

Curriculum Vitae

Education

1997-2002 **Doctor of Philosophy**, College of Pharmacy, Oregon State University, Corvallis, OR 97331
Major Professor: Dr. James W. Ayres
Course Concentration: Biopharmaceutics, Pharmacokinetics.

Minor in Statistics

1988-1991 **Master of Pharmaceutical Sciences**, Faculty of Pharmacy, Cairo University. Master's thesis project was titled "Dissolution Enhancement of Certain Anti-Cancer Drugs".

1981-1985 **Bachelor of Pharmaceutical Sciences**, Faculty of Pharmacy, Cairo University, May 1985. Grade: Excellence with Honors.

Professional Affiliations

1986-Now Egyptian Syndicate of Pharmacists
1990-Now The Egyptian Pharmaceutical Society
1998-Now American Association of Pharmaceutical Scientists (AAPS)

Career Highlights

Twenty-five years of diversified experience at the national and international levels in:

- Teaching, scientific research, and academic collaboration with world universities;
- Project design, formulation development of an oral protein delivery system and management of clinical trials, Allergan, Inc., South San Francisco;
- Joint-scientific and research collaboration on development of innovative drug delivery systems, Oregon State University-GlaxoSmithKlein, RTP, North Carolina;
- Consultancy at CBiC Co., Egypt, in the training and development section. Preparing and teaching courses that cover various technical issues in the drug industry;
- Organizing and teaching workshops in drug stability and bioequivalence.
- Presentation of scientific papers in many national and international conferences;
- Head of department of pharmaceutics & pharmaceutical technology at the College of Pharmacy, University of Sharjah.
- International scientific collaboration with Toyama University, Japan and University of Montreal, Canada.
- Professor in the Department of Pharmaceutics, Faculty of Pharmacy, Cairo University since 2014.

Positions Held in Professional Societies

Iman Saad Ahmed, Ph.D.
Associate Professor of Pharmaceutics, Biopharmaceutics & Pharmacokinetics
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- 1986-1991 Teaching Assistant of Pharmaceutics, Cairo University;
1991-1995 Lecturer of Pharmaceutics, Cairo University;
1997-2001 Graduate Research and Teaching Assistant, Oregon State University;
2001-2002 Intern at Allergens, Inc. South San Francisco;
2002-2007 Assistant Professor of Biopharmaceutics & Pharmacokinetics, Cairo University;
2007-2008 Associate Professor of Pharmaceutics, Faculty of Pharmacy, Cairo University;
2007-To Date Associate Professor of Pharmaceutics, College of Pharmacy, University of Sharjah
2009-2011 Head of Department of Pharmacology & Pharmaceutics, College of Pharmacy, University of Sharjah;
2012-2017 Head of Department of Pharmaceutics & Pharmaceutical Technology, College of Pharmacy, University of Sharjah;
2014- To Date Professor of Pharmaceutics, Faculty of Pharmacy, Cairo University;
2007- To Date Member of the Editorial Board of the Journal of Clinical Pharmacology & Pharmacoepidemiology, Toronto, Canada (www.e-printedreasons.com/JCPPE.html).
2009- To Date Member of the Editorial Board of the Journal of Excipients and Food Chemicals, <http://spapte.dyndns.org/ojs/>

Research Work

- General Pharmaceutics and Biopharmaceutics
- Enhancement of bioavailability of anti-cancer drugs;
- Drug absorption, disposition and bioequivalence studies;
- Pharmacokinetics/Pharmacodynamic studies;
- Oral delivery of protein drugs;
- Development and in-vivo evaluation of novel gastric retention formulations;
- Development and in-vivo evaluation of enzyme-susceptible coated beads to deliver drugs selectively to the colon;
- Development of fast-dissolving new lyophilized oral dosage forms;
- Pharmacokinetics modeling.
- Effect of drug-loaded nanoparticles size on PK and PD profiles of drugs following oral administration.

Conferences

Participated in the following conferences and presented papers on relevant subjects of the conferences:

- **Iman S. Ahmed**, Marwa M. Abd-Rabo, Lobna F. Wahman, Rania El Hosary. High-Fat Diet Induced Alteration in Lipid Enzymes and Inflammation in Cardiac and Brain Tissues: Assessment of the Effects of Atorvastatin-Loaded Nanoparticles. 46th CRS Annual Meeting & Exposition. July21-24, 2019, **Valencia**, Spain.

