

Curriculum Vitae

Prof. Dr. Afaf Mohamed Abdel-Baky

**Professor of Pharmacognosy, Faculty of Pharmacy,
Assiut University, Assiut, Egypt**

Name : Afaf Mohamed Abdel-Baky
Date of Birth : 23/4/1948.
Place of Birth : Assiut, Egypt
Nationality : Egyptian
Marital Status : Married, have 2 sons and 2 daughters.
Position : Professor, of Pharmacognosy, Faculty of Pharmacy,
Assiut University, Assuit, Egypt.
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Experiences:

- 1- Head of Pharmacognosy Department from 1992 till 1995, from 1995 till 1997, from 2000 till 2003 and 2003 till 2006.
- 2- Professor of Pharmacognosy from 29-11-1990 till now.
- 3- Associate Professor of Pharmacognosy from August 1985 till Nov. 1990.
- 4- Lecturer in Pharmacognosy Department from 1980 till August 1985.
- 5- Assistant Lecturer in Pharmacognosy Department from 1975 till 1980.
- 6- Demonstrator in Pharmacognosy Department from Oct. 1970 till Dec. 1975.
- 7- She was a member of the Permanent Committee of Pharmaceutical Science 2001.

Certificates:

- 1- Bachelor of Pharmaceutical Sciences and Medicinal Chemistry in May 1970 with excellent grade of honour.
- 2- Master of Pharmaceutical Sciences (Pharmacognosy) in 1975.
- 3- Philosophy degree in Pharmaceutical Sciences (Pharmacognosy) in June 1980 from Leningrad Chemical and Pharmaceutical Science Institute, Leningrad USSR.

Conferences:

- 1- Egyptian Pharmaceutical Conference nearly in all years.
- 2- The First National Symposium in Herbal Medicine, Faculty of Pharmacy, Assiut University, 1992.
- 3- Assiut University Pharmaceutical Conference Held in Faculty of Pharmacy, Assiut University 1999, 2001, 2003, 2005, 2007, 2009, 2011 and 2013.

Teaching Experiences:

- 1- Teaching the undergraduate pharmacy students the courses of chemistry and natural products and courses of medicinal plants.
- 2- Teaching of pharmacy graduate students the courses of advanced pharmacognosy, isolation, identification and structural elucidation of medicinally active constituents in medicinal plants.

Theses Supervision:

The following theses have been supervised with the following titles:

- 1- A pharmacognostical study of *Opuntia ficus indica* Mill. cultivated in Assiut (Enaam Younis, Assiut University, 1984).
- 2- Pharmacognostical studies of *Tabebuia pentaphylla* Hemsl. (Family Bignoniaceae) cultivated in Egypt (Zedan Zeid Ibraheim, Assiut University, 1986).

- 3- A pharmacognostical study of *Cassia spectabilis* DC. (Family Leguminosae) cultivated in Egypt (Khaled Mostapha, Assiut University, 1988).
- 4- Phytochemical study of *Cassia didymetria* Fres. Family Leguminosae cultivated in Egypt (Enaam Younis, Assiut University, 1988).
- 5- Phytochemical study of *Crotalaria thebaica* (Del.) DC. Family Leguminosae and *Maerua crassifolia* (Forssk) Family Capparaceae growing in Egypt (Zedan Zeid Ibraheim, Assiut University, 1991).
- 6- A pharmacognostical study of *Ailanthus altissima* Swingle. (Family Simaroubaceae) cultivated in Egypt (Yaser Ghallab Gouda, Assiut University, 1998).
- 7- A phytochemical study of *Kigella pinnata* DC. and *Jacaranda ovalifolia* R.B.R. Family Bignoniaceae cultivated in Egypt (Yaser Ghallab Gouda, Assiut University, 2002).
- 8- Pharmacognostical study of *Ruellia brittoniana* Leonard. Family Acanthaceae cultivated in Egypt (Lourin Gamal, Assiut University, 2009).
- 9- Formation of tetrahydroanthracenes in tissue cultures of *Cassia bicapsularis* L.F. Fabaceae (Eman Abdel-Rahim, Assiut University, 2012).
- 10- Chemical and biological studies of compounds produced by some fungal species (Lourin Gamal, Assiut University, 2013).
- 11- Pharmacognostical and biological study of *Caryota mitis* F. Areaceae cultivated in Egypt (Islam Adel, 2014, still under investigation).

