

Valerie Reiss

Bibliography List

General Genetics & Genetics-Related Books:

Behe, Michael J.

"Darwin's Black Box: The Biochemical Challenge to Evolution" New York: Touchstone (Simon & Schuster Inc.), 1998.

This book is a fairly well written attempt to challenge Darwin's theory of evolution. It does best in its down-to-earth explanations of some very complex biology concepts and introduces many of the alternate explanations to the diversity of species. The body of the book is highly biased and there is a general lack of evidence to many of the alternate explanations that cannot be smoothed over by the author. This book is best read by someone already versed in the field and familiar with evolutionary theory. It turned out to be an excellent resource for my teaching assistant positions in introductory biology courses.

Darwin, Charles.

"On the Origin of Species" London, England: Harvard University Press, 2001

This is the 17th printing by Harvard University Press under the 1964 copyright and is a reproduction of the 1st edition (1859) of Darwin's famous book on descent with modification (evolution as it is called today). This printing contains an introduction by Ernst Mayr (authority in the field of biology) that correctly explains the differences between the editions and the influence this book has had on the field of biology. This printing contains only the original fourteen chapters. It is a foundation book for any scholar of genetics and evolution (genetics in action over time).

Darwin, Charles

"The Origin of Species" New York: Penguin Books Ltd., 1958.

This is a recent printing of the 1958 copyright, 6th edition (1872) version by the Penguin Group. It contains an introduction by Sir Julian Huxley (friend of Charles Darwin and authority in biology). This edition is essential because it contains a new chapter: Miscellaneous Objections to the Theory of Natural Selection. Darwin was brilliant in his ability to answer questions of the theory of descent with modification and explain seemingly-"exceptions to the rule" such as sexual selection and artificial selection; this chapter contains questions brought up by various science figures in his day and Darwin's rebuttals.

Derry, Gregory N.

"What Science is and How it Works" Princeton, New Jersey: Princeton University Press, 1999.

This is a supplementary book for one of the introduction biology courses I assisted-which I decided to keep as a reference. It is written in a well-developed manner able to explain complex topics to beginners and non-science majors, however it was also contained information and more concrete explanations that interested me. There is ample genetics-

related material: inheritance, evolution/Darwin's work, natural selection, statistics & analysis, types of reasoning, quantitative vs. qualitative classification, biological models, etc.

Kent, George C. & Robert K Carr.

"Comparative Anatomy of the Vertebrates" New York: McGraw-Hill, 2001 (9th Ed.). This is the textbook from my ZOL 328 class (Comparative Anatomy & Biology of Vertebrates) with Dr. Susan Hill. Kent is a professor at Louisiana State University and Carr is a professor at Ohio University. I kept the book due to its material on the evolution of limbs and limb embryological development since this relates to an area of interest in canine genetics (the development of different limb lengths and body proportions between breeds of domestic dogs). The book has also been helpful with understanding various other areas of anatomy as it relates to canids.

Lewin, Roger.

"Patterns in Evolution: The New Molecular View" New York: Scientific American Library, 1997.

The book a well-written overview of evolutionary genetics with beautiful pictures and diagrams to further explain the text. There is a brief introduction on Darwin, but the majority of the text is allotted to techniques in genetics as they related to the study of evolution. There is also a few pages on conservation genetics and natural selection; these concepts aren't explicitly related to the study of artificial selection (also discussed) in the text, but comparisons can be easily drawn.

Mayr, Ernst

"The Growth of Biological Thought: Diversity, Evolution, and Inheritance." Cambridge, Massachusetts: Belknap Press of Harvard University Press, 1982.

Ernst Mayr is one of the greatest authorities in the field of biology. He was a great scientist-contributing volumes of research to the field-and an expert at explaining complex biology concepts in an understandable manner. This book took him over ten years to compile and is a "must read" for any genetics scholar. It contains 4 sections: an in-depth look at the history of biological thought, an overview of taxonomy & cladistics, evolution (containing several chapters on Darwin, his predecessors, and the influence of the work on evolution), and inheritance/genetics (including a detailed walk-through of Mendel's, the father of genetics, work and the field of modern genetics).

Snustad, D. Peter & Michael J Simmons.

