



# NEUROBEHAVIORAL ANATOMY

Third Edition

CHRISTOPHER M. FILLEY

# Neurobehavioral Anatomy

**Joel E. Morgan, Joseph H. Ricker**

## **Neurobehavioral Anatomy:**

**Neurobehavioral Anatomy, Third Edition** Christopher M. Filley, 2011-03-16 Thoroughly revised and updated to reflect key advances in behavioral neurology Neurobehavioral Anatomy Third Edition is a clinically based account of the neuroanatomy of human behavior centered on a consideration of behavioral dysfunction caused Neurobehavioral Anatomy Christopher M. Filley, 2001 In this thoroughly revised and updated edition Christopher M Filley provides a comprehensive introduction to the critical role of brain anatomy in the expression of human behaviour Ongoing advances in functional neuroimaging continue to expand our knowledge of brain behaviour relationships and each chapter has been revised to reflect these emerging developments It includes an expanded Glossary of Neurobehavioral Terms to assist readers with the often confusing terminology of behavioural neurology The book outlines how cognitive and emotional functions are represented and organised in the brain to produce the many behaviours regarded as uniquely human It reviews the effects of focal and diffuse brain lesions and from this analysis a conception of the normal operations of the healthy brain emerges Filley integrates data and material from different disciplines to create a concise and accessible synthesis that informs the clinical understanding of brain behaviour relationships Clinically practical and theoretically stimulating this book offers an up to date and invaluable resource for those involved in the clinical care and study of people with neurobehavioral disorders as well as for anyone interested in the neurobiological basis of human behaviour *Neurobehavioral Anatomy, Third Edition* Christopher M. Filley, 2011-03-16 Thoroughly revised and updated to reflect key advances in behavioral neurology

Neurobehavioral Anatomy Third Edition is a clinically based account of the neuroanatomy of human behavior centered on a consideration of behavioral dysfunction caused **The Behavioral Neurology of White Matter** Christopher M. Filley Professor of Neurology and Psychiatry and Director of the Behavioral Neurology Section University of Colorado School of Medicine, 2001-09-10 This unique book examines the role of the brain's white matter in the organization of human mental function In contrast to standard textbooks of behavioral neurology and neuropsychiatry that emphasize the cortical and subcortical gray matter in brain behavior relationships this text specifically considers the white matter as a vital contributor to cognition and emotion Written from a clinical perspective this book is founded on the study of patients with neurobehavioral syndromes resulting from disorders primarily affecting the brain's white matter These syndromes include white matter dementia focal neurobehavioral syndromes and a variety of neuropsychiatric syndromes In the first part of the book fundamental aspects of myelinated systems are covered to introduce white matter as an important structural and functional component of the brain In Part II a thorough review of white matter disorders at all ages is provided particularly regarding their impact on normal mentation Finally Part III synthesizes the collected information into a coherent summary that presents a behavioral neurology of white matter Throughout the book a major emphasis is placed on distributed neural networks in which connecting white matter tracts complement the operations of gray matter structures in the production of

