

Shimaa Hassan Eissa, Ph.D.

Assistant professor of research (January 2016-present)

College of Science and General Studies
Department of Chemistry, Alfaisal University
Riyadh, Kingdom of Saudi Arabia

Office Phone: +966-1-215-8987
E-mails: seissa@alfaisal.edu
shimaaeissa@yahoo.com

EDUCATION

- **Ph.D.** in Material Science, **INRS-EMT, Canada** **2015**
Université du Québec, Institut national de la recherche scientifique – Énergie, Matériaux et Télécommunications (INRS-EMT), Canada
- **M. Sc.** in Analytical Chemistry **2010**
- **Diploma** in Biochemistry **2005**
- **B. Sc.** in Chemistry **2004**
Chemistry Dept., Faculty of Science, Damietta, Mansoura University, Egypt.

PROFESSIONAL EXPERIENCE

- **Assistant Professor of Research** **2016-present**
 - College of Science and General Studies, Alfaisal University, KSA
- **Visiting fellow** **July 7th 2017-August 5th 2017**
 - UQAM, Quebec, Canada
- **Visiting fellow** **2013-2015**
 - UQAM, Quebec, Canada
- **Research assistant** **2011-2015**
INRS-EMT, Canada
- **Research and teaching assistant** in Analytical Chemistry **2006- 2010**
 - Faculty of Science, Damietta, Mansoura University, Egypt.

AWARDS & HONORS

- **Alfaisal University Award for Research Excellence** **2018**
- **Alfaisal University patent award** **2018**
- **Alfaisal University appreciation award for winning L'Oréal-UNESCO fellowship** **2017**
- **Clinical research online training course certificate** **2017**
National Institute of Health (NIH), USA
- **L'Oréal-UNESCO "For Women In Science"-Middle East fellowship award** **2016**
L'Oréal-UNESCO foundations (Paris, France), recognizing "*outstanding four women scientists in Middle East region for their contributions across different disciplines of science*"
<http://www.zu.ac.ae/main/en/news/2016/October/oreall16.aspx>
<https://www.youtube.com/watch?v=vVK0-rsF0rM>
<https://www.youtube.com/watch?v=cHAUhSZJ85g>
<http://m.khaleejtimes.com/nation/general/these-four-arab-female-scientists-want-to-inspire-the-next-generation>
<http://www.alittihad.ae/details.php?id=51674&y=2016>

<https://assets.entrepreneur.com/magazine/2016-12-entrepreneur-al-arabiya.pdf>

- **Travel award: Graphene and Beyond-2D Materials symposium** 2015
B06 symposium organizer, ECS meeting, USA
- **Travel award for 227th ECS Meeting** 2015
ECS–The Electrochemical Society, Pennington, NJ, USA
- **Travel award for 98th CSC conference** 2015
Université du Québec à Montréal, Canada
- **International fees exemption scholarship** 2011-2014
University of Quebec- INRS-EMT, Canada
- **Ph.D. scholarship** INRS-EMT, Quebec, Canada 2011-2014
- **Travel award** 2010-2012
The NSERC-CREATE Training Program ISS, Canada
- **Master degree scholarship** Mansoura University, Egypt 2005-2010

PROFESSIONAL AFFILIATIONS

- Member, Canadian Society of Chemistry (CSC)
- Member, American Chemical Society (ACS)
- Member, Electrochemical Society (ECS)
- Member, Centre québécois sur les matériaux fonctionnels (CQMF)

SUBMITTED MANUSCRIPTS

- 1- **Shimaa Eissa**, Jeanne N'diaye, Patrick Brisebois, Ricardo Izquierdo, Ana C. Tavares, Mohamed Sijaj, Probing the Influence of Graphene Oxide Sheets Size on the Performance of Label-Free Electrochemical Biosensors, *Scientific Reports*, **2018**, submitted, reference number: SREP-18-09782.
- 2- **Shimaa Eissa**[#], Abrar Yousef Almusharraf[#], Mohammed Zourob, A comparison of the Performance of Voltammetric Aptasensors for Glycated Hemoglobin on Different Carbon Nanomaterials-Modified Screen Printed Electrodes, submitted, 2018
- 3- **Shimaa Eissa**[#], Rema A. Almthen [#], Mohammed Zourob, Disposable electrochemical immunosensor for the multiplexed detection of drugs of abuse, *ACS Omega*, submitted 2018

