



Damanshour University
Faculty of Pharmacy

جامعة دمنهور
كلية الصيدلة



Curriculum Vitae

El Moataz Bellah Aly El Naggar, Ph.D

Professor of Phytochemistry

Department of Pharmacognosy
Faculty of Pharmacy
Damanshour University
Egypt



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Personal information:

Date of birth: December 5th, 1970

Nationality: Egyptian

Current positions:

- Vice Dean of Postgraduate Studies and Research
- Head of Pharmacognosy Department, Faculty of Pharmacy, Damanshour University, Egypt.

Languages: Fluent Arabic and English (written & spoken)

Education:

1. **Doctor of Philosophy in Pharmaceutical sciences, Faculty of Pharmacy, Veterinary and pharmaceutical University-Faculty of Pharmacy, Czech Republic (June 2006),**
2. **Pharm.Dr degree in Human Pharmacology and Toxicology, Faculty of Pharmacy, Veterinary and pharmaceutical University, Czech Republic (June 2004).**
3. **Pharm.D degree in Clinical Pharmacy, Faculty of Pharmacy, Tanta University, Egypt, (1999).**
4. **Diploma of higher studies in Biochemical analysis, Faculty of Pharmacy, Alexandria University, Egypt (June 1996).**
5. **Bachelor degree in pharmaceutical sciences, Faculty of pharmacy, Alexandria University, Egypt (June 1993).**



Employment History & Positions held:

1. Faculty of Pharmacy, Damanshour University, Egypt (10/2011 to now)

- **Professor of Pharmacognosy**, Department pharmacognosy, from 31/07/ 2021 – till now.
- **Associate Professor of Pharmacognosy**, Department pharmacognosy, from 27/05/ 2015 – 2021
- **Lecturer of Pharmacognosy**, Department pharmacognosy, from 16/10 /2011 till 26/05/2015.

2. Environmental and Research, Sadat City, University of Minufiya 2006-2011)

- **Lecturer of Natural Resources**, Department Natural Resources, from 28/01 /2007 till 15/10/2011.
- **Assistant Lecturer of Natural Drugs**, Department Natural Resources, from 2/10/2000–27/06/ 2006

Teaching Experiences:

A. Damanshour University (2011-2023)

A.1. Participation in teaching the following **Undergraduate students'** courses in the Department of Pharmacognosy, Faculty of Pharmacy, Damanshour University, Egypt including:

1. Pharmacognosy I, II (1&2th year students)
2. Medicinal plants
3. Quality control of Herbal Medicine (3th year students)
4. Phytochemistry I, II (4th year students)

A.2. Teach Pharmacognosy related **Postgraduate courses**, Faculty of Pharmacy, Damanshour University, Egypt including:

1. Advanced Separation Techniques (Master & Doctoral Degree)
2. Quality Control of Crude Drugs and Phytopharmaceuticals (Master & Doctoral Degree)
3. Plant Tissue Culture Methods (Master & Doctoral Degree)
4. Dissertation and Presentation (Master & Doctoral Degree)
5. Recent Approaches in Spectral Analysis
6. Chemistry of Natural Products (Master & Doctoral Degree)

A.3. Participate in the preparation of courses specifications & matrices of all courses of B.Sc. Program, clinical pharmacy and Pharm.D



B. Environmental and Research, Sadat City, University of Minufiya 2006-2011)

B.1. Participation in teaching the following Undergraduate students' courses in the Department of Natural Resources, Environmental & Studies Research , Minufiya University, Egypt as a lecturer (2006-2011):

1. Natural Resources
2. Environmental Pollution
3. Environmental health monitoring
4. Air pollution and health impacts
5. Biodiversity

- For all of these courses, beside my participation in teaching lectures, I participate in:
- a) Designing and supervising practical parts and/or tutorials (if any)
 - b) Designing and marking of written exams & oral exams (if any)
 - c) Preparing of course specification, matrix and reports
 - d) Preparing course portfolio

B.2. Participation in Committee for supervision of the central laboratory, specially working on the maintenance of Agilent 1200 High Performance Liquid Chromatography connected to Diode Array Detector and Bruker Ion Trap Mass spectrometry preparing and teaching the practical sessions for postgraduate students.