the human behavioral repertoire     *Behavioral Neurology & Neuropsychiatry* David B. Arciniegas, C. Alan Anderson, Christopher M. Filley, 2013-01-24 The merger of behavioral neurology and neuropsychiatry into a single medical subspecialty Behavioral Neurology Neuropsychiatry requires an understanding of brain behavior relationships and a clinical approach that transcends the traditional perspectives of neurology and psychiatry Designed as a primer of concepts and principles and authored by a multidisciplinary group of internationally known clinical neuroscientists this book divides into three sections Structural and Functional Neuroanatomy Section I addresses the neuroanatomy and phenomenology of cognition emotion and behavior Clinical Assessment Section II describes neuropsychiatric history taking neurological and mental status examinations neuropsychological assessment and neuroimaging electrophysiologic and laboratory methods Treatment Section III discusses environmental behavioral rehabilitative psychological social pharmacological and procedural interventions for cognitive emotional and behavioral disorders By emphasizing the principles of Behavioral Neurology Neuropsychiatry this book will improve your understanding of brain behavior relationships and inform your care of patients and families affected by neurobehavioral disorders     *Kaplan and Sadock's Synopsis of Psychiatry: Behavioral Sciences/Clinical Psychiatry* Benjamin J. Sadock, Virginia A. Sadock, 2011-12-26 The best selling general psychiatry text since 1972 Kaplan and Sadock's Synopsis of Psychiatry is now in its thoroughly updated Tenth Edition This complete concise overview of the entire field of psychiatry is a staple board review text for psychiatry residents and is popular with a broad range of students and practitioners in medicine clinical psychology social work nursing and occupational therapy The book is DSM IV TR compatible and replete with case studies and tables including ICD 10 diagnostic coding tables You will also receive access to the complete fully searchable online text an online test bank of approximately 100 multiple choice questions and full answers and an online image bank at [www.synopsisofpsychiatry.com](http://www.synopsisofpsychiatry.com)     **Encyclopedia of the Human Brain** , 2002-07-04 In the past decade enormous strides have been made in understanding the human brain The advent of sophisticated new imaging techniques e g PET MRI MEG etc and new behavioral testing procedures have revolutionized our understanding of the brain and we now know more about the anatomy functions and development of this organ than ever before However much of this knowledge is scattered across scientific journals and books in a diverse group of specialties psychology neuroscience medicine etc The Encyclopedia of the Human Brain places all information in a single source and contains clearly written summaries on what is known of the human brain Covering anatomy physiology neuropsychology clinical neurology neuropharmacology evolutionary biology genetics and behavioral science this four volume encyclopedia contains over 200 peer reviewed signed articles from experts around the world The Encyclopedia articles range in size from 5 30 printed pages each and contain a definition paragraph glossary outline and suggested readings in addition to the body of the article Lavishly illustrated the Encyclopedia includes over 1000 figures many in full color Managing both breadth and depth the Encyclopedia is a must have reference work for life science libraries and researchers investigating the human

brain     **Clinical Neuroanatomy** John Mendoza,Anne Foundas,2007-12-26 A major focus of clinical neuropsychology and cognitive behavioral neurology is the assessment and management of cognitive and behavioral changes that result from brain injury or disease In most instances the task of the neuropsychologist can be divided into one of two general categories Perhaps the most common is where patients are known to be suffering from identified neurological insults such as completed strokes neoplasms major head traumas or other disease processes and the clinician is asked to assess the impact of the resulting brain damage on behavior The second involves differential diagnosis in cases of questionable insults to the central nervous system Examples of the latter might be milder forms of head trauma anoxia and dementia or suspected vascular compromise In either instance understanding the underlying pathology and its consequences depends in large part on an analysis of cognitive and behavioral changes as well as obtaining a good personal and medical history The clinical investigation will typically include assessing problems or changes in personality social and environmental adaptations affect cognition perception as well as sensorimotor skills Regardless of whether one approaches these questions having prior independent confirmation of the pathology versus only a suspicion of pathology a fairly comprehensive knowledge of functional neuroanatomy is considered critical to this process Unfortunately as neuropsychologists we too frequently adopt a corticocentric view of neurological deficits We recognize changes in personality memory or problem solving capacity as suggestive of possible cerebral compromise     **Kaplan & Sadock's Synopsis of Psychiatry** Benjamin J. Sadock,Harold I. Kaplan,Virginia A. Sadock,2007 The bestselling general psychiatry text since 1972 is now thoroughly updated This complete concise overview of the entire field of psychiatry is a staple board review text for psychiatry residents and is popular with a broad range of students and practitioners in medicine clinical psychology social work nursing and occupational therapy

Textbook of Clinical Neuropsychology Joel E. Morgan,Joseph H. Ricker,2016-02-26 Containing 50 chapters by some of the most prominent clinical neuropsychologists the Textbook of Clinical Neuropsychology sets a new standard in the field in its scope breadth and scholarship Unlike most other books in neuropsychology the Textbook is organized primarily around syndromes disorders and related clinical phenomena Written for the clinician at all levels of training from the beginner to the journeyman the Textbook presents contemporary clinical neuropsychology in a comprehensive volume Chapters are rich with reviews of the literature and clinical case material spanning a range from pediatric to adult and geriatric disorders Chapter authors are among the most respected in their field leaders of American Neuropsychology known for their scholarship and professional leadership Rarely have so many distinguished members of one discipline been in one volume This is essential reading for students of neuropsychology and all others preparing for careers in the field     **History of Neurology** Stanley Finger,Francois Boller,Kenneth L. Tyler,2009-12-08 Handbook of Clinical Neurology Volume 95 is the first of over 90 volumes of the handbook to be entirely devoted to the history of neurology The book is a collection of historical materials from different neurology professionals The book is divided into 6 sections and composed of 55 chapters organized around different

