



كلية معتمدة من الهيئة القومية  
لضمان جودة التعليم والاعتماد



جامعة أسيوط  
كلية الطب البيطري

## السيرة الذاتية للدكتور / حاتم محمد توغان سليمان

### أولاً- البيانات الشخصية:

الاسم :	حاتم محمد توغان سليمان
تاريخ الميلاد:	1971 - 8-1
الوظيفة الحالية :	أستاذ امراض الاسماك ورعايتها
القسم :	طب الأحياء المائية و رعايتها
التخصص العام :	الطب البيطري
التخصص الدقيق:	أمراض الأسماك و رعايتها
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### ثانياً:- المؤهلات العلمية:

- 1- بكالوريوس في العلوم الطبية البيطرية- كلية الطب البيطري – جامعة أسيوط -1993 .
- 2- درجة الماجستير في العلوم الطبية البيطرية - كلية الطب البيطري – جامعة القاهرة - 1999.
- 3- درجة دكتوراه الفلسفة في العلوم الطبية البيطرية - مادة التخصص (امراض أسماك و رعايتها) – كلية الطب البيطري – جامعة ميونيخ – ألمانيا - 2005.

### ثالثاً: التقييم العلمي

- h- index (Scopus):	21
- Total no. of International Publications (Scopus):	62
- Citations (Scopus):	1183
- ORCID	0000-0003-1641-6759

## رابعاً: التدرج الوظيفي:

- 1- 1995 : مساعد باحث بمعهد بحوث الأمصال واللقاحات البيطرية بالعباسية- مركز البحوث الزراعية
- 2- 1999 : باحث مساعد بمعهد بحوث الأمصال واللقاحات البيطرية بالعباسية- مركز البحوث الزراعية.
- 3- 2005: باحث بمعهد بحوث الأمصال واللقاحات البيطرية بالعباسية- مركز البحوث الزراعية.
- 4- 2007: باحث أمراض الأسماك و رعايتها- قسم بيولوجيا وامراض الأسماك -كلية الطب البيطرى - جامعة ميونخ - المانيا
- 5- 2009 : مدرس أمراض الأسماك و رعايتها- وحدة طب الأسماك -جامعة الطب البيطرى - فيينا - النمسا
- 6- 2012 : معيد أمراض الأسماك و رعايتها- بقسم طب الحيوان - كلية الطب البيطرى جامعة أسيوط.
- 7- 2012 : مدرس أمراض الأسماك و رعايتها- بقسم طب الحيوان - كلية الطب البيطرى جامعة أسيوط.
- 8- 2014 : أستاذ مساعد أمراض الأسماك و رعايتها- بقسم طب الحيوان - كلية الطب البيطرى - جامعة أسيوط.
- 9- 2016 : أستاذ مساعد أمراض الأسماك و رعايتها- وحدة طب الأسماك -جامعة الطب البيطرى - فيينا -النمسا.
- 10-2020 : أستاذ أمراض الأسماك و رعايتها - بقسم طب الأحياء المائية - كلية الطب البيطرى - جامعة أسيوط.

## خامساً : مجال الخبرة: (امراض الأسماك ورعايتها)

Diagnosis of fish diseases, development of diagnostic assays, Vaccine production, Fish microbiology, Fish molecular biology, *in vivo*-induced antigen technology (IVIAT), RNA-interference (RNAi), CRISPR/ Cas9 gene editing.

## سادساً: بيان بالدوريات العلمية المفهرسة (فى قاعدة بيانات Scopus ) التى تم التحكيم لها

- Fish & shellfish immunology (Impact factor: 4.58)
- Journal of Dermatological Science (Impact factor: 4.56)
- Aquaculture (Impact factor: 4.24)
- Microbial Pathogenesis (Impact factor: 3.73)
- Gene (Impact factor: 3.68)
- Veterinary Microbiology (Impact factor: 3.29)
- Journal of Fish Diseases (Impact factor: 2.58)

- BMC Veterinary Research (Impact factor: **2.67**)
- Virology Journal (Impact factor: **3.96**)
- Journal of Virological Methods (Impact factor: **2.6**)
- Diseases of Aquatic Organisms (Impact factor: **1.8**)
- Aquaculture Report (Impact factor: **3.38**)

