

CURRICULA VITAE

1. PERSONAL DATA:

Name Sami Mohamed Nasr Salama
Date of Birth 21/2/1980
Place of Birth Egypt
Nationality Egyptian
Contact Address Moon City Compound, Building #3, Cairo, Egypt.
Affiliation Theodore Bilharz Research Institute (TBRI).
Occupation **Assistant Professor of Biochemistry and Molecular Biology**
Department Biochemistry and Molecular Biology
Address Kornish El-Nile P. O. Box 30 Imbaba, Giza 12411, Egypt
Tel/Fax Work: (202)35402977 Home: (202)24707223
Mobile 201022424788
E. mail Samitbri@gmail.com , s.nasr@tbri.gov.eg
Website <http://www.tbri.sci.eg/> <http://www.tbritico.com/>



2. ACADEMIC/PROFESSIONAL PARTICULARS:

- (a) Field of Specialization:
- Biochemistry (Molecular Biology, Medical Biotechnology)
- (b) Academic Qualifications:
- Bachelor of Science in Microbiology for the year 2001 with a very good grade (Best Achievers) from Zagazig University- faculty of Science, Egypt.
 - Master of Science in Microbiology (Molecular biology) for the year 2010. Under the title "Cloning of Human Growth Hormone (hGH) in Prokaryotic Cells" from Zagazig University- faculty of Science, Egypt.
 - PhD in Microbiology (Molecular biology) under the title "Biochemical and Biophysical Studies on Recombinant Human Growth Hormone Expressed in a Prokaryotic System" from Microbiology Department in Faculty of Science, Ain Shams University, Cairo, Egypt and Department of Chemical and Biomedical Engineering, University of Rochester, NY, USA, 2015.
- (c) Academic Honors and Awards:
- 2003 Academic excellence in the Bachelor Best Achievers from President of Arab Republic of Egypt Mohamed Hosni Mubarak and Minister of Administrative Development.
 - Theodor Bilharz Research Institute best publications achievement for year 2021.
- (d) Membership of Professional Bodies:
- Member of Technology, Innovation and Commercialization Office (TICO). Theodore Bilharz Research Institute 2015.
 - Member of Infection Control Unit. Theodor Bilharz Research Institute 2004.
 - Member of Scientific Theses Registration Committee, Theodor Bilharz Research Institute 2023.

- Member of Misr University for Science and Technology, Biotechnology college responsible committee for National Authority for Quality Assurance and Accreditation in Education (NAQAEE) in 2019.
- Member of the jury for the ninth season of the SOLE2023 Biotechnology Competition among All Egyptian universities, colleges of biotechnology.
- Member of Science, Technology and Innovation Indicators in Egypt (ESTIO) in the Academy of Scientific Research & Technology (ASRT), Egypt.
- Member of The Arab Society for Medical Research, National Research center, Egypt (NRC).

(e) Language Proficiency:

- Arabic, Fluent spoken/written
- English Fluent spoken/written

3. CAREER DETAILS

(a) Academic Positions Held:

- 1/10/2003: science specialist at Theodor Bilharz Research Institute (TBRI), Department of Biochemistry and Molecular Biology ·
- 23/11/2006: Research Assistant at (TBRI), Department of Biochemistry and Molecular Biology ·
- 13/4/2010: Assistant Researcher at (TBRI), Department of Biochemistry and Molecular Biology ·
- 4/13/2016: Researcher at (TBRI), Department of Biochemistry and Molecular Biology ·
- 5/7/2021: Assistant Professor at (TBRI), Department of Biochemistry and Molecular Biology.

Current position:

- Assistant Professor of Biochemistry and molecular biology at the Laboratory of Biochemistry and Molecular Biology at TBRI.

(b) Professional/Industrial Positions Held:

- Microbiology certifier for clean areas in El Nasr pharmaceutical chemicals co. (ADWIC) 2001-2003.

(c) Administrative Positions Held:

- Head of Central laboratory, (TBRI) 2021 till now.
- Deputy Manager at PCR unit for infectious diseases diagnosis at ALFA laboratories Egypt. April 2019 to April 2022.

4. Teaching

(a) Summary of Courses Taught:

- Ass. Professor at Misr University for science and technology (MUST) at Biotechnology College 2019-2022 (Research in Biotechnology (RSBT 401) & Biotechnology Seminar (BTSM 402)).

