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Underlying Motility Maturation and Activation Events; 5-6. Initiation of Flagella Activity: Phenomenological Aspects; 6. ENERGETIC ASPECTS; 6-1. Source and use of Energy: Biochemical Aspects; 6-2. Force, Power and Energy in the Flagellum: Mechanical Aspects; 7. EVOLUTIONARY CONSIDERATIONS ON THE AXONEMAL ORGANELLE AND ON THE SPERM GUIDANCE MECHANISMS; 8. CONCLUSIONS ABOUT SPERM MOTILITY AND ITS ACTIVATION; CONFLICT OF INTEREST; ACKNOWLEDGEMENTS; NOTIFICATION; REFERENCES; Sea Urchin Sperm Chemotaxis ; 1. INTRODUCTION

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FEATURES OF ASCIDIAN SPERM CHEMOTAXISSPECIFICITY OF ASCIDIAN SPERM CHEMOTAXIS; SIGNALING OF SPERM CHEMOTAXIS; Sperm Attractants; Receptor of Sperm Attractants; Species Specificity of Sperm Chemotaxis Revisited: Discussion on the Molecular Basis of Specificity; Sperm Attractants Induce Ca^{2+} Bursts in the Spermatozoa; CONTROL OF SPERM FLAGELLAR MOVEMENT DURING CHEMOTAXIS; $[Ca^{2+}]_i$ Controls Sperm Flagellar Movement; Molecular Components of the Axonemes in Ascidian Sperm; Calaxin is a Ca^{2+} -sensor Protein of Outer Arm Dynein

Calaxin Drives Sperm Chemotaxis by Propagating Flagellar Asymmetric Waveform