List of Publications:-

1. Iridoids from *mKigelia pinnata* DC. Fruits 2003
RKKY Yaser G. Gouda, Afaf M. Abdel-Baky, Faten M.M. Darwish,
Khaled M. Mohamed
Phytochemistry 63, 887-893
2. Phenylpropanoid and phenylethanoid derivatives from 2006
Kigelia pinnata DC. Fruits
RKKY Yaser G. Gouda, Afaf M. Abdel-Baky, Khaled M. Mohamed,
Faten M.M. Darwish
Natural Product Research, 20 (10), 935-939
3. Antileishmanial metabolites from *Geosmithia langdonii* 2014
AM Abdel-Baky
J. natural products 27, 1987-1991
4. In-vitro formulation of the anthranoid seaffold by cell-free 2013
extracts from yeast-extract-treated *Cassia bicapsularis*
cell cultures
AM Abdel-Baky
Phytochemistry 88, 15-24
5. New anthraquinone derivatives of *Geosmithia lavendula* 2013
AM Abdel-Baky
Nat. Products Communications 8 (2), 191-194
6. Phytochemical study of *Tabebuia pentaphylla* Hemsl. 1987
cultivated in Egypt.
AM Abdel-Baky
Bull. Pharm. Sci., Assiut Univ., 10 (2), 1-20
7. Phenolic compounds from *Ailanthus altissima* Swingle. 2000
A.M. Abdel-Baky, F.M.M. Darwish, Z.Z. Ibraheim and Y.G. Gouda
Bull. Pharm. Sci., Assiut Univ. 23 (2), 111-116
8. Phytochemical study of *Centaurium pulchellum* (SW) Durce 1989
growing in Egypt,
AM Abdel-Baky
Bull. Pharm. Sci., Assiut Univ., 12 (3), 416
9. Chemical constituents and antimicrobial activity of the 2017
leaves of *Caryota mitis* Lour.(Arecaceae)
IA Abdelhakim, MA El-Mokhtar, AMA El-Baky, DW Bishay
J Med Plant Stud 5 (5), 250-255
10. Flavonoids of *Reseds pruinosa* Del. growing in Egypt, 1989
AM Abdel-Baky
Bull. Fac. Sci., Assiut Univ., 18 (2-B), 1-7

