**Forensic Science**

**Hair Microscopy Handbook**

**Name:**

**Structure of Hair**

**3 Stages of Growth**



**1)** **Phase**



**2)** **Phase**



**3)** **Phase**

**Human vs. Animal: 3 Main Differences**



**Human** **Animal**

**1)**

**2)**

**3)**

**3 Scale Types**



**4 Types of Human Medulla**

1. **Absent**
2. **Fragmented**
3. **Discontinuous**
4. **Continuous**



**Racial Characteristics**

1. **Caucasian**



* + **Shaft diameter:**
	+ **Pigment:**
	+ **Cross-section shape:**
	+ **Cuticle thickness:**
	+ **Configuration:**
1. **Mongoloid**
	* **Shaft diameter:**
	* **Pigment:**
	* **Cross-section shape:**
	* **Cuticle thickness:**
	* **Configuration:**
2. **Negroid**
	* **Shaft diameter:**
	* **Pigment:**
	* **Cross-section shape:**
	* **Cuticle thickness:**
	* **Configuration:**

**Somatic Origin**

* **Head Hairs**

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* **Pubic Hairs**

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* **Limb Hairs**

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**Facial Hairs**

* **Beard/mustache**

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* **Eyebrow/Eyelash**

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**Other Body Hairs**

* **Chest Hairs**

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* **Auxiliary or Underarm Hairs**

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**Hair Characterization Exercises**

**Slide # Human or animal?**

**Root:**

**Configuration:**

**Shaft Diameter:**

**Color:**

**Pigment Size & Density:**

**Pigment Distribution:**

**Medulla:**

**Cuticle:**

**Race (if human):**

**Somatic origin (if human):**

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