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- Member of the organizing committee for the "The Fifth International Arab Conference on Quality Assurance in Higher Education (IACQA'15)". University of Sharjah. 3-5 March, 2015, **Sharjah**, UAE.
- Sarem S., F. Nekka, **Iman S. Ahmed**, C. Litalien, J. Li, Impact of Sampling Time Deviations on Prediction of AUC Using Limited Sampling Strategies. Poster, The fifth American Conference on Pharmacometrics. 12-15 October 2014, **Las Vegas**, Nevada, USA.
- **Iman S. Ahmed**, Rania El Hosary, Samia Shalaby, Samia Nour. Preparation and in-vitro evaluation of poly-ε-caprolactone nanoparticles containing atorvastatin calcium. 5th International Conference on Nanotechnology: Fundamentals and Applications. 11-13 August 2014, **Prague**, Czech Republic,.
- **Iman S. Ahmed**. First International Conference of Personalized Medicine and Targeted Therapies in Cancer. 31/1-2/2, 2013. University of Sharjah, **Sharjah**, UAE.
- Mariame A. Hassan, **Iman S. Ahmed**, Paul Campbell, Takashi Kondo. Enhanced gene transfection using Calcium Phosphate Co-precipitates and Low-Intensity Pulsed Ultrasound. The 39th CRS Annual Meeting and Exposition, July 15-18, 2012, **Quebec City**, Canada.
- **Iman S. Ahmed**. The first technosphere 2012 conference. The 14th annual congress of the scientific association of colleges of pharmacy in the arab world and the second international conference of AUST college of pharmacy and health sciences "A new vision of the future of pharmacy education & practice". Ajman University of Science and Technology. February 7-9, 2012, **Ajman**, UAE.
- Mohamed A. El-Nabarawi, Aman M.A. Makky, **Iman S. Ahmed**, Rehab A. Abd El-Moneim. Effect of drug nature on certain pharmaceutical properties. 2011 AAPS Annual Meeting and Exposition. October 23-27, 2011 in **Washington D.C.**, USA.
- H. El Laithy, **Iman .S. Ahmed**. Nano deformable flexible biodegradable vesicles for transdermal delivery. International Conference on Nanotechnology: Fundamentals and Applications. 4-6 August 2010, **Ottawa**, Ontario, Canada.
- Mohamed A. El-Nabarawi, Aman M.A. Makky, **Iman S. Ahmed**, Rehab A. Abd El-Moneim. Improving of Carvedilol properties using Inutec SP1. 13th Conference for the Pan Arabian Conference for the Colleges of Pharmacy of the Assembly of Arab Universities (AARU). May 25-27, 2010, **Cairo**, Egypt.
- Mohamed A. El-Nabarawi, Aman M.A. Makky, **Iman S. Ahmed**, Rehab A. Abd El-Moneim. Modification of Carvedilol properties using solid dispersions with Inutec SP1. 2009 AAPS Annual Meeting and Exposition in **Los Angeles**, CA.

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- R. Soukri, **Iman S. Ahmed**, R. Shama. In vitro and in vivo evaluation of nimuselide lyophilized orally disintegrating tablet. 36 th CRS Annual Meeting & Exposition. July18-22, 2009, **Copenhagen**, Denmark.
- **Iman S. Ahmed**, A. Bakheet, D. Shaker, and M. Almallah. In vitro dissolution studies of metformin commercial tablets. Dubai International Pharmaceuticals & Technologies Conference (Duphat), 2009, **Dubai**, UAE.
- **Iman S. Ahmed**, F. Abdelgadir, M. Abdelnaser, M. Abdeljawad, S. Bawazir and M. Almallah. A comparative study between omeprazole tablets and capsules. Dubai International Pharmaceuticals & Technologies Conference (Duphat), 2009,**Dubai**, UAE.
- The first conference for pharmaceutical industrial development and improvement of medical service in Egypt. 4-5 January 2009, **Cairo**, Egypt.
- Certificate of Continuing Education. Dubai International Pharmaceuticals & Technologies Conference & Exhibition. DUPHAT, March11-12, 2008, **Dubai**, UAE.
- R. Soukri, **Iman S. Ahmed**, R. Shama. Evaluation of a fast-disintegrating lyophilized tablet of nimuselide. 3rd International Conference of Pharmaceutical and Drug Industries Division under the theme of "Research and Development in Drugs: Future Trends". March 6-8, 2007,**Cairo**, Egypt.
- **Iman S. Ahmed** and M. H. Aboul-Elenien. In vitro and in vivo evaluation of a fast-disintegrating lyophilized dry emulsion tablet containig griseofulvin. The Egyptian Pharmaceutical Society XXX Conference of Pharmaceutical Sciences. 2006, **Cairo**, Egypt.
- **Iman S. Ahmed**, M.M. Nafadi , and F.A. Fatahalla. Formulation of a fast-dissolving Ketoprofen lyophilized tablet as a novel dosage form. 65th International Congress of FIP. *Cairo*, 2005.

