

أ.د. نوال بنت مسيب المسيب

عنوان جامعة الملك سعود ، الرياض 11451

رقم الهاتف 0118063547

البريد الإلكتروني nalmusayeib@ksu.edu.sa

التعليم والمؤهلات

(2007) م) جامعة الملك سعود، المملكة العربية السعودية، الرياض

(1999) م) جامعة الملك سعود، المملكة العربية السعودية، الرياض

(1992) م) جامعة الملك سعود، المملكة العربية السعودية، الرياض

(2010) م) المؤسسة الأوروبية لإدارة الجودة

(2016) م) جامعة الملك سعود، المملكة العربية السعودية، الرياض

Alison online courses (2022)

دكتوراة الفلسفة في العقاقير

ماجستير العلوم في الصيدلة تخصص عقاقير

بكالوريوس في العلوم الصيدلية مع مرتبة الشرف الثانية

دبلوم مقيم من (FQM Excellence Assessor)

مدقق داخلي معتمد

دبلوم متقدم في تدريب المدربين

الخبرات الوظيفية

· سفير جودة مستشار - الاستراتيجية الوطنية للجودة (2021م)

· مدرب لإعداد المراجعين الداخليين المعتمدين في جامعة الملك سعود (من 2021م)

· مدرب للعديد من مفاهيم الجودة - عمادة التطوير والجودة (من 2021م)

· مستشار عمادة التطوير والجودة في جامعة الملك سعود (من 2021م)

· مدرب مساعد في إعداد المراجعين المعتمدين في جامعة الملك سعود (2018-2020م)

· مدقق داخلي معتمد وعضو مجلس المقومين في جامعة الملك سعود (من 2016م)

· وكيلة كلية الصيدلة (2008-2010م)

· بروفيسور في علم العقاقير-كلية الصيدلة-جامعة الملك سعود من عام 2017م

· مستشار نظير ومشرف في مهارات التدريس الجامعي من عام 1433

· منسق لعمادة تطوير المهارات في الدورات الخارجية الصيفية (2014-2015)

· رئيسة وحدة الدراسات العليا في كلية الصيدلة في الفترة (1438-1432)

· منسقة عمادة تطوير المهارات في كلية الصيدلة في الفترة (1436-1433)

· أول ممثلة للمملكة في لجنة التحكيم الدولية في معرض انتل الدولي للعلوم والهندسة

2008-اتلانتا جورجيا الولايات المتحدة الأمريكية.

دورات وبرامج تدريبيه قدمتها

ما يقارب من 250 ساعه تدريبيه في مجال الجودة تناولت المواضيع التالية

· تقييم المخرجات التعليمية للبرامج والمقررات

· معايير الاعتماد البرامجي المطور

· برنامج اعداد المراجعين الداخليين - ثلاث مستويات

· معايير الاعتماد البرامجي المطور

· التدريس المصغر واستشارة النظارء

TEACHING EXPERIENCES

Natural products chemistry, Isolation and Identification of constituents using different spectroscopic techniques. Biological investigation of crude extracts and pure constituents

I. Undergraduate courses

Antibiotics: This course deals with the study of antibiotics and naturally occurring antineoplastic agents. Thus, members of the different classes of antibiotics are covered with respect to their origin, chemistry, structure-activity relationship, mechanism of action, antimicrobial spectrum, toxicity, clinical indications, contraindications and assay procedures.

Screening, Separation & Analysis of Plant Constituent:

Biotechnological Production of Drugs:

Vitamins, Minerals and Hormones:

Pharmacognosy-1:

Pharmacognosy (PHG 431): Evaluate natural product in the crude form, in the form of pharmaceutical preparations, and in biological fluids using different specific procedures. Study the current regulations of the ministry of health, SFDA and WHO guidelines concerning these products.

II. Postgraduate courses

Computer Applications in the Study of Natural Products

Research Methodologies

Structure Elucidation of Natural Products

Advanced Separation Techniques: Provided an overall picture of the most recent methods used for separation and purification of natural products including advanced chromatographic and Non-chromatographic techniques.

