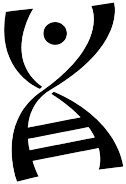
|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **GO GO STEM CELLS** |  |  |  |  |  |



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**An Introduction to the Stem Cell Niche**

|  |  |  |
| --- | --- | --- |
|  | **What is a stem cell niche?** |  |
|  | **How does the niche control stem cell differentiation?** |  |
|  | **What can happen if the niche doesn’t function properly?** |  |

**Brain Cell Niche**

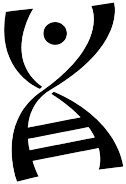
|  |  |  |
| --- | --- | --- |
|  | **What two types of cells did the stem cells differentiate into?** |  |
|  | **What are functions of the newly differentiated cells?** |  |

**Blood Cell Niche**

|  |  |  |
| --- | --- | --- |
|  | **Newly differentiated red blood cells from this niche produce hemoglobin.**  **What is hemoglobin?** |  |
|  | **How long will the red blood cell live in the bloodstream before a new one takes its place?** |  |

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| --- | --- | --- | --- | --- | --- |
| **GO GO STEM CELLS** |  |  |  |  |  |



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**Hair Follicle Cell Niche**

|  |  |  |
| --- | --- | --- |
|  | **What type of cell did the stem cell differentiate into?** |  |
|  | **What other types of cells can stem cells from this niche become?** |  |

**Bone Cell Niche**

|  |  |  |
| --- | --- | --- |
|  | **When do stem cells in this niche receive a lot of signals?** |  |
|  | **How do osteoblasts from this niche build and repair bones?** |  |

**Intestinal Cell Niche**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | **What type of cell did the stem cell differentiate into?** |  | | |
|  | **What is the function of the newly differentiated cell?** |  | | |
| |  |  |  | | --- | --- | --- | |  | **FUNDING** |  | |  |  | **Supported by a Science Education Partnership Award (SEPA) [No. 1 R25 RR16291-01] from the National Center for Research Resources, a component of the National Institutes of Health, Department of Health and Human Services. The contents provided here are solely the responsibility of the authors and do**  **$%)$(('!"-'&'($)) %.!"+!,(%%'** | |  | | | | |  |

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