

## CURRICULUM VITAE

### PERSONAL:

- Name:** Ghada Sameh Hafez Hassan.
- Position:** Associate Professor of pharmaceutical and medicinal chemistry.
- Address:** Pharmaceutical Chemistry Department,  
Faculty of Pharmacy,  
Mansoura University,  
Mansoura, Egypt.  
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E-Mail: [ghadak25@yahoo.com](mailto:ghadak25@yahoo.com).
- Date of Birth:** November 10, 1974.
- Place of Birth:** Cairo, Egypt.



### EDUCATION:

**Ph.D (Medicinal Chemistry), 2007:**

University of Mansoura, Mansoura, Egypt.

**Dissertation:** "Synthesis of Certain New Aryl Fused Triazolopyrimidine Derivatives of Expected Pharmacological Action"

**M.Sc. (Medicinal Chemistry), 2002:**

University of Mansoura, Mansoura, Egypt.

**Dissertation:** "Synthesis of Certain New 1-Adamantyl Derivatives of Expected Pharmacological Activity."

**B.Sc. (Pharmaceutical Sciences), 1996:**

Faculty of Pharmacy, University of Mansoura, Mansoura, Egypt. Excellent, High Honor.

## EMPLOYMENT AND RESPONSIBILITIES:

- 2013-present Associate Professor of Medicinal Chemistry, Faculty of Pharmacy, Mansoura University, Mansoura, Egypt.
- 2009-2014 Assistant professor, Faculty of Pharmacy, King Saud University, Riyadh, Saudi Arabia
- 2007- 2009 Member of Scientific research committee for CIQAP, Faculty of Pharmacy, Mansoura University, Mansoura , Egypt.
- 2007- 2013 Lecturer of Medicinal Chemistry, Faculty of Pharmacy, Mansoura University, Mansoura, Egypt.
- 2002-2007 Ph.D. graduate student, Dept. of Medicinal Chemistry, Faculty of Pharmacy, Mansoura University, Mansoura, Egypt.
- 1997-2002 Research Associate, Dept. of Medicinal Chemistry, Faculty of Pharmacy, Mansoura University, Egypt.
- 1991-1996 Graduate research and teaching associate, Dept. of Medicinal Chemistry, Faculty of Pharmacy, Mansoura University, Mansoura, Egypt.

## TEACHING EXPERIENCE:

Medicinal and Organic Chemistry courses for undergraduate Students.

### a. Undergraduate:

1. **Organic Medicinal Chemistry:** A standard course offered to the third and fourth year class, Faculty of Pharmacy. Emphasis is on uses, syntheses, structure and biological activity for compounds of medicinal and pharmaceutical importance.
2. **Pharmacopeial Standards of Pharmaceutical Compounds:** A standard course offered to the third year class, which deals with official pharmacopeal limits and standards for drug evaluation, including methods of preparation, quantitative and qualitative assays.
3. **Pharmaceutical Analysis:** A laboratory course for the quantitative and qualitative assays for drugs and its impurities.
4. **Organic Chemistry:** A basic course offered to the first and second year class,

which covers functional group, heterocyclic and carbohydrate chemistry.

5. **Spectrometric Identification of Pharmaceutical Compounds:** The course deals with the principles and application of nuclear magnetic resonance (NMR), mass (MS) and infra-red (IR) spectrometry in the structural elucidation of organic compounds.

**b. Graduate:**

- 1- **Spectroscopic Methods of Identification:** A course offered to graduate and drug analysis diploma students emphasizing application of instrumental methods used in structural elucidations, including IR, UV, -mass spectrometry, <sup>13</sup>C and two dimensional NMR (Cosy, Hetcor ... etc.) spectroscopy.

### RESEARCH EXPERIENCE:

Synthetic and medicinal organic chemistry in the areas of heterocyclic compounds. Familiarity with modern techniques including various chromatographic separation methods. Extensive use and interpretation of instrumental data, including mass spectrometry, IR, UV, <sup>1</sup>HNMR spectroscopy.

### MEMBERSHIPS:

1. The Editorial Board of "African Journal of Microbiology Research", since 2013.
2. The Saudi Pharmaceutical Society since 2012.
3. The Egyptian Syndicate of Pharmacists since 1996.

