

Curriculum Vitae:

Dr. Helen Skaltsa is Associate Professor of the Department of Pharmacognosy and Chemistry of Natural Products, School of Pharmacy, University of Athens.

In 1981, she graduated as a pharmacist from the .University of Athens, School of Pharmacy, with full marks.

In 1985, she supported her PhD thesis entitled "Phytochemical investigation of *Ocimum basilicum* L." under the supervision of Prof. S. Philianos.

In 1988, she had post doc studies at the «Laboratoire de la Recherche Thérapeutique en Cancérologie», Université de Nantes, France, on a 6 months scholarship. There, she was trained in the techniques of in vitro testing for anticancer activity.

In 1988, she was elected as a lecturer of the Department of Pharmacognosy and Chemistry of Natural Products at the University of Athens.

In 1993, she was promoted to the position of Assistant Professor.

In 1994 and 1997, she worked for 6 months at the University of Valencia, Department of Organic Chemistry, Faculty of Chemistry, specializing in the chemistry of naturally occurring terpenes.

In 2000, she worked for 3 months at Laboratory of Prof. O. Sticher, Institute of Pharmaceutical Sciences, ETH Zurich, Switzerland. In this excellent scientific environment, she had the chance to further complete her knowledge on the chemistry of natural products.

In 2003, she was promoted to the position of Associate Professor.

She is Chairman of the Advisory Committee for the Homeopathic Products & Herbal Medicines- National Organization for Medicines of Greece since 2004.

She is Departmental Coordinator of Socrates programs (higher education-Erasmus) with the Faculties of Pharmacy of Firenze, Ferrara, Calabria, Valencia, Regensburg, Izmir.

LANGUAGES

Greek (native language), French (teaching license), English, Spanish.

Main research topics

- ❖ Phytochemistry, i.e. isolation and identification of secondary metabolites from medicinal and aromatic plants [Sesquiterpene lactones, iridoids, diterpenoids, flavonoids, phenylethanoid glycosides, monoterpene glucosides, phenolic glycosides, phloroglucinols, essential oils etc].
- ❖ Spectroscopy, highfield NMR, 1D & 2D: COSY, HSQC, HMBC, ROESY, NOESY, TOCSY etc, Mass Spectroscopy etc.
- ❖ Analytical techniques: HPLC, MPLC , VLC, CC, TLC.
- ❖ Biological activity of secondary metabolites of medicinal plants, especially antibacterial and antifungal activities, antioxidant activity, cytotoxic/cytostatic activity.
- ❖ Environmental research and chemical ecology, as well as virtual screening, docking, QSAR, and prediction of ADME properties of the isolated bioactive secondary metabolites; design of semi-synthetic derivatives with a better pharmacodynamic and pharmacokinetic profile.

