# Marc C. Deller, D.Phil.

### Expert Structural Biologist | Structure-Based Drug Design | Drug Discovery

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### ABOUT

A scientific professional with over 20 years of hands-on experience in structural biology and drug discovery. Expert in structure-based drug design (SBDD), deployment of high-performance computation, and cloud computing in drug discovery environments. Key achievements include the establishment of an \$8 million automated X-ray crystallography and Cryo-EM platform, which improved delivery speeds by 67% and increased throughput 4-fold, resulting in expediting hit-to-lead timelines, 3 IND filings, and 3 patent applications. Seeking a Scientific Leadership position where expertise in protein structure and drug discovery will be leveraged to support your mission of helping address unmet medical needs.

### EXPERIENCE

### (Incyte) Research Fellow

#### Incyte, Structural Biology

- 🗰 03/2022 12/2024 🛛 🛛 Wilmington, United States
- Addressed the need for rapid drug discovery by automating SBDD analysis and cloud delivery to 10 oncology programs, enabling faster hit-to-lead processes and improved ADME/DMPK profiles.
- Resolved platform inefficiencies and accelerated structure delivery timelines by implementing automated liquid handling, imaging, Al/ML, sample tracking, and cloud computing, resulting in a 67% enhancement in speed and 4-fold increase in throughput.
- Overcame the lack of viable protein targets by developing tractability and druggability workflows, resulting in the identification of 5 new protein targets.
- Expanded screening capabilities by leading new CRO campaigns, enhancing group proficiency in fragments, WAC, and NMR screening.
- Optimized platforms resulted in >3 IND filings, 3 patent applications, and 3 manuscripts.

### (Incyte) Associate Director

#### Incyte, Structural Biology

- 🗰 03/2018 03/2022 🛛 🛛 Wilmington, United States
- Established new \$8M automated X-ray crystallography and Cryo-EM platform, significantly enhancing structural biology and drug discovery resources.
- Addressed limited protein production and data collection capabilities by leading the implementation of CRO resources, resulting in expanded group capacities.
- Improved platform efficiencies by managing a team of 3 scientists and coordinating research efforts across >10 oncology projects, streamlining operations and enhancing productivity.
- Demonstrated project management expertise by coordinating platform operations and overseeing >\$1.5M in operational budgets, ensuring efficient resource allocation.

### Director

### Stanford University, Macromolecular Structure Knowledge Center

- 🗰 06/2015 03/2018 🛛 🛛 California, United States
- Directed the design and implementation of a new structural biology service center, managing budgets of >\$1M, facilitating access for >50 SSRL/SLAC users.
- Enhanced research efficiency by supervising a team of 2 scientists and guiding 50+ users in the utilization of high-throughput platforms for biological macromolecule characterization.
- Improved workflows and expanded user base, resulting in >10 new SSRL/SLAC users, 2 peer-reviewed publications, 3 grant applications, and an annual lab revenue of approximately \$60,000.
- Organized and led campus-wide roll out of Schrödinger computational platforms.

# PHILOSOPHY

- **Curiosity**: >20 years of experience exploring innovations in protein science and drug discovery developing new therapeutics.
- **Courage**: >400 challenging protein structures determined in industry and academia at top institutions advancing basic science and medicine.
- Creativity: >3 patent filings and numerous novel discoveries in immunology, HIV, and cancer biology to open new opportunities to address unmet medical needs.
- Communication: >60 peer-reviewed manuscripts covering cytokines, receptors, small molecules, and antibody structures leading to advancements in the field.
- **Compassion**: >6 preclinical Investigational New Drugs (IND) to help patients in need.
- Collaboration: Cross-functional excellence at the interface of biology, chemistry, and Al/data analysis to enable productive teamwork and effective scientific problem solving.

### EXPERTISE



### Structure-Based Drug Design (SBDD)

Expertise driving hit-to-lead drug discovery using X-ray crystallography, Cryo-EM, AI design, cloud computing, and protein target validation workflows. Led **>20** cross-functional drug discovery initiatives, resulting in **>6** successful preclinical drug filings, **>60** peer-reviewed manuscripts, and **>3** patent filings.



#### Proficient in Gene-to-Structure

Proficient in data analytics and chemoinformatics tools for docking, analyzing, and validating protein-protein and protein-ligand interactions. Deep understanding of molecular biology, construct design and engineering, protein expression and purification, protein structurefunction, SAR, and biophysical characterization.