Honors

- The Sharjah Islamic Bank Award 2017/2018 for Distinguished Research (AED 6000).
- Annual Incentive Award for distinguished faculty members in the category of "Teaching" for the academic year of 2016/2017, University of Sharjah (AED15,000).
- Certificate of Appreciation for participating in the organization of "The Fifth International Arab Conference on Quality Assurance in Higher Education (IACQA'15)" which was held at the UOS, 3-5 March, 2015.
- Annual Incentive Award for distinguished faculty members in the category of "Teaching" for the academic year of 2012/2013, University of Sharjah (AED15,000).

- Global Medical Discovery Series has included my publication “Comparison of in vitro and in vivo performance of a colonic delivery system” as being of especial interest to the drug development sector.
- The publication “Comparison of in vitro and in vivo performance of a colonic delivery system” has also been included in Labome.org, a professional platform where researchers can present their expertise to the public and the public can search for experts on specific topics.
- Best published paper award by the Faculty of Pharmacy, Cairo University 2010 for the paper “*I.S. Ahmed, M. H. Abouel-Einien, O. H. Mohamed, S. F. Farid. Relative bioavailability of griseofulvin lyophilized dry emulsion tablet vs. immediate release tablet: A single-dose, randomized, open-label, six-period, crossover study in healthy adult volunteers in the fasted and fed states (2008). Eur. J. Pharm. Sci. 35, 219-225*”.
- Certificate of Appreciation for participating in organizing "The 5th Annual Scientific Pharmacists 'Day" by the Sharjah Medical District in collaboration with the College of Pharmacy, University of Sharjah and the Pharmacy section at the Emirates Medical Association held on April 28th 2009 at the University of Sharjah & Health Sciences Colleges.
- Certificate of Appreciation for organizing the multi-professional education committee day held on April 7th 2009, at Health Sciences Colleges, University of Sharjah.
- Certificate of Appreciation from Cairo University for outstanding contribution to the publication of papers done in Cairo University in international journals (2008).
- Certificate of Appreciation from Faculty of Pharmacy, Cairo University for the outstanding performance and contribution to the workshop held in the Faculty of Pharmacy in October, 2007 on "Stability Testing to Support Pharmaceutical Industry in Egypt".
- Certificate of Recognition from the Faculty of Pharmacy, Cairo University for the active participation in the seminar held in the Faculty of Pharmacy in February, 2007 under the theme of "New Trends in Scientific Research and their Role in Health Promotion".
- The 2001 College of Pharmacy Graduate Retreat Award for best podium presentation (\$300.00), OSU, OR, USA.
- The 1999 College of Pharmacy Graduate Retreat Award for best podium presentation (\$150.00), OSU, OR, USA.
- Award of Excellence from 1999 Annual Sigma Xi Student Research Poster Competition (\$300.00), OSU, OR, USA.