Academic Experiences:

Workshops Attended

1. Workshop of “**Training matrix to qualify the leaders**”, held in 2,3,9 and 10 September 2022, Faculty and leadership Development Center, Alexandria University
2. Training Course on "**Basic Operator and maintenance training Course on Amazon SL spectrometry for Low MW Applications**" held in 11 to 13 September 2012, Bremen, Germany
3. Workshop of "**Training Strategies and Modern Teaching Conference**" held in 1, 2 December 2012 by Canadian academy for training and consulting at Cairo University Convention Center.
4. Workshop of "**Environmental and Food Testing Seminar**" held in 27,28 November 2012 by Agitech (Agilent Technologies) Cairo, Egypt.
5. Workshop of "**New Technologies of Atomic and Molecular Spectroscopy**" held in 3 April 2013 by Agitech (Agilent Technologies) Cairo, Egypt.
6. Intensive Training Courses on "**Proper and Precise HPLC/MS Analysis**", organized by Faculty of Pharmacy, Department of Natural Drugs, Brno, Czech Republic 2004/2005.
7. Workshop of "**Prevention of Cruelty to Animals**" held in 14 November 2003 by Central Commission for Animal Welfare at University of Veterinary and Pharmaceutical University, Czech Republic.
8. Workshop of "**Applications of computer and Information Technology to Science Education**" held in 27 to 31 July 1997 by University of Alexandria Research Center
9. Workshop of "**Current Good Manufacturing Practices for Pharmaceuticals**" held in 18 June 1997 by Rp Scherer Egypt

Conferences Attended and Abstracts published:

- *2nd PUA International Conference “Multidisciplinary Approaches in Pharmaceutical Sciences “Nano-LC-ESI-MS analysis of the phytochemicals of Yucca aloifolia variegata L” 11 & 12 March 2020, at Faculty of Pharmacy & Drug Manufacturing, Pharos University in Alexandria.*
- *2nd International Conference on Environmental Studies and Research- Natural Resources & Future Challenges -held by Environmental Studies and Research Institute, Sadat City, Minofyia University under title of "The Modulatory Effect of Ecbalium elatrium juice on Liver Damage Induced by Carbon Tetrachloride in Rats”25-27 February 2013*
- *The Fourth International Conference of Pharmaceutical & Drug Industries Research Division “Research and Development in Drugs: Current Challenges”3-5 March, 2009. National Research Centre Cairo, Egypt.*



- 25th annual conference of Tanta Faculty of Medicine “**Environmental Pollution and Human Health**” 1,2 April 2010
- First International conference on Environmental Studies and Research held by Environmental Studies and Research Institute, Sadat City, Minofiya University under title of “**Isolation, Structure Elucidation and Antioxidant Potential of Major Flavonoids in Cleome droserifolia**” (7-9 May 2008)

Dissertation Supervision (completed & in progress)

A. Completed thesis:

1. Thesis of Master Degree, Environmental Studies and Research Institute, Sadat city, Minofiya University. “**Hypolipidemic Effect of Artemisia L Sp. Of Medicinally Important on Experimental Animals**” as a co-supervision with Prof. Dr Tarek abd el raouf .and Dr Magda Abo El-Safa, 2011
2. Thesis of Master Degree, Environmental Studies and Research Institute, Sadat city, Minofiya University. “**A Study on the Role of Echinace plant in the Management of Chronic Obstructive Pulmonary Disease**” as a co-supervision with Prof. Dr. .Manal A. Eid and Dr. Inas Z. Abd El Salam 2012
3. Thesis of Master Degree “**An Ecological study on Chemodiversity of Haplophyllum tuberculatum (Rutaceae)**” as a co-supervision with Prof. Dr. Salama El-Darier and Dr. Adel Abd El Hady 2013.
4. Thesis of Master Degree, Environmental Studies and Research Institute, Sadat city, Minofiya University. “**A study of the possible Hepatoprotective effect of Ecballium elantrum juice on the liver of rats under chemical hepatotoxicity**” as a co-supervision with with Prof. Dr. Mochtar moh mabrouk and Dr. Omar Hamam, 2014.
5. Thesis of Master Degree, Environmental Studies and Research Institute, Sadat city, Minofiya University. “**Antimicrobial activity of Achillea santolina plant**” as a co-supervision with Prof. Dr. Sabha El-Sabach and Dr. Omar Hamam, 2014.
6. Thesis of Master Degree, Environmental Studies and Research Institute, Sadat city, Minofiya University. “**Studies on the control of biofilm formed by some (dental) pathogenic bacteria**” as a co-supervision with Prof. Dr.Sabha mahmoud al-sabbagh, 2015.
7. Thesis of PhD degree Faculty of pharmacy, Damanhour University, “ **Tissue culture study of some medicinal plants with a potential antioxidant capacity**” as a co-supervision with Prof. Dr. Salah A. Sheweita, Prof. Dr. Maha A. El Demellawy and Dr. Ahmed O. Elzoghbi., 2016.