- Ass. Professor and Vice Dean at school of Biotechnology- Badr university in Cairo (BUC) and teaching Cellular & Molecular Biology (Bio-2105), General Microbiology (PhB-1203), Genomics and proteomics of diseases (MdB-4210), Molecular diagnoses (Bio-3216) and Medical biotechnology (MdB-4211)

(b) Participation in Academic Accreditation:

- Member of Misr University for Science and Technology, Biotechnology college responsible committee for National Authority for Quality Assurance and Accreditation in Education (NAQAAE) in 2019- registered 2021.

(c) Research Students Supervised/Trained

- Undergraduate Students (Research in Biotechnology (RSBT 401) & Biotechnology Seminar (BTSM 402) subjects from 2019 to 2022 at MUST.
- Master Students:
 - Phytochemical and biological studies of *Cestrum nocturnum* and *Cestrum elegans* (Family *Solanaceae*). Internal master thesis supervision. Cairo university 2015-2018.
 - Lab Scale Process Development for Production of Recombinant Human Growth Hormone (rHGH). Basic master thesis supervision. Cairo University 2019- running.
 - Evaluation of Kaempferol Effect on Biofilms of *Klebsiella pneumonia* Clinical Isolates Master thesis 2021- running at Ain shams university- faculty of science.
 - Studying the correlation between long-noncoding RNA and pathogenic *E. coli* infection in Egyptian patients. 2022- Running at Ain shams university- faculty of science.
- PhD Students:
 - Impact of Climate Change on Freshwater Snails with Special Reference to Schistosomiasis Intermediate Hosts in Northern Delta, Egypt. Internal PhD. Supervision. Cairo University 2017- 2022.
 - Studies on molecular characterization for immune response of rabbits and the intermediate host infected with *Fasciola gigantica*. Ph.D. Thesis running 2021- running. At Ain Shams University –faculty of Agriculture.

(d) Training

- Trainer of Molecular Biology training course held in Biochemistry and molecular biology department at TBRI from 17-21/6/2007 for University of Ain Shams, faculty of Agriculture graduate students.
- Trainer of Molecular Biology training course held in Biochemistry and molecular biology department at TBRI from 10-21/7/2016 for University of Ain Shams, faculty of Agriculture graduate students.
- Lecturer of Molecular Biology in training course held in Biochemistry and molecular biology department at TBRI from 14/7 to 28/ 8/2019 for University of Helwan, faculty of Science graduate students entitled " Recombinant Protein Preparation, hands-on".

- Lecturer of Molecular Biology training course held in Biochemistry and molecular biology department at TBRI from 22/7 to 20/9 2019 for University of Ain Shams, faculty of Agriculture graduate students entitled " Recombinant Protein Preparation, hands-on".
- Lecturer of Molecular Biology training course held in Biochemistry and molecular biology department at TBRI from 2/8/ to 29/8/2019 for University of Ain Shams, faculty of Agriculture graduate students entitled " Recombinant Protein Preparation, hands-on".
- Assistant professor of Molecular biology training course held in Biochemistry and molecular biology department at TBRI November 2022, titled "Real-time PCR for Diagnosis and Expression.

5. RESEARCH

(a) Research Interests

- Infectious Diseases, Hepatology, Cell Biology, Genetics, Molecular Biology.
- Academic and experimental background in molecular biology techniques for gene isolation, characterization, identification, cloning, recombinant protein expression, chromatographic purification and characterization using MALDI-TOF TOF, LCMS-MS and other techniques.
- Bioinformatical gene manipulation, synthesis and regulation.
- Bacterial fermentation and downstream process for production of therapeutic proteins.
- Molecular Diagnosis and characterization of infectious agents (HCV, HBV, CMV, papilloma virus, Epstein–Barr virus).
- Molecular diagnosis of Genetic diseases as Cardiovascular Disorders (CVD), Cystic Fibrosis, Y Chromosome Micro-deletion, Fragile-X Chromosome and Philadelphia chromosome. Using Real Time PCR, PCR, branched DNA, Array and In situ hybridization techniques and molecular bacterial identification as well.
- DNA vaccines establishment for viruses.
- NASH, NAFLD and HCC many parameters evaluation on animal models.
- Tissue culture and bio-assays for natural products extracts and recombinant pharmaceutical proteins.

