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## Islam M. Hamad

Education		School of Pharmacy, University of Brighton, Brighton-UK. Ph.D. in Pharmaceuticals ork: Nanomedicines and molecular basis of complement n.	
	<b>Feb 2003</b> Peneng-Mal	School of Pharmacy, University Science Malaysia, aysia.	
	Masters in Pharmaceuticals		
		<b>Project work:</b> Design and in-vivo assessment of novel Testosterone implants	
	Aug 1998 Jordan	School of Pharmacy, Philadelphia University, Amman-	
	Jordan	Bachelor of Pharmacy	
		Acquiring knowledge of Pharmacology, Pharmaceutics,	
		Medicinal Chemistry, Pharmacognosy, Biotechnology and	
		Microbiology	
	Jul 1994	GCSE- Science, Al Hussein College, Jordan.	
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Research Interest	<ul> <li>Rational systems.</li> </ul>	design and biological evaluation of parentral drug delivery	
	Blood opsonitation events		
	<ul> <li>Adjuvant therapy and design of cancer vaccines</li> </ul>		
Professional experience	School of Pl ighton,	harmacy and biomolecular Sciences, University of Brighton, UK.	
	As a part-time lecturer/demonstrator (2004-2008).		
	Job Profile:	- Teaching and/or demonstrating:	

► Pharmaceutical dosage forms (Formulation of semisolid dosage form, Pre-Formulation Studies of different projects,..etc)

- Drug delivery systems and drug targeting
- Prepare a small scale batch for clinical and in-vitro

 Physical testing of finished batch product (Quality Control Assessment)

A member of Molecular Targeting and Polymer Toxicology, Brighton Uni, RESEARCH UK. **ACTIVITIES** • Rational design and surface-engineering of particulate drug delivery systems (e.g., liposomes, polymeric nanoparticles) for site-specific targeting of drugs. Particulate vaccines and adjuvant therapy • Immunological reactions (e.g., complement activation and associated responses) to synthetic polymeric materials used in particulate and tissue engineering as well as drug solubilization Novel controlled-release dosage forms Hamad I and Moghimi SM (2008). Critical issues in site-specific targeting of solid **Patents and** tumours; the carrier, the tumour and the bioavailable drug. Expert publications Opinion on Drug Delivery. 5: 205–219. • Moghimi SM, Hamad I, Andresen T, Jørgensen K, Szebeni J (2006). Methylation of the phosphate oxygen moiety of phospholipidmethoxy(polyethylene glycol) conjugate prevents PEGylated liposomemediated complement activation and anaphylatoxin production. FASEB J. 20:E2057–E2067. Moghimi SM, Hamad I, Bunger R, Anderson TL, Jørgensen K Hunter AC, Baranji L, Rosivall L, Szebeni J (2006). Activation of the human complement system by cholesterol-rich and PEGylated liposomes-modulation of cholesterol-rich liposome-mediated complement activation by elevated serum LDL and HDL levels. Journal of Liposome Research. 16(3):167-74. • S Moein Moghimi, Islam Hamad & A Christy Hunter (2007). Particulate nanomedicine in the footsteps of platelet homing: Evaluation of: Simberg D, Duza T, Park JH *et al.*: Biomimetic amplification of nanoparticle homing to tumors. Nanomedicine. 2, (3): 381-384.

• Moghimi, S. M. and **Hamad, I.** (2008) Hypersensitivity reactions to nanomedicines: Causative factors and optimization of design parameters. In: *Allergy Frontiers: from Epigenetics to Future Prespectives* (R. Pawankar, S. Holdgate, L. J. Rosenwaser, eds.). Springer Japan KK, Tokyo (in press).

• Moghimi, S. M. and **Hamad, I.** (2008) Factors controlling pharmacokinetics of intravenously injected nanoparticles. In: *Biotechnology: Pharmaceutical Aspects, Nanotechnology in Drug Delivery* (M. M. de Villiers, G. S. Kwon, eds.). Springer Science (in press).

• I Hamad, AC Hunter, J Szebeni, SM Moghimi (2008). Poly(ethylene glycol)s generate complement activation products in human srum through increased alternative pathway turnover and a MASP-2-dependent process. Molecular immunology, in press.

• Islam Hamad, A. Christy Hunter, Kenneth J. Rutt, Zhuang Liu, Hongjie Dai, and S. Moein Moghimi. (2008). Complement Activation by PEGylated Single-Walled Carbon Nanotubes is Independent of C1q-Dependent Classical and Alternative Pathways. Molecular immunology, in press.

• Moghimi SM and **Hamad I.** Complement activation by polymers and polymeric constructs. New frontiers in nanomedicine Conference. London UK. Oct 15-15<sup>th</sup> 2007.

• Moghimi SM and **Hamad I.** Liposome advances, progress in drug and vaccine delivery. 3<sup>rd</sup> International Liposomes society meeting. School of Pharmacy, London University. UK. 8 -11<sup>th</sup> Dec 2007.

• Hamad I, Hunter AC, Moghimi SM. Complement activation by the thermosensitive block co-polymer poloxamer 407: Implications in vascular medicines. Lipid disorders. Gladstone institute of cardiovascular diseases. SF, California USA. Jan 31-feb 2 (2008).

• Moghimi, S. M. and **Hamad**, I. (2008) Liposome-mediated triggering of complement cascade. (2008). *Journal of Liposome Research*, 18:195–209.