Selected topics in natural products chemistry: Provided up-to-date knowledge of various areas of growing interest within natural products and medicinal plant research

Reagents in Natural Products Chemistry: Provided chemistry background for the study of the structure elucidation of natural products. Studying the uses, mechanistic aspects, and classification of the principal chemical reagents used in studying the chemistry of natural products.

Special Problems in Pharmacognosy

Pharmacognosy Seminar

TRAINING PROGRAMS ATTENDED

A. External Undertaken Training Courses

- | | |
|-------------------------------------------------------------------------------|------------------------------------------------------------|
| . Managing Quality: An International Perspective for Progressive Universities | University of Wales Institute, Cardiff, 19th-30th/ 7/ 2010 |
| . KSU Staff Development Programme | Queen Margaret University, Edinburgh, 18-28 June 2012 |
| . Teaching and assessment course | University of Dundee, Scotland, UK, 4-8/july/ 2011 |
| . Teaching for Higher Education | University College London, UK, 6-17/7/2009 |

B. Internal Undertaken Training Courses

1- Quality and Strategic Planning

- | | |
|----------------------------------------------------------------------------|------------------------------------------|
| . Strategic Planning Skills | KSU, Riyadh, 10-12/12/2011 |
| . Evaluation and Quality Assurance | KSU, Riyadh, 11/11/2007 |
| . Learning Quality Assurance & Accreditation | KSU, Riyadh, 27-28/11/2010 |
| . Audit, Assessment and Assurance of Quality Management using the KSU- QMS | KSU, Riyadh, Pharmacy College, 8/11/2010 |
| . Journey Towards Excellence | KSU, EFQM, 24-26/4/2010 |
| . Quality and Development in Science College | KSU, Riyadh, 13/6/2009 |
| . ISO 9001: 2000 Quality Internal Auditor Course | KSU, Riyadh, 19-20/7/2008 |

2- Leadership

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|-----------------------------------------|----------------------------------|
| . New Insight for Innovative Leadership | KSU, Riyadh (10 hrs), 1-2/4/2013 |
| . Academic Leadership | KSU, Riyadh, 7-8/11/2009 |
| . Leading In Academic Setting | KSU, Riyadh, 15/3/2008 |

3- Research

- | | |
|------------------------------------------------------------|---------------------------------------------------|
| . Planning and managing the quality of research activities | NCAA & British Council, KSU, Jeddah, ,8-9/12/2013 |
| . Discipline Based Teaching and Pedagogic Research | KSU, Riyadh, 22/04/2012 |
| . Successful Strategy in Writing Research Proposal | KACST, Riyadh 30-31/10/2010 |