PUBLICATIONS

- 4- Abrar Yousef Almusharraf[#], **Shimaa Eissa**[#], Mohammed Zourob, Truncated aptamers for total and glycated hemoglobin, and their integration into a graphene oxide-based fluorometric method for high-throughput screening for diabetes, *Microchimica acta*, **2018**, 185, 256.
- 5- **Shimaa Eissa**, Nawal Alshehri, Anas M. Abdel Rahman, Majed Dasouki, Mohammed Zourob, Electrochemical Immunosensor for the Diagnosis of Spinal Muscular Atrophy Using Carbon Nanofiber-Modified Electrode, *Biosensor and Bioelectronics*, **2018**, 101, 282-289.
- 6- **Shimaa Eissa**, Nawal Alshehri, Mai Abduljabbar, Anas M Abdel Rahman, Majed Dasouki, Imran Y Nizami, Mohammad A Al-Muhaizea, Mohammed Zourob, Carbon nanofiber-based multiplexed immunosensor for the detection of survival motor neuron 1, cystic fibrosis transmembrane conductance regulator and Duchenne Muscular Dystrophy proteins, *Biosensor and Bioelectronics*, **2018**, 117, 84-90
- 7- **Shimaa Eissa**, Haya Abdulkarim, Majed Dasouki, Hamoud Al Mousa, Rand Arnout, Bandar Al Saud, Anas Abdel Rahman, Mohammed Zourob, Multiplexed detection of DOCK8, PGM3 and STAT3 proteins for the diagnosis of Hyper-Immunoglobulin E syndrome using

- gold nanoparticles-based immunosensor array platform, *Biosensor and Bioelectronics*, 117, 613-619.
- 8- **Shimaa Eissa**, Haya Abdulkarim, Ibrahim Hawalta, Minnie Jacob, Majed Dasouki, Anas Abdel Rahman, Mohammed Zourob, Development of impedimetric immunosensors for the diagnosis of DOCK8 and STAT3 related Hyper-Immunoglobulin E syndrome, *Electroanalysis*, **2018**, DOI: <https://doi.org/10.1002/elan.201800228>.
 - 9- Maher M Aljohani, Raja Chinnappan, **Shimaa Eissa**, Omar A Alsager, Karina Weber, Dana Cialla-May, Jürgen Popp, Mohammed Zourob, *Scientific reports*, 8, 13290.
 - 10- **Shimaa Eissa**, Nawal Alshehri, Anas M. Abdel Rahman, Majed Dasouki, Mohammed Zourob, Electrochemical Immunosensor for the Diagnosis of Spinal Muscular Atrophy Using Carbon Nanofiber-Modified Electrode, *Biosensor and Bioelectronics*, **2018**, 101, 282-289.
 - 11- Raja Chinnappan, Saleh AlAmer, **Shimaa Eissa**, Anas Abdel Rahamn, Mohammed Zourob, Fluorometric graphene oxide-based detection of Salmonella enteritis using a truncated DNA aptamer, *Microchimica acta*, **2018**, 185 (1), 61.
 - 12- Saleh AlAmer, **Shimaa Eissa**, Raja Chinnappan, Paul Herro, Mohammed Zourob, Rapid colorimetric lactoferrin-based sandwich immunoassay on cotton swabs for the detection of foodborne pathogenic bacteria, *Talanta*, **2018**, 185, 275-280.
 - 13- Saleh AlAmer, **Shimaa Eissa**, Raja Chinnappan, Mohammed Zourob, A rapid colorimetric immunoassay for the detection of pathogenic bacteria on poultry processing plants using cotton swabs and nanobeads, *Microchimica acta*, **2018**, 185, 164
 - 14- **Shimaa Eissa**, Raja Chinnappan, Mohammed Zourob, Label-free impedimetric immunosensors for liver cancer stem cells, *Procedia Technology*, **2017**, 27, 287 – 289.
 - 15- Nawal Alshehri, **Shimaa Eissa**, Laila Balobaid, Anas M. Abdel Rahman, Majed Dasouki, Mohammed Zourob, Electrochemical Immunosensors for the Rapid Screening of Cystic Fibrosis and Duchenne Muscular Dystrophy, *Electroanalysis*, **2017**, 29 (8), 1911-1917.
 - 16- **Shimaa Eissa**, Mohammed Zourob, Competitive electrochemical immunosensor for morphine detection using gold nanoparticle-decorated graphene electrodes, *Microchimica acta*, **2017**, 184 (7), 2281-2289.
 - 17- **Shimaa Eissa**, Mohammed Zourob, Aptamer- Based Label-Free Electrochemical Microarray Biosensing Platform for The Detection of Total and Glycated Hemoglobin in human whole blood, *Scientific reports*, **2017**, 7, 1016.
 - 18- **Shimaa Eissa**, Raja Chinnappan, Mohammed Zourob, Ultrasensitive label-free electrochemical immunosensors for multiple cell surface biomarkers on liver cancer stem cells, *Electroanalysis*, **2017**, 29 (8), 1994-2000.
 - 19- Hani Alhadrami, Raja Chinnappan, **Shimaa Eissa**, and Mohammed Zourob, High affinity truncated DNA aptamers for the development of fluorescence based progesterone biosensors, *Analytical Biochemistry*, **2017**, 525,78-84.
 - 20- Farzaneh Mahvash, **Shimaa Eissa**, Tarik Bordjiba, Ana Tavares, Thomas Szkopek, Mohamed Siaj, Corrosion resistance of monolayer hexagonal boron nitride on copper, *Scientific reports*, **2017**, 7, 42139.
 - 21- **Shimaa Eissa**, Mohammed Zourob, Selection and Characterization of DNA Aptamers for Electrochemical Biosensing of Carbendazim, *Anal. Chem.*, **2017**, 89, 3138–3145.
 - 22- **Shimaa Eissa**, Mohammed Zourob, In vitro selection of DNA aptamers targeting β -lactoglobulin and their integration in graphene-based biosensor for the detection of milk allergen, *Biosens. Bioelectron.*, **2017**, 91, 169–174.
 - 23- **Shimaa Eissa**, Mohamed Siaj, Mohammed Zourob, Aptamer-Based Competitive Electrochemical Biosensor for Brevetoxin-2, *Biosens. Bioelectron.*, **2015**, 69, 148–154.

