

CURRICULUM VITAE

Full name: Ezeddin Salem Gassar

Faculty of pharmacy/ Department of Pharmacy

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1. Personal Data

Date of Birth: 20th of March, 1966

Nationality: Libyan

2. Education

- Ph.D.(Medical Physiology)2011, Westfälischen Wilhelms-University Münster, Germany
- M.Sc. (Medical Physiology) 2000, Benghazi University, Benghazi, Libya.
- B.Sc. (Pharmacy) 1990, Tripoli University for Medical Sciences. Tripoli, Libya

3. Ph.D. Dissertation

- Role of Heparan Sulfate Sulfotransferase HS3ST2 in Breast Cancer Cell Motility and Invasiveness., Westfälischen Wilhelms-University Münster, Germany

4. Employment

Academic Positions

- Assistant Professor, Medical Physiology and Pathophysiology, Al-Zaytoonah University of Jordan, Amman ,Jordan 2015-now
- Assistant Professor, Medical Physiology, Faculty of medicine, Benghazi University, Benghazi, Libya, 2012-2014



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- Assistant lecturer, Medical Physiology, Benghazi University, Faculty of medicine, Benghazi, Libya, 2000-2008
- Research Assistant, Medical physiology, Benghazi University, Faculty of medicine, Benghazi, Libya 1997-1998 / 2000-2001

Administrative Positions

- Not Applicable

5. Research Interests

Tumor microenvironment

6. Membership in Scientific Societies and Associations

Libyan Pharmacists Association.

7. Honors and Awards

Science Award of the Niederrheinisch-Westfälische Gesellschaft für Gynäkologie und Geburtshilfe e.V.(NWGGG) Cologne, Germany.

8. Fellowships and Scholarships

PhD Scholarship from ministry of Libya 2008-2011

9. Teaching Experience

- ***Graduate Courses***

Tumor biology for graduate biochemistry students in Benghazi University Libya.
Physiology of anesthesia graduate students in Benghazi University Libya.

- ***Undergraduate Courses***

Medical Physiology
Medical pathophysiology
Anatomy and histology
Anatomy and histology laboratory
Pathophysiology laboratory
Pharmacy practice laboratory
Physiology laboratory

10. Supervision of Graduate Research

Not Applicable



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11. Grants

Not applicable

12. Patents

Not Applicable

13. Membership of Committees

- **National and International**

- *Education workshop (Aim-based Teaching and learning Outcomes, Benghazi University University*

- *The Committee for Scientific Research, Pharmacy Faculty committee (member), Al-Zaytoonah University of Jordan, Amman ,Jordan 23-10-2018- now*

- *The Committee for Computing and e-learning, Pharmacy Faculty committee (member) Al-Zaytoonah University of Jordan, Amman ,Jordan 2015—now*

- Member of the committee for evaluating and developing syllabi at Faculty of Medicine, Al-Arab Medical University. Benghazi, Libya 2004- July 2008*

14. Professional and Scientific Meetings***Scientific Meetings Organized***

- Mediator in Al-Zaytoonah University of Jordan & The University of Toledo International Pharmaceutical Conference (ZTIPC 2017), Amman, Jordan, 29th to 30th of November, 2017
- Postgraduate organizer for physiology postgraduate students in Libya Benghazi university Department of Physiology 1-8-2013

Participation in Scientific meetings

- SFB492-Symposium”Adhesive Forces in Tissue Formation and Homeostasis” in ; Institute of Physiological Chemistry and Pathobiochemistry, Faculty of Medicine, Westfälischen Wilhelms-University of Münster, Germany, 22-November 2008
- Workshop in lecture demonstration and practical experience in presentation Techniques; Institute of Physiological Chemistry and Pathobiochemistry. Faculty of Medicine, Westfälischen Wilhelms- University of Münster, Germany 15-30-September 2009
- 1st Münster Immunology Meeting (Max Planck Institute for molecular Biomedicine) Münster, Germany 19-March 2010