11. In vitro evaluation of antioxidant activity of *Caryota mitis* Lour. Leaves extracts 2017
IA Abdelhakim, AM Abdel-baky, DW Bishay
Journal of Pharmacognosy and Phytochemistry 6 (5), 2559-2562
12. Flavonoids of *Tecoma argentea* Ber. & Schum. cultivated in Egypt, 1984
A.M. Abdel-Baky
Bull. Pharm. Sci., Assiut Univ. 7 (1), 190
13. Impact of total ammonia on growth, physiological status and histological examination of red tilapia (*Oreochromis* sp.) 2018
HE Abd Elnabi, AMM Abdel-Baky, GDI Hassanen
Journal of Animal and Poultry Production 9 (12), 515-524
14. PHYTOCHEMICAL STUDY OF CASSIA DIDYMOBOTRYA FRES. CULTIVATED IN EGYPT PART 1: STUDY OF QUINONES AND URACIL 1988
SM El-Sayyad, AM Abdel-Baky, EY Backheet, KW Glombitza
Bulletin of Pharmaceutical Sciences Assiut University 11 (2), 165-175
15. Phytochemical study of *Jacaranda ovalifolia* R.B.R. from Bignaniaceae cultivated in Egypt. 2002
Yaser G. Gouda, Afaf M. Abdel-Baky, Faten M.M. Darwish, Khaled M. Mohamed ...
Bull. Pharm. Sci, Assiut Univ., 25 (2), 165-174
16. Minor constituents from *Maerua crassifolia* Forssk growing in Egypt 1999
MA Ramadan, ZZ Lbraheim, AM Abdel-Baky, DW Bishay, H Itokawa
Bulletin of Pharmaceutical Sciences Assiut University 22 (1), 109-115
17. Pharmacognostical Study of *Avicennia officinalis* L. growing in Egypt, Part. III: Terpenoids, flavonoids and iridoids 1990
AM Abdel-Baky
Bull. Pharm. Sci. Assiut Univ. 13 (1), 59
18. SPARTEINE AND 13-HYDROXY SPARTEINE FROM LEAVES OF *SOPHORA SECUNDIFLORA* (ORTEG.) LAG. 1985
AM Abdel-Baky, MA Makboul
Bulletin of Pharmaceutical Sciences Assiut University 8 (1), 99-108
19. Study of the lipid and flavonoid contents of *Astragalus cremophilus* Boiss. growing in Egypt 1984
MA Makboul, MA El-Shanawany, AM Abdel-Baky
Bulletin of Pharmaceutical Sciences Assiut University 7 (2), 380-388

20. Cytotoxic flavone-C-glycosides from the leaves of *Dypsis pembana* (H.E.Moore) Beentje & J.Dransf., Arecaceae: in vitro and molecular docking studies
MS Abdelrahim, AM Abdel-Baky, SAL Bayoumi, SM Mohamed, ...
BMC Complementary Medicine and Therapies 23 (1), 214 2023
21. Secondary Metabolites from the Fungus *Quambalaria cyanescens*
DW Bishay, AM Abdel-Baky, AM Moharram, LG Malak, R Srivedavyasari, ...
Chemistry of Natural Compounds 54, 274-277 2018
22. Botanical and biological study of the leaves of *Caryota mitis* Lour. Family arecaceae cultivated in Egypt
IAEA Abd Elhakim, AM Abdel-Baky, DW Bishay
Bulletin of Pharmaceutical Sciences Assiut University 40 (1), 71-95 2017
23. Bioactive secondary metabolites from *Geosmithia langdonii*
LG Malak, DW Bishay, AM Abdel-Baky, AM Moharram, SJ Cutler, SA Ross
Planta Medica 79 (10), PL7 2013
24. New secondary metabolites from *Geosmithia lavendula*
L Malak, D Bishay, A Abdel-Baky, A Moharram, SJ Cutler, SA Ross
Planta Medica 79 (05), P51 2013
25. Macro-and micromorphology of the leaf and stem of *Ruellia brittoniana* Leonard cultivated in Egypt
DW Bishay, AM Abdel-Baky, SAM El-Moghazy, LG Gobraeil
Bulletin of Pharmaceutical Sciences Assiut University 32 (2), 279-300 2009
26. PHYTOCHEMICAL STUDY OF *Crotalaria thebaica* (Del.) DC. Growing in Egypt
DW Bishay, AM Abdel-Baky, MA Ramadan, ZZ Ibrahim, H Itokawa, ...
Bulletin of Pharmaceutical Sciences Assiut University 13 (1), 103-113 1990
27. Lupin alkaloid from the seeds of *Sophora secundiflora*.
AM Abdel-Baky
Bull. Fac. Sci., Assiut Univ. 18 (2-B), 63-68 1989
28. Antioxidant and antidiabetic flavonoids from the leaves of *Dypsis pembana* (H.E.Moore) Beentje & J.Dransf., Arecaceae: in vitro and molecular docking studies
MS Abdelrahim, AM Abdel-Baky, SAL Bayoumi, EY Backheet
BMC Complementary Medicine and Therapies 23 (1), 440 2023
29. Establishment of callus and cell suspension cultures of *Cassia bicapsularis* L.
IAM Abdel-Rahman, AM Abdel-Baky, EEDK Desoky, AS Ahmed, ...
Bulletin of Pharmaceutical Sciences Assiut University 36 (1), 23-30 2013