"Principles of Genetics" New York: John Wiley & Sons Inc., 2000 (2nd Ed.).

This is the textbook for my ZOL 341 class (Fundamental Genetics). This was the first in depth and professionally written book on genetics that I read and has remained to be a foundation reference book for my personal research in canine genetics. Both of the authors are professors at University of Minnesota, working on the genetics of model organisms (*E. coli* and the fruit fly). The chapters of most interest and use to me have been: Chapters 2-4 & 6 on basis genetics and Mendel's work, Chapter 5 on the inheritance of complex traits (most of the traits of interest to me in canine genetics as classified as complex traits), Chapters 7-9 on chromosomes and linkage analysis (study

of two or more traits on a single chromosome and how they are inherited), Chapter 21 on genomics (the study of whole genomes of species, i.e. the domestic dog), Chapters 25-28 on genetic controls on biological processes (development, behavior, cancer, immune system), and Chapter 29 on population genetics.

Canine Genetics/Breeding Books

Ackerman, Lowell (DVM).

"Dr. Ackerman's Book of Boxers" Neptune City, New Jersey: T.F.H. Publications 1996. Dr. Ackerman is one of the foremost expert writers on canine health for owners and breeders. His main education and interests lay in dermatology (study of the skin), but he is also recognized in the areas of canine nutrition and genetics. This book is the Boxer edition in his breed health book series. Although lacking in detail compared to his primary literature articles and other primary literature out there, Ackerman gives enough detail on genetic diseases for owners and beginner breeders. Of interest are the introductions to several genetic diseases affecting Boxers: aortic stenosis, cancer, dilated cardiomyopathy, dysplasia, hypothyroidism, and von Willebrand's disease. There are also many pictures of Boxers owned by Richard Tomita (currently one of the top Boxer breeders in the United States).

Ackerman, Lowell (DVM).

"Dr. Ackerman's Book of Great Danes" Neptune City, New Jersey: T.F.H. Publications 1996.

My second book by Dr. Ackerman, it has similar strengths to the Boxer counterpart. The sections on the breed's evolution are more in-depth due to the longer length of conscious breeding history. There is also more discussion on coat color genetics (more colors/alleles involved in this breed than in the Boxers) and genetic diseases (more diseases affecting this breed, but in smaller numbers).

Beaucamp, Richard

"Boxers For Dummies" Foster City, CA: IDG Books Worldwide Inc, 2000.

Beauchamp is a long time breeder of Boxers (Beau Monde Kennels) with over 100 champions. He is an international dog judge in the American Kennel Club and a highly respected writer/lecturer on Boxers. The book contains discussion on many Boxer care issues for new and current owners. There is a chapter on the evolution of the breed and a fair amount of discussion on some genetic diseases: hip dysplasia, hypothyroidism, cardiomyopathy, cancer, and sub-aortic stenosis. Responsible breeding is discussed (including the responsibility of testing for genetic diseases) and how it affects the breed.

Boxer-Klub E. V. [German Boxer Dog Club].

"Stammbuch Fur Deutsche Boxer" [Family/Breeding Registry Book for the German Boxer] Munich, Germany: Druckerei Albin Klein KG, 1904.

The Stammbuch (later named Zuchtbuch, or stud book) is a registry of all of the Boxers approved to use as breeding stock to develop the Boxer breed in Germany. It is written in German and contains a number of abbreviations to German dog terms (these are explained in other books that I don't own yet, but have read). This is the first volume of

the German Boxer stud book by the Munich-based German Boxer Club. This volume contains Boxers # 01 thru # 211.

Boxer-Klub E. V. [German Boxer Dog Club].

"Stammbuch Fur Deutsche Boxer" [Family/Breeding Registry Book for the German Boxers] Munich, Germany: Druckerei Albin Klein KG, 1907.

This is the second volume of the German Boxer stud book by the Munich-based German Boxer Club. This volume contains Boxers # 212 thru # 620.

Boxer-Klub E. V. [German Boxer Dog Club].

"Stammbuch Fur Deutsche Boxer" [Family/Breeding Registry Book for the German Boxers] Munich, Germany: Druckerei Albin Klein KG, 1910.

