



---

## Supplemental Materials

for

### **Build-a-Polypeptide: A Hands-On Worksheet to Enhance Student Learning in an Introductory Biology Course**

Kristi Hall<sup>1</sup>, Jackson Dunitz<sup>2</sup>, and Patricia Shields<sup>2\*</sup>

<sup>1</sup>*College of Behavioral and Social Sciences, University of Maryland, College Park, MD 20742*, <sup>2</sup>*Department of Cell Biology and Molecular Genetics, University of Maryland, College Park, MD 20742*

#### **Table of Contents**

(Total pages 10)

Appendix 1: Generic amino acid

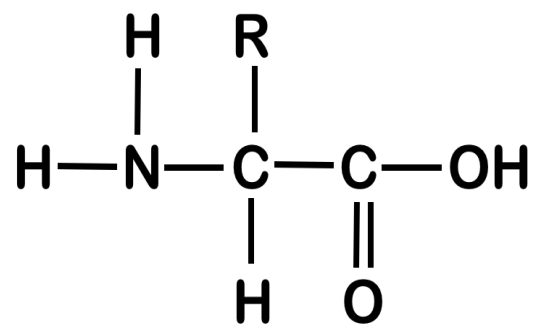
Appendix 2: Amino acid R groups

Appendix 3: Sample peptides

\*Corresponding author. Mailing address: 3108 Bioscience Research Building, University of Maryland, College Park, MD 20742. Phone: 301-314-2595. Fax: 301-314-9489. E-mail: [pshields@umd.edu](mailto:pshields@umd.edu).

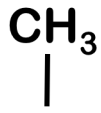
©2014 Author(s). Published by the American Society for Microbiology. This is an Open Access article distributed under the terms of the Creative Commons Attribution-Noncommercial-NoDerivatives 4.0 International license (<https://creativecommons.org/licenses/by-nc-nd/4.0/> and <https://creativecommons.org/licenses/by-nc-nd/4.0/legalcode>), which grants the public the nonexclusive right to copy, distribute, or display the published work.

Appendix 1: Generic amino acid

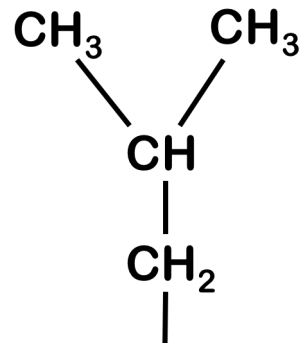


Appendix 2: Amino acid R groups.