30. Erratum: Iridoids from *Kigelia pinnata* DC. fruits 2004
(*Phytochemistry* (2003) 63 (887-892)
Y Gouda, AM Abdel-Baky, FM Darwish, KM Mohamed, R Kasai, ...
Phytochemistry 65 (9), 1309
31. NEW IONOL GLYCOSIDES FROM MAERUA 1998
CRASSIFOLIA FORSSK GROWN IN EGYPT
MA Ramadan, ZZ Ibraheim, AM Abdel-Baky, DW Bishay, H Itokawa
Bulletin of Pharmaceutical Sciences Assiut University 21 (2), 89-95
32. Macro- and micromorphology of *Ailanthus altissima* 1998
Swingle cultivated in Egypt: Leaf, stem and stem-bark.
A.M. Abdel-Baky, F.M.M. Darwish, Z.Z. Ibraheim and Y.G. Gouda
Bull. Pharm. Sci., Assiut Univ 21 (2), 141-159
33. MACRO AND MICROMORPHOLOGY OF CASSIA 1989
SPECTABILIS. DC. CULTIVATED IN EGYPT PART II.
THE FLOWER, FRUIT AND SEED
SM El-Sayyad, AM Abdel-Baky, MA El-Shanawany, KM El-Ghondakly
Bulletin of Pharmaceutical Sciences Assiut University 12 (2), 213-239
34. PHYTOCHEMICAL STUDY OF CASSIA DIDYMOBOTRYA 1989
FRES. CULTIVATED IN EGYPT. PART II: FLAVONOIDS
AND STEROLS
SM El-Sayyad, AM Abdel-Baky, EY Backheet, KW Glombitza
Bulletin of Pharmaceutical Sciences Assiut University 12 (2), 195-212
35. ARGENTINE, LUPININE, CYTISINE AND N- 1987
ETHYLCYTISINE ALKALOIDS FROM SOPHORA
SECUNDIFLORA CULTIVATED IN EGYPT
AM Makboul, AM Abdel-Baky, DW Bishay
Bulletin of Pharmaceutical Sciences Assiut University 10 (2), 47-54
36. Macro-and Micromorphology of *Tabebuia pentaphylla* 1987
Hemsl. Cultivated in Egypt. Part II: The Stem Bark and
Flower
DW Bishay, SA Ross, AM Abdel-Baky, ZZ Ibrahim
Bulletin of Pharmaceutical Sciences Assiut University 10 (1), 50-73
37. Rapid Detection of Eight Volatile Alkaloids from *Caryota* 2018
mitis Lour
AM Zaher, IA Abdel-Hakim, AM Abdel-Baky, DW Bishay
by LC-MS/MS and Antimicrobial Effects of their Extracts. *Med Aromat
Plants* ...
38. Phytochemical and Biological Studies of the Flowers of 2013
Ruellia brittoniana Leonard Family: Acanthaceae
DW Bishay, AM Abdel-Baky, SAM El-Moghazy, LG Gobraeil
Planta Medica 79 (10), PN75