### سابعا: الكتب المؤلفة

**Book title:** Veterinary Infection Biology: Molecular Diagnostics and High-Throughput Strategies.

**Book Editors:** Mónica V. Cunha & João Inácio,

**Publisher:** Springer Science & Business Media, New York, USA.

**ISBN** 978-1-4939-2003-7

**Date of Publishing:** 2015

**Web site of the book:** <https://link.springer.com/book/10.1007/978-1-4939-2004-4>

**Contributions: Chapters 12 & 19**

- **Chapter 12:** Hatem Soliman, Mona Saleh and Mansour El-Matbouli: “*Detection of Fish Pathogens by Loop-Mediated Isothermal Amplification (LAMP) Technique*”.
- **Chapter 19:** Mona Saleh, Hatem Soliman, and Mansour El-Matbouli: “*Gold nanoparticles as a potential tool for diagnosis of Fish diseases*”.

**Book title:** Climate Change and Infectious Fish Diseases

**Book Editors:** Patrick T.K. Woo, Jo-Ann Leong, Kurt Buchmann

**Publisher:** CABI, Wallingford, Oxford shire, England, UK

**ISBN:** 978-1-7892-4327-7

**Publishing date:** September 2020

**Web site of the book:** <https://www.cabi.org/bookshop/book/9781789243277/>

**Contributions:**

**Chapter 7:** Hatem Soliman and Mansour El-Matbouli: “*Herpesvirosis (Koi Herpesvirus)*”

**Book title:** Fundamentals of Aquatic Veterinary Medicine

**Book Editors:** Laura Urdes, Christopher Walster, Julius Tepper

**Publisher:** Wiley, the Atrium, Southern Gate, West Sussex PO198SQ, United Kingdom

**Publishing date:** December 2021

**ISBN:** 978-1-119-61270-4

**Website of the book:** <https://www.wiley.com/en-cn/Fundamentals+of+Aquatic+Veterinary+Medicine-p-9781119612704>

### **Contributions:**

- **Chapter 4:** “*Pathology of Aquatic Animal Diseases*”  
Wes Baumgartner, Acacia Alcivar- Warren, Farah Gonul AYDIN, Kelly Bateman, Morag Clinton, Padraig Duignan, Mansour El-Matbouli, Maria J. Forzan, Leo Foyle, **Hatem Soliman**, Gregory Lewbart, Richmond Loh, and Nicole Marie Nemeth.
- **Chapter 6:** “*Diagnostics and Treatment of Aquatic Animal Diseases*”  
Richmond Loh,, James E. Bogan, Jr, Mansour El-Matbouli, **Soliman Hatem**, Jack Kottwitz, Nicholas Saint-Erne, Mona Saleh and Vasile Vulpe.

### **ثامنا: انشاء معامل ومراكز التميز**

- تم المساهمة فى انشاء معامل البيولوجيا الجزيئية و معمل للفيروسات و معمل للزرع النسيجي بقسم طب الاحياء المائية – كلية الطب البيطرى – جامعة اسيوط.
- تم المساهمة فى انشاء وحدة طب الاحياء المائية – بكلية الطب البيطرى – جامعة اسيوط – والتي حصلت على الاعتماد الدولى (ISO 17025) لتشخيص وعلاج امراض الاسماك والاحياء المائية الاخرى.

### **تاسعا: المشروعات البحثية :**

#### **A. Principle Investigator to the following project:**

**Project title:** RNA interference (RNAi) as a potential control for spring viraemia of carp virus in cultured carp and tilapia fish  
**Funding agency:** Science & Technology Development Fund (STDF)  
**Project duration:** 2014- 2016  
**Granted fund:** 1 999 600 Egyptian pounds

#### **B. Co-Applicant & participated in the following projects:**

**Project title:** In vivo-induced antigen technology of *Aeromonas salmonicida*  
**Funding agency:** The Austrian Science Fund, FWF project (P 23850)  
**Project duration:** 01.04.2012- 31.03.2015  
**Granted fund:** 232 407. 00€

**Project title:** RNAi to control SVC&CyHV-3 infection of cyprinid fish  
**Funding agency:** The Austrian Science Fund, FWF project (P 23550)  
**Project duration:** 01.10.2011- 30.09.2013  
**Granted fund:** 152 838. 00€

**Project title:** Research of improved fish nutrition and fish health in upland aquaculture system in Yen Chau, Son La Province, Vietnam  
**Funding agency:** German Research Foundation, DFG Project (SFB 564)  
**Project duration:** 01.07.2009- 30.06.2012  
**Granted fund:** 162 226. 00€

## عاشرا: الجوائز العلمية

- جائزة الدولة التشجيعية فى العلوم الزراعية 2015 - مصر
- نوط الأمتياز من الطبقة الأولى 2017 - مصر

## حادى عشر: المساهمة فى تأسيس شعبة او قسم اكاىمى:

– تم المساهمة فى تأسيس قسم طب الاحياء المائية ورعايتها بكلية الطب البيطرى جامعة اسيوط بعد الانفصال عن قسم طب الحيوان بالكلية.

