxaceae) needles, as medicinal material.	Experimental and Clinical Medicine.	2018
Article	Nanuli Nadaraia, Meri Kakhbrishvili, Nana Barbakadze, Vakhtang Mshvildadze, Balla Sylla, Andre Pichette.	Synthesis of some 5 $\alpha$ -Androstano[17,16-d]pyrazoles from Tigogenin.	Bulletin of Georgian Academy of Sciences.	2018
Article	N.SH. Nadaria, M.L. Kakhbrishvili, N.N. Barbakadze, V.D. Mshvildadze, B. Sylla, J. Legault, A. Pichette.	Synthesis and biological activity of steroidal Tigogenin hydrazones and pyrazolines.		2018
Article	Tahar, Samira Belhadj; Hadj-Mahammed, Mahfoud; Pichette, Adre; Mshvildadze vakhtang, Yousfi, Mohamed.	Study of the enzymatic and anti-inflammatory activities of phenolic extracts of <i>Atriplex halimus</i> L. and <i>Haloxylon scoparium</i> pomel.	Pharma Chemica.	2017
Article	Fatma Pehlivan Karakasa, Arzu Ucar Turker, Alper Karakas, Vakhtang Mshvildadze, Andre Pichette, Jean Legault.	In vitro cytotoxic, antibacterial, anti-inflammatory and antioxidant activities and phenolic content in wild-grown flowers of common daisy—A medicinal plant.	Journal of Herbal Medicine.	2017
Article	Serge Lavoie, Isabelle Côté, André Pichette, Charles Gauthier, Michaël Ouellet, Francine Nagau-Lavoie, Vakhtang Mshvildadze and Jean Legault.	Chemical composition and anti-herpes 3 simplex virus type 1 (HSV-1) activity of 4 extracts from <i>Cornus Canadensis</i> .	BMC Complementary and Alternative Medicine.	2017
Article	Simard F, Gauthier C, Legault J, Lavoie S, Mshvildadze V et Pichette A.	Structure elucidation on anti-methicillin resistant <i>Staphylococcus aureus</i> (MRSA) flavonoids from balsam poplar buds.	Bioorganic and Medicinal Chemistry.	2016
Article	Lasha Mskhiladze, David Chinchradze, Alexis St-Gelais, Vakhtang Mshvildadze, André Pichette, Allison Ledoux, Monique Tits, Michel Frédéric.	Isolation and Identification of Steroid and Flavonoid Glycosides from the Flowers of <i>Allium gramineum</i> .	International Journal of Pharmaceutical Sciences and Drug Research.	2016
Article	Lavoie S, Gauthier C, Mshvildadze V, Legault J, Roger B, Pichette A.	DFT Calculations and ROESY NMR Data for the Diastereochemical Characterization of Cytotoxic Tetraterpenoids from the Oleoresin of <i>Abies balsamea</i> .	Journal of Natural Products.	2015
Article	Alexis St-Gelais, Jean Legault, Vakhtang Mshvildadze, and André Pichette.	Dirchromones: Cytotoxic Organic Sulfur Compounds Isolated from <i>Dirca palustris</i> .	Journal of Natural Products.	2015
Article	Oueslati, Samia; Ksouri, Riadh; Pichette, Andre; Lavoie, Serge; Girard-Lalancette, Karl; Mshvildadze, Vakhtang; Abdelly, Chedly; Legault, Jean.	A new flavonol glycoside from the medicinal halophyte <i>Suaeda fruticosa</i> .	Natural Product Research.	2014
Article	Balla Sylla, Charles Gauthier, Jean Legault, Pierre-Yves Fleury, Serge Lavoie, Vakhtang Mshvildadze, Tamar Muzashvili, Eter Kemertelidze, André Pichette.	Isolation of a New Disaccharide Nucleoside from <i>Helleborus caucasicus</i> : Structure Elucidation and Total Synthesis of Hellecaucaside A and its $\beta$ -Anomer.	Carbohydrate Research.	2014
Article	Laurie Caron, Annie Deslauriers, Vakhtang Mshvildadze, André Pichette.	Volatile compounds in the foliage of balsam fir analyzed static headspace gas chromatography(HS-GC) : An example of the spruce budworm defoliation effect in the boreal forest of Quebec, Canada.	Microchemical Journal.	2013
Article	Serge Lavoie, Charles Gauthier, Jean Legault, Sylvain Mercier, Vakhtang Mshvildadze and André Pichette.	Lanostane- and cycloartane-type triterpenoids from <i>Abies balsamea</i> oleoresin.	Beilstein Journal of Organic Chemistry.	2013