PUBLICATIONS

1	Contribution à l'étude chimique d' <i>Ocimum basilicum</i> L.-1ère communication. H. Skaltsa, S. Philianos*. <i>Plantes médicinales et Phytothérapie</i> , 1986, XX, 4, 291-299.
2	Contribution à l'étude chimique d' <i>Ocimum basilicum</i> L.- 2ème communication. H. Skaltsa, S. Philianos*. <i>Plantes médicinales et Phytothérapie</i> 1990, XXIV, 3, 193-196.
3	Contribution à l'étude chimique d' <i>Origanum dictamnus</i> L.-1ère communication. C. Harvala*, H. Skaltsa . <i>Plantes médicinales et Phytothérapie</i> , 1986, XX, 4, 300-304.
4	Contribution à l'étude chimique d' <i>Origanum dictamnus</i> L.- 2ème communication. (glycosides des feuilles). H. Skaltsa , C. Harvala*. <i>Plant. Méd. Phytothérapie</i> , 1987, XXI, 1, 56-62.
5	Analysis of the Essential Oil of Greek Sweet Basil. H. Skaltsa , A. Loukis*. <i>Planta Medica</i> , Vol. 52, Suppl. Issue, 50, 1986.
6	Kinetic Potentiometric Determination of Peroxidase in Plants using Fluoride-Selective Electrode. H. Skaltsa , M. Koupparis*, S. Philianos. <i>J. Assoc. Anal. Chem.</i> , 1986, 69, 1006- 1008.
7	Specific Differential Spectrophotometric Determination of Ascorbic Acid in Plants Using Ascorbate Oxidase. H. Skaltsa , O.Tzakou, M. Koupparis*, S. Philianos. <i>Analytical Letters</i> , 1987, 20(10), 1679-1691.
8	Phytochemical Study of the leaves of <i>Ocimum sanctum</i> L.H. Skaltsa, M. Couladi, S. Philianos*, M. Singh. <i>Fitoterapia</i> , 1987, LVIII, 4, 286.
9	Sur les constituants polyphénoliques des sommités fleuries de <i>Tilia tomentosa</i> Moench. O. Tzakou, H. Skaltsa , S. Philianos*. <i>Plant. Méd. Phytothérapie</i> , 1987, XXI, 4, 305-310.
10	Analyse de l'huile essentielle d' <i>Ocimum sanctum</i> L. H. Skaltsa* , O.Tzakou, A. Loukis. <i>Plant. Méd. Phytothérapie</i> , 1988, XXII, 4, 280-282.
11	Flavonoids from <i>Lippia citriodora</i> Kunth. H. Skaltsa* , G. Shamma. <i>Planta Med.</i> , 1988, 5, 465.
12	Analyse de l'huile essentielle d' <i>Ocimum sanctum</i> L.- II. H. Skaltsa* , O. Tzakou, A. Loukis, N. Argyriadou. <i>Plantes médicinales et Phytothérapie</i> , 1990, XXIV, 2, 79-81.
13	Contribution à l'étude chimique et pharmacologique de <i>Phragmites communis</i> Trin. E. Tsitsa, H. Skaltsa , S. Philianos*, A. Delitheos. <i>Annales Pharm. Françaises</i> , 1990, 48, 4, 185-191.
14	On the Antibacteriophage Properties of some Greek Ferns. H. Skaltsa , E. Verykokidou*, M. Couladis, C. Harvala. <i>Planta Medica</i> , Vol. 57, Suppl. Issue 2, 1991, 35.
15	Analysis of the Essential Oil of <i>Melittis melissophyllum</i> L.subsp. <i>albida</i> Guss. H. Skaltsa* , E.Tsitsa, O.Tzakou, N. Argyriadou. <i>Journal of Essential Oil Research</i> , 1991, 3, 367-368.
16	Study of the correlation between trace elements, sterols & fatty acids in brown algae from the Saronikos Gulf. G. Kaniyas*, H. Skaltsa , E. Tsitsa, A. Loukis, J. Bitis. <i>Fresenius J. Anal. Chem.</i> , 1992, 344: 334-339.
17	Flavonoids from <i>Cardopatum corymbosum</i> L. D. Lazaris, H. Skaltsa* , Th. Constantinidis, C.

