



Workshop Programme

AI in Genomics: Real-World Applications & Opportunities

14-15 September 2026 | Centre of Biotechnology of Borj Cédria (CBBC)

17-18 September 2026 | Higher Institute of Biotechnology of Sfax (ISBS)



Predict



Interpret



Compare



Design

Delivered by GetGenome and The Sainsbury Laboratory,
supported through the Bifrost initiative (Kamoun Lab, TSL).

About the workshop

Artificial intelligence is changing how we translate genomic data into biological discovery. This hands-on workshop moves beyond theory to provide practical approaches for researchers in the post-genomic era.

Across two days, participants navigate a complete structural workflow — predicting protein architectures, interpreting molecular interactions and comparing structures across datasets — before bridging into protein design.

An underlying thread will be that AI tools are a means to an end (not the end in and of themselves) and placing your AI workflows into a GoRHEP is critical to making the most out of new technologies in science. We aim to build your confidence and skills to turn raw sequences into real-world structural insight.

Our partners

The workshop is organised in collaboration with the Centre of Biotechnology of Borj Cédria (CBBC) and the Higher Institute of Biotechnology of Sfax (ISBS) and is supported by The Sainsbury Laboratory (TSL), Norwich, UK.

CBBC – <https://cbbc.rnrt.tn/>

ISBS – <https://isbs.rnu.tn/>

The Sainsbury Laboratory - <https://www.tsl.ac.uk/>

Espace Zmorda – <https://www.facebook.com/espace.zmorda.soukra/>

Venues

Our workshop in Tunis with CBBC will take place September 14th – 15th at **Espace Zmorda**, Soukra, Tunis. Our workshop with ISBS will take place September 17th – 18th at ISBS.



Useful information

Registration is required but free. Registration has now closed.

We are anticipating ~75 participants including Facilitators. Most participants are from major institutes across Tunisia. We are also welcoming international participants.

You will need to bring your own laptop.

Lunch and refreshments will be provided.

You will need to arrange your own transport to and from the venue.

Please contact getgenome@tsl.ac.uk if you have any questions.

Programme — Day 1

Predict & Interpret

08:30–09:30	Registration	
09:30–09:45	Welcome & Introductions	
09:45–10:15	Introduction to AI for Genomics	
10:15–11:00	Theoretical Introduction to AlphaFold	
11:00–11:20	Break	
11:20–12:30	Practical 1: Predict Submit your sequence data to predict models, interpret and compare scores across complexes.	
12:30–13:30	Lunch	
13:30–15:00	GOHREP it! Interactive discussions From a big biological question to a clear research plan	
15:00–15:15	Break	
15:15–17:00	Practical 2: Interpret Introduction to molecular visualisation to interpret protein models and design key experiments.	
17:00–17:15	Q&A	

Programme — Day 2

Compare & Design

09:00–9:30	Day 2 Welcome & Registration	
09:30–11:15	Practical 3: Compare – Yu Align structures to reveal hidden relationships beyond sequence similarity.	
11:15–11:30	Break	
11:30–12:30	Model your own proteins Generate structural predictions with supervision	
12:30–13:30	Lunch	
13:30–14:45	Practical 4: Design - Yu Design <i>de novo</i> structures and binders against a target to create novel solutions	
14:45–15:05	Break	
15:05–16:15	Genomics in an AI world Innovative AI approaches in the post-genomic era	
16:15–16:30	Summary	
16:30–17:00	Q&A	
17:00	Meeting close	

The same two-day programme runs at both venues (Espace Zmorda, then ISBS).

Meet the trainers

The workshop is led by a team from The Sainsbury Laboratory (TSL) and GetGenome.

Mr Andy Posbeyikian The Sainsbury Laboratory

Researcher leveraging AlphaFold to engineer novel plant immune receptors.

Dr Yu Sugihara The Sainsbury Laboratory

Team Leader working across genomics and structural prediction.

Dr Amal Boukteb The Sainsbury Laboratory

Bioinformatics researcher using AlphaFold for protein-protein interaction prediction.

Dr James Canham GetGenome

Leads GetGenome's programmes to empower researchers globally.

The workshop is also supported by

Prof. Sophien Kamoun The Sainsbury Laboratory / GetGenome

Group Leader at The Sainsbury laboratory and GetGenome Trustee and co-founder.

Mr AmirAli Toghani The Sainsbury Laboratory

Develops AI pipelines to predict protein interactions directly from genome sequences.

Mr Jame Tannous The Sainsbury Laboratory

Uses genomics approaches to build datasets of immune receptors across diverse plant lineages.

Meet the facilitators

Our 2026 Facilitator Cohort — researchers supporting the co-delivery the workshops



Dr Amani Ben Alaya

Postdoctoral researcher; phytopathology, microbial genomics and plant molecular biology; bioinformatics and R.



Dr M. Najib Saidi

Associate Professor; genomics, biochemistry and bioinformatics; transcription factors in wheat stress resilience.



Dr H  la Zouari-Mechichi

Associate Professor; molecular and environmental microbiology; bioremediation and AI applications.



Dr Takwa Marzouk

Postdoctoral researcher; genomics workflows and structural biology (PyMOL, AutoDock).



Dr Siwar Ghanmi

Plant molecular biologist; protein function and stress tolerance; bioinformatics with R and Linux.

Meet the facilitators (continued)



Dr Mariem Bradai

Plant scientist (cereal biology); plant molecular biology, stress signalling and protein interactions.



Dr Naima Sayahi

Postdoctoral researcher; environmental microbiology; microbial genomics and high-throughput sequencing.



Dr Fatma Nouria

Postdoctoral researcher; structural bioinformatics and virology; molecular modelling, docking and MD simulations.



Dr Manel Chaouachi

Postdoctoral researcher; plant–microbe interactions; genome mining, comparative genomics and live-coding instruction.

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getgenome@tsl.ac.uk · getgenome.net · [#AIGenomics2026](https://twitter.com/AIGenomics2026)