- 24- Shimaa Eissa, Gaston Contreras Jimenez, Farzaneh Mahvash, Abdeladim Guermoune, Chaker Tlili, Thomas Szkopek, Mohammed Zourob, and Mohamed Siaj, Functionalized CVD monolayer graphene for label-free impedimetric biosensing, *Nano research*, **2015**, 8, 1698-1709.
- 25- Gaston Contreras, Shimaa Eissa, Andy Ng, Mohammed Zourob and Mohamed Siaj, Aptamer-Based Label-Free Impedimetric Biosensor for the Detection of Progesterone, *Anal. Chem.*, **2015**, 87, 1075–1082.
- 26- Shimaa Eissa, Andy Ng, Mohamed Siaj, Mohammed Zourob, Label-free voltammetric aptasensor for the sensitive detection of microcystin-LR using graphene-modified electrodes, *Anal. Chem.*, **2014**, 86, 7551–7557.
- 27- Shimaa Eissa, Andy Ng, Mohamed Siaj, Ana C. Tavares, Mohammed Zourob, Selection and identification of DNA aptamers against okadaic acid for biosensing application, *Anal. Chem.*, **2013**, 85, 11794–11801.
- 28- Shimaa Eissa, Lamia L'Hocine, Mohamed Siaj, Mohammed Zourob, Graphene-based label free voltammetric immunosensor for sensitive detection of the egg allergen ovalbumin, *Analyst*, **2013**, 138, 4378–4384.
- 29- Irina Stateikina, Shimaa Eissa, Mohammed Zourob, Design and fabrication of integrated multi-analyte sensing platform with magnetic micro-coils, *J. Microelectromech. Syst.*, **2013**, 22, 1339–1346.
- 30- Shimaa Eissa, Mohammed Zourob, A graphene-based electrochemical competitive immunosensor for the sensitive detection of okadaic acid in shellfish, *Nanoscale*, **2012**, 4, 7593–7599.
- 31- Andy Ng, Raja Chinnappan, Shimaa Eissa, Hechun Liu, Chaker Tlili, Mohammed Zourob, Selection, Characterization and Biosensing Application of High Affinity Congener-Specific Microcystin-Targeting Aptamers, *J. Environ. Sci. Technol.*, **2012**, 46, 10697–10703. (A.N., R.C., and S.E. contributed equally to this work).
- 32- Shimaa Eissa, Chaker Tlili, Lamia L'Hocine, Mohammed Zourob, Electrochemical immunosensor for the milk allergen β -lactoglobulin based on electrografting of organic film on graphene modified screen-printed carbon electrodes, *Biosens. Bioelectron.*, **2012**, 38, 308–313.
- 33- Abd-Elgawad Radi, Shimaa Eissa, Voltammetric and spectrophotometric studies on the inclusion complex of glipizide with β -cyclodextrin, *Eurasian J. Anal. Chem.*, **2011**, 6, 13–21.
- 34- Abd-Elgawad Radi, Shimaa Eissa, Electrochemical study of indapamide and its complexation with β -cyclodextrin, *J. Incl. Phenom. Macrocycl. Chem.*, **2011**, 71, 95–102.
- 35- Abd-Elgawad Radi, Shimaa Eissa, Electrochemical study of glimepiride and its complexation with β -cyclodextrin, *Collect. Czech. Chem. Commun.*, **2011**, 76, 13–25.
- 36- Abd-Elgawad Radi, Shimaa Eissa, Electrochemistry of Cyclodextrin Inclusion Complexes of Pharmaceutical Compounds, *The Open Chem. Biomed. Meth. J.*, **2010**, 3, 74– 85.
- 37- Abd-Elgawad Radi, Shimaa Eissa, Electrochemical Study of Gliclazide and Its Complexation with β -Cyclodextrin, *Electroanalysis*, **2010**, 22, 2991–2996.
- 38- Abd-Elgawad Radi, Shimaa Eissa, Voltammetric and spectrophotometric study on the complexation of glibenclamide with β -cyclodextrin, *J. Incl. Phenom. Macrocycl. Chem.*, **2010**, 68, 417– 421.

