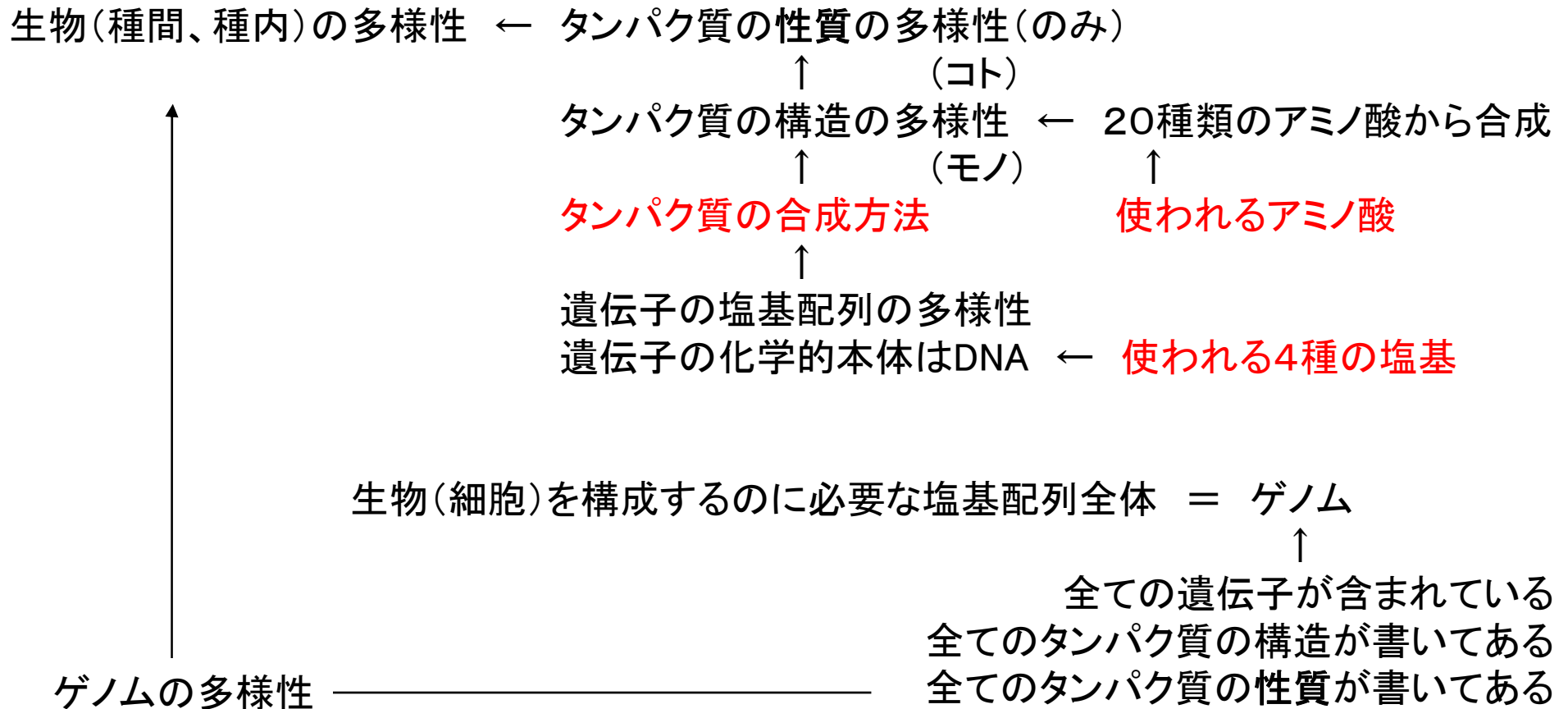


基礎講義1回

細胞に含まれる最多、多様
高分子はタンパク質
ヒトは10万種以上のタンパク質をもつ

赤字： 全生物に共通（タンパク質合成の材料[塩基とアミノ酸]と方法）



ヒトゲノムとチンパンジーゲノムは、ともに30億塩基分の塩基配列をもつが、そのうち約1%違う
ヒトの個人差はゲノムの0.1%の多様性のみ(遺伝子の多様性、タンパク質の構造とタンパク質の性質の多様性)

データベースの登録例 DNA 「M22877」

Human somatic cytochrome c (HCS) gene, complete cds

GenBank: M22877.1

[FASTA](#) [Graphics](#)

[Go to:](#) ☐

LOCUS HUMCYCAA 3088 bp DNA linear PRI 27-APR-1993
 DEFINITION Human somatic cytochrome c (HCS) gene, complete cds.
 ACCESSION M22877
 VERSION M22877.1
 KEYWORDS cytochrome c.
 SOURCE Homo sapiens (human)
 ORGANISM [Homo sapiens](#)
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Euarchontoglires; Primates; Haplorrhini;
 Catarrhini; Hominidae; Homo.
 REFERENCE 1 (bases 1 to 144; 1218 to 1394; 1496 to 3088)
 AUTHORS Evans,M.J. and Scarpulla,R.C.
 TITLE The human somatic cytochrome c gene: two classes of processed
 pseudogenes demarcate a period of rapid molecular evolution
 JOURNAL Proc. Natl. Acad. Sci. U.S.A. 85 (24), 9625-9629 (1988)
 PUBMED [2849112](#)
 REFERENCE 2 (bases 1 to 3088)
 AUTHORS Evans,M.J. and Scarpulla,R.C.
 JOURNAL Unpublished
 COMMENT Original source text: Human liver DNA.
 Draft entry and computer-readable sequence for [1],[2] kindly
 provided by M.J.Evans 03-MAR-1989.
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翻訳領域

タンパク質の
アミノ酸配列

ORIGIN

```

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61 cggaccggcg tgctccttga cttagagagt ggggacgtcc ggttcggag cgggagtggt
121 cgttggtcca gcgactaaaa agagtgagag cggggtcgcg gagccgcac ctggttagag
181 gcagagctgt gggaggcgcg cacttgcgag cgagccgaaa cccaagcggg gacatttoga
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301 agctggcgca gtaacggctt gaggtcgggc ggagccctaa ctaggagac gtagtgcttc
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3061 tttttttatt tatagaatg tgaagctt

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遺伝子の
塩基配列