Type	Authors	Publication title	Source title	Year
Article	Sudeshna Saha, Duygu Kocaefe, Yaman Boluk, Vakhtang Mshvildadze, Jean Legault, Andre Pichette.	Boreal forest conifer extracts: potential natural additives for acrylic polyurethane coatings for the protection of heat-treated jack pine.	J. Coat. Technol. Res.	2013
Article	Serge Lavoie, Jean Legault, Charles Gauthier, Vakhtang Mshvildadze, Sylvain Mercier, and André Pichette.	Abibalsamins A and B, Two New Tetraterpenoids from <i>Abies balsamea</i> Oleoresin.	Organic Letters.	2012
Article	Legault, J; Perron, T; Mshvildadze, V; Girard-Lalancette, K; Perron, S; Laprise, C; Sirois, P; Pichette, A.	Antioxidant and Anti-Inflammatory Activities of Quercetin 7-O- $\beta$ -D-Glucopyranoside from the Leaves of <i>Brasenia schreberi</i> .	Journal of Medicinal Food.	2011
Article	Bellila, A; Tremblay, C; Pichette, A; Marzouk, B; Mshvildadze, V; Lavoie, S; Legault, J.	Cytotoxic activity of withanolides isolated from Tunisian <i>Datura metel</i> L.	Phytochemistry.	2011
Article	M.D. Alaniya, N.Sh. Kavtaradze, S.Lavoie, A.Pichette, V.D. Mshvildadze, Z.Z.Apakidze.	Chemical constituents of the aerial part of <i>Astragalus bungeanus</i> .	Chemistry of Natural Compounds.	2011
Article	Anna Bozhadze, Vakhtang Mshvildadze, Jean Legault, Andre Pichette, Valentina Vachnadze, Aliosha Bakuridze.	Study on Cytotoxic Activity of Some Isoquinoline Alkaloids and Extracts of <i>Chelidonium majus</i> L. Growing in Georgia.	Allergology and Immunology.	2010
Article	Nino Tabatadze, Sok-Siya Bun, Badri Tabidze, Vakhtang Mshvildadze, Genri Dekanosidze, Evelyne Ollivier, Riad Elias.	New triterpenoid saponins from <i>Leontice smirnowii</i> .	Fitoterapia.	2010
Article	André Pichette, Azadeh Eftekhari, Patricia Georges, Serge Lavoie, Vakhtang Mshvildadze, and Jean Legault.	Cytotoxic phenolic compounds in leaf buds of <i>Populus tremuloides</i> .	Canadian Journal of Chemistry.	2010
Article	Charles Gauthier, Jean Legault, Karl Girard-Lalancette, Vakhtang Mshvildadze, André Pichette.	Haemolytic Activity, Cytotoxicity, and Membrane Cell Permeabilization of Semi-Synthetic and Natural Lupane- and Oleanane-Type Saponins	Bioorganic & Medicinal Chemistry.	2009
Article	Gabriel D. Mazzucchelli, Nicolas A. Cellier, Vakhtang Mshviladzade, Riad Elias, Yong-Ho Shim, David Touboul, Loic Quinton, Alain Brunelle, Olivier Lapr�votte, Edwin A. De Pauw, and Marie-Claire A. De Pauw-Gillet.	Pores Formation on Cell Membranes by Hederacolchiside A1 Leads to a Rapid Release of Proteins for Cytosolic Subproteome Analysis.	Journal of Proteome Research.	2008
Article	Lasha Mskhiladze, Jean Legault, Serge Lavoie, Vakhtang Mshvildadze, Jumber Kuchukhidze, Riad Elias, Andr� Pichette.	Cytotoxic Steroidal Saponins from the Flowers of <i>Allium leucanthum</i> .	Molecules.	2008
Article	Francois Simard, Jean Legault, Serge Lavoie, Vakhtang Mshvildadze, Andre Pichette.	Isolation and identification of cytotoxic compounds from the wood of <i>Pinus resinova</i> .	Phytotherapy Research.	2008
Article	Pascal C. Gerkens, Rowan Dobson, Nino Tabatadze, Vakhtang Mshvildadze, Riad Elias, Olivier J.Peulen, Olivier M.Jolois and Marie-Claire A. De Pauw-Gillet.	Apoptosis and cytolysis induced by giganteosides and hederacolchisides in HL-60 cells.	Anticancer Research.	2007
Article	Mshvildadze V, Legault J, Lavoie S, Gauthier C, Pichette A.	New Cytotoxic Diarylheptanoid and Chavicol Glycosides from the Inner Bark of <i>Betula papyrifera</i> .	Phytochemistry.	2007
Article	Dominic Dufour, Andr� Pichette, Vakhtang Mshvildadze, Marie-Eve Bradette-H�bert, Serge Lavoie, Ang�lique Longtin, Catherine Laprise et Jean Legault.	Antioxidant, anti-inflammatory and anticancer activities of methanolic extracts from <i>Ledum groenlandicum</i> Retzius.	Journal of Ethnopharmacology.	2007
Article	Pichette, A., Morin, P., Mshvildadze, V., Lavoie, S. et Legault, J.	A new labdane diterpene from the stem bark of <i>Larix laricina</i> .	Chem. Pharm. Bull.	2006
Article	A. Gepdiremen, V. Mshvildadze, K. Bakuridze and R. Elias.	Effects of <i>Leontice smirnowii</i> tuber monodesmosides and crude extract in carrageenan- and histamine-induced acute inflammation model of rats.	Phytomedicine.	2006
Article	�. G�l�in, V. Mshvildadze, A. Gepdiremen and R. Elias.	The Antioxidant Activity of a Triterpenoid Glycoside Isolated from the berries of <i>Hedera colchica</i> : 3-O-( $\beta$ -D-Glucopyranosyl)-hederagenin.	Phytotherapy Research.	2006
Article	V.Mshvildadze, O.Kunert, G.Dekanosidze, E.Kemertelidze, E.Haslinger.	Arjunolic acid derivative glycoside from the stems of <i>Hedera colchica</i> .	Khimia Prirodnikh Soedinenii.	2005
Article	Gulcin I., Mshvildadze V., Gepdiremen A., Elias R.	Antioxidant Activity of Saponins Isolated from Ivy: $\Pi$ -Hederin, Hederasaponin-C, Hederacolchiside-E and Hederacolchiside F.	Planta Medica.	2004

