

## CURRICULUM VITAE

**Jawad Alzeer**, Ph.D.  
Allmendstrasse 32  
CH 8304 Wallisellen  
Phone: Home (+41) 44 8312448  
Office (+41) 44 6353967  
Natel (+41) 77 2115516  
e-mail: [zeer@oci.uzh.ch](mailto:zeer@oci.uzh.ch)  
[zeerj@yahoo.com](mailto:zeerj@yahoo.com)

**EDUCATION:** Competence in organic chemistry, medicinal chemistry and nucleic acid chemistry

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1990-1995: Ph.D. in Organic Chemistry Swiss Federal Institute of Technology (ETH), Zurich, Switzerland  
1987-1989: M.Sc. in Organic Chemistry University of Karachi, Pakistan  
1983-1987: B. Sc. (Hons) in Chemistry, Physiology and Microbiology as minor subjects University of Karachi, Pakistan  
1985-1986: Maths Certificate in Mathematics University of Karachi, Pakistan

**Professional Experience:** Academic & industrial; organic synthesis, drug design, teaching, gene therapy

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*March 2001- September 2006:* Research associate, Institute of Molecular Cancer Research, Zürich University, Switzerland  
‘Development of a simple and concise approach for the synthesis of an ethylene bridged DNA interstrand crosslink’  
‘Design of chemical approach for targeted mutagenesis by exploiting the base excision repair pathway’

*Feb 2000 - Feb 2001:* Visiting Scientist, Polytechnic University, Hebron, PALESTINE  
‘Teaching organic chemistry, supervising chemistry laboratories’

*November 1998-February 2000:* Postdoctoral Fellow University of Michigan, Ann Arbor, USA  
‘Synthesis of Nucleoside and Non-Nucleoside inhibitors of Human Immunodeficiency Virus Reverse Transcriptase’

*March 1996-September 1998:* Postdoctoral Fellow, Hoffmann La Roche, Basel, Switzerland  
‘Identification and optimisation of a new antimalarial pharmacophore: phenyl  $\beta$ -methoxyacrylates, linked to an aromatic ring via olefinic bridge, have been identified as novel, potentially inexpensive, antimalarial agents’

*March 1993-December 1995:* Research Fellow, Swiss Federal Institute of Technology, (ETH), Zurich, Switzerland  
‘A new approach towards polysaccharide analogues: Preparation of mono- and oligomeric acetylenosaccharides up to a fully deprotected octamer’

October 1990-March 1993: [Research Fellow](#), Institute of Organic Chemistry, Zürich University, Switzerland

‘Synthesis of Acetyleno-Oligosaccharides: Stereoselective introduction of alkynyl groups into glucose’

October 1989-October 1990: [Research Fellow](#), H.E.J. Research Institute of Chemistry, Karachi, PAKISTAN

‘Synthesis of biologically active compounds from readily available carbohydrates’

April 1988-June 1989: [Research Assistant](#), Department of Chemistry, Karachi University, PAKISTAN

‘Synthesis of C-disaccharides by a carbon Ferrier rearrangement’

### **HONORS:** [First class with distinction](#)

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Offered Merit Certificate from University of Karachi

Stood Fourth Position in the Faculty of Science.

Stood Second Position in the Chemistry Department

M.Sc. and B.Sc. with Distinction

Secured "A" Grade in all Chemistry Courses

### **Additional Knowledge:**

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Languages: Arabic –native tongue-; English, German and Urdu –very good fluency-

Computing: Detailed knowledge of Word, Excel, PowerPoint, Photoshop, Beilstein & SciFinder on PC & Mac

Teaching and advising: Teaching assistant; advising diploma and PhD students.

### **Extra activities:** [Social and generous personality](#)

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Collect unique pens, reading history books, playing basketball, combine imagination with reality

### **PATENT & PUBLICATIONS:**

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1- [Jawad zeer](#), M. S. Shekhani, K. M. Khan and W. Voelter "Useful Chiral Intermediates from Readily Available Carbohydrates" *200th National Meeting of the American Chemical Society*, Washington, D. C., September 1990 ORGN 197.

2- [Jawad Alzeer](#), Chengzhi Cai, and Andrea Vasella " Oligosaccharide Analogues of Polysaccharides Part 1. Concept and Synthesis of Monosaccharides-Derived Monomers" *Helv. Chem. Acta.*, 1995, 78, 242-264.

3- [Jawad Alzeer](#), and Andrea Vasella " Oligosaccharide Analogues of Polysaccharides Part 2. Regioselective Deprotection of Monosaccharide-Derived Monomers and Dimers " *Helv. Chem. Acta.*, 1995, a78, 177-193.

4- [Jawad Alzeer](#), and Andrea Vasella " Oligosaccharide Analogues of Polysaccharides Part 4. Synthesis of a Monosaccharide-Derived Octamer " *Helv. Chem. Acta.*, 1995, 78, 1219-1237.

5- [Jawad Alzeer](#), Raffaello Masciadri, Nadine Nock, and Guy Wassner "MOM-protected 3-Hydroxy-5-phenyl-isoxazole: Regioselective Preparation and Synthetic Application" *Tetrahedron Lett.*, 1996, 37, 6857-6860.

- 6- [Jawad Alzeer](#), Jacques Chollet, Christian Hubschwerlen, Hugues Matile, and Robert Ridley *European Patent Application No. 97111607.4*
- 7- [Jawad Alzeer](#), Jacques Chollet, Ingrid Heinze-Krauss, Christian Hubschwerlen, Hugues Matile, and Robert Ridley: Phenyl Methoxyacrylates: A New Antimalarial Pharmacophore, *J. Med. Chem.* 2000; 43 (4); 560-568.
- 8- Ludovic Gillet, [Jawad Alzeer](#), Orlando Schärer: "Site-specific incorporation of N-(deoxyguanosin-8-yl)-2-acetylaminofluorene (dG-AAF) into oligonucleotides using modified "ultra-mild" DNA synthesis" crosslinks " *Nucleic Acid Research.* 2005; 33(6); 1961-1969.
- 9- [Jawad Alzeer](#), Orlando Schärer: "A modified thymine for the synthesis of site-specific thymine-guanine DNA interstrand crosslinks " *Nucleic Acid Research.* 2006; 34 (16); 4458-4466