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Title

Subtitle

A CRITICAL GUIDE

Introduction to bioinformatics

The UniProt Knowledgebase

UniProtKB

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# Introduction

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# About this Guide

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Exercises are provided to …. Throughout the text, key terms – rendered in **bold** type – are defined in boxes. Additional information is provided in supplementary boxes.

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# References & further reading

1. Surname AB *et al*. (Eds.) (2015) ***Book title*.** Publishers.
2. Surname A *et al*. (2016) **Article title.** *Journal Name*, **vol**(number), pp-pp.
3. Surname A & Surname B. (2016) **Another article title.** *J. Name*, **vol** Suppl., pp-pp.
4. Author Consortium. (2017) **Yet another article title.** *Another J. Name*, **vol**(number), pp-pp.
5. **https://www.website.org/**

# Acknowledgements & funding

GOBLET Critical Guides marry ideas from the Higher Apprenticeship specification for college-level students in England (**http://www.contentextra.com/lifesciences/unit12/unit12home.aspx**) with the EMBnet Quick Guide concept. The original Quick Guide to topic was written by name (from place) for distribution by EMBnet in date: **https://www.embnet.org/shared/quickguides/….pdf**.

This Guide was developed with the support of a donation from EMBnet to the GOBLET Foundation in order to support the development of training materials.

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**About the organisations**

## GOBLET

GOBLET (Global Organisation for Bioinformatics Learning, Education & Training) was established in 2012 to unite, inspire and equip bioinformatics trainers worldwide; its mission, to cultivate the global bioinformatics trainer community, set standards and provide high-quality resources to support learning, education and training.

GOBLET’s ethos embraces:

* ***inclusivity****: welcoming all relevant organisations & people*
* ***sharing****: expertise, best practices, materials, resources*
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* ***innovation****: welcoming imaginative ideas & approaches*
* ***tolerance:*** *transcending national, political, cultural, social & disciplinary boundaries*

Further information about GOBLET and its Training Portal can be found at **www.mygoblet.org** and in the following references:

* Attwood *et al.* (2015) **GOBLET:the Global Organisation for Bioinformatics Learning, Education & Training.** *PLoS Comput. Biol.*, **11**(5), e1004281.
* Corpas *et al.* (2014) **The GOBLET training portal: a global repository of bioinformatics training materials, courses & trainers.** *Bioinformatics*, **31**(1), 140-142.

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## EMBnet

EMBnet is a global bioinformatics network, bringing bioinformatics professionals together to serve, support and sustain the field of bioinformatics across the life sciences: **https://www.embnet.org/**

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**About the author**

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Teresa (Terri) Attwood is a Professor of Bioinformatics with more than 25 years’ experience teaching introductory bioinformatics, in undergraduate and post-graduate degree programmes, and in *ad hoc* courses, workshops and summer schools, in the UK and abroad.

With primary expertise in protein sequence analysis, she created the PRINTS protein family databases and co-founded InterPro (her particular interest is in the analysis of G protein-coupled receptors). She has also been involved in the development of software tools for protein sequence analysis, and for improving links between research data and the scientific literature (most notably, Utopia Documents).

She wrote the first introductory bioinformatics text-book; her third book was published in 2016:

* Attwood TK & Parry-Smith DJ. (1999) ***Introduction to Bioinformatics*.** Prentice Hall.
* Higgs P & Attwood TK. (2005) ***Bioinformatics & Molecular Evolution*.** Wiley-Blackwell.
* Attwood TK, Pettifer SR & Thorne D. (2016) ***Bioinformatics challenges at the interface of biology and computer science: Mind the Gap.*** Wiley-Blackwell.

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