Type	Authors	Publication title	Source title	Year
Article	Debiton E., Borel M., Communal Y., Mshvildadze V., Bartheuf C.	In addition to membrane injury, an affinity for melanin might be involved in the high sensitivity of human melanoma cells to hederacolchiside A1.	Melanoma Research.	2004
Article	V. Mshvildadze, R. Elias, R. Faure, L. Debrauwer, G. Dekanosidze, E. Kemertelidze and G. Balansard.	Triterpenoid Saponins from Leaves of Hedera pastuchowii.	Chem.Pharm.Bull.	2004
Article	Suleiman H., Mshvildadze V., Gepdiremen A., Elias R.	Acute and Chronic antiinflammatory Profile of Ivy Plant, Hedera helix, in Rats.	Phytomedicine.	2003
Article	Bartheuf Ch., Debiton E., Mshvildadze V., Balansard G., Kemertelidze E.	In Vitro Activity of Hederacolchiside A' Against Human Carcinoma and Melanoma .	Planta Medica.	2002
Article	Mshvildadze V., Elias R., Faure R., Debrauwer L., Dekanosidze G., Kemertelidze E., Balansard G.	Triterpenoid Saponins from Berries of Hedera colchica.	Chem. Pharm. Bull.	2001
Article	Ridoux O., Di Giorgio C., Delmas F., Elias R., Mshvildadze V., Dekanosidze G., Kemertelidze E., Balansard G., Timon-David P.	In vitro Antileishmanial activity of three saponins isolated from Ivy, alfa-hederin, beta-hederin, and hederacolchiside A', in association with pentamidine and amphotericine B.	Phytotherapy Research	2001
Article	Mshvildadze V., Favel A., Delmas F., Elias R., Faure R. Dekanosidze G., Kemertelidze E., Balansard G.	Antiprotozoal activity of triterpene glycosides from Hedera L.	Die Pharmazie.	2000
Article	Delmas F., Di Giorgio C., Elias R., Gasquet M., Azas N., Mshvildadze V., Dekanosidze G., Kemertelidze E., Timon-David P.	Antileishmanial Activity of Three Saponines Isolated from Ivy: $\beta$ -hederin, $\alpha$ -hederin, and hederacolchiside A' as Compared To Their Action on Mammalian Cells Cultured in vitro.	Planta Medica.	2000
Article	Mshvildadze V., Elias R., Delmas F., Dekanosidze G., Kemertelidze E., Balansard G.	Antiprotozoal activity of triterpene glycosides from Hedera L.	Bulletin of the Georgian Academy of Sciences.	1998
Article	Yavitch, P. A.; Mgebrishvili, M. A.; Churadze, L. I.; Tskitishvili, N. M.; Mshvildadze, V. D.; Dekanosidze, G. E.	Determination of triterpene glycosides in Hedera colchica.	Farmatsiya.	1996
Article	Dekanosidze G.E., Mshvildadze V.D.	Triterpene glycosides of species Hedera L.	Rastitelnie resursi.	1993
Article	Mshvildadze V.D. Dekanosidze G.E., Kemertelidze E.P., Shashkov A.S.	Minor glycosides from Hedera colchica. Structure hederacolchisides A' and C.	Bioorganicheskaja khimia.	1993
Article	Mshvildadze V.D., Dekanosidze G.E., Kemertelidze E.P.,	About minor glycosides from Hedera colchica.	Khimia Prirodnikh Soedinenii.	1992
Article	Mshvildadze V.	Content of flavonoids in leaves from Hedera helix L.	Proceedings of the Academy of Sciences of the Georgian SSR, Chemical Series.	1992