### PATENTS:

1. **European Patent EP 2 514 753 B1, Aug. 2013.** "6,7-Dihydro-[1,3,4]thiadiazolo-[3,2-a][1,3]diazepin derivatives and pharmaceutical compositions containing the same as hypnotic or anesthetic agent and method for their preparation." Ghada S. Hassan, Hussein I. El-Subbagh, Mohamed A. Al-Omar, Kamal E. H. El-Taher, Khalid A. Al-Rashood, Abdulrahman M. Al-Obaid, Adel S. Al-Azab, Alaa A.-M. Abdelaziz, Mohamed M. Hefnawy.
2. **European Patent EP 2 514 754 B1, Aug. 2013.** "6,7-dihydro-[1,3,4]thiadiazolo-[3,2-a][1,3]diazepin derivative and pharmaceutical composition containing the same as neuromuscular blocker or skeletal muscle relaxant, and method for the preparation." Adel S. Al-Azab, Hussein I. El-Subbagh, Khalid A. Al-Rashood, Kamal E. H. El-Taher, Mohamed A. Al-Omar, Ghada S. Hassan, Fatmah A. Al-Omary, Alaa A.-M. Abdelaziz, Mohamed A. Hefnawy.

3. **European Patent EP 2592085 A1, May. 2013.** Thiazolo[3,2-*a*][1,3]diazepine derivatives and pharmaceutical compositions containing the same as novel anticonvulsant agents and method for their preparation. Sara T. A. Al-Rashood, Hussein I. El-Subbagh, Ghada S. Hassan, Kamal E. H. El-Taher, Mohamed A. Al-Omar.

#### **AWARDS:**

1. "Dr. Waleed Kayali Prize for Scientific Research" Saudi Pharmaceutical Society, Riyadh, Saudi Arabia, 2008.
2. Honoring for Patency from “**Women’s Higher Education Symposium: Growth to Competition**”. January 11-13, Riyadh, KSA

#### **RESEARCH INTERESTS:**

1. The application of modern methods and techniques for the development of drugs. Computer assisted molecular design in combination with synthetic expertise in heterocyclic chemistry would be used to develop chemotherapeutic drugs to combat cancer and viral diseases.
2. The development of some of the biologically active antiviral (HIV, Hepatitis B and C), anticancer and antioxidant.

#### **PEER REVIEW:**

Regular reviewer in international highly cited journals in the field of pharmaceutical and Medicinal Chemistry:

- 1- European Journal of Medicinal Chemistry.
- 2- International Journal of Medicinal Chemistry.
- 3- Arabian Journal of Chemistry
- 4- Medicinal Chemistry Research.
- 5- Letters in Drug Design and Discovery.
- 6- The Chemical society of Ethiopea.
- 7- African Journal of Microbiology Research.

## FUNDED RESEARCH PROJECTS:

1. "Synthesis and Biological Evaluation of Certain New quinazoline and phenyldiazepine analogues as Antitumour Agents." Sara T. Alrashood, Ghada S. Hassan. Raced Projects, Deanship of Scientific Research, King Saud University, 2012, Riyadh, Saudi Arabia.

