

## অধ্যায়-১: কোষ ও এর গঠন

**উক্তি ১:** উদ্ভিদের এক প্রকার অঙ্গাণু খাদ্য তৈরি করে এবং অন্য প্রকার অঙ্গাণু প্রাণ বিপাকে ভূমিকা রাখে ও শক্তি উৎপন্ন করে থাকে।

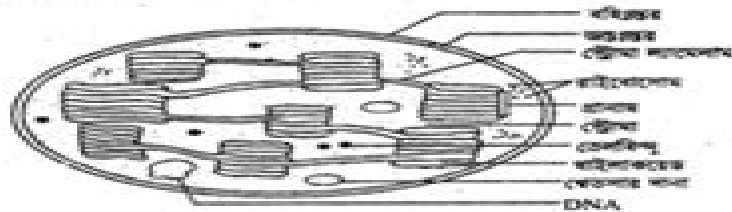
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### 3. महत्त्वपूर्ण तिथियाँ

■ **Agaricus**—এর যে সেফলে হাড়ির উপরে সেবা যায় তাই মুটকি।

২। লবণাক্ত মাটিতে এবং জোয়ার ভাটার স্থানে বীজের এক স্থানে তিকে থাকা কুঠিন। তাই বহু উদ্ভিদে গাছে থাকা অবস্থায়ই বীজের অঙ্কুরোদগম শুরু হয়ে লম্বা সুগমূল সৃষ্টি হয়। এ ধরনের অঙ্কুরোদগমকে জরাবুল অঙ্কুরোদগম বলা হয়। যেমন— সুন্দরী

৭। উন্নীতকে উল্লিখিত ১ম অধ্যায়টি হলো ক্রোরোগাশ্চি বা সালোকসংশ্লেষণ প্রক্রিয়ায় শর্করা জাতীয় খাদ্য প্রস্তুত করে। নিচে ক্রোরোগাশ্চিটের চিত্রিত চিত্র অঙ্কন করা হলো—



विषय: अणुसंश्लेषण विधि का वर्णन

**১৫** উল্লীশকে উপরবিত ১ম অঙ্গাণুটি হলো প্রোবোলাইট যা খাদ্য তৈরি করে এবং ২য় অঙ্গাণুটি হলো মাইটোকন্ড্রিয়া, যা গ্লুকোজ বিপাকে ভূমিকা রাখে এবং শক্তি উৎপন্ন করে।

নিম্নে অক্সাণু দুটির তুলনামূলক আলোচনা করা হলো—

আবহনী ক্রি, ক্রোমা, বাইলাকয়েড, গ্রানাম, ক্রোমা ল্যামেলী ফটোসিনথেটিক ইউনিট, ATP সিনথেসিস এবং DNA এ অংশগুলো নিয়ে ক্রোমোলাইট গঠিত হয়। অবশ্যিক আবহনী ক্রি, প্রকোষ্ঠ, ATP সিনথেসিস ও ETS, DNA ও রাইবোজোম এবং অন্যান্য উপাদান নিয়ে মাইটোকন্ড্রিয়া গঠিত। ক্রোমোলাইট ও মাইটোকন্ড্রিয়া উভয়ই লিপোপ্রোটিন বাইলিয়ারের দ্বি-মেমব্রেন নিয়ে গঠিত।

উচ্চশ্রেণীর উদ্ভিদ-কোষে ক্রোমোজোমের আকৃতি সাধারণত বেকের মতো, তবে নিম্নশ্রেণীর উদ্ভিদ-কোষে এরা পেয়ালাকৃত, সর্পিলাকার, জালিকাকার, তরকাকার, গোলাকার ইত্যাদি আকৃতিরও হতে পারে। অপরদিকে মাইটোকন্ড্রিয়া সাধারণত বুজাকার, দণ্ডাকার, তণ্ডুকার, তরকাকার ও কুণ্ডলী আকার হতে পারে। সেস আকৃতির ক্রোমোজোমের ব্যাস সাধারণত ০-৫ মাইক্রন, কিন্তু বুজাকার মাইটোকন্ড্রিয়ার ব্যাস