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- Educational workshop (Aim-based Teaching and Learning Outcomes, Faculty of Medicine, Benghazi University, Libya, 23-25-March-2013
- Workshop in bioinformatics, Faculty of Medicine, Benghazi University, Libya, 30-31/10/2013
- Medical education workshop in Medical Faculty, Benghazi University 19-1-2014 to 23-3-2014
- Development of communication skills in medical institutions workshop, Medical Faculty, Benghazi University 26-1-2014 to 28-1-2014
- 16th scientific congress of the Association of the colleges of pharmacy in the Arab World “Development of Pharmacy Education and Practice, Medical Faculty, Benghazi University 4-11-2013 to 7-11-2013
- Al-Zaytoonah University of Jordan & The University of Toledo International Pharmaceutical Conference (ZTIPC 2015), Amman, Jordan, 21st to 23rd, of October, 2015.
- IBM SPSS statics workshop, Faculty of pharmacy, Al-Zaytoonah University of Jordan, 7-2-2016 to 9-2-2016
- Al-Zaytoonah University of Jordan & The University of Toledo International Pharmaceutical Conference (ZTIPC 2017), Amman, Jordan, 29th to 30th of November, 2017.
- Educational videos: Designing, Montaging, and Uploading to E-Learning Sites workshop, Al-Zaytoonah University of Jordan, 8-10/10/2018

15. Participation in or organization of curricular and/or extra-curricular activities

- Study Organizer for first and second year students in Physiology department, Medical Faculty, Benghazi University 1-11-2012 to 30-9-2013
- Organizer for Pathophysiology curriculum, Pharmacy faculty 2015-Now
- Organizer for Physiology curriculum, Pharmacy faculty 2015-Now
- Organizer for Pathophysiology for Nurses curriculum, Pharmacy faculty, Zaytoonah University of Jordan 2015-Now
- Healthy day held in Al-Zaytoonah University of Jordan campus, 9-12-2018

16. Publications

- Papers in refereed journals

1. Martin Floer, Martin Götte, Martin K.Wild, Jan Heidemann, **Ezeddin Salem Gassar**, Wolfram Domschke Ludwig Kiesel Andreas Luegering Torsten Kucharzik *Enoxaparin Improves the Course of Dextran Sodium Sulfate-Induced Colitis in Syndecan-1-Deficient Mice*. The American Journal of Pathology, 176(1) (2010) 146-157.
<https://doi.org/10.2353/ajpath.2010.080639>
2. Gotte, M. ; **Gassar, E.** ; Ibrahim, S. ; Spillmann, D. ; Yip, G. ; Kiesel, L. : *Eine Erhöhung der 3-O-Sulfatierung von Heparansulfat durch Überexpression der Sulfotransferase HS3ST2 führt zu erhöhter MMP-Aktivität und verstärkter*

Motilitat und Invasivitat von MDA-MB-231 Mammakarzinomzellen: PO153.
 Onkologie. 33 Supplement 2:144, February 2010.
<https://doi.org/10.1159/000290865>
<https://insights.ovid.com/onkologie/onko/2010/02/002/eine-erhung-der-sulfatierung-von-heparansulfat/407/00006311>

3. M Goette, **E Gassar**, S Ibrahim, D Spillmann, G Yip, L Kiesel: *An increase of 3-O-sulfation of Heparan sulfate by Overexpression of Sulfotransferases HS3ST2 brunt leads to MMP-Activity and strengthens Motility and invasiveness of MDA-MB-231 Breast cancer cells.* ONKOLOGIE 33 (2010) -144-144
4. Archana Vijaya Kumar, **Ezeddin Salem Gassar**, Dorothe Spillmann, Christian Stock, Ludwig Kiesel, George Yip, Martin Goette HS3ST2 overexpression increases invasiveness of MDA-MB-231 breast cancer cells via up-regulation of protease expression and MAPK signaling. An abstract in 2012 joint meeting of the society for glycobiology & American society for matrix biology November 11-14,2012,San Diego,CA,USA. Glycobiology, ISSN 0959-6658, E-ISSN 1460-2423, Vol. 22, no 11, p. 1556-1556
 URN: urn:nbn:se:uu:diva-188740
 ISI: 000310368700118
 OAI: oai:DiVA.org:uu-188740
 DiVA, id: diva2:578903
5. M Götte , A Vijaya Kumar , **E Salem Gassar** , S Ibrahim , D Spillmann , G Yip , L Kiesel . *Die Sulfotransferase HS3ST2 moduliert MMP-Aktivität, Motilität und Invasivität von MDA-MB-231 Mammakarzinomzellen durch eine Aktivierung des Transkriptionsfaktors TCF4.* Senologie - Zeitschrift für Mammadiagnostik und -therapie 2012; 9 - A52
 DOI: 10.1055/s-0032-1313418
6. A Vijaya Kumar , **E Salem Gassar** , D Spillmann , L Kiesel , GW Yip , M Götte . *Specific sulfation patterns in heparan sulfate promote a proinvasive phenotype of breast cancer cells via upregulation of Wnt and MAPK signaling.* Exp Clin Endocrinol Diabetes 2013; 121 - P59
 DOI: 10.1055/s-0033-1336766
7. Archana Vijaya Kumar, Ezeddin Salem Gassar, Dorothe Spillmann, Christian Stock, Yin-Ping Sen, Ting Zhang, Toin H. Van Kuppevelt, Carolin H€ulsewig, Eliene O. Kozlowski, Mauro S.G. Pavao, Sherif A. Ibrahim, Michaela Poeter, Ursula Rescher, Ludwig Kiese, Suresh Koduru, George W. Yip and Martin Gotte .*HS3ST2 modulates breast cancer cell invasiveness via MAP kinase- and Tcf4 (Tcf7l2)-dependent regulation of protease and cadherin expression.* Int. J. Cancer:135,issue 11,p 2579–2592 (2014).
<https://doi.org/10.1002/ijc.28921>
8. AV Kumar , **ES Gassar** , L Kiesel , G Yip , M Götte . *3-O-sulfation of heparan sulfate modulates breast cancer cell invasiveness by enhancing signaling via the map kinase- and TCF4 (TCF7L2) pathways.* Exp Clin Endocrinol Diabetes 2015; 123 - P03_27



