

Curriculum Vitae: Eric van Genderen

Name: E. van Genderen (Eric)
Address: Feldbergstrasse 86
4057 Basel; Switzerland
E-mail: ericvangenderen@gmail.com
Birth: 24 December 1981
Nationality: Dutch

Jobs & Internships

- 03-2016 – Current Scientist - Paul Scherrer Institut - LBR
Task: Investigating, Designing and implementing new ideas, methods and hardware for Electron Diffraction studies of Organic materials
- 12-2015 – Feb-2016 PostDoc - Universtat Basel - C-CINA - Biozentrum
Task: Further development of Electron Crystallography for 3D nano-crystals of organic compounds
- 05-2010 – 12-2015 PhD - Leiden University - Biophysical Structural Chemistry
Topic: Methods for acquisition of diffraction patterns and imaging of 3D protein nano-crystals and small organic compounds with electron microscopy. Development of a dedicated camera for diffraction studies.
- 06-2009 – 01-2010 Internship (Thesis) - LUMC - Human Genetics - LGTC
Topic: Methods to use synthesized oligos, which were cleaved from a glass slide, in different sequencing applications. Good knowledge about the creation of oligos and the use of sequencing methods.
- 01-2009 – 05-2010 Internship (Industry)/ Job - Marketing Assistant -
CST Europe B.V. (BIOKÉ B.V.) Leiden
Topic: Coordination of the construction of a new webshop.
- 09-2007 – 12-2007 Internship (Bachelor) - Leiden Institute of Chemistry – BioSyn
Topic: Methods to identify in vivo chemical capture of the Proteasome (Protein) and identification by the use of a Mass Spectrometer (MS/MS)
- 2008 – 2010 Voluntary Social Work - Stichting Wielewaal
Task: Holiday entertainment for physical & mental disabled children
- 2002 – 2010 Administrative Assistant – BGSV Bureau voor Stedebouw;
Mail Delivery – TNT Post B.Education

Education

- 03-2008 – 03-2010 Master Life Science & Technology (Functional Genomics)
University of Leiden - Delft University of Technology
Date of Graduation: March 2010
- 09-2002 – 07-2008 Bachelor Life Science & Technology
University of Leiden - Delft University of Technology
Date of Graduation: September 2008
- 09-2000 – 02-2002 Electrical engineering
University of Twente

PUBLICATIONS: 7 publications from which 3 as first author.

Protein structure determination by electron diffraction using a single three-dimensional nanocrystal. .

MTB. Clabbers & **E van Genderen** & W Wan & EL Wieggers & T Gruene & JP Abrahams
Acta Crystallographica Section D, 2017

Ab initio structure determination of nanocrystals of organic pharmaceutical compounds by electron diffraction at room temperature using a Timepix quantum area direct electron detector

E van Genderen, MTB Clabbers, PP Das, A Stewart...
Acta Crystallographica Section A, 2016

Lattice filter for processing image data of three-dimensional protein nanocrystals

E van Genderen, Y Li, I Nederlof, JP Abrahams
Acta Crystallographica Section D: Structural Biology, 2016

Novel detectors and algorithms for electron nano-crystallography

E van Genderen
Thesis, 2015

A Medipix quantum area detector allows rotation electron diffraction data collection from submicrometre three-dimensional protein crystals

I Nederlof, **E van Genderen**, YW Li, JP Abrahams
Acta Crystallographica Section D, 2013

Relative quantification of proteasome activity by activity-based protein profiling and LC-MS/MS

N Li, CL Kuo, G Paniagua, H Van Den Elst, M Verdoes, LI Willems, WA Van Der Linden, M Ruben, **E van Genderen**, J Gubbens, GP Van Wezel, HS Overkleeft, BI Florea
Nature protocols, 2013

Protein crystal growth

I Nederlof, **E van Genderen**, F Hoedemaeker, ... JP Abrahams
Modern Aspects of Bulk Crystal and Thin Film, Book chapter 2012