

# DNA STRUCTURE AND REPLICATION

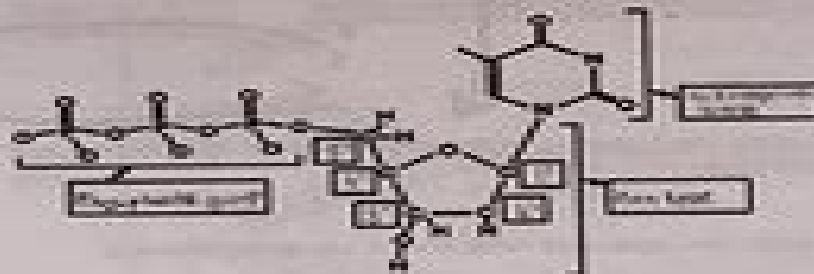
By the end of this activity you should be able to:

1. Explain what (and where) genetic information is.
2. Identify and draw the three parts of a nucleic acid.
3. Explain the basic structures, processes, and steps involved in DNA replication.
4. Identify leading and lagging strands in a replication fork and bubble.
5. Know the enzymes involved in DNA replication, and predict the result of their malfunctioning.

## PART 1: DNA STRUCTURE

Nucleotides are the building blocks of nucleic acids (RNA and DNA).

1. On the nucleotide schematic below:
  - A. label the phosphate group, the nitrogenous base, and the pentose (5-carbon sugar).
  - B. Label the carbon atoms in the sugar ring from 1 to 5.



- C. What functional groups on ANY nucleotide can tell you whether it is a component of DNA or RNA?  
Hydroxyl group & phosphate group
- D. Which carbon # is this functional group bound to?  
2'
- E. What functional group does the 3' on DNA represent?  
Hydroxyl group
- F. What functional group does the 5' on DNA represent?  
Phosphate group

# Uc Davis Lab Manual

**University of California (System)**

A red circular graphic with a gradient, appearing as a stylized arrow or a partial circle, located to the right of the University of California (System) text.

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regulating flap control unit j808 q removing and installing chapter q if renewed erase learnt values and adapt engine control unit j623 vehicle diagnostic tester guided functions 7 7 nm q self tapping bolt q

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eml started flashing and eventually stayed on

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check replace all faulty wiring connector s read measuring value blocks mvb when is the code detected power supply for the  
throttle control motor is provided to the engine control module ecm via throttle control motor relay

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dec 19 2014 the v380 is part of the j808 regulating flap control unit and shares the same 5 pin connector it is used to  
regulate the intake air diesel engines do not use throttle body units their engine speed is regulated controlled by the amount  
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remove fresh air recirculated air air flow flap control motor v425 1 from air intake duct disconnect electrical connector 3  
installing installation is carried out in the reverse order when installing note the following note check operation of flaps and  
hinge mechanism before fitting

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nov 21 2018 scanning codes gave p10a4 intake air flap control actuator mechanical malfunction more often than not this  
would only happen when cold and the code could often be cleared after it had been run for a while i had a full diagnostic run  
which included running through test cycles of all valves and actuators and this showed nothing up

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apr 30 2017 obd ii fault code p2009 is a generic code that is most commonly defined as intake manifold air control actuator  
solenoid bank 1 circuit low but sometimes also as intake manifold runner control imrc solenoid control circuit low bank 1 or  
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feb 16 2016 searching for fault code p10a4 gets me several vag related forum posts that indicate that the problem is related to a vacuum operated flap in the air intake and that the fault sends you into limp mode which agrees with what you report the fix seems to be to replace the intake manifold which seems a little drastic to me

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oct 5 2019 the fault that s caused limp mode is p10a0 actuation regulating flap for intake air electrical which is the regulating flap for the air bypass of the supercharger people commonly misdiagnose the 004256 control circuit for intake air regulating flap error for n75 valves or throttle bodies as its an error specific to the 1 4 tsi

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oct 16 2016 i pulled the intake manifold flap actuator and bench tested it by applying voltage across the motor pins and the actuator arm moved appropriately i was convinced that the motor and linkage was operating properly also the linkage and the arm on the manifold operated smoothly without any effort

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jan 21 2012 step 1 locate the imrc motor it s on the driver s side of the engine under the hpfp on the side of the intake manifold see the pic below its circled in red step 2 remove the wiring harness that s in the way just unplug all connectors that you see attached to that big harness throttle body hpfp the motor itself etc

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pull off front air distribution flap control motor v426 1 and remove it disconnect electrical connector 3 installing installation is carried out in the reverse order when installing note the following note check operation of flaps and hinge mechanism

before fitting make sure levers and shafts are properly fitted in the mounts

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