BOOK CHAPTERS

- 1- Shimaa Eissa, Mohammed Zourob, Graphene-based biosensors for food safety, In "Food Biosensors", Minhaz U. Ahmed 2016, 327-353.

- 2- **Shimaa Eissa**, Raja Chinnappan, Mohammed Zourob, Biosensors for food allergen detection, In "Food allergy methods of detection and clinical studies", Anas Abdul Rahman 2016, *In press*. (<https://www.crcpress.com/Food-Allergy-Methods-of-Detection-and-Clinical-Studies/Rahman/p/book/9781498743570>)

PATENTS

1-APTAMERS AND SENSING TECHNOLOGY USED FOR DETECTION OF GLYCATED HEMOGLOBIN IN WHOLE BLOOD, **Shimaa Eissa** and Mohammed Zourob, **US Patent, 2018, 9,863,962 (Granted)**

2- **Shimaa Eissa**, Ayesha Siddiqua, Raja Chinnappan, and Mohammed Zourob, Electrochemical screening method for the selection of DNA aptamers against 11- deoxycortisol using gold electrode for target immobilization, *patent application submitted 2018*

CONFERENCES

- 1- Ayesha Siddiqua, **Shimaa Eissa**, Raja Chinnappan and Mohammed Zourob, Selection Method for Generating Nucleic Acid Aptamers Using Electrochemical Assay”, 5th Oxford meeting – Aptamers 2018, Oxford, UK, April 11-12, 2018.
- 2- **Shimaa Eissa**, Jeanne N'diaye, Ana C. Tavares and Mohamed Siaj, “Effect of graphene oxide sheet size on the sensitivity of label-free electrochemical biosensors”, 98th Canadian Chemical Society Conference, Ottawa, Ontario, Canada, June 13-17, 2015
- 3- **Shimaa Eissa**, Mohamed Siaj, Mohammed Zourob “Aptamer-Based Electrochemical Biosensor for Marine Toxins”, ECS 227th meeting, Chicago, IL, USA, May 24-28, 2015
- 4- **Shimaa Eissa**, Mohamed Siaj, Mohammed Zourob, “Selection, Characterization, and Application of High Affinity Microcystin-Targeting Aptamers in a graphene-based biosensing platform”, ECS 227th meeting, Chicago, IL, USA, May 24-28, 2015
- 5- Gaston Contreras, **Shimaa Eissa**, Andy Ng, Mohammed Zourob and Mohamed Siaj, “Development of Electrochemical Aptamer-Based Biosensors for the Detection of Hormonal Contaminants in Water”, ECS 227th meeting, Chicago, IL, USA, May 24-28, 2015
- 6- **Shimaa Eissa**, Mohammed Zourob and Mohamed Siaj, “Aptamer-Based Competitive Electrochemical Biosensor for Brevetoxin-2”, Pittcon, New Orleans, LA, USA, March 08-12, 2015
- 7- Gaston Contreras, **Shimaa Eissa**, Andy Ng, Mohammed Zourob and Mohamed Siaj, “Aptamer-based electrochemical biosensing platform for detection of hormonal pollutants in water”, Pittcon, New Orleans, LA, USA, March 08-12, 2015
- 8- **Shimaa Eissa**, Jeanne N'diaye, Ana C. Tavares and Mohamed Siaj, “Graphene oxide sheet sizes exhibit strong influence on the sensitivity of biosensors”, CQMF 2014 annual Symposium, Shawinigan, Quebec, Canada, Nov. 06-07, 2014.
- 9- Mohammed AL-Ahmadi, **Shimaa Eissa**, Gaston Contreras and Mohamed Siaj, “Graphene-coated magnetic nanoparticles for biosensing applications”, CQMF 2014 annual Symposium, Shawinigan, Quebec, Canada, Nov. 06-07, 2014.
- 10- Gaston Contreras, **Shimaa Eissa**, Andy Ng, Mohammed Zourob and Mohamed Siaj, “Aptamer-based electrochemical biosensing platform for detection of hormonal pollutants in water”, CQMF 2014 annual Symposium, Shawinigan, Quebec, Canada, Nov. 06-07, 2014.
- 11- Gaston Contreras, **Shimaa Eissa**, Andy Ng, Mohamed Siaj and Mohammed Zourob, “Aptamer-based electrochemical biosensing platform for detection of progesterone in water”, 97th Canadian Chemical Society Conference, Vancouver, British Columbia, Canada, June 01-05, 2014.