8. *Thesis of Master Degree, Institute of Graduate Studies and Research, Department of Environmental Studied, Alexandria University. "Extracting, Identifying and assessing environmental friendly antifungal to be used in cereals storage" as a co-supervision with Prof. Dr. Hala Ahmed Awney and Dr. Ghada Amin Youssef, 2019.*
9. *Thesis of PhD degree, Faculty of Pharmacy, Damanshour University. "Pharmacognostical Study of Certain Male Contraceptive Natural Products)" as a co-supervision with Prof. Dr. Mohammed S. Hifnawy and Dr. Hossam Moukhtar Hassan, 2019.*
10. *Thesis of PhD degree, Faculty of Pharmacy, Kasr Eleni University. "Pharmacognostical Investigation of some Yucca Species (Asparagaceae)" as a co-supervision with Prof. Dr. Seham Salah El Din El-Hawary and Ass. Prof. Dr. Abeer Mohamed Ali El-said , 2019.*
11. *Thesis of Master degree, Faculty of Agriculture, Damanshour University. "The Effect of Thyme Plant Extract, *Thymus vulgaris* on the Cotton Leafworm (*Spodoptera littoralis*)" as a co-supervision with Prof. Dr. Mohamed Abd Elkader and .Prof. Dr.Khalil Deraz, 2021*
12. *Thesis of PhD degree, Faculty of Pharmacy, Damanshour University. "Plant tissue culture study on some plants used in the folk medicine to combat cancer" as a co-supervision with Prof. Dr. Fathy Elfaify, Prof. Dr. Gamal omran, and Ass. Prof. Dr Emil Svajdlenka, 2023.*

B. In progress thesis:

1. *Thesis of PhD degree, Faculty of Pharmacy, Damanshour University. "Metabolic profiling and Biological Investigation of some Aloe plants growing in Egypt" as a co-supervision with Prof. Dr. Eman Shawki, Ass. Prof. Dr. Rasha AboEl Khair. and Ass. Prof. Dr.Mohamed Hasseb, 2020*
2. *Thesis of PhD degree, Faculty of Pharmacy, Damanshour University. "Phytochemical and biological investigation of *Trigonella foenum-graecum* L. (Fenugreek) family Fabaceae" as a co-supervision with Prof. Dr. Eman Shawki, Ass. Prof. Dr. Rasha AboEl Khair. and Ass. Prof. Dr.Amira beltagy, 2021*
3. *Thesis of Master degree, Faculty of Pharmacy, Damanshour University. "Phytochemical and biological investigation of Pumpkin (*Cucurbita pepo* L.) for the identification of its potential Bioactive metabolites" as a co-supervision with Prof. Dr. Eman Shawki and Dr.Nihal El Newehy, 2023*
4. *Thesis of Master degree, Faculty of Pharmacy, Damanshour University. "Phytochemical and biological studies of *Colocasia esculenta* L." as a co-supervision with Prof. Dr. Maged wasfy, Ass. Prof. Dr. Marwa Abdelaziz and Dr.Reham Adel, 2023*



5. *Thesis of Master degree, Faculty of Pharmacy, Damanshour University. "Phytochemical and biological screening of (*Lepidium sativum. L*) Family Brassicacea" as a co-supervision with Prof. Dr. Eman Shawki, Ass. Prof. Dr. Reham said and Dr. Yasmin atia, 2023*

6. *Thesis of Master degree, Faculty of Pharmacy, Damanshour University. "Chemical profiling and biological activity of olive plant (*Olea europaea L.*) growing in Egypt" as a co-supervision with Prof. Dr. Eman Shawki, and Ass. Prof. Dr. Rasha AboEl Khair. 2023*



