Stefano Benini E-Mail: <u>stefano.benini@unibz.it</u> <u>https://sbenini.people.unibz.it/</u> ORCID: <u>orcid.org/0000-0001-6299-888X</u> Scopus: https://www.scopus.com/authid/detail.uri?authorId=7004187955

Abilitazione

• abilitazione a Professore Associato Chimica Organica (CHIM06, 03/C1), (ASN 2012)

Impiego

• Ricercatore a tempo indeterminato (CHIM06, 03/C1)

Libera Università di Bolzano, Facoltà di Scienze e Tecnologie, dal 15/03/2009

Previous employments

2007-2009 Protein crystallographer, Pharmaceutical company AstraZeneca plc.(United Kingdom)

protein structure determination supervision of technicians and graduate students.

2002-2007 Postdoctoral research fellow <u>York Structural Biology Laboratory, Department of Chemistry,</u> <u>University of York (United Kingdom)</u>, Research activities, protein structure determination supervision of a technician and graduate students.

2000-2002 Postdoctoral research fellow International Centre for Genetic Engineering and Biotechnology (ICGEB) Trieste (Italy). Research activities, protein structure determination, supervision of graduate students.

1996-2000 Predoctoral research fellow <u>European Molecular Biology Laboratory (EMBL) Hamburg</u> (<u>Germany</u>). Research activities, protein structure determination

1992-1996 Assistente alla ricerca. <u>Istituto di Chimica Agraria, Università di Bologna (Italy)</u>. Purificazione e caratterizzazione di proteine da piante e batteri supervisione di studenti e laureandi

Academic Degrees:

- 2001 PhD in Chemistry, University of York (UK)/ EMBL Hamburg (DE)
- 1991 Master in Scienze Agrarie, Università di Bologna

Relevant skills

Protein crystallography:

- Advanced skills in X-ray cryogenic and room temperature data collection using synchrotron radiation and in-house sources with and without robotics (e.g. Rigaku ACTOR).
- Good competence in structure solution by S.A.D., M.A.D. and by molecular replacement.
- Advanced knowledge in model building, refinement and analysis of structures of proteins and protein-ligand complexes.
- Experience in user support at the EMBL synchrotron beamlines.

Crystallisation of proteins:

• Very good expertise in protein crystallisation (hanging drop, sitting drop, by hand or using crystallisation robot, e.g. MOSQUITO) and in co-crystallisation and crystal soaking with compounds (e.g. ligands, inhibitors).

Protein production and characterisation, gene cloning:

- Very good experience in purifying proteins, from bacterial and plant sources using liquid chromatography and FPLC.
- Very good experience in analysis and characterisation of proteins by SDS-PAGE and spectroscopic methods (UV-Vis, CD, NMR).
- Very good experience in cloning of bacterial genes and over-expression of bacterial proteins in *Escherichia coli* using conventional cloning, Ligation Independent Cloning (LIC) and the GATEWAY system.
- Very good experience in growing bacteria either aerobic heterotrophic or anaerobic photosynthetic.

For an up to date list of publications, please visit:

https://www.scopus.com/authid/detail.uri?authorId=7004187955