### Scholarships and awards

Scholarships/awards name	Issuer	Year of Issue
Diploma for the efforts in pharmaceutical research.	Shota Rustaveli Georgian National Science Foundation.	2017
Postdoctoral scholarship.	French embassy.	2002
Postdoctoral scholarship.	INTAS	1999
Postdoctoral scholarship.	Austrian Academy of Sciences.	1998
Postdoctoral scholarship.	NATO	1997

### Participation in scientific events

Scientific event name	Title of the presentation	Event venue	Year
The conference on international trends in science and technology.	Biological activity of alkaloids from underground organs of <i>Atropa caucasica</i> Kreyer.	Warsaw, Poland.	2019
Health and Ecology	Microstructural specificities of <i>Taxus bacata</i> L. (Taxaceae) needles, as medicinal material.	Telavi, Georgia.	2018
International Conference on Analytical Chemistry	Biologically active alkaloids from the roots of <i>Taxus Baccata</i> L. growing in Georgia	Madrid, Spain	2018

Scientific event name	Title of the presentation	Event venue	Year
International Scientific Conference "Future Technologies and Quality of Life".	Cytotoxic Screening of Endemic Plants from Ajara.	Batumi, Georgia.	2017
6th World Congress on Medicinal Chemistry and Drug Design	Quantification of some medical preparations of the plant origin	Milan, Italy	2017
Workshop – Magnetic Resonance at Georgia Tech.	Diastereoisomeric tetraterpenes from <i>Abies balsamea</i> oleoresin.	Atlanta, USA.	2015
3rd international Conference on Pharmaceutical Sciences.	Development of analytical procedures for quantification of crude extract from the leaves of <i>Hedera colchica</i> .	Tbilisi, Georgia	2015
30th International Symposium on Chromatography.	Analysis of flavonoids and phenolic acids in <i>Populus nigra</i> by HPLC-DAD-ESI-MS.	Zalzburg, Austria.	2014
ISHS International Symposium on Medicinal Plants and Natural Products.	Development of analytical procedure for the quantitative validation of bronchospasmolytic extract from Caucasian ivy.	Montreal, Canada.	2013
59th International Congress and Annual Meeting of the Society for Medicinal Plant and Natural Product Research.	Bioassay Guided Fractionation of Extracts of <i>Bellis perennis</i> L. For Their Anticancer Activity.	Antalya, Turkey.	2011
50th Years of the Phytochemical Society of Europe Congress.	Anti-oxidant and anti-inflammatory activities of Buds constituents of <i>Betula papyrifera</i> .	Cambridge, UK.	2007

### Productivity index

#	Citation index	h-index
Google scholar	1437.60	19.00