ACROSS
1 cellular site for detoxification
3 contains DNA and nucleolus
9 stores pigments and maintains turgor
10 protein that is found in cilia and flagella
11 In density gradient centrifugation, dense heavy organelles are found near the ______ of the tube
12 all organisms are made of _____
16 coined the term 'cell'
19 parts of the cell
20 A homogenization medium contains sucrose (osmoticum) and ______
21 respiration organelle
22 cellular site for protein synthesis
24 insulin form when synthesized in ER
26 Inventor of compound microscope
27 structural membrane component
28 Optical sectioning is done using a ______
29 originators of cell theory

DOWN
1 To visualize a single atom, use the ______
2 How many times greater resolution is the EM compared to the human eye?
4 photosynthesis organelle
5 fiber responsible for cell shape
6 The chamber of the EM must be kept under____
7 method to isolate organelles from cell
8 compound microscopes have _______lenses
13 the minimum distance that two objects can be seen as separate
14 The 'bumps' seen in a freeze fracture image of a membrane are made of ______
15 organelle responsible for color in flower petals
17 lenses in the EM
18 How one cell type is distinguished from another
23 fibrous component of cell wall
25 cellular site for protein processing
Solution:

S M O O T H E N D O P L A S M I C R E T I C U L U M
C A N U C L E U S
N H I L N O G R B O T T O M
U P N A S E L T N I N G O
G O M E N E U I M R R P E T H T
H O O H O O H O O H O O
E U I M R R P E T H T
A C T H R I O O
C E L L S
S E L T N I N G O
M I C R E L M I T O C H O N D R I A
C A R B O N R I B O S O M E S
P T E A L M I T O C H O N D R I A
N R R I N G O
L U T I N J A N S S E N
G N U L T U L R A
C E L L D R
P H O S P H O L I P I D
G N U L T U L R A
E N O G C O N F O C A L L A S E R M I C R O S C O P E
I T S C H L E I D E N A N D S C H W A N N
E