	Harvala. Scientia Pharmaceutica, 1993, 61, 55-58.
18	Flavonoids from <i>Satureja juliana</i> L. H. Skaltsa* , M. Couladis, O. Tzakou, C. Harvala. Fitoterapia, 1994, LXV, 1, 93.
19	Comparative phytochemical study of two species of <i>Scabiosa</i> L. (Dipsacaceae). D. Perdetzoglou*, H. Skaltsa , O. Tzakou, C. Harvala. Feddes Repertorium, 1994, 105, 157-165.
20	UV-B protective potential and flavonoid content of leaf hairs of <i>Quercus ilex</i> . H. Skaltsa , E. Verykokidou, C. Harvala, G. Karabourniotis*, Y. Manetas. Phytochemistry, 1994, 37, 4, 987-990.
21	Antibacteriophage activity of some Greek plants extracts. E. Verykokidou*, H. Skaltsa , M. Couladis, A. Delitheos. International Journal of Pharmacognosy, 1995, 33, (4), 339-343.
22	Flavonoids from <i>Scutellaria</i> sp. complex <i>albida</i> . H. Skaltsa* , D.Lazaris, A.Loukis, C. Harvala. Scientia Pharmaceutica, 1996, 64,103-106.
23	Flavonoids from <i>Achillea crithmifolia</i> Waldst & Kit. O.Tzakou*, H. Skaltsa , C. Harvala. Scientia Pharmaceutica, 1996, 64, 197-202.
24	Essential Oil of <i>Sideritis raeseri</i> ssp. <i>raeseri</i> Boiss. & Heldr. E. M. Galati, M. P. Germano, A. Rossitto, O. Tzakou*, H. Skaltsa , V. Roussis. JEOR, 1996, 8, 303-304.
25	Sesquiterpene lactones and elemene derivatives from <i>Onopordon myriacanthum</i> . B. Garcia, H. Skaltsa , F. Navarro, J.R. Pedro*, D. Lazari. Phytochemistry, 1996, 41, 4, 1113-1117.
26	Chemical and Biological Studies on the Essential Oil of <i>Marrubium cylleneum</i> Boiss. & Heldr. H. Skaltsa* , D. Lazari, A. Loukis, D. Aslanis, E. Tiligada. Pharmaceutical and Pharmacological Letters, 1997, Vol. 7, no 4, 184-186.
27	Sesquiterpene lactones from <i>Onopordon laconicum</i> and <i>O. sibthorpiatum</i> . D. Lazari, B. Garcia, H. Skaltsa , J. R. Pedro* and C.Harvala. Phytochemistry, 1998, 47, 3, 415-422.
28	Flavonoids of <i>Onopordon sibthorpiatum</i> and <i>O. laconicum</i> . D. Lazari, H. Skaltsa* , C. Harvala. Biochemical Systematics and Ecology, 1998, 26, 105-108.
29	Composition of the Essential Oil of <i>Satureja juliana</i> (L.) Benth. ex Reichenb. from Greece. H. Skaltsa* , D. M. Lazari, Anargiros E. Loukis. JEOR, 1998, 10, 641-642.
30	Antiphage properties of some Greek algae extracts. M.Couladis*, C. Vagias, V. Roussis, E. Verykokidou, and H. Skaltsa . Phytomedicine 1998, 5(6), 479-483.
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32	Composition and Antibacterial Activity of the Essential Oils of <i>Stachys candida</i> and <i>S. chrysantha</i> from Southern Greece. H. Skaltsa* , D. Lazari, I. Chinou, A. Loukis. Planta Medica 1999, 65, 255-256.
33	Sesquiterpene Lactones from <i>Centaurea</i> Species: <i>C. thessala</i> subsp. <i>drakiensis</i> and <i>C. attica</i> subsp. <i>attica</i> . H. Skaltsa* , D. Lazari, E. Georgiadou, S. Kakavas, Th. Constantinidis. Planta