(b) Publications/Citations Data

- 1- Ghreeb A., Saber M. A., **Nasr S.**, "Cloning of Human growth hormone GHG in TA cloning vector (2010): 5th Scientific Environmental Conference Faculty of Science, Zagazig University 19 may. P: 49:58
- 2- **Sami M. Nasr**, Mohamed K. Ibrahim, Hanaa A. Hammad, Hanan A. Omar, J.H. David Wu, Ryan Severins, Mohamed A. Saber (2015) " Cloning and expression of Human Growth Hormone in *E. coli* System. Arab Journal of Biotechnology Vol. 18(1) January, P: 33-44.
- 3- Soliman R.H., Ismail O.A., Badr M.S., **Nasr S.M.** (2017) "Resveratrol

ameliorates oxidative stress and organ dysfunction in *Schistosoma mansoni* infected mice” Experimental Parasitology 174, 52-58

4- Huda R. M. Rashdan, **Sami M. Nasr**, Heba A. El-Refai, Mohamed S. Abdel-Aziz (2017) “A Novel Approach of Potent Antioxidant and Antimicrobial Agents Containing Coumarin Moiety Accompanied with cytotoxicity studies on the Newly Synthesized Derivatives” Journal of Applied Pharmaceutical Science. Vol. 7 (07), pp. 186-196.

5- **Nasr SM**, Ghareeb MA, Mohamed MA, Elwan NM, Abdel-Aziz AWA, Abdel-Aziz (2018) "MS. High-performance liquid chromatographyfingerprint analyses, In vitro cytotoxicity, antimicrobial and antioxidant activities of the extracts of two *cestrum* species growing in Egypt". Phcog Res;10:173-80.

6- Ghareeb M, Saad A, Ahmed W, Refahy L, **Nasr S.**(2018) "HPLCDAD-ESI-MS/MS characterization of bioactive secondary metabolites from *Strelitzia nicolai* leaf extracts and their antioxidant and anticancer activities In vitro". Phcog. Res;10:368-78.

7- Marwa T. A Abdel-Wareth, Ali M. El-Hagrassi, Mohamed S. Abdel-Aziz, **Sami M. Nasr** and Mosad A. Ghareeb (2019) Biological activities of endozoic fungi isolated from Biomphalaria alexandrina snails maintained in different environmental conditions. International Journal of Environmental Studies , 76:5, P 780:799.

8- Heba A. Hady, Eman A. El Wakil, **Sami M. Nasr** (2019). Characterization and Evaluation of Antimicrobial and Cytotoxic Activities of Glycine max Methanol Extract. International Journal of Pharmaceutical Research Vol 11 | Issue 2. P: 418:426.

9-Amina M. Ibrahim and **Sami M. Nasr** (2019). Cytochrome oxidase subunit and internal transcribed spacer molecular revelation of infection with *fasciola* sp. in field- collected *lymnaea natalensis* snails. J. Egypt. Soc. Parasitol. (JESP), 49(2), 357 :364

10-Samar Ebrahim Abd El-Razek, Sabreen Mohamed El-Gamasy, Marwa Hassan, Mohamed S. Abdel-Aziz d, **Sami Mohamed Nasr** (2020). Transition metal complexes of a multidentate Schiff base ligand containing guanidine moiety: Synthesis, characterization, anti-cancer effect, and anti-microbial activity. Journal of Molecular Structure, 1203: 127381-8