aspects of the history of neurology. The first section presents the beginnings of neurology ancient trepanation its birth in Mesopotamia ancient Egypt the emergence of neurology in the biblical text and the Talmud neurology in the Greco Roman world and the period following Galen neurological conditions in the European Middle Ages and the development of neurology in the 17th and 18th centuries. The second section narrates the birth of localization theory the beginning of neurology and histological applications neuroanatomy neurophysiology surgical neurology and other anatomo clinical methods. The third section covers further development of the discipline including methods of neurological illustration and hospitals in neurology and neurosurgery. This section also narrates the history of child neurology neurodisability and neuroendocrinology. It also features the application of molecular biology on clinical neurology. The fourth section describes the dysfunctions of the nervous system and their history. The fifth and last section covers the regional landmarks of neurology and the different treatments and recovery. The text is informative and useful for neuroscience or neurology professional researchers clinical practitioners mental health experts psychiatrists and academic students and scholars in neurology. A comprehensive accounting of historical developments and modern day advancements in the field of neurology. State of the art information on topics including brain damage and dysfunctions of the nervous system. New treatments and recovery methods from redundancy to vicariation and neural transplantation amongst others.

*White Matter Dementia* Christopher M. Filley, 2016-04-28 Presenting the novel concept of white matter dementia this unique book offers hope for a better understanding and treatment of dementia.

**Wheeler's Dental Anatomy, Physiology, and Occlusion** Major M. Ash, Stanley J. Nelson, 2003 The updated 8th edition of this classic reference provides a visually oriented presentation of dental macromorphology and evidence based chronologies of the human dentitions while reflecting definitive shifts in modern dental practice. New features include an enhanced reader friendly approach new color illustrations and a greater emphasis on clinical applications. A new interactive CD ROM offers three dimensional animations of masticatory movements including tooth contact relationships and temporomandibular joint movements that bring the text's illustrations to life. Plus an interactive mock examination mimics the National Board exam for outstanding review and practice. Essential concepts of occlusion relevant to restorative dentistry are covered. Evidence based chronologies of the human dentitions provide research standards for tooth development and eruption. Dimensions of teeth from all aspects are considered in relation to space problems and arch size. Discussion of bony supporting structures provides information necessary for oral surgery, periodontics and dental implants. Detailed descriptions and illustrated morphologic features of usual unusual teeth essential for learning biologic variation of tooth morphology. Radiographs and pulp chamber and canal morphology in sectioned teeth provide an excellent reference for root canal therapy. Clinically useful chronologies show the age of attainment to avoid damage to developing teeth. Age prediction chronologies can be used to assess the unknown age of a patient. Periodontal therapy is discussed in detail outlining the relationship of tooth morphology to the periodontium. New lifelike color drawings

of the right maxillary and mandibular permanent teeth from the mesial occlusal distal lingual and buccal views are featured in the book and on the CD ROM CD ROM teaches the evaluation of contours of simulated dental restorations in relation to ideal arch form using Quicktime Virtual Reality An interactive 250 multiple choice question examination on the CD ROM provides a thorough self assessment tool Expanded coverage of the development process of the primary and permanent dentitions related to diagnosing potential space problems and malocclusion Thorough discussion of the evaluation of temporomandibular joint and muscle disorders including anatomical illustrations of the nerves and muscles of the head and neck region Appendix of tooth trait categories reviews key information for students

**Wheeler's Dental Anatomy,**

**Physiology, and Occlusion** Russell Charles Wheeler, Major M. Ash, 1984 The updated 8th edition of this classic reference provides a visually oriented presentation of dental macromorphology and evidence based chronologies of the human dentitions while reflecting definitive shifts in modern dental practice New features include an enhanced reader friendly approach new color illustrations and a greater emphasis on clinical applications A new interactive CD ROM offers three dimensional animations of masticatory movements including tooth contact relationships and temporomandibular joint movements that bring the text's illustrations to life Plus an interactive mock examination mimics the National Board exam for outstanding review and practice

*Behavioural and Morphological Asymmetries in Vertebrates* Yegor B. Malashichev, A.

