

RTMS.e21 Zebrafish as a Model System to Study Skin Biology and Pathology

QUESTIONS

- 1. Which of the following statements is applicable to zebrafish?**
 - A. The zebrafish genome has been completely sequenced.
 - B. There is a multitude of antibodies suitable for western analysis and immunohistochemistry of zebrafish proteins.
 - C. The zebrafish model system is expensive because of the long developmental delay of embryos.
 - D. None of the above.
- 2. The zebrafish model system can be used to study which of the following?**
 - A. Pigment cell biology.
 - B. Wound healing and skin repair.
 - C. The genetic basis of skin diseases.
 - D. Epidermal adhesions.
 - E. All of the above.
- 3. Techniques applicable to study genetic diseases in the zebrafish model include which of the following?**
 - A. Morpholino “knockdown” of gene expression.
 - B. Forward genetics by ENU mutagenesis.
 - C. *In situ* hybridization to examine spatial expression of genes.
 - D. All of the above.
- 4. Zebrafish skin development is different from that of humans because of**
 - A. a lack of terminal differentiation toward formation of stratum corneum.
 - B. the absence of sebaceous glands and hair follicles.
 - C. formation of the lateral line containing neuromasts.
 - D. All of the above.
- 5. Which layer is absent in zebrafish skin?**
 - A. Basement membrane zone.
 - B. Collagenous stroma.
 - C. Stratum corneum.
 - D. Basal cell layer.

ANSWERS

1. **D.**
2. **E.**
3. **D.**
4. **D.**
5. **C.**