Register No:.....

MODEL QUESTION PAPER

IV SEMESTER B.Tech DEGREE EXAMINATION BRANCH: BIOTECHNOLOGY & BIOCHEMICAL ENGINEERING 13.403: MOLECULAR BIOLOGY & GENETICS (B)

Time: 3 Hours Marks: 100

PARTA

(Answer all questions, each question carries 2 marks)

- What is the role of Sugar puckering in DNA structure?
- Mention any four main differences between prokaryotic and eukaryotic Translation.
- 3. Explain Wobble hypothesis. How it contributes for the degeneracy of genetic code?
- Distinguish between 'σ' and 'θ' model of DNA Replication.
- What do you mean by 'Semi conservative mode of replication'?
- 6. What are Zinc Finger and Leucine Zipper?
- 7. Name any four proteins involved in the DNA replication in eukaryotes.
- 8. Name any Inhibitor of translation and its mode of action.
- 9. How Arabinose Operon is different from other operones?
- 10. Illustrate sex linked inheritance with a suitable example.

PART B

(Answer any ONE question from each module, carries 20 marks.)

MODULE I

- a) Write notes on Structural Polymorphism in DNA. How will you convert B-DNA into other DNA forms.
 - b) Briefly describe the process of DNA Replication in E.coli. (8 Marks)
- 12. a) Elucidate different Post transcriptional modifications (10 Marks)
 - b) Illustrate detailed structure of DNA with suitable diagram. (10 Marks)

Genetics Question Paper

R Sandford

Genetics Question Paper:

Whispering the Secrets of Language: An Emotional Quest through Genetics Question Paper

In a digitally-driven world wherever monitors reign supreme and instant interaction drowns out the subtleties of language, the profound techniques and mental subtleties concealed within phrases usually get unheard. However, situated within the pages of **Genetics Question Paper** a captivating fictional prize sporting with fresh feelings, lies a fantastic journey waiting to be undertaken. Published by an experienced wordsmith, that marvelous opus encourages viewers on an introspective journey, softly unraveling the veiled truths and profound affect resonating within the material of every word. Within the mental depths of the emotional review, we shall embark upon a sincere exploration of the book is core themes, dissect its captivating writing design, and succumb to the effective resonance it evokes deep within the recesses of readers hearts.

https://staging.conocer.cide.edu/About/browse/fetch.php/lexique_stratigraphique_international_vo.pdf

Table of Contents Genetics Question Paper

- 1. Understanding the eBook Genetics Question Paper
 - The Rise of Digital Reading Genetics Question Paper
 - Advantages of eBooks Over Traditional Books
- 2. Identifying Genetics Question Paper
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
- 3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Genetics Question Paper
 - User-Friendly Interface
- 4. Exploring eBook Recommendations from Genetics Question Paper
 - Personalized Recommendations
 - Genetics Question Paper User Reviews and Ratings

- Genetics Question Paper and Bestseller Lists
- 5. Accessing Genetics Question Paper Free and Paid eBooks
 - Genetics Question Paper Public Domain eBooks
 - Genetics Question Paper eBook Subscription Services
 - Genetics Question Paper Budget-Friendly Options
- 6. Navigating Genetics Question Paper eBook Formats
 - o ePub, PDF, MOBI, and More
 - Genetics Question Paper Compatibility with Devices
 - Genetics Question Paper Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Genetics Question Paper
 - Highlighting and Note-Taking Genetics Question Paper
 - Interactive Elements Genetics Question Paper
- 8. Staying Engaged with Genetics Question Paper
 - o Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Genetics Question Paper
- 9. Balancing eBooks and Physical Books Genetics Question Paper
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Genetics Question Paper
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Genetics Question Paper
 - Setting Reading Goals Genetics Question Paper
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Genetics Question Paper
 - Fact-Checking eBook Content of Genetics Question Paper
 - Distinguishing Credible Sources

- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

Genetics Question Paper Introduction

In the digital age, access to information has become easier than ever before. The ability to download Genetics Question Paper has revolutionized the way we consume written content. Whether you are a student looking for course material, an avid reader searching for your next favorite book, or a professional seeking research papers, the option to download Genetics Question Paper has opened up a world of possibilities. Downloading Genetics Question Paper provides numerous advantages over physical copies of books and documents. Firstly, it is incredibly convenient. Gone are the days of carrying around heavy textbooks or bulky folders filled with papers. With the click of a button, you can gain immediate access to valuable resources on any device. This convenience allows for efficient studying, researching, and reading on the go. Moreover, the costeffective nature of downloading Genetics Question Paper has democratized knowledge. Traditional books and academic journals can be expensive, making it difficult for individuals with limited financial resources to access information. By offering free PDF downloads, publishers and authors are enabling a wider audience to benefit from their work. This inclusivity promotes equal opportunities for learning and personal growth. There are numerous websites and platforms where individuals can download Genetics Question Paper. These websites range from academic databases offering research papers and journals to online libraries with an expansive collection of books from various genres. Many authors and publishers also upload their work to specific websites, granting readers access to their content without any charge. These platforms not only provide access to existing literature but also serve as an excellent platform for undiscovered authors to share their work with the world. However, it is essential to be cautious while downloading Genetics Question Paper. Some websites may offer pirated or illegally obtained copies of copyrighted material. Engaging in such activities not only violates copyright laws but also undermines the efforts of authors, publishers, and researchers. To ensure ethical downloading, it is advisable to utilize reputable websites that prioritize the legal distribution of content. When downloading Genetics Question Paper, users should also consider the potential security risks associated with online platforms. Malicious actors may exploit vulnerabilities in unprotected websites to distribute malware or steal personal information. To protect themselves, individuals should ensure their devices have reliable antivirus software installed and validate the legitimacy of the websites

they are downloading from. In conclusion, the ability to download Genetics Question Paper has transformed the way we access information. With the convenience, cost-effectiveness, and accessibility it offers, free PDF downloads have become a popular choice for students, researchers, and book lovers worldwide. However, it is crucial to engage in ethical downloading practices and prioritize personal security when utilizing online platforms. By doing so, individuals can make the most of the vast array of free PDF resources available and embark on a journey of continuous learning and intellectual growth.

FAQs About Genetics Question Paper Books

- 1. Where can I buy Genetics Question Paper books? Bookstores: Physical bookstores like Barnes & Noble, Waterstones, and independent local stores. Online Retailers: Amazon, Book Depository, and various online bookstores offer a wide range of books in physical and digital formats.
- 2. What are the different book formats available? Hardcover: Sturdy and durable, usually more expensive. Paperback: Cheaper, lighter, and more portable than hardcovers. E-books: Digital books available for e-readers like Kindle or software like Apple Books, Kindle, and Google Play Books.
- 3. How do I choose a Genetics Question Paper book to read? Genres: Consider the genre you enjoy (fiction, non-fiction, mystery, sci-fi, etc.). Recommendations: Ask friends, join book clubs, or explore online reviews and recommendations. Author: If you like a particular author, you might enjoy more of their work.
- 4. How do I take care of Genetics Question Paper books? Storage: Keep them away from direct sunlight and in a dry environment. Handling: Avoid folding pages, use bookmarks, and handle them with clean hands. Cleaning: Gently dust the covers and pages occasionally.
- 5. Can I borrow books without buying them? Public Libraries: Local libraries offer a wide range of books for borrowing. Book Swaps: Community book exchanges or online platforms where people exchange books.
- 6. How can I track my reading progress or manage my book collection? Book Tracking Apps: Goodreads, LibraryThing, and Book Catalogue are popular apps for tracking your reading progress and managing book collections. Spreadsheets: You can create your own spreadsheet to track books read, ratings, and other details.
- 7. What are Genetics Question Paper audiobooks, and where can I find them? Audiobooks: Audio recordings of books, perfect for listening while commuting or multitasking. Platforms: Audible, LibriVox, and Google Play Books offer a wide selection of audiobooks.
- 8. How do I support authors or the book industry? Buy Books: Purchase books from authors or independent bookstores.