Wallace Deckel, 2006-08-08 This volume grew out of the 2nd International Symposium on Behavioral and Morphological Asymmetries which took place in St Petersburg Russia in September 2004 at the St Petersburg State University under the patronage of the St Petersburg Society of Naturalists The Symposium is the descendant of a satellite event with a similar name of the 4th World Congress of Herpetology December 2001 Bentota Sri Lanka While the 1st Symposium see special issue number 3 for 2002 of the journal Laterality covered only asymmetries observed in amphibians and reptiles the second one had a broader scope Three years passed since the Sri Lanka meeting and there was sustained and increasing interest in vertebrate lateralization in the scientific community especially in lower vertebrates or at least in nonmammalian models This supported not only by the collection of talks at the Symposium but also by current publications in international periodicals Talks here were substantially biased towards the lower vertebrates and birds while reptiles remained to be studied in more detail Two important rationales were considered for the Symposium and the volume which you have in hand The first was to bring together topics and specialists representing different branches of the relatively broad field of research of animal asymmetries The contributions focused on three main subjects 1 development of structural and functional asymmetries constituted 2 evolution and adaptation and 3 function Aiming for a broader range of topics the Symposium may still show the current perspective The increasing number of contributors twice as many as at the Sri Lanka meeting give at least a hope that it was indeed so We however further invited authors who although not present at the meeting itself nevertheless could contribute to the book to finalize its shape The other purpose of this volume is to expose Western scientists to Eastern

thoughts regarding laterality and vice versa We aimed also to help Russian scientists with limited resources and access to the international journals the chance to publish in the Western literature It seemed to us that this is a fine and perfectly acceptable approach which on the other hand explains some of the unevenness in the quality and the style of the different manuscripts Taken together these fourteen Chapters we believe display a variety of the most interesting and intriguing topics within the broad field of animal lateralization showing the perspectives of its developments Far from complete the volume nevertheless is a state of the art book which complements a bulk of recent literature on genetics and developmental studies of asymmetries of the heart and other inner organs interhemispheric specialization in human subjects and fluctuating morphological asymmetry in animals *Books in Print* ,1991 **The Brain and Behavior** Guðrún Árnadóttir,1990 In this unique text the author presents an assessment tool which directly links functional performance in daily activities to neurobehavioural deficits the Arnadottir OT ADL Neurobehavioral Evaluation A One Split into two parts the first carries out a literature review of functional neuroanatomy neurophysiology and neurobehaviour assuming the reader already has a knowledge of these subjects and relates it to observations of patientsneurobehavioural performance during ADL The second part presents the A One and its manual Tables are used to condense and simply information while illustrations are based on clinical situations encountered in real cases A thorough guide to this assessment technique Neurology & Neuroscience Richard T. Johnson,2001 The Brain Thomas L. Saaty,2000 This work confirms what many contemporary thinkers have claimed that all human actions sensations thoughts and even emotions are derived from the synthesis of neural firings in the brain How this happens and the precise nature of their interaction feedback and synthesis however has not been fully described until now **Advancing from the Ventral Striatum to the Extended Amygdala** Jacqueline F. McGinty,1999 The ventral striatopallidal and magnocellular systems emerged as organizing principles of the basal forebrain during the 1970s and 1980s The concept of the extended amygdala while still controversial is beginning to guide the thinking of scientists in the 1990s who are investigating the role of the basal forebrain in motivated behaviours and their dysfunction This volume explores the anatomy and function of the basal forebrain systems in neuropsychiatric and addictive behaviour