Professional Training

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- March 26, 2018 Workshop “Flipped Classes Techniques” organized by the Institute of Leadership in Higher Education by Prof. Abdel Rahman Al-Mekhlafi, M-11, UOS, March 26-28, 2018.
- October 9, 2017 Workshop “Development of Innovation, Entrepreneurship, Start-up, Spinn off, Incubation and Acceleration” organized by the Center for Continuing Education and Professional Development in collaboration with University of Malaga – Spain & European Association EBN , M-11, UOS, October 9-11, 2017.
- May 1, 2017 Workshop “Promoting Deep Learning using Internet Technologies” at the Institute of Leadership in Higher Education (ILHE) by Prof. Derek Bruff, Director, Center for Teaching, Vanderbilt University, USA <http://cft.vanderbilt.edu>
- February 2, 2017 Workshop “Course Design”. Instructor: Prof. Jeffrey E. Froyd, organized by the Institute of Leadership in Higher Education, M-25 Medical Campus, UOS.
- February 1, 2017 Workshop “Designing an Instructional Plan Incorporating Research-based Instructional Strategies”. Instructor: Prof. Jeffrey E. Froyd, organized by the Institute of Leadership in Higher Education, M-25 Medical Campus, UOS.
- January 31, 2017 Workshop “Developing a Course Assessment Plan”. Instructor: Prof. Jeffrey E. Froyd, organized by the Institute of Leadership in Higher Education, M-25 Medical Campus, UOS.
- March 3, 2015 Participated in delivering a workshop on "Students Learning Outcomes and Assessment" as part of the activities of "The Fifth International Arab Conference on Quality Assurance in Higher Education", March 3, 2015, UoS.
- March 3, 2015 Participated in delivering a workshop on "Self-Studies of Academic Programs" as part of the activities of "The Fifth International Arab Conference on Quality Assurance in Higher Education", March 3, 2015, UoS.
- January 11, 2014 Workshop in "Item Writing" Ideal Consortium shared medical student assessment banks. Venue: College of Medicine, Room 109, 11-12 January, 2014.

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- May 23, 2012 Workshop in "Introduction to Standards 2011 and Pitfalls in preparing the self-study reports., University of Sharjah, Sharjah, UAE.
- December 10, 2011 Workshop in "Leadership in Higher Education" Medical campus, Clinical training center, University of Sharjah, Sharjah, UAE.
- December 14, 2010 Workshop in "Intellectual Property and Technology Commercialization. Guidance for University Inventors" organized by The Emirates Foundation's Science, Technology and Environment Programme. University of Sharjah, Sharjah, UAE.
- January, 2010 Training workshop in "Outcomes Based Assessment in Higher Education Institutions" organized by the Commission for Academic Accreditation in Co-operation with the British Council, University of Ajman, Ajman, UAE.
- September 16, 2010 Training workshop in "Revisiting Team-based learning (TBL) in medical & health science education" held on the Medical & Health Sciences Colleges Complex, University of Sharjah, Sharjah, UAE.
- November, 2009 Training workshop in "Team-based learning (TBL) in medical and health science education" held on the Medical & Health Sciences Colleges Complex, University of Sharjah, Sharjah, UAE.
- May, 2009 Attendance of the first "Pharmacy Educational Forum" held on the Medical & Health Sciences Colleges Complex, University of Sharjah, Sharjah, UAE.
- March, 2009 Training workshop in the "Quality, Standards & Accreditation in Health Profession Education", Medical & Health Sciences Colleges, Faculty Development Program, University of Sharjah, Sharjah, UAE.
- February, 2009 Attendance of "The Middle East Tableting Science Seminar" presented by Gulf Pharmaceutical Products and I Holland Ltd in partnership with Colorcon, Glatt, Korsch and Molecular Profiles, Dubai, UAE.
- May, 2008 Training workshop in 'Basic of GMP & GLP'. Pharmaceutical Services Corporation (USA) held in Sharjah University, Sharjah, UAE.

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- June, 2001 WinNonlin Professional Hands-on Training. Pharsight, Ottawa, ON, Canada.
- November, 2000 Training in the safe use of unsealed radioisotopes, Oregon State University, Corvallis, OR.