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34	Essential Oils of <i>Marrubium velutinum</i> SM. and <i>Marrubium peregrinum</i> L., two Species Growing Wild in Greece. D. Lazari, H. Skaltsa* , Th. Constantinidis. FFJ, 1999, 14, 290-292.
35	Volatile Constituents of <i>Centaurea raphanina</i> Sm. subsp. <i>mixta</i> (DC.) Runemark and <i>C. spruneri</i> Boiss. & Heldr. (Asteraceae), Growing Wild in Greece. D. Lazari, H. Skaltsa* , Th. Constantinidis. Flavour and Fragrance Journal, 1999, 14, 415-418.
36	Polyphenols of <i>Ocimum sanctum</i> L. from Suriname. H. Skaltsa* , O. Tzakou and M. Singh. Pharmaceutical Biology, 1999, 37 (1), 92-94.
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38	Composition of the Essential Oil of <i>Xeranthemum annuum</i> L. from Greece. H. Skaltsa* , D. Lazari, Th. Constantinidis JEOR, 2000, 12, 742-744.
39	Composition of the Essential Oil of <i>Herniaria incana</i> Lam. from Greece. D. Lazari, H. Skaltsa* , Th. Constantinidis. JEOR, 2000, 12 (4), 435-437.
40	Flavonoid compounds of <i>Lamyropsis cynaroides</i> (Lam.) Dittrich. H. Skaltsa* , D. Lazari, Th. Constantinidis. Biochemical Systematics and Ecology, 2000, 28, 809-811.
41	Volatile constituents of <i>Centaurea pelia</i> DC., <i>C. thessala</i> Hausskn. subsp. <i>drakiensis</i> (Frey & Sint.) Georg. and <i>C. zuccariniana</i> DC., from Greece. D. Lazari, H. Skaltsa* , Th. Constantinidis. Flavour and Fragrance Journal, 2000, 15, 7-11.
42	Inhibition of prostaglandin E2 and leukotriene C4 in mouse peritoneal macrophages and thromboxane B2 production in human platelets by flavonoids from <i>Stachys chrysantha</i> and <i>Stachys candida</i> . H. Skaltsa* , P. Bermejo, D. Lazari, A. Ma Silvan, A.- L. Skaltsounis, A. Sanz, Ma Jose Abad. Biological Pharmaceutical Bulletin, 2000, 23 (1), 47-53.
43	Essential oil analysis of <i>Nepeta argolica</i> Bory & Chaub subsp. <i>argolica</i> (Lamiaceae) growing wild in Greece. H. Skaltsa*, D. Lazari, Th. Constantinidis. FFJ, 2000, 15, 96-99.
44	Sesquiterpene Lactones from <i>Centaurea achaia</i> , a greek endemic species. Antifungal activity. H. Skaltsa* , D. Lazari, B. Garcia, J. Pedro, M. Sokovic, Th. Constantinidis. Zeitschrift für Naturforschung C, 2000, 55c, 534-539.
45	Composition and Antimicrobial Activity of the Essential Oil of <i>Scutellaria albida</i> ssp. <i>albida</i> from Greece. H. Skaltsa* , D. Lazari, A. Mavromati, E. Tiligada, Th. Constantinidis. Planta Medica, 2000, 66, 7, 672-674.
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47	A chemotaxonomic investigation of volatile constituents in <i>Stachys</i> subsect. Swainsonianae. H. Skaltsa* , A. Mavrommati, Th. Constantinidis. Phytochemistry, 2001, 57, 235-244.

48	Secondary metabolites from the aerial parts of <i>Centaurea deusta</i> . Antifungal and antibacterial activities. A. Karioti, H. Skaltsa* , D. Lazari, M. Sokovic, B. Garcia, C. Harvala. Zeitschrift für Naturforschung C, 2002, 57c, 75-80.
49	Effects of the flavonoid pilloin isolated from <i>Marrubium cylleneum</i> Boiss. & Heldr. on mitogen-induced lymphocyte transformation. F. Michelis, E. Tiligada*, H. Skaltsa , D. Lazari, A-L. Skaltsounis, A. Delitheos. Pharmaceutical Biology, 2002, 40(4), 245-248.
50	Antifungal activity of secondary metabolites of wild <i>Centaurea raphanina</i> subsp. <i>mixta</i> found in Greece. C. Panagouleas, H. Skaltsa* , D. Lazari, A.-L.Skaltsounis, M. Sokovic. Pharmaceutical Biology, 2003, 41(4), 266-270.
51	Bioactive Sesquiterpene lactones from <i>Centaurea</i> species and their cytotoxic/cytostatic activity against human cell lines in vitro. E. Koukoulitsa, H. Skaltsa* , A. Karioti, C. Demetzos, K. Dimas. Planta Medica, 2002, 68, 649-652.
52	Secondary metabolites from <i>Centaurea orphanidea</i> . Ch.Gousiadou, H. Skaltsa* Biochemical Systematics and Ecology, 2003, 31 (4), 389-396.
53	Effect of Phosphorus Concentration of the Nutrient Solution on the Volatile Constituents of Leaves and Bracts of <i>Origanum dictamnus</i> . C. Economakis, H. Skaltsa , C. Demetzos*, M. Soković, C. Thanos. Journal of Agricultural & Food Chemistry, 2002, 50, 6278-6280.
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55	Composition and Antibacterial activity of the Essential Oil of <i>Satureja parnassica</i> subsp. <i>parnassica</i> . O. Tzakou*, H. Skaltsa Planta Medica, 2003, 69, 282-284.
56	Sesquiterpene lactones from the aerial parts of <i>Anthemis altissima</i> . In vitro anti-Helicobacter pylori activity. M. Konstantinopoulou, A. Karioti, S. Skaltsas, H. Skaltsa* Journal of Natural Products, 2003, 66 (5), 699-702.
57	Antibacterial and Cytotoxic Activity of Prenylated Bicyclic Acylphloroglucinol Derivatives from <i>Hypericum amblycalyx</i> . K. Winkelmann, M. San, Z. Kypriotakis, H. Skaltsa , B. Bosilij, J. Heilmann* Zeitschrift für Naturforschung C, 2003, 58C, 527-532.
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59	Secondary metabolites from the aerial parts of <i>Stachys ionica</i> , a greek endemic species. A. Meremeti, A. Karioti, H. Skaltsa* , J. Heilmann, O. Sticher. BSE, 2004, 139-151.
60	Essential oil analysis and antimicrobial activity of eight <i>Stachys</i> species from Greece. H. Skaltsa* , C. Demetzos, D. Lazari, M. Sokovic. Phytochemistry, 2003, 64, 743-752.
61	Composition and Antibacterial activity of the Essential Oil of six <i>Stachys</i> species from Serbia. S, Grujic-Jovanovic, H. Skaltsa* , P. Marin, M. Sokovic. FFJ, 2004, 19, 139-144.