. Models for Success in Managing National Research Resources	KACST, KSU, Riyadh, 31/10- 1/11/2009
. Center of Excellence in Biodiversity Research	KACST,KSU, Riyadh,13/01/2008
4- Teaching and Learning	
. Essentials for Effective Peer Review of Teaching	KSU, Riyadh,(15 hrs), 2013-2014
. Ethics of university teaching profession	KSU, Riyadh, 30/10/2013
. Professional teaching competencies in HE	KSU, Riyadh, 15/4/2012
. Designing Effective Continuing Professional Development	KSU, Riyadh, 19/4/2011
. Reviewing and Developing your Teaching	KSU, Riyadh, 2-3/12/2008
. Effective Presentation Skills	KSU, Riyadh, 25-26/10/2010
. Evidence based learning	KSU, Riyadh, 23/12/2013
. Improving Undergraduate Education Through Experimental Approaches to Teaching and Learning.	Ministry of higher education, academic leadership center. Riyadh , 5-6, May,2013
. Students Learning Support	KSU, Riyadh, 21/5/2012
. Developing a teaching portofolio	KSU, Riyadh 11/4/2012
. Using technology in College teaching	KSU, Riyadh, 14-16/04/2012
. Feedback as a tool for better learning	KSU, Riyadh 11/3/2012
. Learning Theories	KSU, Riyadh, 10/3/2012
. Safe and Comfortable Learning Context	KSU, Riyadh, 10/03/2012
. Effective teaching	KSU, Riyadh, 28-29/02/2012
. Blended learning application in black board	KSU, Riyadh, 22-23/11/2011
. Course Design and Construction	KSU, Riyadh, 25-26/9/2011
. Improving Students critical Thinking Skills	KSU, Riyadh, 16/10/1432, 14/9/2011
. Using testing, grading and feedback to enhance student learning	KSU, Riyadh, 13/9/2011
. Cooperative Learning	KSU, Riyadh, 13-15/03/2011
. Creative Thinking Skills	KSU, Riyadh, 11-1/12/2010
. Learning Based Brainstorming	KSU, Riyadh 12-13/10/2010
. Intelligence For Multiple Developing Creative Thinking	KSU, Riyadh, 30- 31/10/2010
. Motivating Students to become Better Learners	KSU, Riyadhl11-12/5/2010
. Integration of Thinking Skills in the Curriculum	KSU, Riyadhl, 12- 14/4/2010
. Constructing of Collective Tests	KSU, Riyadhl, 11-12/4/2009
. Motivating Students to Learn	KSU, Riyadhl, 13-14/1/2009
. Active Learning,	KSU, Riyadhl, 10-11/1/2009
. Planning for Effective Teaching	KSU, Riyadhl ,19-21/4/2008
. Development of Knowledge in the Domain of Specialization	KSU, Riyadhl,17- 20/2/2008
. The Basics of Forming Tests and Methods of Interpreting them	KSU, Riyadhl, 19-20/4/2007
. Program of Orientation Seminar for New Faculty	KSU, Riyadhl, 28- 30,11, 2007
. Free/Open Source software technologies	KACST, Riyadhl, 1-3/5/2011
. Learning management system	KSU, Riyadhl, 5-6/3/2011
. Learning Management System	National Center For E-Learning and Distance Learning, Riyadhl, , 23-25/10/2010
. Designing an interactive lecture using COURSE LAB	National Center For E- Learning and Distance Learning, Riyadhl, 18-20/10/2010

. Use of Information & Communication Technology in
Academic Teaching

KSU, Riyadh, 2-4/6/2008

Others

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|-----------------------------------------------------------------------------------------|-----------------------------------------------------------------|
| . Work Stress Management | KSU, Riyadh, 25/2/2014 |
| . Meeting Management Skills | KSU, Riyadh, 10-11/11/2009 |
| . Time Management Skills | KSU, Riyadh, 27-28/12/2008 |
| . Development of Communication Skills for Dialogue, | King Abdulaziz Center for National Dialogue, KSU,
31/5/2008. |
| . Self –Development | KSU, Riyadh, 3-6/5/2008. |
| . Electronic Transaction in the Government Agencies in KSA;
Reality and Expectations | Institute of Public Administration, Riyadh,
25/11/2007 |

المؤلفات والنشر

Nawal M. Al Musayeib, Musarat Amina, Farah Maqsood Terpenes: **A Source of Novel Antimicrobials, Applications and Recent Advances**. DOI:10.1201/9781003243700-14, In book: Eco-Friendly Biobased Products Used in Microbial Diseases (pp.247-270), March 2022.

Musarat Amina and **Nawal M. Al Musayeib**. **Biological and Medicinal Importance of Sponge**. Intechopen Chapter 10 (2018).

Farouk S. El-Ferally, **Nawal M. Al-Musayeib**, Iyad S. Eqtefan, **Fundamentals of Antibiotics; Discovery, Chemistry, Biology and Indications; 2009 (BOOK)**.

Research Article

Muhammad Furqan, Alishba Fayyaz, Farhat Firdous, Hadeeqa Raza, Aishah Bilal, Rahman Shah Zaib Saleem, Syed Shahzad-ul-Hussan, Daijie Wang, Fadia S. Youssef, **Nawal M. Al Musayeib**, Mohamed L. Ashour, Hidayat Hussain, and Amir Faisal. **Identification and Characterization of Natural and emisynthetic Quinones as Aurora Kinase Inhibitors**. Journal of Natural Products, **2022**, 85, 6, 1503–1513

Amel Bouzabata, Paola Montoro, Katarzyna Angelika Gil, Sonia Piacente, Fadia S. Youssef, **Nawal M. Al Musayeib**, Geoffrey A. Cordell, Mohamed L. Ashour, and Carlo Ignazio Giovanni Tuberoso. **HR-LC-ESI-Orbitrap-MS-Based Metabolic Profiling Coupled with Chemometrics for the Discrimination of Different Echinops spinosus Organs and Evaluation of Their Antioxidant Activity**. Antioxidants **2022**, 11, 453.

