

## Curriculum Vitae

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**Address:** Nanotechnology Department (Building 70),  
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### 1) Personal Information:

<b>Surname:</b>	AREF	<b>First name:</b>	AMIRREZA
<b>Gender:</b>	Male		
<b>Martial Status:</b>	Single		
<b>Nationality:</b>	Iranian		
<b>Date of Birth:</b>	year: 1978	month: 5	day: 20
<b>Place of Birth:</b>	Tehran		
<b>Occupation:</b>	PhD Student in Nanobiotechnology & Nanomaterials		

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### 2) Education background:

Degree	Major	University	Date
BSc	Applied Chemistry	Azad University (Iran)	1996-2000
MSc	Analytical Chemistry	Coventry University (UK)	2004-2005
PhD	Nanobiotechnology	Cranfield University (UK)	2005-Now

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### 3) Membership of Society:

- The student membership of international society for stem cell research (ISSCR). [www.ISSCR.org](http://www.ISSCR.org)
  - The student membership of Institute of Nanotechnology, [www.nano.org.uk](http://www.nano.org.uk)
  - The membership of Iranian Nanotechnology Society. [www.nanosociety.ir](http://www.nanosociety.ir)
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### 4) Research Experience & Attended Professional Courses:

1. **Attachment and spreading kinetics of stem cells using optical waveguide lightmode spectroscopy**, Department of Materials, Nanotechnology Centre, Cranfield University, UK (Under supervision of Professor Jeremy Ramsden, November 2006-Present).

2. **Molecular Electronics (Rectification of Organic Molecules, Nanomaterials)**, Department of Presses, School of Engineering, Cranfield University, UK (Under supervision of Professor Geoffry Ashwell, October 2005-November 2006).
  3. **Extraction and analysis of anti-inflammatory agents from blueberries**, Department of Chemistry, School of Science, Coventry University, UK (Under supervision of Professor Tim Mason, October 2004-October 2005).
  4. **Quantum Chemistry Calculation course (10 Credit)** Department of Theoretical Chemistry, Faculty of Chemical Science, Gutenberg University, Gutenberg, Sweden (Jan. 2003-Sept. 2003).
  5. **Molecular Modelling and Computer Assisted course (10 credit)**, Department of Theoretical Chemistry, Faculty of Chemical Science, Gutenberg University, Gutenberg, Sweden (Sept. 2002-Jan. 2003).
  6. **Metal corrosion and its Effect on Environment**, Department of Chemistry, Faculty of Science, Sharif University of Technology, Tehran, Iran (Under supervision of Professor Reza Mostaghim, September 2000-2001).
  7. **Colorless of Date Molasses with Resins**, Department of Chemistry, Faculty of Science, Sharif University of Technology, Tehran, Iran (Under supervision of Professor Reza Mostaghim, September 1999-2000).
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#### 5) *Skills & Other Interests:*

**Languages:** Persian (Native), English (Fluent), Swedish (Good).

**Computer Skills:** Microsoft Office, Chem Drew, Origin.

- Molecular Electronics (STM, QCM, LB films, SAMs, AFM)
- Modify of Nanosurfaces and nanotextured
- Optical Systems (OWLS, SPR)
- Cellular and molecular aspects of differentiation of Stem Cells
- Transplantation and cell therapy of Stem Cells

#### *Other interests:*

- Reading books and Poetry
  - Reading newspapers ,e.g., Guardian or any other quality papers
  - Playing tennis, swimming and doing exercise to keep fit.
  - Playing music, e.g., Setar (traditional instrument)
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#### 7) *Publications:*

1. Ashwell, G. J.; Mohib, A.; Robinson B. J.; Collins, C.; **Aref, A.**; Amiri, M. Molecular Diodes: Confirmation of the Molecular Origin of Rectification by Different Experimental Techniques and Chemical Suppression the Electrical Asymmetric. *Journal of American Chemical Society*, In press.
2. J. McColl, R. Horvath, **A. Aref**, L. Larcombe, S. Morgan, I. Chianella, G. Yakubov, J.J. Ramsden. Polyphenol Restoration of Cell Spreading Inhibition on Glycoprotein Substrates. *Journal of Federation of European Biochemical Societies*, In press.

3. **Aref, A.**, McColl, J., Horvath, R. & Ramsden J.J. Attachment and Spreading Kinetics of Stem Cells Using Optical Waveguide Lightmode Spectroscopy. The Royan International Twin Congress, 5-7 Sep 2007. Tehran-Iran.
  4. **Aref, A.** Horvath, R and Ramsden, J.J. Attachment and Spreading of Stem Cells on Natural and Synthetic Surfaces. Research Poster Conference of Cranfield University, England, 28<sup>th</sup> June 2007.
  5. Horvath, R., McColl, J., **Aref, A.** & Ramsden J.J. Cell Attachment and Spreading on Natural and Synthetic surfaces. Conference of Cranfield Health Partnership, England, 6<sup>th</sup> March 2007.
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**8) Referees:**

**1. Professor Jeremy J. Ramsden**

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**2. Profesoor Geffry J. Ashwell**

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**3. Dr. Robert Horvath (PhD)**

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