## LITERATURE CITATIONS:

### A) Publications:

1. Synthesis and antitumor testing of certain new Fused Triazolopyrimidine and Triazoloquinazoline derivatives. G.S.Hassan, M. A. El-Sherbeny, M.B. El-Ashmawy, S. M. Bayomi, A. R. Maarouf, F. A. Badria. *Arab. J. Chem. Accepted Manuscript, April 2013*.
2. Synthesis, biological evaluation and molecular modeling study of 2-(1,3,4-Thiadiazolyl-thio and 4-methyl-thiazolyl-thio)-quinazolin-4-ones as a new class of DHFR inhibitors. Sarah T. Al-Rashood, Ghada S. Hassan, Shahenda M. El-Messery, Mahmoud N. Nagi, El-Sayed E. Habib, Fatmah A. M. Al-Omary, and Hussein I. El-Subbagh. *Bioorg. & Med. Chem. lett.*, 2014, 24, 4557–4567.
3. Nonclassical antifolates, part 5. Benzodiazepine analogs as a new class of DHFR inhibitors: Synthesis, antitumor testing and molecular modeling study. Hussein I. El-Subbagh, Ghada S. Hassan, Shahenda M. El-Messery, Sarah T. Al-Rashood, Fatmah A.M. Al-Omary, Yasmin S. Abulfadl, Marwa I. Shabayek. *Eur. J. Med. Chem.*, 2014, 74, 234-245.
4. Synthesis and Antitumor Activity of Certain New Thiazolo[2,3-*b*]quinazoline and Thiazolo[3,2-*a*]pyrimidine Analogs. G.S. Hassan. *Med. Chem. Res.*, 2014, 23, 388-401.
5. Nonclassical antifolates, Part 4. 5-(2-Aminothiazol-4-yl)-4-phenyl-4*H*-1,2,4-triazole-3-thiols as a new class of DHFR inhibitors: Synthesis, biological evaluation and molecular modeling study. Ghada S. Hassan, Shahenda M. El-Messery, Fatmah A.M. Al-Omary, Sarah T. Al-Rashood, Marwa I. Shabayek, Yasmin S. Abulfadl, El-Sayed E. Habib, Salwa M. El-Hallouty, Walid Fayad, Khaled M. Mohamed, Bassem S. El-Menshawi, Hussein I. El-Subbagh. *Eur. J. Med. Chem.*, 2013, 66, 135-145.
6. Nonclassical-antifolates Part 3: Synthesis, biological evaluation and molecular modeling study of some new 2-heteroarylthio-quinazolin-4-ones. F.A.M. Al-Omary, G.S. Hassan, S.M. El-Messery, M.N. Nagi, E.-E. Habib, H.I. El-Subbagh.

*Eur. J. Med. Chem.*, 2013, 63, 33-45.

7. Novel 4(3H)-quinazolinone analogs: synthesis and anticonvulsant activity. A. S. El-Azab, S.G. Abdel-Hamide, M.M. Sayed-Ahmed, G.S. Hassan, T.M. El-Hadiyah, O.A. Al-Shabanah, O.A. Al-Deeb, H.I. El-Subbagh. *Med. Chem. Res.* 2013, 22(6), 2815-2827.
8. Substituted Thiazoles VII. Synthesis and Antitumor Activity of Certain 2-(Substitued amino)-4-Phenyl-Thiazole Analogues. G.S. Hassan, S.M. El-Messery, F.A.M. Al-Omary, H.I. El-Subbagh. *Bioorg. & Med. Chem. lett.*, 2012, 22, 6318–6323.
9. Substituted Thiazoles VI. Synthesis and Antitumor Activity of New 2-Acetamido- and 2 or 3-Propanamido-Thiazole Analogues. Shahenda M. El-Messery, Ghada S. Hassan, Fatmah A. M. Al-Omary, Hussein I. El-Subbagh. *Eur. J. Med. Chem.*, 2012, 54, 615-625.
10. Substituted Thiazoles V. Synthesis and Antitumor Activity of Novel Thiazolo[2,3-*b*]quinazoline and Pyrido[4,3-*d*]thiazolo[3,2-*a*]pyrimidine Analogues. F.A.M. Al-Omary, G.S. Hassan, S.M. El-Messery, H.I. El-Subbagh. *Eur. J. Med. Chem.*, 2012, 47, 65-72.
11. Synthesis and Anticonvulsant Activity of Some New Thiazolo[3,2-*a*][1,3]diazepine, Benzo[*d*]thiazolo[5,2-*a*][12,6]diazepine and Benzo[*d*]oxazolo[5,2-*a*][12,6]diazepine Analogues. H.I. El-Subbagh, G.S. Hassan, A.S. El-Azab, A.A.-M. Abdel-Aziz, A.A. Kadi, A.M. Al-Obaid, O.A. Al-Shabanah, M.M. Sayed-Ahmed. *Eur. J. Med. Chem.*, 2011, 46, 5567-5572.
12. Synthesis, Antimicrobial and Antiviral Testing of Some New 1-Adamantyl Analogues. Ghada S. Hassan, Ali A. El-Emam, Laila M. Gad, Alaa Eldin M. Barghash. *Saudi pharmaceutical Journal*, 2010, 18, 123-8.
13. Synthesis and biological evaluation of some polymethoxylated fused pyridine ring systems as antitumor agents. Sherif A. F. Rostom, Ghada S. Hassan, and Hussein I. El-Subbagh. *Arch. Pharm. Chem. Life Sci.*, 2009, 342, 584-90.
14. New ultra-short acting hypnotic: Synthesis, biological evaluation, and metabolic profile of ethyl-8-oxo-5,6,7,8-tetrahydro-thiazolo[3,2-*a*][1,3]diazepin-3-carboxylate (HIE 124). Hussein I. El-Subbagh, Hassan A. El-Kashef, Adnan A. Kadi, Alaa A.-M. Abdel-Aziz, Ghada S. Hassan, Justice Tettey, and Jochen Lehmann. *Bioorg. & Med. Chem. lett.*, 2008, 18, 72-7.