- 11-** Marwa Hassan, **Sami Mohamed Nasr**, Samar Ebrahim Abd-El Razek, Mohamed S. Abdel-Aziz, Sabreen Mohamed El-Gamasy. New superior bioactive metal complexes of ligand with N, O donor atoms bearing sulfadiazine moiety: physicochemical study and thermal behavior for chemotherapeutic application. *Arabian Journal of Chemistry*, (2020), 13(10): 7324-7337.
- 12-** Lamiaa A. Ahmed, Maha B. Salem, Sayed H. Seif el-Din, Naglaa M. El-Lakkany, Hend O. Ahmed, **Sami M. Nasr**, Olfat A. Hammam, Sanaa S. Botros, Samira Saleh. Gut microbiota modulation as a promising therapy with metformin in rats with non-alcoholic steatohepatitis: Role of LPS/TLR4 and autophagy pathways. *European Journal of Pharmacology*, (2020), 887: 173461.
- 13-** Hend Okasha, **Sami Mohamed Nasr**, and Safia Samir* "Recombinant Expression of Cec-B Peptide in Escherichia coli with a Significant Anticancer Effect on Hepatocellular Carcinoma" *Current Pharmaceutical Biotechnology*, (2021), 22(9), 1235 – 1245.
- 14-** Sayed H Seif el-Din , MB Salem , NM El-Lakkany , OA Hammam , **SM Nasr** , H Okasha , LA Ahmed , S Saleh and SS Botros. "Early intervention with probiotics and metformin alleviates liver injury in NAFLD rats via targeting gut microbiota dysbiosis and p-AKT/mTOR/LC-3II pathways" *Human and Experimental Toxicology*, (2021), 1-14.
- 15-** **Sami M. Nasr**, Nehal M. Elwan , Mona A. Mohamed , Abdel-Wanes Anter Abdel-Aziz³, Mosad A. Ghareeb. (2021). Phytochemical Investigation and Differential Effects of *Cestrum elegans* Isolated Compounds as Antimicrobial and Virucidal against Hepatitis A Virus. *Egyptian Journal of Chemistry* 64 (7), 3729-3738. DOI: 10.21608/EJCHEM.2021.71934.3581
- 16-** Hend Okasha, Safia Samir, **Sami Mohamed Nasr**, (2021). Purified recombinant human Chromogranin A N46 peptide with remarkable anticancer effect on human colon cancer cells. *Bioorganic Chemistry* 115 (2021) 105266. DOI:10.1016/j.bioorg.2021.105266
- 17-** Ehab El-Dabaa, Hend Okasha, Safia Samir, **Sami Mohamed Nasr**, Hadeer Adel El-Kalamawy, and Mohamed Ali Saber (2022). "Optimization of high expression and purification of recombinant streptokinase and in vitro Evaluation of its thrombolytic activity. *Arabian Journal of Chemistry*. 15, 103799-809. DOI.org/10.1016/j.arabjc.2022.103799.
- 18-** Marwa Hassan, **Sami Nasr**, Mohamed Elzalat. (2022) "Effect of CD133 Polymorphisms on the Risk of Developing Liver Cirrhosis and hepatocellular carcinoma Induced by Viral Hepatitis" *Virus Research*.312, 198714-24. DOI.org/10.1016/j.virusres.2022.198714.
- 19-** Safia Samir, Amira El-Far, Hend Okasha, Rania Mahdy, Fatima Samir, **Sami Nasr** (2022). "Isolation and characterization of lytic bacteriophages from sewage at an egyptian tertiary care hospital against methicillin-resistant *Staphylococcus aureus* clinical isolates. *Saudi Journal of Biological Sciences* 29, 3097–3106. DOI: 10.1016/j.sjbs.2022.03.019