## Reviewing **Neurobehavioral Anatomy**: Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is actually astonishing. Within the pages of "**Neurobehavioral Anatomy**," an enthralling opus penned by a very acclaimed wordsmith, readers embark on an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve into the book's central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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## **Neurobehavioral Anatomy Introduction**

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web jan 26 2016 the solubility product or ksp is a way of showing how effective a chemical is at dissolving into an aqueous solution the higher the ksp the more the chemical will dissolve into that solvent for this lab calcium hydroxide is created then

ionized  $\text{Ca}^{2+}$  when calcium is put in water reacts as follows  $\text{Ca}^{2+} + 2\text{H}_2\text{O} \rightarrow \text{Ca}^{2+} + 2\text{OH}^-$

*solubility product of calcium hydroxide chem lab - Aug 07 2023*

web ksp of calcium hydroxide 1 author j m mccormick last update october 13 2013 introduction an equilibrium constant  $K$  is related to  $\Delta G$  for a process through eqn 1 and as long as  $\Delta H$  and  $\Delta S$  are independent of temperature eqn 1 can be combined with eqn 2 to determine  $\Delta H$  and  $\Delta S$  from the temperature dependence of  $K$

**determining the ksp of calcium hydroxide youtube** - Mar 02 2023

web sep 18 2020 in this experiment we will titrate a saturated calcium hydroxide solution with a standardized hcl solution we will determine the hydroxide ion concentration for the saturated calcium hydroxide

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web your primary objective in this experiment is to test a saturated solution of calcium hydroxide and use your observations and measurements to calculate the ksp of the compound you will do this by titrating the prepared  $\text{Ca}^{2+}$  solution with a standard hydrochloric acid solution

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web in today's experiment you will determine the solubility product ksp of calcium hydroxide  $\text{Ca}^{2+}$  by measuring the concentration of  $\text{Ca}^{2+}$  in a saturated solution calcium hydroxide is a sparingly soluble salt that dissolves according to the following reaction the solubility product expression for this reaction is

*solved chem 182 determining the ksp of calcium hydroxide chegg - Feb 18 2022*

web expert verified chem 182 determining the ksp of calcium hydroxide calcium hydroxide is an ionic solid that is sparingly soluble in water a saturated aqueous solution of  $\text{Ca}^{2+}$  is represented in equation form as shown below  $\text{Ca}^{2+} + 2\text{OH}^- \rightleftharpoons \text{Ca}(\text{OH})_2$  the solubility product expression describes in mathematical terms the equilibrium

ksp for calcium hydroxide university of manitoba - Dec 31 2022

web ksp for calcium hydroxide calcium hydroxide is a soft white caustic powder used in making mortar cements calcium salts paints and petrochemicals it is also used in saltwater aquaria to make up kalkwasser limewater solutions for reef tanks and is used as a ph regulating agent notice that calcium hydroxide is divalent and thus has twice

*ksp calcium hydroxide chem132 determination of the ksp of calcium* - Jun 24 2022

web use the concentration of calcium hydroxide to calculate the concentration of calcium ions and hydroxide ions in the solution  $\text{Ca}^{2+} + 2\text{OH}^- \rightleftharpoons \text{Ca}(\text{OH})_2$  calcium ions  $5 \times 10^{-2}$  m hydroxide ions  $2 \times 10^{-2}$  m calculate calcium hydroxide ksp using the concentrations of calcium ions and hydroxide ions

**solubility of calcium hydroxide wpmu dev** - Oct 29 2022

web madison bowe elana keller april 15 2014 introduction the objective of this lab was to measure the ksp of a slightly

soluble basic salt and how solubility changes with temperature ksp is another form of equilibrium expression that deals with solubility the reaction that will take place is  $\text{Ca(OH)}_2 \rightleftharpoons \text{Ca}^{2+} + 2\text{OH}^-$