## ثانى عشر: انشاء معامل ومراكز التميز:

– تم المساهمة فى انشاء معامل البيولوجيا الجزيئية و معمل للفيروسات ومعمل للزرع النسيجى بقسم طب الاحياء المائية – كلية الطب البيطرى – جامعة اسيوط.

– تم المساهمة فى انشاء وحدة طب الاحياء المائية – بكلية الطب البيطرى – جامعة اسيوط – والتي حصلت على الاعتماد الدولى (ISO 17025) لتشخيص وعلاج امراض الاسماك والاحياء المائية الاخرى

## ثالث عشر: مساهمة البحوث فى خدمة المجتمع:

ساهمت البحوث المنشورة فى تطوير طرق تشخيصية دقيقة وحساسة للكشف السريع عن أمراض الأسماك المختلفة وكذلك بعض أمراض الماشية. كما ساهمت فى اكتشاف بعض الفيروسات والطفيليات الجديدة التى تصيب الأسماك وربما تسبب نفوقها. كما ساهمت الأبحاث فى التوصل لطرق جديدة للسيطرة على العدوى الفيروسية والفطرية فى الاسماك باستخدام احدث التقنيات الحديثة مثل العلاج الجينى وتعديل الجينوم.

## رابع عشر: عضوية اللجان والمجالس:

- عضو مجلس بحوث الثروة الحيوانية والسمكية – اللجان النوعية – أكاديمية البحث العلمى (2015-2016).
- عضو اللجنة المركزية لأخلاقيات البحث العلمى بجامعة اسيوط من يناير 2022 حتى الان.

## قائمة الأبحاث الخاصة بالدكتور حاتم محمد توغان سليمان

1. **Soliman H.**, Geisslar K., El-Matbouli M. (2003): SDS-PAGE and western blot analysis of triactinomyxon spores of *Myxobolus cerebralis*, the cause of whirling disease in salmonid fish. *Journal of fish Diseases* **26**, 621-625.
2. El-Matbouli M., **Soliman H.** (2005): Rapid diagnosis of *Tetracapsuloides bryosalmonae*, the causative agent of proliferative kidney disease (PKD) in salmonid fish by a novel DNA amplification method, loop-mediated isothermal amplification (LAMP). *Parasitology Research* **96**, 277-284.
3. El-Matbouli M., **Soliman H.** (2005): Development of a rapid assay for diagnosis of whirling disease in fish and oligochaetes using Loop-mediated isothermal amplification. *Journal of fish diseases* **28**, 549-557
4. **Soliman H.**, El-Matbouli M. (2005): An Inexpensive and Rapid Diagnostic method of the Koi Herpesvirus (KHV) Infection by a Loop-Mediated Isothermal Amplification Method. *Virology Journal* **2**:83.
5. El-Matbouli M., **Soliman H.** (2006): Construction and screening of cDNA Library from the Triactinomyxon spores of *Myxobolus cerebralis*, the causative agent of salmonid Whirling Diseases. *Parasitology* **132**: 467-477.
6. **Soliman H.**, El-Matbouli M. (2006): Reverse transcription loop mediated isothermal amplification (RT-LAMP) for rapid detection of viral hemorrhagic septicaemia virus (VHS). *Veterinary Microbiology* **114**: 205-213.
7. El-Matbouli M., **Soliman H.** (2006): Development and evaluation of two molecular biology diagnostic methods for detection of *Thelohania contejeani* (Microsporidia), the causative agent of porcelain disease in crayfish. *Diseases of Aquatic Organisms* **69**: 205-211.
8. Alaa El-Kholy, **Hatem Soliman**, Adel Abdel Rahman (2007): Molecular typing of a new foot and mouth disease virus in Egypt. *Veterinary Record* **160**, 695-697.
9. Alaa A. El-Kholy, **Hatem M. T. Soliman**, Noha A. Helmy, Adel O. Abdel Rahman (2007): Genetic identification of the foot-and-mouth disease virus caused 2006 outbreak in Egypt. *The Arab Journal of Biotechnology* **10**, 193-206.
10. El-Matbouli M., Rucker U, **Soliman H** (2007): Detection of Cyprinid herpesvirus-3(CyHV-3) DNA in infected fish tissues by nested Polymerase Chain Reaction. *Diseases of Aquatic Organisms* **78**, 23-28.
11. Knowles NJ, Wadsworth J, Reid SM, Swabey KG, El-Kholy AA, Abd El-Rahman AO, **Soliman HM**, Ebert K, Ferris NP, Hutchings GH, Statham RJ, King DP, Paton DJ (2007): Foot-and-Mouth Disease Virus Serotype A in Egypt. *Emerging Infectious Diseases* **13**, 1593-1596.



