

PERSONAL DETAILS

Name: Haysam Mohamed Magdy Ahmed
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Nationality: Egyptian
Gender: Male

**EDUCATION**

01/2014 – present University of Calabria, Cosenza, Italy
PhD. in Sciences and Engineering of Environment, Construction and Energy in the Department of Environmental & Chemical Engineering. Research focuses on developing a **prototype for a Bioartificial Liver device**.

10/2010 – 12/2012 Martin Luther University, Halle-Wittenberg (MLU), Halle, Germany
MSc. in Pharmaceutical Biotechnology in the Institute of Pharmacy. Graduated top of my class with a GPA of 1.3.

Thesis: Investigations on the purification of recombinant human tropoelastin from Escherichia coli.

09/2004 – 07/2009 Alexandria University, Alexandria, Egypt
BSc. in Pharmaceutical Sciences in the faculty of pharmacy. Graduated in the top 3% of the class with a distinction honors degree.

GRANTS

2013 - present Marie Skłodowska-Curie Fellowship (Early Stage Researcher)

RESEARCH EXPERIENCE

05/2012 –12/2012 Institute of Membrane Technology (CNR-ITM), Cosenza, Italy
Advisor: Dr. Loredana De Bartolo
Currently developing a Bioartificial Liver device prototype consisting of a hollow-fiber membrane bioreactor optimized for sustaining primary human hepatocytes functional for prolonged periods of time. Another aspect of the work focuses on the differentiation of liver-derived mesenchymal stem cells into hepatocytes in the aforementioned bioreactor. Work involves Bioreactor assembly and operation, Functional analysis assays (ELISA, HPLC), Imaging (CLSM, SEM) and RT-PCR.

05/2012 –12/2012 MLU — Institute of Pharmacy, Halle, Germany
Advisor: Prof. Dr. M. Pietzsch
Explored different downstream processing purification techniques to purify recombinant Tropoelastin from E.coli. This work involved the downstream processing of recombinant tropoelastin produced in E.coli. Highly pure tropoelastin was obtained as a result of that work which was later used in a subsequent project to realize artificial skin. Techniques used include HPLC, SDS-PAGE, MALDI-TOF MS.

10/2011 – 04/2012 MLU – Institute of Biochemistry and Biotechnology, Halle, Germany
 Project work in upstream processing in the lab of Dr. Norbet Volk.
 Modelling and optimization of the post-inductive phase of the fermentation

of recombinant *E. coli* for optimized tropoelastin production. Techniques used include Biostat C[®] 20 liter fermenter assembly and operation, MFCS programming and Berkeley Madonna simulation.

Presentations

H. M. M. Ahmed, S. Salerno, L. De Bartolo; Liver microtissues in hollow-fiber membrane systems; Tissue Engineering and Regenerative Medicine International Society; Uppsala, Sweden; June 30, 2016.

H. M. M. Ahmed, S. Salerno, L. Giorno, L. De Bartolo; Human organotypic liver microtissue formation in a hollow-fiber membrane bioreactor; World Conference on Regenerative Medicine; Leipzig, Germany; October 21, 2015.

Publications

H. M. M. Ahmed, S. Salerno, L. De Bartolo; 3D liver membrane system by co-culturing human hepatocytes, sinusoidal endothelial and stellate cells; Journal of Tissue Engineering and Regenerative Medicine; Submitted.

H. M. M. Ahmed, S. Salerno, L. De Bartolo; Liver microtissues in hollow-fiber membrane systems; 2016; European Cells and Materials 31 (1), 22.

S. Morelli, S. Salerno, H. Ahmed, A. Piscioneri and L. De Bartolo; Recent Strategies combining biomaterials and Stem Cells for Bone, Liver and Skin Regeneration; 2016; Curr Stem Cell Res Ther.

H. M. M. Ahmed, S. Salerno, L. Giorno, L. De Bartolo; Human organotypic liver microtissue formation in a hollow-fiber membrane bioreactor; Regenerative Medicine; 2015; Vol. 10 No. 07s; 12.

INTERNSHIPS AND TRAINING

02/2015 - 03/2015 Universität Leipzig – BBZ, Leipzig, Germany
 Secondment on iPSC culture and hepatogenic differentiation under supervision of Prof. Dr. Augustinus Bader

07/2009 European Egyptian Pharmaceuticals, Alexandria, Egypt
 Internship in Research and Development department.

07/2008 Amriya Pharmaceuticals, Alexandria, Egypt
 Rotation in the different departments of the company including QA, QC, research and development, production and storage.

WORK EXPERIENCE

08/2009 – 06/2010 Elham Al-Dasher Pharmacy, Alexandria, Egypt
 Title: Community Pharmacist
 Duties: Dispensing drugs, providing consultation for patients regarding the administration of the drugs as well as any adverse effects that may occur and possible drug-drug interactions.

SOFT SKILLS

Languages: **Arabic:** Functionally Native Proficiency
 English: Advanced Professional Proficiency
 Italian: Limited Working Proficiency

Computer skills: Proficiency in Microsoft office (mainly word processing, spreadsheet and PowerPoint presentation)

OTHER COURSES

ICDL

TOEFL IBT: 110/120

GRE: Verbal reasoning 460/800, Quantitative reasoning 760/800, Analytical writing 4/6.

Activities

- Member, Marie Curie Alumni Association, 2016 – Present.
- Member, Tissue Engineering and Regenerative Medicine International Society, 2014 – Present.
- Member, International Society for Stem Cell Research, 2014 – 2015.

REFERENCES AVAILABLE ON REQUEST