Noha Khalil, Haidy A. Gad, **Nawal M. Al Musayeib**, Mokhtar Bishr and Mohamed L. Ashour. **Correlation of Glucosinolates and Volatile Constituents of Six Brassicaceae Seeds with Their Antioxidant Activities Based on Partial Least Squares Regression**. Plants **2022**, 11, 1116.

Haidy A. Gad, Elbek A. Mukhammadiev, Gokhan Zengen, **Nawal M. Al Musayeib**, Hidayat Hussain, Ismail Bin Ware, Mohamed L. Ashour, and Nilufar Z. Mamadalieva. **Chemometric Analysis Based on GC-MS Chemical Profiles of Three Stachys Species from Uzbekistan and Their Biological Activity**. Plants **2022**, 11, 1215

Sana Razhan M. Alsubaiei, Hanan A. Alfawaz, Musarat Amina, **Nawal M. Al Musayeib**, Afaf El-Ansary, Syed Rizwan Ahamad, Omar M. Noman, and Jaber A. Maini. **Comparative Chemical Profiling and Biological Potential of Essential Oils of Petal, Choke, and Heart Parts of Cynara scolymus L. Head**. Journal of Chemistry Volume **2022**, Article ID 2355004, 16 pages.

Gadah A. Al-Hamoud, Omer I. Fantoukh, Musarat Amina, Fahd A. Nasr, **Nawal M. Al Musayeib**, Mohammad Z. Ahmed, Omar M. Noman, Reem E. Al-Sharidah, Fawaz Alasmari and Ali S. Alqahtani. **Unprecedented Insights on Chemical and Biological Significance of Euphorbia cactus Growing in Saudi Arabia**. Plants **2022**, 11, 681.

Gadah A. Al-Hamoud, Nawal M. Al-Musayeib, Musarat Amina, Sabrin R.M. Ibrahim. **Abubidentin A, New Oleane-type Triterpene Ester from Abutilon bidentatum and its antioxidant, cholinesterase and antimicrobial activities**. (2022), PeerJ, DOI 10.7717/peerj.13040

Musarat Amina, **Nawal M Al Musayeib**, Nawal A Alarfaj, Maha F El-Tohamy, Gadah A Al-Hamoud, Munerah K M Alqenaei. **The Fluorescence Detection of Phenolic Compounds in Plicosepalus curviflorus Extract Using Biosynthesized ZnO Nanoparticles and Their Biomedical Potential**. Plants (Basel) . **2022** Jan 28;11(3):361.