This is the third volume of the German Boxer stud book by the Munich-based German Boxer Club. This volume contains Boxers # 621 thru # 1110.

Dearth, Kim D.R. & Joanne Howl DVM (editor)

"Your Boxer's Life" Roseville, CA: Prima Publishing, 2000.

This book is similar to "Boxers for Dummies" by Richard Beauchamp, but contains generally more information and is written at a slightly more technical level. In particular, more discussion is given to genetic diseases-including discussion on the importance of screening for genetic diseases in breeding stock and as a concern when choosing a puppy.

Dearth was the editor for Dog World magazine for many years and a respected dog trainer-as well as being a Boxer owner. Dr. Howl is a small animal veterinarian in Maryland and the president of the Maryland Veterinary Medical Association.

Dunbar, Ian.

"The Essential Boxer" New York: Howell Book House, 1999.

For a very small book, it is packed with relevant information on Boxers and the genetics of Boxers that goes beyond what the average owner needs to know to care for a Boxer. Anatomy diagrams are very helpful and well organized-as well as the tables in the book. A short discussion is given to genetic diseases and the aging of Boxers. The majority of a chapter is given to the step-by-step discussion of the breed standard. Chapter 7 "Matter of Fact" is the most valuable section of the book, for it discusses the history of the Boxer breed, historical books on the Boxer, pioneer breeders (von Dom Kennels & Frau Stockmann, the Mazelaine Kennels and Salgray Kennels) and Bang Away (the Boxer acknowledged as being the paramount of the breed). The last chapter contains the contact info of many organizations and resources related to Boxers.

Heimtier-Bucherei

"Dein Boxer" [Your Boxer] Bremen, Germany: Heimtier-Bucherei, undated (estimated 1970's).

This is a basic care book on Boxer written in German. It does not have much of a discussion on genetics (mentions a few genetics diseases and briefly discusses breed standard in relation to the ability of the dog to perform). Mostly, this was great practice in German abbreviations of dog terms and a preparation for studying the German Stud

Books. The book is fairly rare in Germany from my understanding and was purchased for me by a friend currently in Germany.

Hemery, Margaret.

"Boxers" London: Ernest Benn, 1957.

One of the earliest comprehensive books on the Boxer breed to give insight into the evolution of the breed on an international scale. Hemery was the owner of the Mayerling Kennels and contributed much to the development of the breed, as well as the early understanding of genetics by breeders. The earliest chapters are of greatest importance: Chapter 1 on the early history of the breed (Boxer ancestor breeds and the first Boxers thru pre-WWI Boxers), Chapter 2 on the Boxer in America (imports to America, comparison of American & German standards, genealogical information connecting the American & British Boxer lines, and an article surveying American Boxers by another Boxer expert of the time Dan Gordon), Chapter 3 on the Boxer in Britain (imports, outstanding dams & sires, influences from the Dutch & American lines, influence of German imports, and the development of the breed in Scotland), Chapter 4 on characteristics and morphology of the Boxer, and Chapter 5 on the standards for the breed. Chapters 6 and 12 provide insight into the breeding practices and study of canine genetics at the time. Although in black & white, there are countless pictures of Boxer champions from various countries-many who were imports or later imported to another country. The appendices include a list of English champions up to the date of publishing and a list of sires & dams of English champions.

Hutchings, Tim.

"The Complete Boxer" New York: Howell Book House, 1998.

The majority of this book is geared towards those in the show and breeding areas of the Boxer breed. Training, health care, and picking a puppy are secondary to discussions on the evolution of the breed, breed standards, showing, and breeding the Boxer. Hutchings is the owner of the Winumuk Boxer Kennel, which has enjoyed a number of nice champions in recent years (many pictured in this book, along with other recent champions). The best pictures in the book are on page 12 of the "Big Four"-the four historic Boxer who contributed the most to the early development of the breed (Int. Ch. Sigurd von Dom of Barmere, Int. Ch. Lustig von Dom of Tulgray Wood, Int. Ch. Dorian von Marienhof of Mazelaine, and Int. Ch. Utz von Dom of Mazelaine. This book contains the best diagrams of Boxer anatomy/morphology and differences between the Boxer standards that I have ever seen. Of a more personal interest, many of my male Boxer's ancestors are pictured in this book and these pictures have given me a valuable insight into my boy's potential genetic make-up.

