

# Damien GOUTTE-GATTAT

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## Profile

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Biocurator specialised in curating large datasets from high-throughput experiments. Ontology engineer with significant experience editing complex ontologies and maintaining the associated tools and workflows.

## Professional Experience

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### Apr 2021–present **Biocurator & Ontology Engineer**

*FlyBase Group, University of Cambridge*

As biocurator, I designed and implemented the pipeline to curate *Drosophila* single-cell RNA sequencing datasets into both FlyBase.org and Virtual Fly Brain, in collaboration with the EMBL-EBI's Single Cell Expression Atlas. I contributed to efforts aiming at standardizing scRNAseq metadata, led by the scFAIR initiative, the Alliance of Genome Resources, and the AgBioData coalition.

As ontologist, I co-edited the *Drosophila Anatomy Ontology*, notably to add all required terms needed for proper annotation of scRNAseq data.

As ontology engineer, I was responsible for the modernisation of the technical pipelines used to maintain the Uberon anatomy ontology and the Cell Ontology. I also assumed leadership roles in the development and maintenance of several ontology tools, including the Ontology Development Kit, the Protégé editor, and the Simple Standard for Sharing Ontological Mappings.

### Oct 2017–Mar 2021 **Postdoctoral Research Assistant**

*Barts Cancer Institute, Queen Mary University of London*

Designed 2 genetic systems to induce heterogenous tumours in fly tissues.

Supervised 2 summer students and contributed to the supervision of 3 PhD students.

### Jun 2013–Sep 2017 **Postdoctoral Research Assistant**

*European Institute of Chemistry and Biology, University of Bordeaux, France*

Designed a genetic system to induce DNA breaks at a chosen location in the fly genome.

Supervised 1 M2 student and contributed to the supervision of 2 PhD students.

### Jan 2007–May 2013 **Postgraduate Research Assistant** (until 2011) then **Postdoctoral Research Assistant**

*Albert Bonniot Institute, University of Grenoble, France*

Developed 2 genetic systems to study protein domain functions at specific time during mitosis.

Supervised 1 M2 student and contributed to the supervision of 3 PhD students.

## Research Output

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### Papers

17 research papers published between 2010 and 2025, including 3 as first authors.

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### Talks

Bioinformatics Open Source Conference (BOSC), LIVERPOOL, UK (2025)

International Conference on Biomedical Ontologies (ICBO), ENSCHEDE, The Netherlands (2024)

International Conference on Biomedical Ontologies (ICBO), ANN ARBOR, Michigan (2022)

FOSDM, BRUSSELS, Belgium (2022)

Institute of Cellular Biochemistry and Genetics, BORDEAUX, France (2013)

Bilkent University, ANKARA, Turkey (2012)

### Posters

International Biocuration Conference, PADOVA, Italy (2023)

Annual *Drosophila* Research Conference, CHICAGO, Illinois (2023)

William Harvey Day, LONDON, UK (2019)

FASEB Meeting, BIG SKY, Montana (2015)

TransBioMed, PESSAC, France (2014)

EMBO Meeting, VIENNA, Austria (2010)

## Education

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- Dec 2011** Ph.D. in **Cellular and Molecular Biology**, University of GRENOBLE, France.  
*Investigating mitotic functions of CENP-A N-tail.*  
Publicly defended on december 16th, 2011.
- Jun 2007** MSc in **Cellular and Molecular Biology**, Joseph Fourier University, GRENOBLE, France.
- Jun 2005** BSc in **Biology**, Joseph Fourier University, GRENOBLE, France.

## Technical Expertise

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### INFORMATION TECHNOLOGY & SEMANTIC TECHNOLOGY

- Administration** GNU/Linux systems on desktops and servers
- Specialised tools** Protégé, ROBOT, Ontology Development Kit for OWL ontology editing and maintenance  
Scientific Python stack (NumPy/SciPy/Pandas/etc.)  
ImageJ and OMERO for image management and analysis
- Development** Proficient in C, Python, Java  
Lead developer of the Ontology Development Kit  
Developer of the reference implementation of the SSSOM standard  
Maintainer of the Protégé Desktop ontology editor  
Author of several other free software projects  
Public repositories: [github.com/gouttegd](https://github.com/gouttegd), [git.incenp.org/damien](https://git.incenp.org/damien)
- Typesetting** Proficient in L<sup>A</sup>T<sub>E</sub>X

### LIFE SCIENCES

- Molecular biology** Standard and Gateway cloning  
RT-PCR
- Cell biology** Culture of mammalian and insect cells  
Transient and lentivirus-mediated stable transfections  
*ex-vivo* culture of fly tissues
- Microscopy** Confocal microscopy  
Time-lapse microscopy on mammalian cells and fly tissues  
Photo-ablation  
Automated image analysis
- Genetics** Fly pushing

## Languages

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- English** Fluent (CEFR level C1)
- French** Native speaker

## References

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- Nicolas MATENTZOGLU <[nicolas.matentzoglu@gmail.com](mailto:nicolas.matentzoglu@gmail.com)>  
Semanticly Ltd, ATHENS, Greece
- Dr. David OSUMI-SUTHERLAND <[do12@sanger.ac.uk](mailto:do12@sanger.ac.uk)>  
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