- 20-** Marwa Hassan, **Sami Mohamed Nasr**, Noha Abdelaal Amin, Eman El-Ahwany, Mona Zoheiry, Mohamed Elzallat (2023) "Circulating liver cancer stem cells and their stemness-associated MicroRNAs as diagnostic and prognostic biomarkers for viral hepatitis-induced liver cirrhosis and hepatocellular carcinoma" *Non-coding RNA Research* 8:155–163.
- 21-** Amina M. Ibrahim, Rasha M. Gad El-Karim, Rasha E. Ali, **Sami M. Nasr** (2023)" Toxicological effects of Saponin on the free larval stages of *Schistosoma mansoni*, infection rate, some biochemical and molecular parameters of *Biomphalaria alexandrina* snails" *Pesticide Biochemistry and Physiology* 191:105357.
- 22-** Amina M. Ibrahim· **Sami M. Nasr.** (2024)"Evaluation of the Effects of Papain on *Schistosoma mansoni*: Miracidial Infection Capacity, Infection Prevalence, Cercarial Shedding and Molecular Changes in *Biomphalaria alexandrina*" *Acta Parasit.* 00898-9.
- 23-** Esraa H. Nafie, Maha M. Abou-Gamra, Hanan S. Mossalem, Rania M. Sarhan, Olfat A. Hammam, **Sami M. Nasr** & Mona M. Anwar (2024) "Evaluation of the prophylactic and therapeutic efficacies of mucus and tissue nucleoproteins extracted from *Biomphalaria alexandrina* snails on *schistosomiasis mansoni*. *J Parasit Dis* 48, 551–569.
- 24-** **Sami Mohamed Nasr**, Eman Ahmed El-Wakil , Tarek Abou-Shousha, Heba Abdel-Hady (2024) "Altered expression of activated induced hepatocellular carcinoma markers (HCCmk) in murine model treated with *Portulaca oleracea* L. *South African Journal of Botany* 162, 142-153.
- 25-** Heba Abdel-Hady. Manal Mortady Hamed. **Sami Mohamed Nasr.** Eman Ahmed El-Wakil. Eman Abdalla Morsi (2024) "Comparative Study of *Alpinia officinarum* And *Zingiber officinale* Root Extracts for Chemical Composition, Antioxidant Potential and Cell Mediated Blocking of HSV-II Activities" *The Egyptian Journal of Chemistry.* 67 (9), 127-137.
- 26-**Amina M. Ibrahim. Alaa A. Youssef. Abo Bakr A. Youssef . **Sami M. Nasr** "Biological, biochemical and genotoxicological alterations of Benzylamine on *Biomphalaria alexandrina* snails and its *Schistosoma mansoni* larvicidal potential" *Pesticide Biochemistry and Physiology* 201, 105855-63.
- 27-** **Sami Nasr**, Safia Samir, Hend Okasha. (2024) "Interdisciplinary gene manipulation, molecular cloning, and recombinant expression of modified human growth hormone isoform-1 in *E. coli* system. *International Journal of Biological Macromolecules* 257 (1)- 128637
- 28-** **Sami Mohamed Nasr**, Marwa Hassan, Tarek AbouShousha, Yasmine Elhusseny, Mohamed Elzallat (2024) Effect of Placental Derived Nucleoproteins on liver regeneration in DEN-induced liver fibrosis model. *Biomedicine & Pharmacotherapy* 178-117190.

No. of Publication: 28

Books/Book Chapters:

• Manal Diab, Eman El Ahwany, Inas El-Dafrawy, Walaa El-Maadawy, Mosad Ghareeb, **Sami Mohamed**, Sanaa Botros. Theodor Bilharz Research Institute, Technology Innovation & Commercialization Office "National and International Grant Cooperation Support: Objectives, Achievements, Challenges and Recommendations". Deposition number: 10475/2018. TICO-Booklet.

• Effat El Sherbini, Bothaina Madkour, Mosad Ghareeb, **Sami Mohamed**, Ahmed Hindawy, Noha El Qareh, Ismael Refky, Sanaa Botros. Theodor Bilharz Research Institute, Technology Innovation & Commercialization Office, Technology Innovation, Transfer and Support (TIS & TT) "A Glance on the Support and Technology Transfer". Deposition number: 10476/2018. TICO-Booklet.

(c) Conferences Abstracts:

1-Mohamed Saber, Hanaa Hammad, Soad El-Sherif, Rasha Shabaan, Marwa Nassar,

Sami Nasr, Hend Okasha and Ehab El-Dabaa (2010). Lab scale production of recombinant pharmaceutical proteins: established skills for R&D and innovative research. Accepted in the 3rd ANDI Stakeholders Meeting United Nations Office (UNON), Nairobi, Kenya .11-13 October 2010.