Ostovar, Pat.

"Great Danes in Canada" Fairfax, Virginia: Denlinger Publishers Ltd., 1982.

This is a book on Great Danes written by the daughter of a Dane breeder (who also is a breeder of Danes) for breeders of Danes. The main emphasis of the books is on pictures of champions and their pedigrees; this book contains more pedigrees than any other book in my library. The Canadian Dane standard is discussed in detail, but not illustrated well. Many of the influential kennels of the breed are featured in the chapter on the foundation

of the breed. A few articles from the magazine Dogs in Canada are reprinted in the book and discussed. Overall, the book is very well organized and is loaded with information for the study of Great Dane genetics. Ostovar is the owner of the Tyras Great Dane Kennel (also referred to as TyraDanes Kennel).

Meyer, Lorraine C.

"Your Boxer" Fairfax, Virginia: Denlinger Books, 1973.

This is one of the first historical Boxer books to include a complete chapter on genetics, as well as several on the evolution of the breed and the influence of the major kennels. There are many quality black & white pictures of champions of the time. One of the best pictures sets is a picture of Bang Away and Jered's Spellbinder (2nd most influential modern Boxer males) as puppies, showing their potential at even young ages. Pictures and historical sketches of ancient dog breeds that influenced the early Boxers is another item not found anywhere else. Meyer is the owner of the My-R Boxer Kennel and produced a few influential champions. Of more personal interest are a few pictures of my male Boxer's ancestors.

Nicholas, Anna Katherine.

"The Boxer" Neptune City, NJ:T.F.H. Publications, 1984.

This book is mostly geared towards breeders, although it contains a few chapters on the basic care of the Boxer. It is unusual in that it is written by dog judge rather than a Boxer breeder/owner; Nicholas has written many similar books on various dog breeds. This title is second only to Tomita's World of the Boxer in the sheer number of pictures of champion Boxers-although, most are in black and white with only about three dozen in color (reserved for recent champions at the printing of the book). It contains a chapter a piece on Boxers in Canada, Australia, and Brazil (countries just establishing the Boxer breed). Discussion is also given to the breed in America and Great Britain with liberal discussion on the current influential kennels in each country. A short and satisfactory chapter gives the basics of the evolution of the breed.

Pisano, Beverly.

"Boxers" Neptune City, NJ: T.F.H. Publications, 1979 & 1995.

This is more of a first-time owner Boxer book than for a breeder or scholar in canine genetics. It wouldn't be worth mentioning if it weren't for the pictures of past champions (many owned by Tomita) that I haven't been able to locate elsewhere, a brief discussion on basic canine genetics (which is actually cut down in the more recent edition) and a discussion on the use of a pedigree to gather information. The chapter on the evolution of the breed is lacking and the sections on the modern Boxer are highly biased to Tomita's dogs. I have not been able to find any information on the author's importance in the dog community. I own both the 1979 and 1995 editions.

Royle, Jo.

"The Boxer" United Kingdom: K&R Books Ltd., 1976.

This book holds a unique perspective on the fancy of breeding and showing Boxers, as well as some pictures previous not published. Among the most notable pictures are a group of the first Boxer registered in the German Stud Book, Ch Horsa of Leith Hill (the

first British Boxer champion and an important sire in the British lines), and a great picture of Int Ch Sigurd von Dom (founding Boxer sire in Germany). There are also a few pedigrees of important Boxers: Meta von der Passage ("mother of all Boxers"), Ch Wardrobes Wild Mink, and Ch Seefeld Picasso. The evolution of the breed and basic coat color genetics are discussed at length. Royle was the owner of the Onstage Boxer Kennel, was infamous for first meeting a Boxer in India (not a country they were common in at the time), was a well-respected judge in Britain, and was a delegate in the British Boxer Club where she helped bring about some important breeding decisions for the breed. To my knowledge, the book was only distributed in the UK and I was only able to acquire this book because a friend of mine in England found it buried in an old book store.

Rutledge, Patti.