62	In vitro Anti- <i>Helicobacter pylori</i> activity of Greek Herbal Medicines. G. Stamatis, P. Kyriazopoulos, S. Golegou, A. Basayiannis, S. Skaltsas, H. Skaltsa* Journal of Ethnopharmacology, 2003, 88, 175-179.
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62	Essential oil of <i>Centaurea pannonica</i> (Heufel) Simonkai and antioxidant activity of the methanol extract. Milošević T, Argyropoulou C, Mihailović V, Stanković M, Solujić S, Skaltsa H. 58th International Congress & Annual Meeting of the Society for Medicinal Plant Research, Berlin, Germany, August 29- Sept. 1, 2010.
63	Two novel phloroglucinols from <i>Hypericum empetrifolium</i> with antiproliferative activity on endothelial cells. Schmidt S, Skaltsa H, Jürgenliemk G, Heilmann J. 58th International Congress & Annual Meeting of the Society for Medicinal Plant Research, Berlin, Germany, August 29- Sept. 1, 2010.

PUBLICATIONS CONCERNING THE HISTORY OF PHARMACY

1	Le Codex manuscrit du Laboratoire de Pharmacognosie de l'Université d'Athènes-1ère unité. S. Philianos, H. Skaltsa 29th International Congress for the History of Pharmacy, Athens, April, 1989.
2	Les médicaments d'origine pharmacochimique de la 1ère édition de la Pharmacopée hellénique (1837,1868). S. Philianos, H. Skaltsa Congresso Nazionale dell' Accademia Italiana di Storia della Farmacia, Siena, November, 1990.
3	Aspects pharmacognostiques de l'oeuvre de Nicandre de Colophon. S. Philianos, H. Skaltsa 30th International Congress for the History of Pharmacy, Praha, April, 1991.
4	Le Codex manuscrit du Laboratoire de Pharmacognosie de l'Université d'A-thènes - 2ème unité. S. Philianos, H. Skaltsa 30th International Congress for the History of Pharmacy, Praha, April, 1991.
5	Sur les morsures et les venins d'animaux (13ème discours d'Aétus d'Amide). S. Philianos, H. Skaltsa. Congresso Nazionale dell' Accademia Italiana di Storia della Farmacia, Pavia, October, 1991.
6	Aspects pharmacognostiques de "Theriaka" de Nicandre de Colophon. H.Skaltsa, S.Philianos. Congresso Nazionale dell' Accademia Italiana di Storia della Farmacia, Pavia, October, 1991.
7	Considérations pharmacognostiques sur l'oeuvre de Théophane Nonnos-1ère communication.