2-Hammad H., **Nasr S.** (2008): Recombinant Human Growth Hormone (rhGH) Production, The first Japan-Egypt international Symposium on Science and Technology Japan.p:13

3- Saber M., Hammad H., El-sherif S., Shabaan R., Nassar M, **Nasr S.**, Okasha H., El-Dabaa E. (2010): "Lab scale production of recombinant pharmaceutical proteins established skills for R&D and innovative research" 3rd Stakeholders Meeting of the African Network for drugs andDiagnostics Innovation 11-13 October 2010 United Nations Office in Nairobi UNON, Kenya.p:119

(d) Research Grants:

1- ASRT ID 67

Cloning and production of recombinant human interferon Alfa in prokaryotic expression system (*E. coli*). 2004 - 2008. (600,000 LE) (**Member**)

2- ASRT ID 97

Recombinant Human Growth Hormone (rhGH) Production. 2004 – 2012 (300,000 LE) (**Member**)

3- STDF – STF ID 6080

Biochemical and Biophysical studies on recombinant human growth hormone expressed in a prokaryotic system. 2013 -2016. (149,000 LE) (**PI**)

4- National Research Center NRC 2016-2019

Elimination of the toxicity of nanoparticles used in food. 2016 (800,000 LE) (**Member**)

5- STDF.UK Newton.Mosharafa ID no. 27701. 2017 (3,000,000 LE) (**Member**)

6- STDF- Young Researchers Grant (STDF-YRG) no 33430
Process Development for Industrial Production of Recombinant Human Growth Hormone. 2019- 2022 (1,200,000 LE) **(PI)**

7- STDF- Young Researchers Grant (STDF-YRG) no 33390
Isolation and identification of lytic Bacteriophages against Methicillin Resistant *Staphylococcus aureus* . 2019- 2022(700,000 LE) **(Member)**

8- STDF – Center of excellence
Centre of excellence in bioinformatics guided development and characterization research in recombinant pharmaceutical proteins. 2019- running. (19,000,000LE) **(Member)**

9- TBRI- 117
Impact of short chain fatty acids production adjustment using gut microbiota alone or in combination with metformin on modulation of autophagy and insulin resistance in non-alcoholic fatty liver disease-induced rats. 2018. (150,000 LE) **(Member)**

10-TBRI- 107
Circulating Cancer Stem Cells Markers: Diagnostic Tools in HCV-Induced Hepatocellular Carcinoma. 2018. (150,000 LE) **(Member)**

11- TBRI- 103
Molluscicidal impacts of extract of six Egyptian plants on biological; physiological and molecular aspects of *Biomphalaria alexandrina*, the snail host of *Schistosoma mansoni* in Egypt. 2018. (150,000 LE) **(Member)**

12- TBRI- 28
Recombinant production of two synesthetic peptides using prokaryotic expression systems. 2018. (150,000 LE) **(Member)**

13- TBRI- 106
Impact of climate change in (Upper, Middle and Lower delta) Egypt on the Biodiversity of Aquatic Ecosystem with Emphasis to Biological Assessment and Fresh water Quality. 2018. (150,000 LE) **(Member)**

14- ASRT-TICO
Establishment of Technology, Innovation and Commercialization office (TICO) to exploit and maximize research competitiveness of Theodor Bilharz Research Institute. 2015-till now. (850,000 LE) **(Member)**

(e) Participation in Regional & International Conferences:

1- The 8th Annual Conference of National Hepatology & Tropical Medicine Research Institute [NHTMRI] ,Grand Nile Tower, Cairo, Egypt 28-29 September, 2016

2- Bridging Gaps in Oncology, Intercontinental City Stars, Cairo, Egypt, 9-11 November, 2016.

3- Gut, Liver and Infections: Meet the Future in 3 days, Triumph Hotel, Cairo, Egypt, 22-24 November, 2016