Travel and Residence Abroad

- Summer 2013 Foreigner visiting researcher in the Department of Pharmacometrics, Faculty of Pharmacy, University of Montreal, Montreal, Canada. (Chairman: Professor/Fahima Nekka). Research title: “Construction of Pop-PK models for methylphenidate to describe its pharmacokinetic profile when given in combined immediate release and controlled release doses”.
- Summer 2011 Visiting researcher in the Department of Radiological Sciences, Graduate School of Medicine and Pharmaceutical Sciences, University of Toyama, Toyama, Japan. (Chairman: Professor/Takashi Kondo). Research title: “Sonotransfection as a tool in cancer therapy; Optimization and possible application in multidrug resistance”.
- 2008-To Date Visiting Associate Professor, Associate Professor, Head of Department of Pharmacology &Pharmaceutics, Head of Department of Pharmaceutics & Pharmaceutical Technology, College of Pharmacy, University of Sharjah, Sharjah, UAE.
- 1997-2002 Study/Research/Internship in USA

Publications

Numerous in the fields of Pharmaceutics, Biopharmaceutics and Pharmacokinetics published in national and international journals (see attached).

Language Proficiency

Arabic (mother tongue), English (fluent) and French (fluent).

PUBLICATIONS

1. Carol Yousry, **Iman S. Ahmed**, Maha M. Amin and Omaima N. El Gazayerly. Superhydrophobic Substrates for Ultrahigh Encapsulation of Hydrophilic Drug into Controlled Release Polyelectrolyte Complex Beads: Statistical Optimization and *In Vivo* Evaluation (2019). *Pharmaceutics*, 11 (6), 257.
<https://doi.org/10.3390/pharmaceutics11060257>
2. Mohamed Haider, Mariame A. Hassan, **Iman S. Ahmed**, Reham Shamma. Thermogelling platform for baicalin delivery for versatile biomedical applications (2018). *Mol. Pharm.* 15 (18), 3478-3488.
3. **Iman S. Ahmed**, Rania EL-Hosary, Mariame Hassan, Mohamed Haider, Marwa M. Abd-Rabo. Efficacy and Safety Profiles of Oral Atorvastatin-Loaded Nanoparticles: Effect of Size Modulation on Biodistribution (2018). *Mol. Pharm.* 15 (11), 247-255.
4. **Iman S. Ahmed**, Rania EL-Hosary, Samia Shalaby, Marwa M. Abd-Rabo, Dalia G. ElKhateeb, Samia Nour . PD-PK Evaluation of Freeze-dried Atorvastatin Calcium-Loaded Poly- ϵ -Caprolactone Nanoparticles (2016). *Int. J. Pharm.* 504, 70-79.
5. Sarem S, Nekka F, **Ahmed IS**, Litalien C, Li J. Impact of sampling time deviations on the prediction of the area under the curve using regression limited sampling strategies (2015). *Biopharm. Drug Dispos.* 36 (7), 417-428.
6. **Iman S. Ahmed**, Mariame A. Hassan, Takashi Kondo. Effect of lyophilized grapefruit juice on P-glycoprotein-mediated drug transport in-vitro and in-vivo (2015). *Drug Dev. Ind. Pharm.* 41 (3), 375-381.
7. **Iman S. Ahmed**, Rania El Hosary, Samia Shalaby, Samia Nour. Preparation and in-vitro evaluation of poly- ϵ -caprolactone nanoparticles containing atorvastatin calcium (2014). *J. Pharm. Res. Opinion* 4 (1), 8-18.
8. **I.S. Ahmed**, R.N. Shamma, R.A. Shoukri. Development and optimization of lyophilized orally disintegrating tablets using factorial design (2013). *Pharm Dev Technol.* 18(4), 935-943.
9. Mariame A. Hassan, **Iman S. Ahmed**, Paul Campbell, Takashi Kondo. Enhanced gene Transfection using Calcium Phosphate Co-precipitates and Low-Intensity Pulsed Ultrasound (2012). *Eur. J. Pharm. Sci.* 47, 768– 773.
10. A. M. Makky, **I.S. Ahmed**, M.A. El-Nabarawi, R.A. Abd-El-Moneim. Development of a new carvedilol tablet with rapid onset of action (2012). *Am. J. Drug Discov. Dev.* 2(2), 55– 71.
11. **I.S. Ahmed** and J.W. Ayres. Comparison of in vitro and in vivo performance of a colonic delivery system (2011). *Int. J. Pharm.* 409, 169– 177.
12. H. El Laithy, **I.S. Ahmed**. Nano deformable flexible biodegradable vesicles for transdermal delivery. Proceedings of the International Conference on Nanotechnology: Fundamentals and Applications. Ottawa, Ontario, Canada, 4– 6 August 2010. Paper No. 411.