15. Synthesis, Ultra-short acting hypnotic activity, and metabolic profile of ethyl-8-oxo-5,6,7,8-tetrahydro-thiazolo[3,2-a][1,3]diazepin-3-carboxylate (HIE 124). Adnan A. Kadi, Hassan A. El-Kashef, Alaa A.-M. Abdel-Aziz, Ghada S. Hassan, Justice Tettey, Mary H. Grant, Jochen Lehmann, and Hussein I. El-Subbagh. *Arch. Pharm. Chem. Life Sci.*, 2008, 341, 81-9

#### **B) Book Chapters:**

1. G.S. Hassan “Menadione: Comprehensive Profile” a monograph in “Profiles of Drug Substances, Exipients and Related Methodology” series, H.G. Brittain, editor, Academic Press, Burlington. 2013, 38, 227-313.

#### **CONFERENCES:**

1. Nonclassical Antifolates, Part 3: Synthesis, Biological Evaluation and Molecular Modeling Study of Some New 2-Heteroarylthio-quinazolin-4-ones. Ghada S. Hassan, Shahenda M. El-Mesery, Fatmah A. Al-Omary, Mahmoud N. Nagi, El-Sayed E. Habib, Hussein I. El-Subbagh. **5<sup>th</sup> International Conference on Drug Discovery and Therapy**. Dubai, UAE, February 18-21, 2013.
2. Nonclassical Antifolates, Part 3: Synthesis, Biological Evaluation and Molecular Modeling Study of Some New 2-Heteroarylthio-quinazolin-4-ones. Hussein I. El-Subbagh, Ghada S. Hassan, Shahenda M. El-Mesery, Fatmah A. Al-Omary, Mahmoud N. Nagi, El-Sayed E. Habib. *Humboldt Kolleg*, German University in Cairo, Egypt, 28 Sept.-1 Oct. 2012.
3. **“The Saudi International Biotechnology Conference”**. King Abdulaziz City for Science and Technology (KACST). KACST Headquarters, Conference Hall, Riyadh, Saudi Arabia, September 18-19, 2012.
4. Substituted Thiazoles VI. Synthesis and Antitumor Activity of Certain 2-Substituted-aminothiazole analogues. Shahenda M. El-Messery, Ghada S. Hassan, Fatmah A. Al-Omary, Hussein I. El-Subbagh. *FUE International Conference on Pharmaceutical Technologies (ICPT)*, Intercontinental-City Star, Cairo, Egypt. February 6-9, 2012.
5. Synthesis and Anticonvulsant Activity of Some New Thiazolo[3,2-a][1,3]diazepine, Benzo[d]thiazolo[5,2-a][12,6]diazepine, Benzo[d]oxazolo[5,2-a][12,6]diazepine Analogues. Hussein I. El-Subbagh, Ghada S. Hassan, Adel S. Al-Azab, Alaa A.-M. Abdel-Aziz, Abdulrahman M. Al-Obaid, Othman A. Al-Shabanah, and Mohamed M. Sayed-Ahmed. *FUE International Conference on Pharmaceutical Technologies (ICPT)*, Intercontinental-City Star, Cairo, Egypt. February 6-9, 2012.