"Guide to Owning a Boxer" Neptune City, NJ: T.F.H. Publications, 1995.

This small book is a book geared for the new owner of a Boxer, which very brief overviews of the evolution of the breed and genetics. The three pages on the evolution of the breed contains only a few important things: accuracy in the history of the breed, three pictures of early Boxers (including Maier's Lord and Meta von der Passage), and a timeline of the first 20 years in the early organization of the breed. The use of a beautiful champion Boxer (Ch High-Tech Arbitrage) for the anatomy diagram is a rare occurrence and quite welcome. Other pictures of Boxers are biased to Tomita's dogs with no discuss of the other great breeders of that time. Rutledge is a Boxer owner.

Tomita, Rick.

"A New Owner's Guide to Boxers" Neptune City, NJ: T.F.H. Publications, 1996.

While working on the "World of the Boxer" book, Tomita was asked to put out an all-inclusive Boxer care book for owners and this is a fairly good attempt at it. It is better than most modern Boxer books, but lacks any real discussion on genetics as it related to owners and the pictures are, of course, almost completely biased to his Boxers. Several chapters are given to the evolution of the breed in various countries. Various show and event procedures are well explained (essential for understanding why dog with certain titles are popularly used in breeding) on a level for both owners examining pedigrees and those new to dog shows/events. The standards for the Boxer are well explained and pictured. Of personal interest is a nice picture of Am/Can Ch Fiero's Tally Ho Tailo from my male Boxer's ancestry. Tomita is the owner of the Jacquet Boxer Kennel and has been a high producer of champions Boxers for many years. The book is quite easy to find and is recommend for all new Boxer owners/fanciers, keeping in mind that Tomita loves his dogs above all others.

Tomita, Rick.

"The World of the Boxer" Neptune City, NJ: T.F.H. Publications, 1998.

This is the biggest book on Boxers and Boxer breeders that is out there. It contains detailed history and current information on every important breeder that has ever been. It is a treasure trove of pictures of just about every champion Boxer and other Boxers important to the development of the breed. With about 600 oversized and information-packed pages, this is not a book to be read from cover to cover, but is a reference book to be kept nearby when doing research on the breed.

White, Kay.

"The Boxer" Bromley, Great Britain: John Bartholomew & Son Ltd., 1977.

This is the earliest small book I have read with a sound discussion on coat color genetics (going beyond the simple fawn & brindle colorations to include the inheritance of the white markings in a full page chart and text). The chapters on the breed's evolution and the breed's standard are much more developed than most Boxer books of that time. The author also demonstrates that she is well-read in the current literature on Boxer at that time-giving reviews of Frau Stockmann's book and articles along with other sources on the evolution of the breed. White was a Boxer owner and presumably a breeder from the expertise behind the text (I have not been able to confirm this).

Wiley, Constance and Wilson.

"Boxers" London: Foyles, 1989 (4th Ed).

This book lacks any discussion on the breed's evolution, but is useful for lists and pictures of British champion Boxers. The chapter on the breed standard is well explained and illustrated. The chapter on breeding contains a limited discussion of genetics. Overall, it is good for some bits of information and a few dozens pictures. The Wileys are the owners of the Wardrobe Boxer Kennel and were influential in the development of the breed in Britain.

Mustelid Genetics Books:

Fox, James G. (DVM)

"Biology and Diseases of the Ferret" Philadelphia: Lippincott Williams & Wilkins, 1998.

Although written as a reference for veterinarians in small animal practices, genetics is a common theme throughout the book. Chapter 1 discusses the evolution of the species in great detail and includes many historical/ancient references of Domestic Ferrets. Chapter 8 on growth and reproduction discusses breeding and basic genetics of the Ferret from a medical standpoint. Over a third of the book is dedicated to diseases, with genetics discussed in every chapter. Fox is a professor of veterinary medicine at several universities in Massachusetts and Pennsylvania; he is considered to be an authority on various topics in small animal medicine. The language in the book is complex and the book is best for someone already well read in veterinary medicine.

Hillyer, Elizabeth V. (DVM) and Katherine E. Quesenberry DVM

"Ferrets, Rabbits, and Rodents: Clinical Medicine and Surgery" Philadelphia: WB Saunders Co, 1997.