12. El-Matbouli M, Saleh M, **Soliman H** (2007): Detection of Cyprinid herpesvirus type 3 in goldfish cohabitating with CyHV-3-infected koi carp (*Cyprinus carpio koi*). **Veterinary Record** **161**, 792-793.
13. Saleh M., **Soliman H.**, El-Matbouli M. (2008): Loop mediated isothermal amplification (LAMP) for rapid detection of *Renibacterium salmoninarum*, the causative agent of bacterial kidney disease. **Diseases of Aquatic Organisms** **81**, 143-151
14. Saleh M., **Soliman H.**, El-Matbouli M. (2008): Loop-mediated isothermal amplification as an emerging technology for detection of *Yersinia ruckeri* the causative agent of enteric red mouth disease in fish. **BMC Veterinary Research** **4**,31
15. El-Kholy A.A., **Soliman H.M.T.**, Abdelrahman K.A. (2008): Polymerase chain reaction for rapid diagnosis of a recent lumpy skin disease virus incursion to Egypt. **The Arab Journal of Biotechnology** **11**, 293-302.
16. El-Matbouli M., Mattes M., **Soliman H.** (2009): Susceptibility of whirling disease (WD) resistance and WD susceptible strains of rainbow trout *Oncorhynchus mykiss* to *Tetracapsuloides bryosalmonae*, *Yersinia ruckeri* and viral hemorrhagic septicemia virus. **Aquaculture** **288**, 299-304.
17. **Soliman H.**, Midtlyng P., El-Matbouli M. (2009): Sensitive and rapid detection of infectious pancreatic necrosis virus by reverse transcription loop mediated isothermal amplification. **Journal of Virological Methods** **158**, 77-83.
18. **Soliman H.**, El-Matbouli M. (2009): Immunocapture and direct binding loop mediated isothermal amplification simplify molecular diagnosis of Cyprinid herpesvirus-3. **Journal of Virological Methods** **162**, 91-95.
19. Vanessa Isabel Carmen Severin, **Hatem Soliman**, Mansour El-Matbouli (2010): Expression of immune-regulatory genes; Arginase-2 and inducible nitric oxide synthase (iNOS) in two rainbow trout (*Oncorhynchus mykiss*) strains following exposure to *Myxobolus cerebralis*. **Parasitology Research** **106**, 325-334.
20. **Soliman H.**, El-Matbouli M. (2010): Loop mediated isothermal amplification combined with nucleic acid lateral flow strip for diagnosis of Cyprinid herpes virus-3. **Molecular and Cellular Probes** **24**, 38-43.
21. Mahmoud M., Abdelrahman K., **Soliman H.** (2010): Molecular and virological studies on contagious pustular dermatitis isolates from Egyptian sheep and goats. **Research in Veterinary Science** **89**, 290-294.
22. El-Matbouli M., **Soliman H.** (2011): Transmission of Cyprinid herpesvirus-3 (CyHV-3) from goldfish to naïve common carp by cohabitation. **Research in Veterinary Science** **90**, 536-539.
23. Mona Saleh, **Hatem Soliman**, Olga Haenen, Mansour El-Matbouli (2011): Antibody coated gold-nanoparticles immunoassay for direct detection of *Aeromonas salmonicida* in fish tissues. **Journal of Fish Diseases** **34**, 845-852.