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DOI: 10.1055/s-0035-1547653

9. Walid Al-Qerem*, **Ezeddin Salem Gassar**, Rania Al-Qirim, Negia Mohamed. *The Effect of Obesity on Pulmonary Function Testing Among the Jordanian Population*. Current Respiratory Medicine Reviews, 14 (2018) 89 - 94
DOI:10.2174/1573398X14666180831113318
10. Walid Al-Qerem, **Ezeddin S. Gassar**, Alaa M. Hammad, Rania A. Al-Qirim, Yazun B. Jarrar, Jonathan Ling and Iman A. Basheti. Assessing the Application of the Reference Lung Age Equations on the Jordanian Population. Current Respiratory Medicine Reviews, 2018, 14, 227-236. DOI: 10.2174/1573398X15666190112151713
11. Al-Qerem, W., Hammad, A.M., **Gassar, E.S.**, Al-Qirim, R.A. & Ling, J. Spirometry reference equations for an adult Middle Eastern population. Expert Review of Respiratory Medicine 13(5) (2019). DOI: 10.1080/17476348.2019.1601560
12. Mohammad Hailata , Ramadan I. Al-Shdefatb , Suhaib M. Muflihc , Nehad Ahmedd , Omar Attarabeene , Fadi M. Alkhateebf , Osaid Al Meanazelg and **Ezeddin Salem Gassar**•. Public knowledge about dosage forms, routes of drug administration and medication proper storage conditions in Riyadh District, Saudi Arabia. Journal of Pharmaceutical Health Services Research. April 23, 2020. DOI 10.1111/jphs.12359.
13. Negia Abdullah Emtawe Mohamed, Ezeddin Salem Gassar, Sara A. Abdulla, Mustafa Mohamed Elfakhri, Ayyub Patel, Syed Saleem Haider. Doxycycline: An Antibiotic with Brain Protective Function in Vanadium-Intoxicated Rats. Libyan International Medical University Journal 2020. 10.4103/LIUJ.LIUJ_29_20

Books

1. **Ezeddin Salem Gassar** Sherif A. Ibrahim, Martin Götte, A book chapter: *Heparan Sulfate Proteoglycans in Cancer Therapy*, Chapter 6. Glycans in Diseases and Therapeutics, Springer, Berlin, Heidelberg 19 March 2011, pp 139-158
DOI 10.1007/978-3-642-16833-8_6
2. **Ezeddin Salem Gassar** a complete book: An insight to deciphering the heparan sulfate "sulfation code": A novel role for Heparan sulfate 3-O-sulfotransferase-2 in breast cancer cell behavior. Publisher: LAP Lambert Academic Publishing (31 July 2018). Pages: 1-123.
ISBN-10: 9786139845279
ISBN-13: 978-6139845279
ASIN: 6139845270

- Conference Presentations
Not Applicable
- Reports
Not Applicable