০.২-২.০ মাইক্রন এবং সূত্রাকার মাইটোকন্ড্রিয়ার ব্যাস ৪০-৭০ মাইক্রন। সাধারণত গড়ে প্রতিটি উচ্চ শ্রেণীর উদ্ভিদকোষে ১০-৪০টি ক্রোমোলাস্ট থাকে। অপরদিকে গড়ে প্রতি কোষে ৩০০-৪০০টি মাইটোকন্ড্রিয়া থাকে। রাসায়নিকভাবে কার্বোহাইড্রেট, লিপিড, প্রোটিন, ক্রোমোফিল, ক্যারোটিনয়েড (ক্যারোটিন ও জ্যান্থোফিল) DNA, RNA, কিছু সংখ্যক এনজাইম ও কো-এনজাইম নিয়ে ক্রোমোলাস্ট গঠিত। অপরদিকে মাইটোকন্ড্রিয়ার শূন্য ওজনকে ৬৫% প্রোটিন, ২৯% রিসারাইড, ৪% লেসিথিন ও সেক্যালিন এবং ২% কোলেস্টেরল, লিপিডের মধ্যে ৯০% ফসফোলিপিড, বাকি ১০% ফ্যাটি অ্যাসিড, ক্যারোটিনয়েড, ভিটামিন B এবং কিছু অজৈব পদার্থ। ক্রোমোলাস্ট বান্ধা মধ্যস্থে সাহায্য করে বলে একে কোষের রাসায়নিক বা শক্তির জাতীয় বান্ধের কারখানা বলা হয়। এছাড়াও নিজের প্রয়োজনে প্রোটিন, নিউক্লিক অ্যাসিড তৈরি, ADP কে ATP তে রূপান্তর করা, কস্টে-রেপারেশন করা ক্রোমোলাস্টের অন্যতম কাজ। অপরদিকে কোষের বাহ্যিক জৈবনিক কাজের শক্তি সরবরাহ করে বলে মাইটোকন্ড্রিয়াকে কোষের পাওয়ার হাউস বা শক্তির ঘর বলা হয়। এছাড়া দ্বন্দ্বের জন্য প্রয়োজনীয় এনজাইম, কো-এনজাইম ধারণ করা, দ্বন্দ্বের বিভিন্ন পর্যায় যেমন- ক্রেপস চক্র, ইলেকট্রন ট্রান্সপোর্ট, অক্সিডেটিভ ফসফোরাইলেশন ইত্যাদি কাজ মাইটোকন্ড্রিয়ার মাধ্যমে সম্পন্ন হয়।



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### 3. नए आधारों की खोज

❖ *Pteris* উদ্ভিদের স্পোরোফাইটকে পুষ্টিই হলো মোহাস ।

☛ যে যৌন জননে বৃহদাকার নিমূল স্ত্রী জনন কোষের সাথে অপেক্ষাকৃত ক্ষুদ্র সচল পুংজনন কোষের মিলন ঘটে তাকে উণ্ড্র্যামাস প্রকৃতির জনন বলে। এ ধরনের জননে অপেশগ্রহণকারী গ্যামিটকে বলা হয় মেটেরোগ্যামিটস। আইসোগ্যামাস, অ্যানাইসোগ্যামাস এবং উণ্ড্র্যামাস প্রকৃতির জননের মধ্যে উণ্ড্র্যামাস উন্নত প্রকৃতির। *Ondogonium* নামক শৈবালে উণ্ড্র্যামাস প্রকৃতির জনন দেখা যায়।

১৫ উদ্ভীপকের A হলো DNA এবং B হলো RNA। নিচের কোন মতে পার্থক্য উল্লেখ করা হলো—

| বৈশিষ্ট্য   | DNA                            | RNA                     |
|-------------|--------------------------------|-------------------------|
| ১. জোড় গঠন | দ্বিসূত্রক, ঘুরানো সিঁড়ির মতো | একসূত্রক, শিকলের ন্যায় |

বাকী পৃষ্ঠাগুলি নিচের লিঙ্কে ক্লিক করে ডাউনলোড করে পড়ুন।

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