24. Melanie Keilwerth, Ilina Bühler, Rudolf Hoffmann, **Hatem Soliman**, Mansour El-Matbouli (2012): Einschlusskörperchenkrankheit der Riesenschlangen (Inclusion Body Disease, IBD) – eine hämatologische, histologische und elektronenmikroskopische Studie zur Diagnosefindung. *Berliner und Münchener Tierärztliche Wochenschrift* **125**, 10–16.
25. Mona Saleh, **Hatem Soliman**, Oskar Schachner, Mansour El-Matbouli (2012): Direct Detection of Unamplified Spring Viraemia of Carp Virus RNA Using Unmodified Gold Nanoparticles. *Diseases of Aquatic Organisms* **100**, 3-10
26. Supamattaya K., Phromkunthong W., Suanyuk N., **Soliman H.**, El-Matbouli M. (2012): Spironucleosis in Cultured Red Tilapia (a hybrid of *Oreochromis niloticus* x *O. mossambicus* and *O. aureus*). *Veterinary Record* **171**, 274.
27. Mona Saleh, **Hatem Soliman**, Henning Sørum, Aud Kari Fauske, Mansour El-Matbouli (2012): A novel gold nanoparticles-based assay for rapid detection of *Melissococcus plutonius*, the causative agent of European foulbrood. *Veterinary Record* **171**, 400.
28. Gokhlesh Kumar, Ahmed Abd-Elfattah, **Hatem Soliman**, Mansour El-Matbouli (2013): Establishment of medium for laboratory cultivation and maintenance of *Fredericella sultana* for *in vivo* experiments with *Tetracapsuloides bryosalmonae* (Myxozoa). *Journal of Fish Diseases* **36**, 81-88.
29. [Kumar G](#), [Mayrhofer R](#), **Hatem Soliman**, [El-Matbouli M](#). (2013): Novel Chlamydiales associated with epitheliocystis in grass carp (*Ctenopharyngodon idella*). *Veterinary Record* **172**, 47-47.
30. Naraid Suanyuk, Suchanya Mankhakhet, **Hatem Soliman**, Mona Saleh, Mansour El-Matbouli (2013): *Euclinostomum heterostomum* infection in guppies *Poecilia reticulata* cultured in southern Thailand. *Diseases of Aquatic Organisms* **104**, 121-127.
31. Michael Gotesman, **Hatem Soliman**, Mansour El-Matbouli (2013): Antibody screening identifies 78 putative host proteins involved in Cyprinid herpesvirus-3 infection or propagation in common carp (*Cyprinus carpio*). *Journal of Fish Diseases* **36**, 721-733.
32. El-Kholy A. A., Rady D. I., Abdou E. R., Elseafy M. M., Abdelrahman K. A., **Soliman H.** (2013): Construction, Characterization and Immunogenicity of a Glycoprotein E Negative Bovine Herpesvirus-1.1 Egyptian Strain "Abu-Hammad". *Journal of Virological Methods* **194**, 74-81
33. Ahmed Abd-Elfattah, Inês Fontes, Gokhlesh Kumar, **Hatem Soliman**, Hanna Hartikainen, Beth Okamura, Mansour El-Matbouli (2014): Vertical transmission of the cryptic stages of *Tetracapsuloides bryosalmonae* (Myxozoa), the causative agent of Proliferative kidney (PKD) disease through *Fredericella Sultana* Statoblast. *Parasitology* **141**, 482-490.