Publications:

- 1- **El Naggat EM.B.**, Bartošiková L., Žemlička M., Švadlenka E., Rabišková M., Strnadová V., Nečas J.: Antidiabetic Effect of *Cleome droserifolia* Aerial Parts: Lipid Peroxidation-Induced Oxidative Stress in Diabetic Rats. *Acta Veterinaria*. 2005; 74:347 – 352.
- 2- Bartosova L, Novak F, Frydrych M, Parak T, Opatrilova R, Brunclik V, Kolevska J, **El Naggat EM.B** Necas J.: Effect of new ultrashort betalytic agent on aconitine-induced arrhythmia. *Biomedical Papers*. 2005; 149(2):339-43.
- 3- Tomáš Florian, Jiří Nečas, Lenka Bartošiková, Jarmila Klusáková, Václav Suchý, **El Moataz B. El Naggat**, Eva Janoštková, Tomáš Bartošik: Effects of prenylated isoflavones Osajin and Pomiferin in premedication on the Heart Ischemia-Reperfusion. *Biomed Pap Med Fac Univ Palacky Olomouc Czech Repub*. 2006; 150(1):93–100.
- 4- **El Naggat E.M.B.**, Švajdlenka E., Liptaj T., Muselík J., Žemlička M., Suchý V., Bartošiková L., Nečas J.: Flavonoids from *Cleome droserifolia* aerial parts and their in vitro antioxidant activities. Poster represented at the conference of synthetic and analytical drugs, Brno, Czech Republic 2006.
- 5- **El Naggat E.M.B.**, Švajdlenka E., Liptaj T., Muselík J., Žemlička M., Suchý V. Isolation, structure elucidation and antioxidant potential of major flavonoids compounds in *Cleome droserifolia* aerial parts. The 1st International Conference on Environmental Studies and Research "Natural Resources & Sustainable Development" Sadat city, Egypt, 7-9.3.2008
- 6- Kubíčková Z., Pražanová G., Chalupová M., Suchý P., **El Naggat E.B.**, Švajdlenka E., Žemlička M. Verification of the hepatoprotective effect of *Ecballium elaterium* juice in rats in vivo. The 61st Czech-Slovak pharmacological days and the federation of European pharmacological societies, Czech republic, Brno, 14-16.9.2011
- 7- **EMB. El-Naggat**; Eglal M.A. Helal; A.M. Shams El-Din; A.A. Al-Gawaad and M.A.I.Zayan. Chemical composition and bioassay of essential oils and crude extracts from two *Artemisia* species against the cotton leaf worm and the pink corn borer. *J.Egypt.Soc.Toxicol*. 2012; 45:109-125.



- 8- **EMB. El-Naggar**; Eglal M.A. Helal; A.M. Shams El-Din; A.A. Al-Gawaad and M.A.I.Zayan. Chemical composition and bioassay of essential oils from two Eucalyptus species against the cotton leaf worm and the pink corn borer larvae. *J.Egypt.Soc.Toxicol.* 2012; 46:1-16.
- 9- **El Moataz Bellah El-Naggar**. *Artemisia herba alba & Artemisia monosperma*: The Discovery of the first potential Egyptian plant sources for the Pharmaceutical Commercial Production of Artemisinin and Some of Its Related Analogues. *Journal of Applied Pharmaceutical Science.* 2012; 02 (07):77-91
- 10- Marta Chalupova, **El Moataz Bellah El Naggar**, Gabriela Pražanova, Tomáš Parak, Emil Švajdlenka, Milan Žemlička, Pavel Suchy. Proapoptotic Activity of *Ecballium elaterium* Juice on CCl₄-induced Hepatotoxicity in Rats. 18th Interdisciplinary Czech-Slovak Toxicology Conference - TOXCON 2013: Military Medical Science Letters. 2013; 82, (Suppl 1).
- 11- **El Naggar E.M. B.** ; Mabrouk M.M; Tamam O; Sayerdayer R.A. The modulatory effect of *Ecbalium elaterium* juice on liver damage induced by carbon tetrachloride in rats. The 2nd International Conference on Environmental and Research "Natural Resources & Future Challenges" Sadat city, Egypt, 25-27.2.2013
- 12- **El-Moataz Bellah El-Naggar**, Mohamed Azazi, Emil Švajdlenka, Milan Žemlička. Artemisinin from minor to major ingredient in *Artemisia annua* cultivated in Egypt. *Journal of Applied Pharmaceutical Science.* 2013; 3 (08): 116-123.
- 13- **El-Moataz Bellah El-Naggar**, Salama El-Darier, Adel Abdalla, Sayeda El-Mekanen, Emil Švajdlenka, Milan Žemlička. Chemical Composition of Essential Oil of *Haplophyllum tuberculatum* (Rutaceae) Grow Wild in Different Habitats of Egypt. *Global Journal of Pharmacology.* 2014; 8 (3): 385-393.
- 14- Reham Mustafa, Hattem Mekky, **El-Moataz Bellah El-Naggar**, Hala Zaatout and Fathy El-Fiky Effect of Suspension Culture on Basil and Anise Essential Oils Composition and Comparison of their Cytotoxic, Immunostimulant and Antioxidant Activities. *Journal of pharmaceutical biology.* 2015; 5(4): 295-300.
- 15- Rana M.Ibrahim, Ali M.El-Halawany, Dalia O.Saleh, **El-Moataz Bellah El-Naggar**, Abd El-Rahman O.El-Shabrawy, Seham S.El-Hawary. HPLC-DAD-MS/MS profiling of phenolics from *Securigera securidaca* flowers and its anti-hyperglycemic and anti-hyperlipidemic activities. [Revista Brasileira de Farmacognosia.](#) 2015;25: 134-141.