- Reviews: Leave reviews on platforms like Goodreads or Amazon. Promotion: Share your favorite books on social media or recommend them to friends.
- 9. Are there book clubs or reading communities I can join? Local Clubs: Check for local book clubs in libraries or community centers. Online Communities: Platforms like Goodreads have virtual book clubs and discussion groups.
- 10. Can I read Genetics Question Paper books for free? Public Domain Books: Many classic books are available for free as theyre in the public domain. Free E-books: Some websites offer free e-books legally, like Project Gutenberg or Open Library.

Find Genetics Question Paper:

lexique stratigraphique international vo liberal man final mission letters from england a perfect journey at the perfect time lexicon of orthopaedic etymology

letters of richard wagner to anton pusin

leurope lamarique la guerre raflaxions sur la madiation europaenne

letters of delegates to congress 1774-1789 volume 4 may 16 - august 15 1776

leuro et lentreprise 2002 et apras

letts collectors guides victorian and edwardian photographs

letters of mina harker

leveraging corporate knowledge the gower developments in business series

liars poker a harry garnish/bridget otoole mystery

letters from grandmas attic

lettre aux glises

letzte tanze

Genetics Question Paper:

l autre turquie le mouvement ala c viste et ses t - Nov 06 2022

web l'autre turquie le mouvement ala c viste et ses t collision tectonics aug 29 2021 terre promise trop promise apr 17 2023 le conflit entre israéliens et palestiniens n a

le mouvement islamique en turquie islamway - Jun 01 2022

web présidée par atatürk la turquie est devenue officiellement un pays laïc des lois ont été mises en place pour écrire la langue turque en lettre latine au lieu des lettres arabes

l autre turquie le mouvement ala c viste et ses t pdf ftp - May 12 2023

web l autre turquie le mouvement ala c viste et ses t 1 l autre turquie le mouvement ala c viste et ses t recognizing the showing off ways to acquire this books l autre

pdf l autre turquie le mouvement ala c viste et ses t - Jul 14 2023

web l autre turquie le mouvement ala c viste et ses t british and foreign state papers apr 02 2023 treaty series 1600 aug 02 2020 in accordance with article 102 of the

l autre turquie le mouvement aléviste et ses territoires by - Feb 26 2022

web tentative de coup d etat en turquie ce que l on sait des le mouvement de contestation tente de l orient le jour le mouvement moderniste tunisien et la question spatiale

l autre turquie le mouvement aléviste et ses territoires by - Mar 30 2022

web l'autre turquie le mouvement aléviste et ses territoires by elise massicard feto a été déjouée en l'espace de 22 heures à travers toute la turquie ankara aa un réseau

l autre turquie le mouvement aléviste et ses territoires by - Sep 23 2021

web april 19th 2020 turquie le gouvernement licencie 350 le nouveau ministre de l'intérieur efkan ala a signé un décret officiel qui démet de mais à l'automne le mouvement de m

l autre turquie le mouvement ala c viste et ses t - Feb 09 2023

web l autre turquie le mouvement ala c viste et ses t as recognized adventure as competently as experience just about lesson amusement as well as union can be

l autre turquie le mouvement ala c viste et ses t download - Jun 13 2023

web l autre turquie le mouvement ala c viste et ses t 3 3 examine the evolution and current practice of social movement studies in a specifically european context while its

l autre turquie le mouvement ala c viste et ses t pdf wef tamu - Sep 04 2022

web l autre turquie le mouvement ala c viste et ses t 3 3 violence and kurds in turkey berghahn books this book uses survey data in hot spots around the globe to analyse

l autre turquie le mouvement aléviste et ses territoires by - Oct 25 2021

web turquie polmiques autour du sort des civils sous le tentative de coup d tat de 2016 en turquie wikipdia ue turquie llment naturel dune frontire nest pas avicenne

l autre turquie le mouvement aléviste et ses territoires by - Nov 25 2021

web travers l'analyse du mouvement aléviste depuis les années 1980 au pays mais aussi en allemagne cet ouvrage porte un regard nouveau sur l'enjeu identitaire et les manières

l autre turquie le mouvement ala c viste et ses t - Apr 11 2023

web 2 l autre turquie le mouvement ala c viste et ses t 2020 05 05 their difference as they never had before the question of alevism s origins and its relation to islam and to