Although only 140 of the 430 pages in this book are reserved for Domestic Ferrets, genetics is discussed throughout the chapters on diseases. The book contains contributions from 30 research and practicing veterinarians-11 specifically on Ferrets. Hillyer is most recognized for her veterinary medical writings and she is based out of New Jersey. Quesenberry is a practicing veterinarian of avian and exotic pets in New York. The language in this book is similar to, and in some cases more complicated than, Fox's book.

Schilling, Kim.

"Ferrets for Dummies" Foster City, CA: IDA Books Worldwide Inc., 2000.

This is the best book written for owners and beginner breeders of Domestic Ferrets. An entire chapter is given on cancer in the Ferret, with mention of genetic research being done in regards to Ferrets. Four chapters are dedicated to breeding of the Domestic Ferret. The chapters on the evolution of the species and on the Black-Footed Ferret species (distant cousins to the Domestic Ferret; currently the most endangered mammal in North America) are better than most books, but short in length. Schilling is a Ferret owner and animal welfare enthusiast, who was on her way to becoming a veterinarian until she got into rescue. The foreword is written by Kate Ball DVM, a widely respected veterinarian of Domestic Ferrets and other small animals. The book is written in language that can be understood by anyone and is the first book I recommend to new Ferret owners.

Non-Book Collection Items:

American Boxer Club

American Boxer Club National Health meetings; May 2002 & May 6-7, 2003.

-Media: VHS of lectures given at the meetings by guest speakers:

Graham, Peter (Dr.). "Hypothyroidism in Boxers" May 2002.

Bell, Jerold (DVM). "Breeding and Genetics" May 6, 2003.

Olby, Natasha (DVM). "Seminar on Degenerative Myelopathy" May 6, 2003.

Meurs, Katherin M (DVM). "Current Information of Boxer Heart Issues" May 7, 2003.

Each of these lectures is geared towards the breeders and other researchers present at the meetings. There is ample discussion on canine genetics as they relate to the diseases that affect the Boxer breed. The lecture by Dr. Bell goes into regulation affecting Boxer breeding, the breed standard, coat color & qualitative genetics, and the future of the breed in excellent detail.

American Kennel Club

American Kennel Club Gazette (monthly magazine since 1883) New York: American Kennel Club.

-Media: photocopies and electronic files of portions of various issues.

I am in the process of collecting articles, pictures, and breeder ads pertaining to Boxers, Giant Schnauzers, and Great Danes. I am concentrating on the earlier issues which are not available to buy or only available in poor condition on the secondary market, but are available at various libraries. Of greatest note in my collection is an article on the Great Dane standard by Enno Meyer (international dog judge).

American Kennel Club

"American Kennel Club Stud Book" (monthly breeding registry since 1883) New York: American Kennel Club.

-Media: photocopies of Boxer, Giant Schnauzer, and Great Dane sections from various issues, due to unfeasibility of housing full volumes.

The American Kennel Club Stud Book is the registry of every breeding that has occurred

between two AKC registered, purebred dogs. The registry is organized by group, then alphabetically by breed within the group. When a dog has been bred for the first time, it is listed in the studbook section for its breed along with basic information on the dog (registration number, date of whelp/birth, coat color, sire's basic information, dam's basic information, owner's name, and breeder's name). Utilizing the information given, a pedigree/ancestry for any AKC registered dog can be made, however a full family tree cannot be completed from just this information. The earliest issues listed every dog registered by the AKC, but this practice was changed at some point around 1900.

Audubon (National Audubon Video Library)

"The Mysterious Black-Footed Ferret" Stamford, CT: Vestron Video, 1986.

-Media: VHS.

This video details the early conservation efforts for the Black-Footed Ferret. The species was re-discovered in Wyoming in 1981 after being thought to be extinct. Footage of the ferrets and discussion of tracking/breeding efforts gives a picture of the genetic state of the species at that time.

Buchwald, Daniel. A. (DVM) & Jean. M. (DVM)

"The Boxer Blueprint" Hawthorne, NJ: Golden Boy Press, 1990.

-Media: scan of book, due to unavailability of book on secondary market.