34. Mansour El-Matbouli, Mona Saleh, **Hatem Soliman** (2014): Biosecurity risks associated with epizootic ulcerative syndrome and iridovirus in ornamental fishes imported into European Union. *Veterinary Record* **174**, 303.
35. Alaa El-Kholy, Khaled Abdelrahman, **Hatem Soliman** (2014): Rapid detection of BoHV-1 genomic DNA by loop-mediated isothermal amplification assay. *Journal of Virological Methods* **204**, 81-85.
36. Michael Gotesman, **Hatem Soliman**, Robert Besch, Mansour El-Matbouli (2014): In Vitro inhibition of Cyprinid Herpes virus-3 replication by RNAi. *Journal of Virological Methods* **206**, 63-66.
37. Ahmed Abd-Elfattah, Gokhlesh Kumar, **Hatem Soliman**, Mansour El-Matbouli (2014): Persistence of *Tetracapsuloides bryosalmonae* (Myxozoa) in chronically infected brown trout *Salmo trutta*. *Diseases of Aquatic Organisms* **111**, 41-49.
38. Michael Gotesman, Ahmed Abd-Elfattah, Julia Kattlun, **Hatem Soliman**, Mansour El-Matbouli (2014): Investigating the interactions of CyHV-3 with host proteins in goldfish *Carassius auratus*. *Journal of Fish Diseases* **37**, 835-841.
39. Oskar Schachner, **Hatem Soliman**, Michael Straif, Franz Schilcher, Mansour El-Matbouli (2014): Isolation and characterization of a novel reovirus from white bream *Blicca bjoerkna*. *Diseases of Aquatic Organisms* **112**, 131-138.
40. Simon Menanteau-Ledouble, **Hatem Soliman**, Gokhlesh Kumar, Mansour El-Matbouli (2014): Use of in vivo induced antigen technology to identify genes from *Aeromonas salmonicida* subsp. *salmonicida* that are specifically expressed during infection of the rainbow trout *Oncorhynchus mykiss*. *BMC Veterinary Research* **10**, 298
41. Michael Gotesman, **Hatem Soliman**, Julia Kattlun, Mansour El-Matbouli (2015): Inhibition of spring viraemia of carp Virus replication in an *Epithelioma Papulosum Cyprini* cell line by RNAi. *Journal of Fish Diseases*. **38**, 197-207.
42. Abdel-Azeem S. Abdel-Baki, **Hatem Soliman**, Mona Saleh, Saleh Al- Quraishy, Mansour El-Matbouli (2015): *Ortholinea saudii* sp. nov. (Myxosporea: Ortholineidae) in the kidney of the marine fish *Siganus rivulatus* (Teleostei) from Red Sea, Saudi Arabia. *Diseases of Aquatic Organisms* **113**, 25-32.
43. Eva Lewisch, **Hatem Soliman**, Peter Schmidt, Mansour El-Matbouli (2015): Morphological and molecular characterization of *Thelohanellus hoffmanni* sp. nov. (Myxozoa) infecting gold fish *Carassius auratus auratus*. *Diseases of Aquatic Organisms* **115**, 37-46.

44. Kattlun J., Menanteau-Ledouble S., Gotesman M., Abd-Elfattah A., Way K., **Soliman H.**, Bergmann S., El-Matbouli M. (2016): Immunogenic potential of a membrane protein encoded by the viral gene located at ORF 81 of Cyprinid Herpes-virus-3. *Wiener Tierärztliche Monatsschrift* -103, 3-12
45. **Hatem Soliman**, Gokhlesh Kumar, Mansour El-Matbouli (2018): *Tetracapsuloides bryosalmonae* persists in brown trout *Salmo trutta* for five years post-exposure. *Diseases of Aquatic Organisms* 127, 151-156.
46. **Hatem Soliman**, Mansour El-Matbouli (2018): Rapid detection and differentiation of carp edema virus and cyprinid herpes virus – 3 in koi and common carp. *Journal of Fish Diseases* 41, 761 - 772
47. **Hatem Soliman**, Gokhlesh Kumar, Mansour El-Matbouli (2018): Recombinase polymerase amplification assay combined with a lateral flow dipstick for rapid detection of *Tetracapsuloides bryosalmonae*, the causative agent of proliferative kidney disease in salmonids. *Parasites & Vectors* 11: 234.
48. Eva Lewisch, T. Frank, **Hatem Soliman**, Oskr Schachner, Friedl Adina Mansour El-Matbouli (2018): First Confirmation of Salmonid Alphavirus Infection in Arctic Char (*Salvelinus alpinus*) and in Austria. *Diseases of Aquatic Organisms* 130, 71-76.
49. Alexander Haselmeyer, Norbert Nowotny, Heinz Heisteringer, Jolanta Kolodziejek, Johann Homola, Katharina Nöbauer, Ebrahim Razzazi-Fazeli, **Hatem Soliman**, Mansour El-Matbouli, Karin Zitterl-Eglseer (2018): *Melissa officinalis* L. extract and its main phenolic compound rosmarinic acid as phytoprophylactic feed additives against koi herpesvirus infection in a pilot study. *Wiener Tierärztliche Monatsschrift* 105, 175-183
50. Muhammed Majeed, **Hatem Soliman**, Gokhlesh Kumar, Mansour El-Matbouli, Mona Saleh (2018): Editing the genome of *Aphanomyces invadans* using CRISPR/Cas9. *Parasites & Vectors* 11:554.
51. Ahmed Elsheshtawy, Nader Yehia, Maged Elkemary, **Hatem Soliman** (2019): Direct detection of unamplified *Aeromonas hydrophila* DNA in clinical fish samples using goldnanoparticle probe-based assay. *Aquaculture* 500, 451-457
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