	H. Skaltsa, S. Philianos. Congresso Nazionale dell' Accademia Italiana di Storia della Farmacia, Rome, November, 1992.
8	Considérations pharmacognostiques sur l'oeuvre de Théopane Nonnos- 2ème communication. M. Rallis, H. Skaltsa, S. Philianos. 31 st International Congress for the History of Pharmacy, Heidelberg, May, 1993.
9	Etude comparative de la première édition de la Pharmacopée hellénique (1837, 1868) et de la Pharmacopée bavaroise (1822). S. Philianos, H. Skaltsa. 31 st International Congress for the History of Pharmacy, Heidelberg, May, 1993.
10	Aspects pharmacognostiques de "Theriaka" de Nicandre de Colophon. II. S. Philianos, H. Skaltsa. Atti dell' Accademia, 1994, Anno XI, no 2, p.139-144.
11	Les médicaments préconisés par Théopane Nonnos en Gynécologie. H. Skaltsa, S. Philianos, H. Stamatoyianni. 32 rd International Congress for the History of Pharmacy, Paris, September, 1995
12	L'Aconit chez Nicandre et de nos jours. S. Philianos*, H. Skaltsa, G. Papaphilippou. Rêvue d'Histoire de la Pharmacie, 1997, XLV, n ^o 316, 405-410.
13	Hellébore, ciguë et pommade mercurielle chez Robert Merle. S. Philianos*, H. Skaltsa, Rêvue d'Histoire de la Pharmacie, 2001, XLIX, n ^o 329, 115. Communications de l'Académie Internationale de la Pharmacie, 2001, n ^o 39, 196.
14	Aragon et Shakespeare- Commentaires pharmaceutiques. S. Philianos*, H. Skaltsa Rêvue d'Histoire de la Pharmacie, 2001, XLIX, n ^o 331, 459-460. Communications de l'Académie Internationale de la Pharmacie, 2001, n ^o 40, 258

Research Projects

1	Isolation and evaluation of the insect-repellency and antimicrobial activity of micro-fungi metabolites. Bilateral project: Greece-Yugoslavia.
2	Secondary metabolites from <i>Anthemis melanolepsis</i> (Asteraceae) and encapsulation in liposomes, aiming to the improvement of their biological action. Greek Ministry of Education-E.U.
3	Secondary metabolites of <i>Quercus ilex</i> (Fagaceae) following insect attack. Use of the modern techniques of molecular modeling, aiming to the development of new bioactive compounds of natural origin. Greek Ministry of Education-E.U.

4	Secondary metabolites from Greek endemic medicinal plants with antimicrobial and cytotoxic/cytostatic activity. Bilateral project: Greece-Serbia [2004-2006].
5	Secondary metabolites isolated from <i>Anthemis</i> sp. active against <i>Helicobacter pylori</i> growth. Prediction and optimization of ADME parameters. Bilateral project: Greece-Turkey.
6	Antiinflammatory and cytotoxic activities of labdane diterpenes isolated from greek endemic taxa of the Lamiaceae family. Bilateral project: Greece-Germany. IKYDA-DAAD 2007-2009.

Supervision of Ph. D. Thesis: 8 (6 Greek and 2 foreign students: Algeria, Serbia)

Supervision of M. Sc.: 23

Current MS students 3

Current Phd students 1

Current Post docs 2

Memberships in International Scientific Societies

Since 1993-International Academy for the History of Pharmacy; Société Française d' Histoire de la Pharmacie.

Since 1997-GA (Gesellschaft für Arzneipflanzenforschung, Society for medicinal Plant Research).

Since 2002- AMAPSEEC (Association for the Medicinal and Aromatic Plants of Southeast European Countries).

Since 2005-PSE (Phytochemical Society of Europe).

Member of many Greek Associations/Societies, such as Hellenic Association of Pharmacists - Member of the board, Hellenic Society for the Protection of Nature, Hellenic Botanical Society, Hellenic Society of Ethnopharmacology, Greek Society of Pharmacology, Hellenic Society of Medicinal Chemistry, Hellenic Society of Cosmetology etc.