turquie actualités et infos du jour en direct cnews - Apr 30 2022

web turquie retrouvez toutes les dernières actualités de la turquie sur cnews fr articles photos vidéos turquie un camion s écrase sur une foule lors d un

l autre turquie le mouvement ala c viste et ses t - Mar 10 2023

web directement dans des expériences de terrain concrètes il explore les manières de travailler en réseau de créer des partenariats d établir une veille commerciale et de promouvoir

l autre turquie le mouvement aléviste et ses territoires by - Dec 27 2021

web may 2nd 2020 c est la nouvelle hantise des services de l'immigration depuis quelques années se marier avec une française est devenu un moyen courant d'obtenir des

l autre turquie le mouvement aléviste et ses territoires by - Jan 28 2022

web a la mode d allah le monde fr le mouvement moderniste tunisien et la question spatiale turquie wikipdia turquie le soulvement militaire de l anisation la turquie est elle en

le tourisme culturel en turquie la question du même et la - Jul 02 2022

web nous assistons ici à l'appropriation du patrimoine historique du territoire turc par un nous qui fait référence à la civilisation universelle présentée comme un apanage essentiel

l autre turquie le mouvement ala c viste et ses t - Oct 05 2022

web dans l'empire ottoman les balkans et en turquie ce livre analyse l'autorité religieuse exercée par différents acteurs ainsi que les limites théologiques politiques sociales ou

l autre turquie le mouvement ala c viste et ses t download - Dec 07 2022

web pour les marchés les industries et les clients en puisant directement dans des expériences de terrain concrètes il explore les manières de travailler en réseau de

l autre turquie le mouvement aléviste et ses territoires by - Aug 15 2023

web april 18th 2020 mais c est un homme à la tête d un mouvement puissant en turquie qui pte un gigantesque réseau d écoles en turquie mais aussi partout dans le monde d

l autre turquie le mouvement ala c viste et ses t pierre - Jan 08 2023

web success next door to the declaration as with ease as insight of this l autre turquie le mouvement ala c viste et ses t can be taken as competently as picked to act le

histoire de la turquie wikipédia - Aug 03 2022

web on parle d histoire de la turquie pour désigner celle de la république de turquie issue de la guerre d indépendance menée jusqu en 1920 par mustafa kemal atatürk contre

fountas and pinnell phonics scope and sequence full pdf - Jan 02 2022

web in the highly anticipated second edition of guided reading fountas and pinnell remind you of guided reading s critical value within a comprehensive literacy system and the

fountas and pinnell information and teacher community - Feb 15 2023

web welcome to the fountas pinnell literacy community designed for teachers literacy leaders and district administrators make fountasandpinnell com your daily literacy

fountas and pinnell second grade scope sequence download - Mar 04 2022

web kindly say the fountas and pinnell second grade scope sequence is universally compatible with any devices to read fountas and pinnell second grade scope

fountas and pinnell second grade scope sequence - May 06 2022

web fountas and pinnell second grade scope sequence downloaded from protese odontocompany com by guest nyasia barnett the best seat in second

download solutions fountas and pinnell phonics scope and - Oct 11 2022

web in the highly anticipated second edition of guided reading fountas and pinnell remind you of guided reading s critical value within a comprehensive literacy system and the

fag friday is there a suggested sequence of fountas and - Apr 17 2023

web fri jan 18 19 a there is a suggested sequence of reading minilesson umbrellas found in chapter 8 of the reading minilessons book that is intended to establish good classroom

free fountas and pinnell second grade scope sequence - Aug 21 2023

web scope and sequence through the grades v 1 pt 2 language experiences kindergarten through grade three v 2 pt 1 scope and sequence through the grades v 2 pt 2

fountas and pinnell second grade scope sequence pdf - Jun 19 2023

web the scope and sequence of phonics at the second grade level sep 01 2022 grade 4 science scope and sequence 12 titles jul 19 2021 grade 2 scope and sequence

fountas and pinnell second grade scope sequence 2023 - Jun 07 2022

web fountas and pinnell second grade scope sequence downloaded from protese odontocompany com by guest spence anastasia the fountas and pinnell

fountas and pinnell scope and sequence teaching resources - Jul 20 2023

web this document gives a week by week scope and sequence for phonics phonemic awareness sight words decoding strategies and concepts of print it also includes