- 16- M. Abd El-Salam, H. Mekky, **E.M.B. El-Naggar**, D. Ghareebc, M. El-Demellawy, El-Fiky. Hepatoprotective properties and biotransformation of berberine and berberrubine by cell suspension cultures of *Dodonaea viscosa* and *Ocimum basilicum*. South African Journal of Botany. 2015; 97: 191–195.
- 17- Mohamed S Hifnawy, Hanaa A Kassem, Hanaa H Eid, Tohamy AF, **Moataz B El Naggar**, Dalia O Saleh and Inas Y Younis. Study of the hypolipidemic activity of Egyptian *Tropaeolum majus* L. (garden nasturtium) as a promising therapeutic plant for treatment of cardiac diseases. Journal of Pharmacognosy and Phytochemistry 2016; 5(6): 314-322.
- 18- Asmaa Ibrahim Owis, **ElMoataz Bellah ElNaggar**. Identification and Quantification of the Major Constituents in Egyptian Carob Extract by Liquid Chromatography–Electrospray Ionization-Tandem Mass Spectrometry. Pharmacognosy magazine. 2016; 12.(Suppl 1): S1.
- 19- Abeer M. El Sayed, Shahira M. Ezzat, **Moataz M. El Naggar**, Seham S. El Hawary. In vivo diabetic wound healing effect and HPLC–DAD–ESI–MS/MS profiling of the methanol extracts of eight Aloe species. Revista Brasileira de Farmacognosia. 2016; 26(3): 352-362.
- 20- El-Fiky FK, Dekinash MF, Beltagy AM, **El-Naggar MA** and Khatlab AR. Chemical Composition and Biological Activity of Essential Oil from *Cotula cinerea* (Del.) Growing Wildly in the Middle East: A Short Review. Int J Pharmacogn Chinese Med. 2017; 1(1): 000103.
- 21- Helmi Moqbel, Seham Salah El Dine El Hawary, Nadia Mohammed Sokkar, **El Moataz Bellah El-Naggar**, Noha El Boghdady, Ali Mahmoud El Halawany. HPLC-ESI-MS/MS characterization of phenolics in *prunus amygdalus*, cultivar “umm alfahm” and its antioxidant and hepatoprotective activity. Journal of Food Measurement and Characterization. 2018; 12(2): 808-819.
- 22- Seham El Hawary, Abeer El Sayed, Maged W. Helmy, **El Moataz bellah El Naggar**, Hanan S. Marzouk & Samar M. Bassam. DNA fingerprinting, biological and chemical investigation of certain *Yucca* species. Natural Product Research. 2018; 32(21): 2617-2620.
- 23- Hala Awney, Asmaa Salah, Ghada Amin, and **El-Moatazbellah El-Naggar**. Safe, Efficient and Environmentally Friendly Fungicide Against Aflatoxin-producing Fungi in Nourishment Cereal. Curr Dev Nutr. 2019; 3(Suppl 1): nzz051.P04-133-19.
- 24- Reham Mustafa, **E. M. B El-Naggar**, Emil Svajdlenka, Gamal Omran, Fathy ELFikey, Amr El-Hawiet. Enhancement of phenolic content, antioxidant and cytotoxic activities of *Moringa oleifera* leaf and seed by suspension culture. Natural Product Research. 2020; 33(11): 2870-2903.