6. Synthesis and Biological Evaluation of Some New Thiazolodiazepine Analogues as CNS Active Agents. Sarah T. A. Al-Rashood, Ghada S. Hassan, Kamal E. H. El-Taher, Hussein I. El-Subbagh. *FUE International Conference on Pharmaceutical Technologies (ICPT)*, Intercontinental-City Star, Cairo, Egypt. February 6-9, 2012.
7. Recent Development on the Ultra-Short Acting Hypnotic Activity of Analogues Derived from Ethyl 8-oxo-5,6,7,8-tetrahydro-thiazolo[3,2-a][1,3]diazepin-3-carboxylate (HIE-124). Hussein I. El-Subbagh, Ghada S. Hassan, Kamal E. H. El-Taher, Adel S. Al-Azab, Alaa A.-M. Abdel-Aziz, Khalid A. Al-Rashood, Mohamed M. Hefnawy. *FUE International Conference on Pharmaceutical Technologies (ICPT)*, Intercontinental-City Star, Cairo, Egypt. February 6-9, 2012.
8. Synthesis and Biological Evaluation of Certain New Thiazolopyrimidine and Thiazoloquinazoline Analogues as Antitumour Agents. Fatmah A. Al-Omary, Ghada S. Hassan, Shahenda M. El-Messery, Hussein I. El-Subbagh. *FUE International Conference on Pharmaceutical Technologies (ICPT)*, Intercontinental-City Star, Cairo, Egypt. February 6-9, 2012.
9. Synthesis and Biological Evaluation of New Thiazole Derivatives as CNS Active Agents. Hazem A. Ghabbour, Adnan A. Kadi, Ghada S. Hassan, Kamal E. H. El-Taher, Hussein I. El-Subbagh. *FUE International Conference on Pharmaceutical Technologies (ICPT)*, Intercontinental-City Star, Cairo, Egypt. February 6-9, 2012.
10. "**Evidence-Based Pharmacotherapy Symposium**", Saudi Pharmaceutical Society, Madareem Crown Hotel, Riyadh, Saudi Arabia. December 21, 2011.
11. Substituted Thiazoles V. Synthesis and Antitumor Activity of Novel Thiazolo[2,3-*b*]quinazoline and Pyrido[4,3-*d*]thiazolo[3,2-*a*]pyrimidine Analogues. F.A.M. Al-Omary, G.S. Hassan, S.M. El-Messery, H.I. El-Subbagh. *The 4<sup>th</sup> International Chemistry Conference*, Madareem Crown Hotel, Riyadh, Saudi Arabia. November 19-21, 2011.
12. *The 8<sup>th</sup> Saudi International Pharmaceutical Conference*, Al-Faisaliah Hotel, Riyadh, Saudi Arabia. April 26-28, 2010.



## WORKSHOP ATTENDANCE

1. **“Rubric System for Students Assessment”**, Training Course, March 4-5, 2013, KSU, Riyadh, Saudi Arabia.
2. **“Feedback as a tool for better Learning”**, Training Course, February 19, 2013, KSU, Riyadh, Saudi Arabia.
3. **“GC/MS management and data interpretation”**, Training Course, August 1-3, 2011, Faculty of Science, Mansoura University, Egypt.
4. **“Application of the academic standards in the educational program”** Training course, July 26-28, 2011, Mansoura University, Egypt.
5. **“Administrative Management”** Training course, July 16-18 2011, Mansoura University, Egypt.
6. **“Credit Hours System”** Training course, July 9-11 2011, Mansoura University, Egypt.
7. **“Improvement of communications skills”** 6 / 11 / 1432, KSU, Riyadh, Saudi Arabia.
8. **“Improvement and quality assurance week events”** 27 / 3 / 1432, KSU, Riyadh, Saudi Arabia.
9. **“Influence and persuading skills”** Training course, November 27-29, 2010, KSU, Riyadh, Saudi Arabia.
10. **“Learning Management system”** Training course, November 8-9, 1431, KSU, Riyadh, Saudi Arabia.
11. **“Nuclear Magnetic Resonance (NMR) Spectral Interpretations”**, Training Course. College of Pharmacy, University of Mansoura, Mansoura, Egypt. August 30, 2010.
12. **“Nuclear Magnetic Resonance (NMR) For Pharmacists”**, *The 8<sup>th</sup> Saudi International Pharmaceutical Conference*, Al-Faisaliah Hotel, Riyadh, Saudi Arabia. April 26-28, 2010.