 $\underline{\text{fountas and pinnell second grade scope sequence 2022}} \text{-} \text{Aug } 09 \text{ } 2022$

web fountas and pinnell second grade scope sequence words that sing kindergarten 100 poetry charts for shared reading lli gold system fountas pinnell classroom

fountas pinnell classroom second grade purchase - Jan 14 2023

web fountas pinnell classroom reading record app guided reading grade 2 institutional purchase irene fountas gay su pinnell grade s 2nd purchase and configuration

free fountas and pinnell phonics scope and sequence - Sep 10 2022

web fountas and pinnell phonics scope and sequence scope sequence for literacy instruction mar 01 2023 the scope and sequence of phonics at the second grade

fountasandpinnellsecondgradescopesequence pdf - Apr 05 2022

web the fountas pinnell literacy continuum units of study in phonics the reading minilessons book grade 4 contexts for learning mathematics first grade essentials

fountas pinnell classroom 2020 edreports - May 18 2023

web nov 9 2021 the materials for fountas and pinnell classroom kindergarten grade 1 and grade 2 do not meet the expectations for text quality and complexity and alignment to

fountas and pinnell second grade scope sequence - Oct 23 2023

web for individuals ages 5 and 6 primarily kindergartens and first graders the second version for individuals ages 7 through 24 persons in second grade through college copyright

the fountas pinnell phonics spelling and word - Mar 16 2023

web fountas pinnell classroom fpc is a cohesive multi text approach to literacy instruction for all students in grades prek 6 the system is designed to support whole

fountas and pinnell second grade scope sequence 2023 - Dec 13 2022

web the fountas pinnell literacy continuum second edition a tool for assessment planning and teaching prek 8 interactive writing fountas and pinnell leveled

faq friday is there a scope and sequence for fountas and - Sep 22 2023

web a fountas pinnell classroom is not a sequentially sequenced skills based program so there is no official scope and sequence the literacy continuum serves as the

fountas and pinnell resource bas 2 second edition scoring - Nov 12 2022

web bas 2 second edition scoring and analyzing this replacement example recording form is from the benchmark assessment system 2 second edition professional

fountas and pinnell phonics scope and sequence pdf - Feb 03 2022

web fountas and pinnell phonics scope and sequence 5 5 and phonics lessons as part of guided reading you ll find all the support you need to teach letters sounds and words

fountas and pinnell second grade scope sequence - Jul 08 2022

web sep 2 2023 fountas and pinnell second grade scope sequence author rhur impacthub net 2023 09 02 12 44 51 subject fountas and pinnell second

albertus seba s cabinet of natural curiosities discover one of - Oct 05 2022

web dec 13 2021 albertus seba s cabinet of natural curiosities discover one of the most prized natural history books of all time 1734 1765 in biology books nature december 13th 2021 leave a comment in the eighteenth century a european could know the world in great detail without ever leaving his homeland

natural curiosities from the cabinet of albertus seba - Jun 01 2022

web aug 25 2003 natural curiosities from the cabinet of albertus seba albertus seba amazon de bücher zum hauptinhalt wechseln de hallo lieferadresse wählen bücher wähle die kategorie aus in der du suchen möchtest suche amazon de de hallo anmelden konto und listen

taschen books seba cabinet of natural curiosities - Aug 15 2023

web albertus seba s unrivaled catalog of animals insects and freaks of nature the cabinet of natural curiosities is one of the 18th century s greatest natural history achievements and remains one of the most prized natural history books of all time cabinet of natural curiosities by albertus seba open library - Apr 11 2023

web dec 10 2021 cabinet of natural curiosities das naturalienkabinett le cabinet des curiosités naturelles locupletissimi rerum naturalium thesauri 1734 1765 2005 taschen taschen in english 25th anniversary special ed cabinet of natural curiosities albertus seba google books - Jul 14 2023

web cabinet of natural curiosities albertus seba taschen 2005 natural history 543 pages albertus seba s cabinet of natural curiosities is one of the 18th century s

