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**Igor D'Angelo** · 2nd

Antibody Engineering and Rational Design at Lawrence Livermore National Laboratory



- Lawrence Livermore National Laboratory



- Ruprecht-Karls-Universität Heidelberg

Thousand Oaks, California, United States · [Contact info](#)

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Scientist experienced in rational protein and antibody engineering, molecular modeling, therapeutic modalities, functional assays and preclinical formulation.

- Expert in engineering antibody-antigen interactions and improving stability using i...

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Exhibit 1022
AJINOMOTO CO., INC.
IPR2025-00283



Associate Director

Novartis Institutes for BioMedical Research (NIBR) · Full-time
Dec 2020 - Apr 2022 · 1 yr 5 mos
San Diego, California, United States

Antibody engineering and bio-optimization. Design of multi-specific and multi-valent molecules tailored to specific biological functions utilizing a...

Datasets, Data Manipulation and +1 skill



Senior Research Scientist - Molecular Engineering

Amgen · Full-time
Oct 2018 - Dec 2020 · 2 yrs 3 mos
Thousand Oaks

Antibody engineering and design utilizing structure-based molecular modeling.

Datasets and Data Manipulation



Senior Scientist - Team Lead Antibody Engineering

Zymeworks · Full-time
Mar 2016 - Dec 2020 · 4 yrs 10 mos
Burnaby, BC

Team leader: Antibody Engineering
- molecular modeling...

Datasets and Data Manipulation



Senior Scientist - Protein and Antibody Engineering

Zymeworks · Full-time
Jan 2011 - Feb 2016 · 5 yrs 2 mos
Vancouver, Canada Area

- Led the design and characterization of novel albumin-like scaffolds with dual specificity and improved stability, co-engaging multiple molecules,...

Datasets and Data Manipulation



Scientist - Protein and Antibody Engineering

Zymeworks · Full-time
Jun 2009 - Dec 2010 · 1 yr 7 mos
Vancouver, Canada Area

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Immunoglobulin constructs comprising selective pairing of light and heavy chains.

US US2013051747 · Issued Mar 3, 2015

Multivalent Heteromultimer Scaffold Design And Constructs.

atents →

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Organizations

American Association of Immunologists

Member · Mar 2016 - Present

A

Associated with Amgen

American Crystallographic Association

Jan 2000 - Present

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Vas Narasimhan

Reimagining medicine as CEO of Novartis

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From Igor's industry



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Senior Director, Legal at Aditum Bio

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Natasha Iyer
Senior Counsel, Intellectual Property

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David Perryman
Chief Operating Officer and Chief Intellectual Property Officer at Drug Innovation Ventures at Emory (DRIVE)



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← Experience



Antibody Engineering

Lawrence Livermore National Laboratory · Full-time

Sep 2024 · Present · 2 mos

Thousand Oaks, California, United States · Remote

Skills: Datasets · Data Manipulation · Python (Programming Language)



Scientific Director

Just - Evotec Biologics · Full-time

Apr 2022 · Jul 2024 · 2 yrs 4 mos

Structural and computational based antibody engineering, optimization and re-formatting to address specific biologies with new modalities of target engagement. We advance biotherapeutic development programs in collaboration with our partners by utilizing an integrated and innovative approach for molecular design. #precisionmedicine #innovation #researchneverstops

Skills: Datasets · Data Manipulation · Python (Programming Language)



Associate Director

Novartis Institutes for BioMedical Research (NIBR) · Full-time

Dec 2020 · Apr 2022 · 1 yr 5 mos

San Diego, California, United States

Antibody engineering and bio-optimization. Design of multi-specific and multi-valent molecules tailored to specific biological functions utilizing a combination of in silico and in vitro approaches.

Skills: Datasets · Data Manipulation



Amgen

4 yrs 10 mos

Senior Research Scientist - Molecular Engineering

Oct 2018 · Dec 2020 · 2 yrs 3 mos

Thousand Oaks

Antibody engineering and design utilizing structure-based molecular modeling.