Musarat Amina, Nawal M. Al Musayeib , Nawal A. Alarfaj, Maha F. El-Tohamy. Immunomodulatory and Antioxidant Potential of Biogenic Functionalized Polymeric Nutmeg Oil/Polyurethane/ZnO Bionanocomposite. Pharmaceutics. 2021 Dec; 13(12): 2197.	9
Nawal A. Alarfaj, Musarat Amina, Nawal M. Al Musayeib , Maha F. El-Tohamy and Gada A. Al-Hamoud. Immunomodulatory and Antiprotozoal Potential of Fabricated Sesamum radiatum Oil/Polyvinylpyrrolidone/Au Polymeric Bionanocomposite Film. Polymers 2021 , 13(24), 4321	10
Abeer Al-Dbass, Musarat Amina, Nawal M. Al Musayeib , Amira A. El-Ansary, Ramesa Shafi Bhat, Rania Fahmy, Majd M. Alhamdan, Afaf El-Ansary. Lepidium sativum as candidate against excitotoxicity in retinal ganglion cells. Translational Neuroscience 2021 ; 12: 1–13	11
Abeer Aldbass, Musarat Amina, Nawal M. Al Musayeib , Ramesa Shafi Bhat, Sara Al-Rashed, Najat Marraiki, Rania Fahmy & Afaf El-Ansary. Cytotoxic and anti-excitotoxic effects of selected plant and algal extracts using COMET and cell viability assays. Scientific Reports (2021) 11:8512	12
Musarat Amina, Ramesa Shafi Bhat, Abeer M. Al-Dbass, Nawal M. Musayeib , Rania Fahmy, Leen Alhadlaq and Afaf El-Ansary. The protective effect of Moringa oleifera plant extract against glutamate-induced DNA damage and reduced cell viability in a primary retinal ganglion cell line. (2021), PeerJ, DOI 10.7717/peerj.11569	13
Nilufar Z. Mamadalieva, Fadia S. Youssef, Hidayat Hussain, Gokhan Zengin, Adriano Mollica, Nawal M. Al Musayeib , Mohamed L. Ashour, Bernhard Westermann and Ludger A. Wessjohann. Validation of the Antioxidant and Enzyme Inhibitory Potential of Selected Triterpenes Using In Vitro and In Silico Studies, and the Evaluation of Their ADMET Properties. Molecules 2021 , 26(21), 6331	14
Fadia S. Youssef , Elisa Ovidi, Nawal M. Al Musayeib and Mohamed L. Ashour. Morphology, Anatomy and Secondary Metabolites Investigations of Premna odorata Blanco and Evaluation of Its Anti-Tuberculosis Activity Using In Vitro and In Silico Studies. Plants 2021 , 10, 1953	15
Dilafruz N. Jamalova, Haidy A. Gad, Davlat K. Akramov, Komiljon S. Tojibaev, Nawal M. Al Musayeib , Mohamed L. Ashour, and Nilufar Z. Mamadalieva. Discrimination of the Essential Oils Obtained from Four Apiaceae Species Using Multivariate Analysis Based on the Chemical Compositions and Their Biological Activity. Plants 2021 , 10, 1529	16
Musarat Amina, Nawal M. Al Musayeib, Nawal A. Alarfaj, Maha F. El-Tohamy, and Gada A. Al-Hamoud. Antibacterial and Anticancer Potentials of Presynthesized Photosensitive Plectranthus cylindraceus Oil/TiO2/Polyethylene Glycol Polymeric Bionanocomposite. Bioinorganic Chemistry and Applications Volume 2021 , Article ID 5562206, 20 pages	17
M. Amina, N.M. Al Musayeib , G.A. Al-Hamoud, A. Al-Dbass, A. El-Ansary, M.A. Ali. Prospective of biosynthesized L.satiVum oil/PEG/Ag-MgO bionanocomposite film for its antibacterial and anticancer potential. Saudi Journal of Biological Sciences 28 (2021) 5971–5985	18
Musarat Amina, Nawal M Al Musayeib , Nawal A Alarfaj, Maha F El-Tohamy and Gada A Al-Hamoud. Facile multifunctional-mode of fabricated biocompatible human serum albumin/reduced graphene oxide/Cladophora glomerata nanoparticles for bacteriostatic phototherapy, bacterial tracking and antioxidant potential. Nanotechnology 32 (2021) 315301	19
Haidy A. Gad, Nilufar Z. Mamadalieva, Stefan Böhmdorfer, Thomas Rosenau, Gokhan Zengin, Rano Z. Mamadalieva, Nawal M. Al Musayeib , and Mohamed L. Ashour. GC-MS Based Identification of the Volatile Components	20
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- Gadah Abdulaziz Al-Hamoud, Raha Saud Orfali, Yoshio Takeda, Sachiko Sugimoto, Yoshi Yamano, **Nawal M. Al Musayeib, et al.** **Lasianosides F-I: A New Iridoid and Three New Bis-Iridoid Glycosides from the Leaves of Lasianthus verticillatus (Lour.) Merr.** MOLECULES **2020**, 25(12). 24