- 4- Global Approaches To GI Functional Disorders, Triumph Hotel, Cairo, Egypt, 1-2 December, 2016.
- 5- The Annual Conference Department of Clinical Oncology & Nuclear Medicine, Kasr Al Aini, Cairo University, The Nile Ritz-Carlton Hotel, Cairo, Egypt, 29-30 March, 2017.
- 6- The Hepatology on the Nile 5 Advances in Liver Disease 2017 "World Expert" Review, Cairo Marriott Hotel, Cairo, Egypt, 15-16 November, 2017.
- 7- The 5th Annual Conference of Ain Shams Tropical Medicine Department: Integrating Knowledge Into Practice TMASU Tropical Medicine Ain Shams In Collaboration with International Medicine Center [IMC] & Interventional Radiology Unit [ASU], Triumph Hotel, Cairo, Egypt, 21-23 November, 2017.
- 8- 7th Annual Meeting Liver Cancer Updates (HCC) & The Egyptian Society of Liver Cancer [ESLC], Grand Nile Tower, Cairo, Egypt, 20-21 December, 2017
- 9- International Conference of National Institute of Diabetes & Endocrinology (NIDE), Grand Nile Tower, Cairo, Egypt, 18-19 July, 2018.
- 10- The 10th Annual Conference of National Hepatology & Tropical Medicine Research Institute [NHTMRI] "NHTMRI Pearls 2018", Grand Nile Tower, Cairo, Egypt. 24-27 September, 2018.
- 11- Annual Meeting of Clinical Laboratory Research Department: Hot Topics in Laboratory Medicine, Theodor Bilharz Research Institute, Giza, Egypt, 5th March, 2019.
- 12- The 12th Annual Conference of Kafrelsheikh Liver Center "Towards Egyptian Guidelines in Hepato-Gastroenterology", Grand Nile Tower, Cairo, Egypt, 13 August- 2019.
- 13- The 3rd Annual Conference of the Egyptian Society of Organ Transplantation Organ Transplantation in Egypt: Present and Future, Grand Nile Tower, Cairo, Egypt, 4- 6 November 2019.

(f) Scientific missions:

- 1- Exempting the practical part of the PhD thesis in two semesters at Department of Chemical and Biomedical Engineering, **University of Rochester, NY, USA**, during spring and summer 2014-2015.
- 2- Attending and actively participate in 9th HOPE Meeting with Nobel Laureates in **Tokyo, Japan** February 26 to March 2, 2017. "Lecture: Process development for production of high therapeutic efficacy recombinant human growth hormone (rhGH)" and "poster: Process development for production of high therapeutic efficacy recombinant human growth hormone (rhGH) "&" Abstract: Resveratrol ameliorates oxidative stress and organ dysfunction in *Schistosoma mansoni* infected mice."
- 3- Attending and actively participate with 2 poster presentation in 12th Annual Pharma Middle East Congress in **Dubai, UAE**, 25-26 September 2017 " Sami Mohamed: Theodor Bilharz Research Institute therapeutic products and health tools".

4- Massive training on Culture CSC and non-stem cancer cells of Hepg2 hepatocarcinoma cells at **University of the Basque Country**, Department of Cell Biology and Histology, B° Sarriena sn 48940 Leioa Bizkaia, **Spain** (18th June to 5th of July 2018).

5- 13th International Conference on Genomics and Molecular Biology " Circulating Cancer Stem Cells Markers in prognostication of hepatocellular carcinoma, Sami Mohamed Nasr, Marwa Hassan, Mona Kamel Zoheiry, Eman El-Ahwany, Faten Nagy, Hoda Abu-Taleb, Mohamed Darwish, Mohamed Elzallat. " Webinar, **Italy, Rome**, May 25-26, 2020.

6- Protein characterization by MALDI-TOF and LC Ms/Ms at university of **Porto, Portugal** from October 1st to November 2nd, 2021.

(g) Courses, workshops attendance and membership of conference committee:

1- ICDL certificate, European Computer Driving License Foundation, 2008.

2- National and International Collaboration, Funding Resources and Contractual Obligations (GICO 101) in Academy of Scientific research 15-16/3/2017.

3-Preparing A Wining Proposal (GICO 100) in Academy of Scientific research 19-21/3/2017.

4- From applied scientific research to entrepreneurship, Faculty of agriculture, Cairo University. 25-26th May 2016.

5- A Guide to National and International Patent Protection, National Research center, Giza, Egypt 24th August 2016.

6- Modern global trends in the management of scientific research teams in research center, National Research center, Giza, Egypt. 19th September 2016.

7- Reference Management Workshop, National Institute for training, 9th October 2016.

8- USAID's Strengthening Entrepreneurship and Enterprise Development (SEED) Project: Market Opportunity Mapping "MOM" TTO Workshops, USAID, Egypt, November 2018.

9- Biomedical Applications of Marine and Terrestrial Microorganisms Derived Compounds, National Research center, Giza, Egypt 9th January 2019

10- Setting-UP and Running a Start-UP Company, Academy of Scientific Research and Technology, Cairo, Egypt, 6th February 2019

11- Intellectual Property: Patenting and Licensing, Egyptian Petroleum Research Institute, Cairo, Egypt, 6th March 2019

12- Biological sciences and human efforts towards development and progress, Academy of Scientific Research and Technology, Cairo, Egypt 16th March 2019.