39. Established of callus and cell suspension cultures of *Cassia bicapsularis* L. Bull
ASALB Iman A. M. Abdel-Rahman, Afaf M. Abdel-Baky, Ezz El-Din K. Desoky
Pharm. Sci., Assiut Univ. 36 (1), 23-30 2013
40. NEW ANTHRAQUINONE DERIVATIVES FROM *GEOSMITHIA LAVENDULA*
SA Ross, LG Malak, DW Bishay, AM Abdel-Baky, AM Moharram, SJ Cutler
PHARMACEUTICAL BIOLOGY 50 (11), 1370-1370 2012
41. Formation of tetrahydroanthracenes in tissue cultures of *Cassia bicapsularis* L.
I Abdel-Rahman, T Beuerle, A Abdel-Baky, E El-Desoky, A Ahmed, ...
Planta Medica 76 (12), P224 2010
42. Iridoids from *Kigelia pinnata* DC. fruits (vol 63, pg 887, 2003)
YG Gouda, AM Abdel-Baky, FM Darwish, KM Mohamed, R Kasai, ...
PHYTOCHEMISTRY 65 (9), 1309-1309 2004
43. Further Constituents from *Crotalaria thebaica* (Del.) DC
MA Ramadan, ZZ Ibraheim, AM Abdel-Baky, DW Bishay, H Itokawa
Bulletin of Pharmaceutical Sciences Assiut University 22 (2), 131-138 1999
44. Oleanen-type saponin from *Crotalaria thebaica* D.C.,
A.M. Abdel-Baky
Proceedings of Assiut Univ. 1st Pharm. Sci. Conf., Assiut, 96-105 1998
45. New ionol glycosides from *Maeurua crassifolia* Forssk grown in Egypt
A.M. Abdel-Baky
Bull. Pharm. Sci., Assiut Univ 21 (2), 89-96 1998
46. Effect of Certain Macromolecules on the Extraction of *Sophora* Alkaloids
AA Abdel Rahman, AM Abdel Baky
Bulletin of Pharmaceutical Sciences Assiut University 15 (1), 37-48 1992
47. The lupin alkaloids of *Sophora secundiflora* in Egypt, Thai.
AM Abdel-Baky
J. Pharm. Sci. 16 (3), 267 1992
48. Fracture of the penis: clinical experience and surgical treatment
AM Abdel Baky
New Egyptian Journal of Medicine [The] 5 (11 Supp.), 53-56 1991

49. **MACRO-AND MICROMORPHOLOGY OF VERBENA OFFICINALIS L. CULTIVATED IN EGYPT PART 1: THE STEM AND LEAF** 1990
AM Abdel Baky
Bulletin of Pharmaceutical Sciences Assiut University 13 (1), 83-96
50. **Anthropometric characteristics of the mentally retarded children** 1990
SA Tohamy, AK Abdel Malek, FZ Hassan, A Abdel Baky
University of Nairobi
51. **Phytochemical Study of Tabebuia guayacan Hemsl. cultivate in Egypt,** 1990
AM Abdel-Baky
Bull. Fac. Sci., Assiut Univ 19 (1-B), 15-19
52. **PHYTOCHEMICAL STUDY OF CASSIA SPECTABILIS DC. CULTIVATED IN EGYPT** 1989
SM El-Sayyad, AM Abdel-Baky, MA El-Shanawany, KM El-Ghandakly
Bulletin of Pharmaceutical Sciences Assiut University 12 (2), 325-338
53. **Macro- and micromorphology of Cassia spectabilis DC. Cultivated in Egypt.** 1989
AM Abdel-Baky
Bull. Pharm. Sci., Assiut Univ., 12 (2), 213-239
54. **MACRO-AND MICROMORPHOLOGY OF CASSIA SPECTABILIS DC. PART 1: THE STEM AND LEAF** 1988
SM El-Sayyad, AM Abdel-Baky, MA El-Shanawany, KM El-Ghondakly
Bulletin of Pharmaceutical Sciences Assiut University 11 (1), 122-140
55. **Phytochemical study of Cassia didymobotrya Fres cultivated in Egypt.** 1988
AM Abdel-Baky
Bull. Pharm. Sci., Assiut Univ., 11 (2), 165-175
56. **Argentine, lupinine, cytisine and N-methyl cytisine alkaloids from Sophora secundiflora (Orteg.) Lag. cultivated in Egypt,** 1987
AM Abdel-Baky
Bull. Pharm. Sci. Assiut Univ. 10 (2), 24
57. **Preliminary pharmacological properties of sofronal.** 1987
AM Abdel-Baky
Fitoterapia 3 (5), 295-298
58. **Macro- and micromorphology of Tabebuia pentaphylla Hemsl. cultivated in Egypt.** 1987
AM Abdel-Baky
Bull. Pharm. Sci., Assiut Univ., 10 (1), 50-73