13. R.A. Shoukri, *I.S. Ahmed*, R.N. Shamma. In vitro and in vivo evaluation of nimesulide lyophilized orally disintegrating tablets (2009). *Eur. J. Pharm. Biopharm.* 73, 162– 171.
14. *I.S. Ahmed*, M. H. Abouel-Einien, O. H. Mohamed, S. F. Farid. Relative bioavailability of griseofulvin lyophilized dry emulsion tablet vs. immediate release tablet: A single-dose, randomized, open-label, six-period, crossover study in healthy adult volunteers in the fasted and fed states (2008). *Eur. J. Pharm. Sci.* 35, 219– 225.
15. *I.S. Ahmed* and J.W. Ayres. Bioavailability of riboflavin from a gastric retention formulation (2007). *Int. J. Pharm.* 330, 146– 154.
16. *I.S. Ahmed* and F.A. Fatahalla. Pilot study of relative bioavailability of two oral formulations of ketoprofen 25 mg in healthy subjects. A fast-dissolving lyophilized tablet as compared to immediate release tablet (2007). *Drug Dev. Ind. Pharm.* 33, 505– 511.
17. *I.S. Ahmed* and M. H. Abouel-Einien. In vitro and in vivo evaluation of a fast-disintegrating lyophilized dry emulsion tablet containing griseofulvin (2007). *Eur. J. Pharm. Sci.* 32, 58– 68.
18. *I.S. Ahmed* and M. H. Abouel-Einien. Solid state characterization and in vitro evaluation of prednisolone inulin-glass based solid dispersions by lyophilization (2007). *Bull. Fac. Pharm. Cairo Univ.* 45, 115– 130.
19. S.A. Elkheshen, *I. S. Ahmed*, M. H. Abouel-Einien, M.A. Hassan. In vitro and in vivo evaluation of controlled release buccoadhesive disks of timolol maleate (2007). *Egypt. J. Biomed. Sci.* 23, 196– 217.
20. *I.S. Ahmed*, M.M. Nafadi, F.A. Fatahalla. Formulation of a fast dissolving ketoprofen tablet using freeze drying in blisters technique (2006). *Drug Dev. Ind. Pharm.* 32, 437– 442.
21. *I.S. Ahmed*. Effect of simulated gastrointestinal conditions on drug release from pectin/ethylcellulose as film coating for drug delivery to the colon (2005). *Drug Dev. Ind. Pharm.* 31, 465– 470.
22. *I.S. Ahmed*. The effect of different coating formulations on the percentage load of short ragweed pollen extract on sugar spheres using a spray coating technique (2005). *Egypt. J. Pharm. Sci.* 46, 55– 64.
23. M.S. Adel, A.S. Genedi, R.A. Shoukri, *I.S. Ahmed*. In vitro evaluation of flutamide-carrier systems, Part I: Preparation and evaluation of flutamide systems with polyvinyl pyrrolidone and polyethylene glycol 4000 and 6000 (1997). *Pharmazie*, 52, 373– 375.
24. M.S. Adel, A.S. Genedi, R.A. Shoukri, *I.S. Ahmed*. In vitro evaluation of flutamide-carrier systems, Part II: Preparation and evaluation of flutamide systems with α -cyclodextrin and β -cyclodextrin (1997). *Pharmazie*, 52, 470– 472.

Research Grants

1. Iman Saad Ahmed (PI), Mohamed Haider, Mariame Ali, Rania El Hosary. Size-tailored polymeric nanoparticles for targeted drug delivery to the liver or blood. UOS Competitive Research Grant # 1801110228, October 2018, AED 80,000.
2. Mohamed Haider (PI), Iman Ahmed, Mariame Ali. Controlled release of tyrosine kinase inhibitors-loaded nanoparticles from thermosensitive injectable hydrogel scaffolds. Al Jalila Foundation Research Grant # AJF201777, February 2017, AED 300,000.
3. Mariame Ali (PI), Mohamed Haider, Iman Ahmed. In vitro and in vivo optimization of in-situ 3D-thermogel scaffolds for different therapeutic applications. UOS Competitive Research Grant, October 2015, AED 80,000.