13- Cytochrome oxidase subunit and internal transcribed spacer molecular revelation of infection with *Fasciola sp.* In field-collected *Lymnaea natalensis* snails, Theodor Bilharz Research Institute, Egypt 19th June 2019.

14- 'IP strategies' workshop, Theodor Bilharz Research Institute, Egypt, 15th December 2019

- 15-** Research Support and Technology Innovation Theodor Bilharz Research Institute, Egypt 15 February, 2016
- 16-** Introduction to Project Cycle Management Theodor Bilharz Research Institute, Egypt 6-7 March, 2016
- 17-** Innovation Research and IPR Management Theodor Bilharz Research Institute, Egypt 21st March, 2016
- 18-** "Proposal Writing GERLS" & DAAD Theodor Bilharz Research Institute, Egypt 11th May, 2016
- 19-** "Competitive Research Proposal Writing" & DAAD Theodor Bilharz Research Institute, Egypt, 2nd June, 2016
- 20-** The first Symposium within the Framework of MOU between TBRI & University of Basque Country, Spain (Epigenetics as Diagnostic, Prognostic and Therapeutic Tools in liver Diseases Theodor Bilharz Research Institute, Egypt 16-17 January, 2017
- 21-** "How to present Scientific Data" & DAAD Theodor Bilharz Research Institute, Egypt 26th April, 2017
- 22-** Linking to Industry: Meet the End User Theodor Bilharz Research Institute, Egypt 23rd May, 2017
- 23-** Interviews-Methods for Data Collection" & DAAD Theodor Bilharz Research Institute, Egypt 30th October, 2017
- 24-** "Research Processes: Overview and Principles" & DAAD Theodor Bilharz Research Institute, Egypt 31th October, 2017
- 25-** Clinical Research Methodology-Beginner Level" & EKB Theodor Bilharz Research Institute, Egypt 13 March, 2018
- 26-** "Systematic Reviews & Meta-Analysis" & EKB Theodor Bilharz Research Institute, Egypt 14 March, 2018
- 27-** Research Quality & Performance Workshop" & EKB-Clarivate Analytics Theodor Bilharz Research Institute, Egypt 10th October, 2018
- 28-** "Project Management" & DAAD Theodor Bilharz Research Institute, Egypt 22nd October, 2018
- 29-** Managing Innovation in Academia" & DAAD Theodor Bilharz Research Institute, Egypt 29th November, 2018
- 30-** "Clinical Research Methodology" & EKB Theodor Bilharz Research Institute, Egypt 25th September, 2019
- 31-** "How to get published course that includes a section on publishing ethics" & EKB-Taylor & Francis Group Theodor Bilharz Research Institute, Egypt 17 December 2019.
- 32-** First Workshop: Biotechnology in Production of Recombinant Biopharmaceutical Proteins 15 March 2022, Theodor Bilharz Research Institute as instructor.

33-Second Workshop: Biotechnology in Production of Recombinant Biopharmaceutical Proteins 31 August, 2022, Theodor Bilharz Research Institute as instructor.

6. SERVICE

(a) Service as Reviewer and editorial board member:

- Journal of Applied Pharmaceutical Science (Publisher: MediPoeia, ISSN:2231-3354) since 2017.
- Egyptian Journal of Chemistry (Publisher:National Information and Documentation Centre(NIDOC), ISSN:0449-2285) since 2018.
- Journal of Pure and Applied Microbiology (Publisher:Journal of Pure and

	Name	position	E-mail	WhatsApp & Mobile #
1	Sanaa Botros	Professor of Pharmacology at Theodor Bilharz Research Institute	sanaabotros113@gmail.com	00201008009411
2	Mosad Ghareeb	Associat professor of medicinal chemistry at Theodor Bilharz Research Institute	m.ghareeb@tbri.gov.eg	00201012346834
3	Mohamed S. Abdel-Aziz	Professor of Microbial Chemistry at National Research Center	mohabomerna@yahoo.ca	00201006333891
4	Effat Sherbiny	Professor of Microbiology at Theodor Bilharz Research Institute	effatmahmoud256@gmail.com	00201006698419

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