#### **Excellence in Innovation**

Spearheaded the expansion of research platforms and developed **2** new state-of-the-art high-throughput automated Structural Biology platforms. Improved platform efficiencies by approximately **67%** and increased throughput **4fold** using automation, liquid handling, AI workflows, and cloud computing. Fostered CRO relationships, enhancing proficiencies in fragments, WAC, and NMR screening.

### **EXPERIENCE**

### Senior Scientist

#### Scripps Research Institute, Joint Center for Structural Genomics

- 🗰 08/2006 06/2015 🛛 🛛 San Diego, United States
- Boosted structural genomics success rates by 10% through workflow optimization, process automation, and implementation of target salvage pathways, significantly improving research outcomes.
- Managed collaborative research workflows, facilitating the publication of >40 peer-reviewed manuscripts and the determination of >70 novel protein structures, substantially contributing to the field's knowledge base.

### Principal Scientist

#### Pfizer, Structural Biology

🗰 08/2001 - 01/2006 🛛 🛛 San Diego, United States

- Accelerated progress in multiple therapeutic areas by leading 3 major projects and efficiently delivering >300 protein structures within a 5-year period, significantly advancing drug discovery initiatives.
- Demonstrated effective project leadership by guiding teams to develop several improved lead candidates and successfully filed 3 IND applications.

#### Postdoctoral Research Fellow

#### Yale University School of Medicine

🗰 08/1999 - 08/2001 🛛 ♀ New Haven, United States

 Executed cloning, expression, purification and crystallographic analysis of the cytoplasmic region of Erythropoietin Receptor and JAK protein kinase.

### **EDUCATION**

### D Phil (PhD equivalent)

University of Oxford, Laboratory of Molecular Biophysics

- Structural Studies of Cytokines and Cytokine Receptors.

#### B.Sc.

#### University of Leeds, Biochemistry and Molecular Biology

- 🗰 08/1991 08/1995 🛛 🛛 Leeds, United Kingdom
- First Class Honors, US equivalent: A or 70-100%.

## LATEST PUBLICATION (60 TOTAL)

### Discovery of INCB159020, an Orally Bioavailable KRAS G12D Inhibitor

#### J. Med. Chem.

苗 2025 🕜 https://pubmed.ncbi.nlm.nih.gov/39772605/

First orally bioavailable KRAS G12D inhibitor that addresses the key challenge of balancing potency and ADME properties for this prevalent cancer-driving mutation, expanding treatment options beyond KRAS G12C-targeted therapies for lung cancers.

# LATEST PATENT (3 PENDING)

# Anti-mutant Calreticulin (CALR) Antibodies and uses thereof

■ 2022 *O* https://patents.google.com/patent/WO2023107994A1/en First anti-mutant CALR antibody that selectively targets CALR-mutant myeloproliferative neoplasm cells (MPN), offering a promising disease-modifying therapy for MPN cancers.

# COMPUTATIONAL SKILLS

### **Protein Structure**

HKL2000/3000, AutoProc/GlobalPhasing, CCP4, CCP4cloud, PHENIX, BUSTER, SHELX, ArpWarp, PyMOL, COOT, CCG, MOE, MOSAIC, PSILO, Schrödinger, GROMACS, ALPHAFOLD, RFDiffusion, ProteinMPNN, RELION, RockMaker, CryoSPARC

### Data Analysis and AI

R/Shiny, Spotfire, GraphPad/Prism, MATLAB, Python, RDKit, Benchling, QBench, ChemCart, Nanome, LLAMA, PERPLEXITY, Co-Pilot, ChatGTP, Word, PowerPoint, Access, Excel, Canva, Adobe, JIRA, Confluence, Smartsheets, LIMS, ELN, Agile, Kanban

## SKILLS

Protein Structure		Crystallography/Cryo-EM
SBDD	AI/ML	Drug Discovery
Automation Protein Engineering		
Cloud computing		Project Management
Leadership Effective Communication		

### PORTFOLIO

#### Google Scholar

https://bit.ly/marcdeller\_pubs



Protein Structures https://bit.ly/marcdeller proteins

### REFERENCES

Dr. Guofeng Zhang, Head of Biochemistry and Structural Biology, Incyte guzhang@incyte.com

Dr. Adam Lee, Head of Data Logistics, Incyte alee@incyte.com

### **RECENT LEARNING**

**2025 - Google: Foundations of Project Management** https://www.coursera.org/account/accomplishments/veri fy/605BGOEB1YGC

#### 2025 - IBM: Introduction to Artificial Intelligence

https://www.coursera.org/account/accomplishments/veri fy/71R8R1FHA194

#### 2025 - AWS: Serverless Architectures

https://www.coursera.org/account/accomplishments/veri fy/X9AD2JWH2HE9