- Nawal A. Alarfaj, Musarat Amina, **Nawal M. Al Musayeib**, Maha F. El-Tohamy, Hesham F. Oraby, Sarah I. Bukhari & Nadine M. S. Moubayed. **Prospective of Green Synthesized Oleum cumini Oil/PVP/MgO Bionanocomposite Film for Its Antimicrobial, Antioxidant and Anticancer Applications.** Journal of Polymers and the Environment <https://doi.org/10.1007/s10924-020-01755-2> 25
- Nawal M. Al Musayeib**, Musarat Amina, et al. **Plectrabarbene, a New Abietane Diterpene from Plectranthus barbatus Aerial Parts.** MOLECULES **2020**, 25(10) 26
- Nawal A. Alarfaj, Musarat Amina, **Nawal M. Al Musayeib, et al.** **Prospective of Green Synthesized Oleum cumini Oil/PVP/MgO Bionanocomposite Film for Its Antimicrobial, Antioxidant and Anticancer Applications.** JOURNAL OF POLYMERS AND THE ENVIRONMENT DOI: 10.1007/s10924-020-01755-2 Early Access Date: MAY 2020. 27
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- Musarat Amina , **Nawal M. Al Musayeib , et al.** **Exploiting the Potential of Moringa oleifera Oil/Polyvinyl Chloride Polymeric Bionanocomposite Film Enriched with Silver Nanoparticles for Antimicrobial Activity.** International Journal of Polymer Science Volume **2019**, <https://doi.org/10.1155/2019/5678149> 29
- Abigail J Manning, Eamon J Mahdi, Andrea GS Pepper, Chris Pepper, **Nawal M Al-Musayeib, et al.** Hydroxybenzoate magnesium analogues induced apoptosis in HT-1080 human fibrosarcoma cells. Clinical Sciences Research and Reports. **2019**, 2: 1-3. 30
- Naglaa S. Ashmawy, Haidy A. Gad, **Nawal Al-Musayeib et al.** Phytoconstituents from Polyscias guilfoylei leaves histamine-release inhibition activity. Z. Naturforsch. **2019**. 31
- Mohd. Sajid Ali, Musarat Amina, Hamad A. Al-Lohedan, **Nawal M. Al Musayeib.** Human serum albumin binding to the biologically active labdane diterpene “leoheterin”: Spectroscopic and in silico analysis. Journal of Photochemistry & Photobiology, B: Biology **2018**, 182: 9–17. 32
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- Musarat Amina, **Nawal M. Al-Musayeib, et al.** Cytotoxic evaluation and concurrent analysis of two diterpenes in the chloroform extract of Plectranthus barbatus using a validated HPTLC-UV method. Bull. Chem. Soc. Ethiop. **2018**, 32(3), 407-419. 34
- Musarat Amina, **Nawal M. Al Musayeib,et al.** Barbaterpene and Barbatosterol, New Constituents from Plectranthus barbatus Growing in Saudi Arabia. Letters in Drug Design & Discovery, **2018**, 15, 1-6. 35
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- Ke Shang, Touseef Amna, Musarat Amina, **Nawal M Al-Musayeib,et al.** Influence of Capsaicin on Inflammatory Cytokines Induced by Lipopolysaccharide in Myoblast Cells Under In vitro Environment. Pharmacognosy Magazine **2017**, 13 (49) S26-S32. 38
- Musarat Amina, Perwez Alam, Mohammad K. Parvez, **Nawal M. Al-Musayeib, et al.** Isolation and validated HPTLC analysis of four cytotoxic compounds, including a new sesquiterpene from aerial parts of Plectranthus Cylindraceus. Natural Product Research, **2018**. 39

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Dina A Albadawi, Ramzi A Mothana, Jamal M Khaled, Abdelkhader E Ashour, Ashok Kumar, Sheikh F Ahmad, Mansour S Al-Said, Adnan J Al-Rehaily, Nawal M Almusayeib. Antimicrobial, anticancer, and antioxidant compounds from Premna resinosa growing in Saudi Arabia. Pharm Biol. 2017 Dec;55(1):1759-1766	46
Musarat Amina, Touseef Amna, Mallick Shamshi Hassan, Nawal Musayeib Al Musayeib,et al . Low temperature synthesis of Manganese tungstate nanoflowers with antibacterial potential: Future material for water purification. Korean J. Chem. Eng. 2016 .	47
Musarat Amina, Mohd Sajid Ali, Nawal M. Al-Musayeib, et al . Biophysical characterization of the interaction of bovine serum albumin with anticancer sipholane triterpenoid from the Red Sea sponge. Journal of Molecular Liquids 2016 , 220:931–938.	48
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