- 25- Reham S. Darwish, Hala M. Hammuda, Doaa A. Ghareeb, Ali S.A. Abdelhamid, **El Moataz Bellah El Naggat**, Fathallah M. Harraz, and Eman Shawky. Efficacy-directed discrimination of the essential oils of three *Juniperus* species based on their *in-vitro* antimicrobial and anti-inflammatory activities. *Journal of Ethnopharmacology*. 2020; 259: 112971.
- 26- Abeer M. El Sayed, Samar M. Basam, **El Moataz bellah A. El Naggat**, Hanan S. Marzouk & Seham El Hawary. LC–MS/MS and GC–MS profiling as well as the antimicrobial effect of leaves of selected *Yucca* species introduced to Egypt. *Scientific Reports*. 2020; 10(1): 1-15.
- 27- Mohammed S. Hifnawy, Mahmoud A. Aboseada, Hossam M. Hassan, Adel F. Tohamy, **El Moataz B. El Naggat**, Usama Ramadan Abdelmohsen. Nature-inspired male contraceptive and spermicidal products. *Phytochemistry Reviews*. 2020; 21:1-47.
- 28- Mohammed S. Hifnawy, Mahmoud A. Aboseada, Hossam M. Hassan, Asmaa M. AboulMagd, Adel F. Tohamy, Samraa H. Abdel-Kawi, Mostafa E. Rateb, **El Moataz Bellah El Naggat**, Miaomiao Liu, Ronald J. Quinn, Hani A. Alhadrami, and Usama Ramadan Abdelmohsen. Testicular Caspase-3 and Catenin Regulators Predicted via Comparative Metabolomics and Docking Studies. *Metabolites*. 2020; 10(1):31.
- 29- Amira K. G. Atteya, S. F. Hendawy, **E. M. B. EL Naggat**, M. S. Hussein and H. B. Gewiada. Vegetative growth characters, yield and chemical composition of *Anthriscus cerefolium* plants grown under Egyptian conditions on different sowing dates. *Bioscience Research*. 2020; 17(1): 524-538.
- 30- Reham S. Darwish , Eman Shawky , **El Moataz Bellah El Naggat** , Hala M. Hammuda & Fathallah M. Harraz. Evaluation of the effect of seasonal variation and organ selection on the chemical composition and antimicrobial activity of the essential oil of oriental-cedar (*Platyclaudus orientalis* (L.) Franco). *Journal of Essential Oil Research*. 2021; 33(1): 69-79.
- 31- Asmaa I. Owis, Noheir H. Sherif, Asmaa A. Hassan, **EL-Moataz Bellah ELNaggat**, Iman H. EL-Khashab & EL-Sayed EL-Ghaly. *Tropaeolum majus* L. and low dose gamma radiation suppress liver carcinoma development via EGFR-HER2 signaling pathway. *Nat Prod Res*. 2022; Jul 14; 1-6.
- 32- WM Abd El Wahab, RM Shaapan, **EMB El-Naggat**, MM Ahmed, AI Owis. Anti-Cryptosporidium efficacy of *Citrus sinensis* peel extract: Histopathological and ultrastructural experimental stud. *Experimental Parasitology*. 2022; Oct; 108412
- 33- Mohamed Fayez Dekinash , Tarek M. Okda , Ehab Kotb Elmahallawy, Fathy Kandil El-Fiky , Gamal Abd El Hay Omran , Emil Svajdlenka , Naief Dahran , Manal F. El-Khadragy, Wafa A. Al-Megrin and **El Moataz Bellah Ali El Naggat**. Insights into HPLC-MS/MS Analysis, Antioxidant and Cytotoxic Activity of *Astragalus fruticosus* against Different Types of Cancer Cell Lines. *Pharmaceuticals* 2022, 15, 1406.