Skills: Datasets · Data Manipulation

Senior Scientist - Team Lead Antibody Engineering

Mar 2016 · Dec 2020 · 4 yrs 10 mos

Burnaby, BC

Team leader: Antibody Engineering

- molecular modeling
- structure based predictive mutagenesis
- next generation sequencing and analysis
- molecular biology support (construct design, cloning, expression, purification and sequencing)
- member of the HuTARG team, enabling the generation of bispecific antibodies in different modalities

Skills: Datasets · Data Manipulation



Zymeworks

6 yrs 9 mos

Senior Scientist - Protein and Antibody Engineering

Jan 2011 - Feb 2016 · 5 yrs 2 mos

Vancouver, Canada Area

- Led the design and characterization of novel albumin-like scaffolds with dual specificity and improved stability, co-engaging multiple molecules, target cells, or epitopes.
- Led the FcRn Project, aimed at the optimization of antibody half-life through controlled Fc-FcRn interactions.
- Created a workflow to optimize expression of various bispecific antibodies formed by Heavy-Light chain interface engineering.
- Designed several engineered antibody molecules with tailored Fc mediated effector function.
- Led characterization, functional studies and crystal structure determination of several leads.

Details: • protein structure determination • modeling • simulations • protein and interface characterization • engineering of specificity and/or affinity • improvement of stability • biofunctional assays • PK/PD • QC

Skills: Datasets · Data Manipulation

Scientist - Protein and Antibody Engineering

Jun 2009 - Dec 2010 · 1 yr 7 mos

Vancouver, Canada Area

- Designed several engineered antibody molecules with tailored Fc mediated effector function.
- Designed stable antibody heterodimers with high dual specificity that retain natural Fc-like biophysical properties.
- Led characterization, functional studies and crystal structure determination of several leads.

Skills: Data Manipulation



Research Associate - Structural Biology / Crystallography

Canadian Light Source Inc.

Apr 2008 - May 2009 · 1 yr 2 mos

- Collected X-ray data and determined the crystal structure of several protein molecules in the frame of internal research and industrial access programs.
- Elucidated the structure-activity relationship of several protein molecules.
- Contributed to beamline maintenance, user training and support.
- Coordinated and established beamline research projects with Canadian and US universities.



Postdoctoral Research Fellow

University of British Columbia

2004 - 2008 · 4 yrs

- Characterized several molecules controlling the permeability of the intestinal epithelium and gained experience in mammalian cell expression, localization studies and ileal tissue permeability assays.
- Expressed, purified, crystallized and determined the crystal structure of several cholesterol catabolic enzymes from Mycobacterium tuberculosis; subsequently elucidated their structure-activity relationship (SAR).
- Performed expression studies on components of the T6SS bacterial translocon.



PhD Graduate Student

University of Heidelberg

Sep 2000 - Sep 2004 · 4 yrs 1 mo

Heidelberg Area, Germany

- Discovered the existence of a new bipartite phospholipid-binding module in the neurofibromatosis type 1 protein (NF1) containing a previously undetected PH-like domain.
- Employed tools such as crystallography and bioinformatics, antibody generation, cell-based assays, mass spectrometry, IHC, confocal microscopy, lipid binding and quantitative proteomics to characterize the molecule from healthy individuals and NF1 patients.
- Proposed a model of structure-function relationship and confirmed it by rational mutagenesis.



MSc thesis work

University of Pavia
Dec 1998 - Sep 2000 · 1 yr 10 mos
Pavia Area, Italy

- Determined the crystal structure and catalytic mechanism of bacterial and human nicotinamide mononucleotide adenylyltransferase.

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Antibody Engineering and Rational Design at L...

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Education



Heidelberg University

PhD, Biochemistry

2000 - 2004

Dual graduate program with the European Molecular Biology Laboratory (EMBL)

EMBL-Heidelberg

PhD, Molecular and Structural Biology

2000 - 2004

Dual graduate program with the University of Heidelberg



Università di Pavia

BSc/MSc, Biological Sciences

1995 - 2000

Grade: 100/110

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Sr IT Business Analyst at Just - Evotec Biologics

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