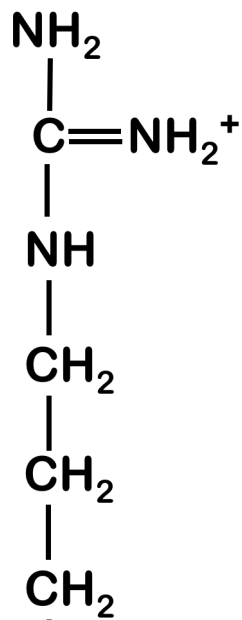
Alanine



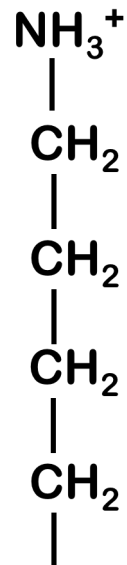
Leucine



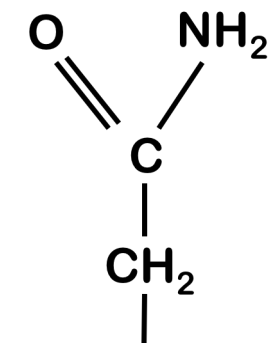
Arginine



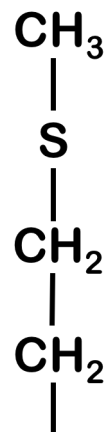
Lysine



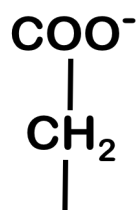
Asparagine



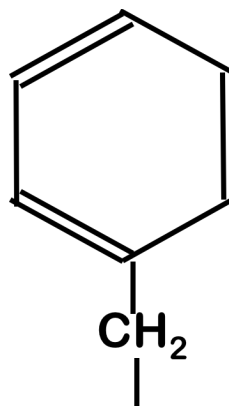
Methionine



Aspartic  
Acid



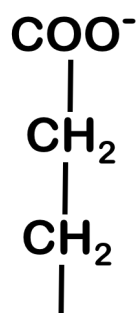
Phenylalanine



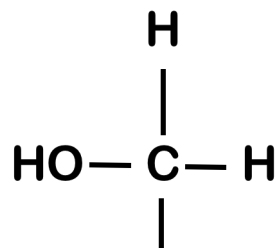
Cysteine



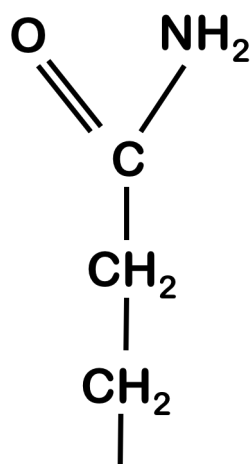
Glutamic  
Acid



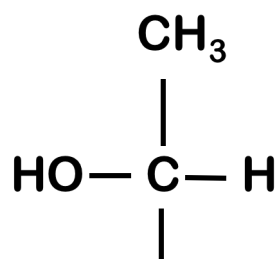
Serine



Glutamine



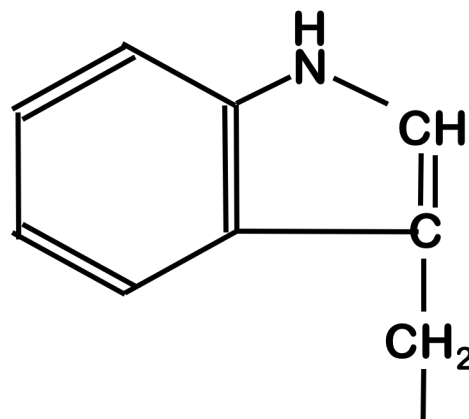
Threonine



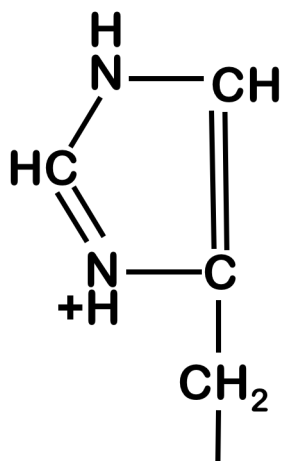
Glycine



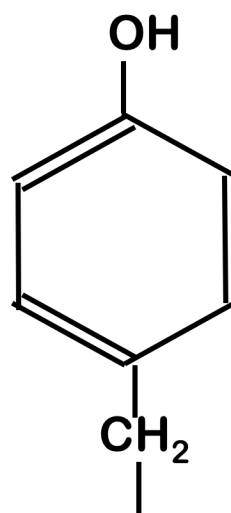
Tryptophan



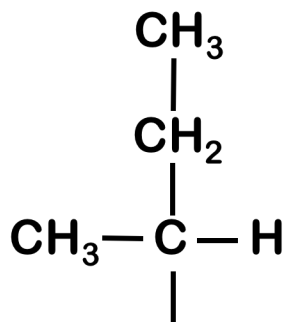
Histidine



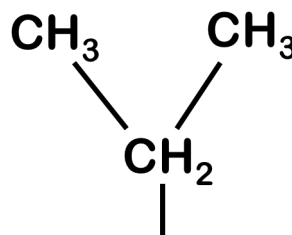
Tyrosine



Isoleucine



Valine



Appendix 3: Sample peptides.