**solved experiment 8 determining ksp for calcium hydroxide** - Aug 27 2022

web question experiment 8 determining ksp for calcium hydroxide post lab report sheet data table 2 points trial 1 trial 2 hci molarity 0.050 m volume of filtered  $\text{Ca(OH)}_2$  solution ml 5.00 5.00 3.71 13.75 equivalence point volume ml oh in saturated  $\text{Ca(OH)}_2$  m ca in saturated  $\text{Ca(OH)}_2$  m ksp of  $\text{Ca(OH)}_2$  average ksp of  $\text{Ca(OH)}_2$

chemistry 1210 lab 11 experiment 11 determining the ksp of calcium - Sep 08 2023

web the chemical equation used was  $\text{Ca(OH)}_2 + 2\text{HCl} \rightarrow \text{CaCl}_2 + 2\text{H}_2\text{O}$  the solubility product was determined to be  $K_{\text{sp}} = \text{Ca}^{2+} \text{OH}^-$  from the titration which was made by dripping a concentrated solution of calcium hydroxide into hydrochloric acid the calcium hydroxide was filtered before starting the titration

18.1 solubility product constant ksp chemistry libretexts - Feb 01 2023

web jul 12 2023 because the concentration of a pure solid such as  $\text{Ca}_3(\text{PO}_4)_2$  is a constant it does not appear explicitly in the equilibrium constant expression the equilibrium constant expression for the dissolution of calcium phosphate is therefore  $K_{\text{sp}} = \text{Ca}^{2+} \text{PO}_4^{3-}$

**post lab report 8 determining the ksp of calcium hydroxide** - Jul 06 2023

web lab report 8 determinin of calcium hydroxide the purpose of this was to titrat e a saturated  $\text{Ca(OH)}_2$  soultion with a st andard hcl solution and find the ksp or the oh concentration was f ound and then the concentration was found and u for this experiment a titration of calcium hydroxide with hydrochlo

solved determining the ksp of calciumhydroxide - Apr 22 2022

web question determining the ksp of calciumhydroxide  $\text{Ca(OH)}_2 + 2\text{HCl} \rightarrow \text{CaCl}_2 + 2\text{H}_2\text{O}$  for this experiment the titration of calciumhydroxide with hydrochloric acid wasinvestigated determining the ksp of calcium hydroxide  $\text{Ca(OH)}_2 + 2\text{HCl} \rightarrow \text{CaCl}_2 + 2\text{H}_2\text{O}$  for this experiment the titration of calcium

solved chem 182 experiment 8 determining the ksp of calcium chegg - Sep 27 2022

web question chem 182 experiment 8 determining the ksp of calcium hydroxide calcium hydroxide is an ionic solid that is sparingly soluble in water solution of  $\text{Ca(OH)}_2$  is represented in equation form lution of  $\text{Ca(OH)}_2$  is an ionic solid that is sparingly soluble in water a saturated aqueous as shown below

determination of the ksp of calcium hydroxide autosaved - Jun 05 2023

web therefore it was determined through error calculations and ease of use that the most reliable valid method to use to get the closest ksp value to the theoretical ksp for  $\text{Ca(OH)}_2$  was the determination through ph method 2 introduction calcium hydroxide is a strong base soluble in water

exp 4 determining the solubility product constant ksp of calcium - Jul 26 2022

web plasma membrane homework symbiosis practice worksheet benzoin condensation grade a determining the ksp of calcium hydroxide after reading the lab complete items a b c and d title purpose chemicals and equipment and summary of procedure as described on page 10 of exp 1 on an 8 1 2 x 11 sheet of paper

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web question lab 9 determination of the solubility product ksp of calcium hydroxide introduction ionic compounds that are classified as insoluble based on solubility rules are actually slightly soluble each of these insoluble compounds actually dissolves to

experimental determination of the solubility product of calcium hydroxide - Nov 29 2022

web we will filter the solid calcium hydroxide from the solution and then titrate the dissolved calcium hydroxide in solution with a known concentration of hydrochloric acid using titrimetric calculations we will determine the  $\text{Ca}^{2+}$  and  $\text{OH}^-$  concentrations in solution

**ksp of calcium hydroxide lab report for determining the ksp of** - Oct 09 2023

web calculate the ksp for calcium hydroxide  $\text{ksp} = \text{Ca}^{2+} \text{OH}^-$   $2 \times 10^{-5}$  find the accepted value of the ksp for calcium hydroxide and compare it with your value discuss the discrepancy and suggest possible sources of experimental error accepted value for ksp for sodium hydroxide is  $5 \times 10^{-6}$