- 12- Gaston Contreras, Shimaa Eissa, Andy Ng, Mohamed Sijaj and Mohammed Zourob, "Aptameric biosensor for the detection of progesterone in water", Biosensor Conference, Melbourne, Australia, May 27-30, 2014.
- 13- Shimaa Eissa, Andy Ng, Mohamed Sijaj, Ana C. Tavares and Mohammed Zourob, "Selection, Identification and Characterization for DNA Aptamer against Okadiac acid for biosensing applications", Biosensor Conference, Melbourne, Australia, May 27-30, 2014.
- 14- Shimaa Eissa, Mohamed Sijaj, Mohammed Zourob, Ana C. Tavares and Andy Ng, "Label-Free Impedimetric Aptasensor for the Sensitive Detection of the Marine Toxin Okadiac Acid", Pittcon, Chicago, IL, USA, March 02-06, 2014.
- 15- Shimaa Eissa, Mohamed Sijaj and Mohammed Zourob, Ana Tavares, "Label-free voltammetric aptasensor for the sensitive detection of microcystin-LR using graphene-modified electrodes", 96th Canadian Chemical Society Conference, Quebec, Quebec, Canada, May 26-30, 2013.
- 16- Shimaa Eissa, Mohammed Zourob, Ana Tavares, and Mohamed Sijaj, "Label-free voltammetric aptasensor for the sensitive detection of microcystin-LR using graphene-modified electrodes", Joint workshop on functional materials and surfaces (Canada-Germany), Université de Montréal, Canada, May 23, 2013.
- 17- Shimaa Eissa, Chaker Tlili and Mohammed Zourob, "Graphene-based label free electrochemical immunosensor for the sensitive detection of food allergens", 95th Canadian Chemical Society Conference, Calgary, Canada, May 26-30, 2012.
- 18- Shimaa Eissa, and Mohammed Zourob, "A graphene array platform for the ultrasensitive label-free multiplexed electrochemical detection of allergens in food" Biosensor Conference, Cancun, Mexico, May 15-18, 2012.
- 19- Shimaa Eissa, Chaker Tlili, Lamia L'Hocine, Mohammed Zourob, "Graphene-based label-free voltammetric immunosensor for the sensitive detection of multiple food allergens", Seventh Workshop on Food Allergen Methodologies, Montreal, Canada, May 6- 9, 2012.
- 20- Shimaa Eissa, Chaker Tlili and Mohammed Zourob, "Graphene-based label-free voltammetric immunosensor for the Sensitive detection of multiple food allergens", NanoQuébec Conference, Montreal, Canada, March 20-21, 2012.