59. Chemical study of *Verbena officinalis* L. growing in Egypt, 1986
AM Abdel-Baky
Fitoterapia 2 (1), 50
60. Macro- and micromorphology of *Tabebuia pentaphyllo* 1986
Hemsl. Part I. Stem and leaf.
AM Abdel-Baky
Bull. Pharm. Sci. Assiut Univ. 9 (2), 210-231
61. Sparteine and 13-hydroxy sparteine from leaves of 1985
Sophora secundiflora (Orteg) Lag. Cultivated in Egypt
A.M. Abdel-Baky
Bull. Pharm. Sci., Assiut Univ. 8 (1), 99
62. Flavonoids from *Sophora secundiflora* 1984
AM Makboul, AM Abdel-Baky
Fitoterapia (Italy) 55 (2)
63. Leaf Alkaloids of *Sophora secundiflora* (Orteg) Lag. 1984
cultivated in Egypt,
A.M. Abdel-Baky
J. African Medicinal Plants
64. Pharmacognostical study of *Avicennia officinalis* L. growing 1984
in Egypt, Part II. Flavonoids and lipid present in the leaves,
A.M. Abdel-Baky
Presented in XVII, Egyptian Conference of Pharmaceutical Sciences
65. Flavonoids of *Sophora secundiflora* (Orteg) Lag. cultivated 1984
in Egypt,
A.M. Abdel-Baky
Fitoterapia, 2, 105
66. PHARMACOGNOSTICAL STUDY OF AVICENNIA 1983
OFFICINALIS L. GROWING IN EGYPT PART I: MACRO
AND MICROMORPHOLOGY OF THE STEMS AND
LEAVES
AM Abdel-Baky, SA Ross, MA Makboul, DW Bishay
Bulletin of Pharmaceutical Sciences. Assiut 6 (2), 399-415
67. Pharmacognostical study of *Avicennia officinalis* L. growing 1983
in Egypt
A.M. Abdel-Baky
Bull. Pharm. Sci., Assiut Univ 6 (2), 399
68. PHARMACOGNOSTICAL STUDY OF SOPHORA 1982
SECUNDIFLORA (ORTEG.) LAG. GROWN IN EGYPT
PART I: MORPHOLOGY AND HISTOLOGY OF THE
LEAVES AND STEMS
AM Abdel-Baky, MA Makboul

Bulletin of Pharmaceutical Sciences. Assiut 5 (1), 129-142

69. Pharmacognostical study of *Sophora secundiflora* (Orteg.) Lag. Cultivated in Egypt 1982
A.M. Abdel-Baky
Bull. Pharm. Sci., Assiut Univ 5, 129
70. Microchemical identification of *Sophora* alkaloids 1982
A.M. Abdel-Baky
Bull. Pharm. Sci., Assiut Univ 5, 143
71. PHARMACOGNOSTICAL STUDY OF *DURANTA PLUMIERI* JACQ. GROWN IN EGYPT. PART I: MORPHOLOGY AND HISTOLOGY OF THE LEAVES AND STEMS. 1981
AA Ali, AM Abdel-Baky, MA Makboul
Bulletin of Pharmaceutical Sciences. Assiut 4 (1), 32-45
72. Microchemical identification of *Sophora* alkaloids. 1981
AM Abdel-Baky, MA Makboul
73. Flavonoids of *Duranta plumerie* Jacq. cultivated in Egypt 1981
A.M. Abdel-Baky
Fitoterapia 11 (5), 219
74. Macro- and micromorphology of *Duranta plumerie* Jacq. cultivated in Egypt, 1981
A.M. Abdel-Baky
Bull. Pharm. Sci., Assiut Univ 4, 32