a library of natural curiosities the metropolitan museum of art - Jan 08 2023

web may 15 2019 albertus seba cabinet of natural curiosities the complete plates in colour 1734 1765 new york taschen 2001 tomus iii tabula 107 the natural world has held our fascination for centuries if not the entirety of human history albertus seba s cabinet of natural curiosities 25 | | | - Mar 30 2022

web did this title presents albertus seba s curious creatures this is a most unusual collection of natural specimens albertus seba s cabinet of natural curiosities is one of the 18th century s greatest natural history achievements and remains one of the most prized natural history books of all time

albertus seba cabinet of natural curiosities ediz torquato tasso - Feb 26 2022

web cabinet of natural curiosities ediz inglese francese e tedesca albertus seba 2005 albertus seba s curious creatures a most unusual collection of natural specimens albertus seba s cabinet of natural curiosities is one of the 18th century s greatest natural history achievements and remains one of the most prized natural history

albertus seba cabinet of natural curiosities ediz pdf vpn - Dec 27 2021

web albertus seba s cabinet of natural curiosities is one of the 18th century s greatest natural history achievements and remains one of the most prized natural history books of all time

seba cabinet of natural curiosities amazon com - Jun 13 2023

web mar 29 2011 the cabinet of natural curiosities of albertus seba 1665 1736 is one of the 18th century s greatest natural history achievements and remains one of the most prized natural history books of all time

cabinet of natural curiosities jan 02 2015 edition open library - Feb 09 2023

web jan 2 2015 cabinet of natural curiosities by albertus seba jan 02 2015 taschen edition unknown binding

albertus seba s cabinet of natural curiosities the guardian - Sep 04 2022

web may 9 2011 cabinet of natural curiosities by albertus seba is published by taschen and is available at taschen com for 27 99

albertus seba cabinet of natural curiosities ediz inglese - Jan 28 2022

web albertus seba cabinet of natural curiosities ediz inglese francese e t eur 60 00 zu verkaufen la sua fantastica collezione di animali piante e insetti da tutto il 133452761761

shells and other marine life from albertus seba s cabinet of natural - May 12 2023

web jul 22 2015 a selection of plates from albertus seba s cabinet of natural curiosities focusing on his elaborate and highly decorative presentations of shells and other marine life shells and other marine life from albertus seba s cabinet of natural curiosities 1734 the public domain review

cabinet of natural curiosities das naturalienkabinett le cabinet - Dec 07 2022

web cabinet of natural curiosities das naturalienkabinett le cabinet des curiosites naturelles seba albertus isbn

9783836515832 kostenloser versand für alle bücher mit versand und verkauf duch amazon

cabinet of natural curiosities das naturalienkabinett le cabinet - Aug 03 2022

web apr 1 2011 buy cabinet of natural curiosities das naturalienkabinett le cabinet des curiosites naturelles multilingual by seba albertus isbn 9783836515832 from amazon s book store everyday low prices and free delivery on eligible orders cabinet of natural curiosities albertus seba google books - Apr 30 2022

web le cabinet d albertus seba 1665 1736 véritable trésor de l histoire naturelle est unique en son genre les objets de la nature qu il a collectionnés sont d une diversité remarquable il fit dessiner à partir de 1731 sa collection dans son entier et la publia dans un thesaurus en quatre volumes

albertus seba cabinet of natural curioties albertus seba - Mar 10 2023

web bir albertus seba eseri olan albertus seba cabinet of natural curioties en cazip fiyat ile d r de keşfetmek için hemen tıklayınız

albertus seba wikipedia - Jul 02 2022

web albertus or albert seba may 12 1665 etzel near friedeburg may 2 1736 amsterdam was a dutch pharmacist zoologist and collector seba accumulated one of the largest cabinets of curiosities in the netherlands during his time he sold one of his cabinets in 1717 to peter the great of russia

albertus seba s cabinet of natural curiosities goodreads - Nov 06 2022

web albertus seba s cabinet of curiosities is one of the 18th century s greatest natural history achievements and remains one of the most prized natural history books of all time though it was common for men of his profession to collect natural specimens for research purposes amsterdam based pharmacist albertus seba 1665 1736 had a passion