RESEARCH GRANTS

- 1- Internal research grant (IRG) project
 Title: "Ultra- sensitive aptamer-based voltammetric biosensor for milk allergen"
PI: Shimaa Eissa, 2016
 Project number:16416, duration:18 months, Amount funded: 35,000 SAR
- 2- Internal research grant (IRG) project
 Title: "Truncation of aptamers for total and glycated hemoglobin and their integration in a grapheme oxide-based fluorescence biosensor for high-throughput screening for diabetes"
PI: Shimaa Eissa, 2018
 Project number: 18420, duration:18 months, Amount funded: 50,000 SAR
- 2- L'Oréal-UNESCO grant
 Title: "Development of DNA Aptamer-based Electrochemical Biosensor for the Detection of Glycated Hemoglobin using Microarray Electrodes"
PI: Shimaa Eissa, 2018, duration: 12 months Amount funded: 90,000 SAR

EDITORIAL BOARD

1- Journal of Biomedical Engineering and Informatics (JBEI)
jbei@sciedupress.com

2- BAOJ Nanotechnology
<http://bioaccent.org/nanotechnology/editorialboard.php>

3- International Journal of Nanotechnology and Nanomedicine Research
<http://www.clytoaccess.com/dr-shimaa-eissa>

MEDIA APPEARANCE

TV Interviews

- **Al Arabiya TV "Sabah Al Arabiya"** Oct. 19th 2016
<https://www.youtube.com/watch?v=cHAUhSZJ85g>
- **MBC "Sabah El Kheir ya Arab"** Oct. 19th 2016
<http://www.mbc.net/ar/programs/sabah-al-khair/articles/-سعودية-وكويتية-تفوزان-بجائزة-اليونسكو--من-أجل-المرأة-والعلم.html>

Articles and interviews in Newspapers and magazines

- **Khaleej Times newspaper** Oct. 18th 2016
<http://m.khaleejtimes.com/nation/general/these-four-arab-female-scientists-want-to-inspire-the-next-generation>
- **Al Ittihad newspaper** Oct. 20th 2016
<http://www.alittihad.ae/details.php?id=51674&y=2016>
- **kul Al Usra Magazine** Issue :1206, pages :96-99 Nov. 22nd 2016
- **Sayidaty** Issue: 1863 Nov. 19th 2016
- **Entrepreneur** Page 35-38 Dec. 9th 2016
<https://assets.entrepreneur.com/magazine/2016-12-entrepreneur-al-arabiya.pdf>
- **www.yasmina.com** Nov. 21st 2016
<http://www.yasmina.com/article/1658860-الفائزة-في-جائزة-لوريال-شيماء-حسن-عيسى-أؤمن-بضرورة-مكافأة-جميع-النساء-الناجحات>
- **Sneou Al Hadath** Jan. 15th 2017
<http://ameinfo.com/luxury-lifestyle/iconic/loreal-unesco-middle-east-women-science-breaking-barriers/>
- **Zahrat al khaleej** Issue: 1974, pages:42-43 Jan. 21st 2017

Digital news websites

- **Gulf News**
<http://m.gulfnews.com/news/uae/education/emirati-scientist-wins-women-in-science-award-1.1915275>
- **layalina.com**
<http://m.video.layalina.com/22103-2016-لوريالاليونسكو-في-الشرق-الأوسط-تكريم-أربع-نساء-في-جائزة-العلوم.html>
- **Sharjah 24**

برنامج-ز مالة لوريال-اليونسكو-يكرّم-162823-<https://www.sharjah24.ae/ar/uae/162823>
العالمات-المتميّزات-في-دول-التعاون

- **Emirates News Agency**
<https://www.wam.ae/ar/news/general/1395301465596.html>
- **Sayidaty**
<http://www.sayidaty.net/node/487141>-برنامج-ومناسبات/برنامج-أسرة-ومجتمع/فعاليات-ومناسبات
«لوريال-اليونسكو-من-أجل-المرأة-في-العلم»-يكرّم-عدداً-من-النساء
- **Azad news**
<http://www.azadnewsme.com/en/70/6/10870/L%E2%80%99Or%C3%A9al-UNESCO-For-Women-in-Science-Middle-East-Fellowship-2016-Celebrates-Outstanding-GCC-Women-Scientists-for-Fourth-Year-Running.htm>
- **Ana Zahra**
<http://www.anazahra.com/women-society/success-stories/article-126141>
جائزة-لوريالاليونسكو-لأربع-عالمات-م/126141
- **Gulf Today**
<http://gulftoday.ae/portal/cfc21feb-2412-462b-bcf3-e908f4c51d9a.aspx>
- **entrepreneuralarabiya.com**
<http://entrepreneuralarabiya.com/2016/11/17/>
-لجأ-نم-ولكس نويلا-لايرو-جم انرب/17/11/2016/#.WH5PbVN97IU
يف-أرمل