13. **“The effective teaching skills”** Training course, March 27-29, 2010, KSU, Riyadh, Saudi Arabia.
14. **“Course Design and Construction”** Training course, Academic year 1430-1431, KSU, KSU, Riyadh, Saudi Arabia.
15. **“Micro-Teaching”** Training course, Academic year 1430-1431, KSU, KSU, Riyadh, Saudi Arabia.
16. **“Learning outcomes assessment”** Training course, Academic year 1430-1431, KSU, KSU, Riyadh, Saudi Arabia.
17. **“The effective use of smart classrooms”** workshop October 14, 2009, KSU, Riyadh, Saudi Arabia.
18. **“The usage of the electronic gate for staff members”** workshop 10/6/1430, at KSU, Riyadh, Saudi Arabia.
19. **“The academic accreditation and its applications in Higher education Institution.”** workshop 1, 2/ 6/1430, at KSU, Riyadh, Saudi Arabia.
20. **“Research Trends in Pharmaceutical Chemistry”**. Drug Exploration and Development Chair (DEDC), Marriot Hotel, Riyadh, Saudi Arabia. April 13, 2009
21. **“The instruction of staff electronic sites”** workshop 4-5/ 4/ 1430, at KSU, Riyadh, Saudi Arabia.
22. **“The Halif program”** workshop 17/6/1430, at KSU, Riyadh, Saudi Arabia.
23. **“The third foundation program for: creation and preparation of new faculty members”** October 18-19, 2009, KSU, Riyadh, Saudi Arabia.
24. **“The evaluation of the Performance of Students Skills”** Training course, November 9-11, 2009, KSU, Riyadh, Saudi Arabia.
25. **“The teaching course portfolio”** Training course, December 14-15, 2009, KSU, Riyadh, Saudi Arabia.
26. **“Private Groups – Reasons and Cure”** Workshop, October 15, 2008, Faculty of Pharmacy, Mansoura University, Egypt.
27. **“Development of Pharmacists Career”** Workshop, October 13, 2008, Faculty of Pharmacy, Mansoura University, Egypt.

28. **“Credit Hours”** Workshop, May 28, 2008, Faculty of Pharmacy, Mansoura University, Egypt.
29. **“Environmnetal and Climate Changes”** Workshop, April 24, 2008, Faculty of Pharmacy, Mansoura University, Egypt.
30. **“Electronic Exams”** Workshop, April 2, 2008, Faculty of Pharmacy, Mansoura University, Egypt.
31. **“Research team coordination”** Training course, November 18-20, 2007. Mansoura University, Egypt.
32. **“Scientific research techniques”** Training course, August 21-24, 2005. Mansoura University, Egypt.
33. **“Effective demonstration Skills”** Training course, July 31- August 3, 2005. Mansoura University, Egypt.
34. **“Effective Teachning”** Training course, July 2-7, 2005. Mansoura University, Egypt.
35. **“Profession Ethics”** Training course, May 22-24, 2005. Mansoura University, Egypt.
36. **“Thinking Skills”** Training course, May 8-11, 2005. Mansoura University, Egypt.
37. **“Effective Communication Skills”** Training course, April 30- May 5, 2005. Mansoura University, Egypt.

#### **ACTIVITIES RELATED TO COMMUNITY SERVICES**

- 1- Member in the organization committee of Student Graduation Ceremony 2006-2007, September 2007, Faculty of Pharmacy, Mansoura University, Egypt.
- 2- Lecture on “Chemistry in Our Lives”, February 2013, Faculty of Pharmacy, King Saud University, KSA.

#### **OTHER ACTIVITIES**

- 1- Sharing in stating the "Mission and Vision of the Faculty of Pharmacy" as an activity of the CIQAP project, Faculty of Pharmacy, Mansoura University. (2006-2009)

- 2- Contribution in preparation of the course specification and course reports of the master degree courses of pharmaceutical sciences offered by the department of Medicinal Chemistry, Faculty of Pharmacy, Mansoura University. (2006-2009)
  - 3- Member of the scientific research committee, Faculty of Pharmacy, Mansoura University. (2007-2009)
  - 4- Chairman of the committee of quality assurance in the department of Pharmaceutical Chemistry. College of Pharmacy, King Saud University, Saudi Arabia.
  - 5- Member of the committee of Annual report and Student Schedules in the pharmaceutical Chemistry Department, College of Pharmacy, King Saud University, Saudi Arabia.
  - 6- Member of the Faculty committee of quality assurance College of Pharmacy, King Saud University, Saudi Arabia.
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