This is a book that has been referred to as the updated version of Meyer's "Judging the Boxer" and it lives up to the comparison. Although the sketches aren't quite realistic, they are still fairly good and are well used to illustrate the points of the text. Several pages are given to each trait in the standard and a full chapter is given on the evolution of the breed. There is also an excellent section on how to evaluate Boxer pups against the standard for the breed. The Buchwald brothers are veterinarians and Boxer breeders (kennel name unknown to me). They are also the sons of Agnes Buchwald, an internationally recognized Boxer judge. The foreword is by Phoebe Harris, owner of the Sirrah Crest Boxer Kennel.

Clark, Ross D. (DVM) & Joan R. Stainer.

"Medical and Genetic Aspects of Purebred Dogs" Edwardsville, Kansas: Veterinary Medicine Publishing Co., 1983.

-Media: notes taken from reading the book.

The title says it all-a comprehensive book on canine genetics. It is organized by breed and written mostly for veterinarians and breeders.

Colbert, E. H. and M. Morales.

"Evolution of the Vertebrates" New York: Wiley-Liss, 1991 (4th Ed.)

-Media: notes & photocopies of the sections on carnivore, canoid carnivores, evolution of the mustelids, and artificial selection of the domestic dog.

Dane World

Dane World (bimonthly magazine since 1996)

-Media: electronic files of the website version of various issues.

This magazine features articles on various topics related to Great Danes, including

genetics and breeding. This is an excellent resource for pictures of Dane champions and other important dogs.

Dog Fancy

Dog Fancy (monthly magazine since 1969) Irvine, CA: Fancy Publications.

-Media: scans of portions of various issues

This publication has only been useful so far for breeder ads and pictures of dog breeds of interest (not necessarily champions).

Dog News

Dog News (monthly magazine since 1923) Cincinnati, OH: A. Rosenthal.

-Media: scans/photocopies of portions of various issues and a few full issues in sheet protectors & 3-ring binders, due to unavailability of older issues on secondary market & unfeasibility of housing full volumes.

I am in the process of collecting articles, pictures, and breeder ads pertaining to Boxers, Giant Schnauzers, and Great Danes. I am concentrating on the earlier issues which are not available to buy or only available in poor condition on the secondary market, but are available at various libraries.

Dog World

Dog World (monthly magazine since 1930) West Yorkshire: Dog World, Ltd.

-Media: scans/photocopies of portions of various issues and a few full issues in sheet protectors & 3-ring binders, due to unavailability of older issues on secondary market & unfeasibility of housing full volumes.

I am in the process of collecting articles, pictures, and breeder ads pertaining to Boxers, Giant Schnauzers, and Great Danes. I am concentrating on the earlier issues which are not available to buy or only available in poor condition on the secondary market, but are available at various libraries.

Ferrets

Ferrets (bimonthly magazine since 1998) Irvine, CA: Fancy Publications.

-Media: full magazines in sheet protectors within 3-ring binders; I have every issue published.

This is one of the best Domestic Ferret magazines that keeps up with medical issues, including genetic diseases (adrenal cancer, lymphoma, deafness related to white coat color & markings, etc.).

Gilbert, B.

"The Weasels: A Sensible Look at a Family of Predators" New York & Toronto : Pantheon Books, , 1970.

-Media: notes & photocopies of sections of the book, due to unavailability on the secondary market.

This book is more an educational tool to disperse negative myths about the mustelids, but does a fairly good job at examining the basic difference between the mustelids and possible evolutionary reasons for such.

Haley, D.

"Sleek and Savage" Washington: Pacific Search, 1975.

-Media: notes & photocopies of sections of the book, due to unavailability on the secondary market.

Halstead, L.B.

"The Evolution of the Mammals" Peter Lowe, 1978.

-Media: notes & photocopies of sections of the book on canine & mustelid evolution.

This book contains a well-developed section on the canine branch of the carnivores, but doesn't have a lot on the mustelid family. It discusses mustelid body plan and a few other traits at more length than most other books on evolution.

King, C. M.

"The Natural History of Weasels and Stoats" London: Christopher Helm, 1989.

-Media: notes & photocopies of sections of the book, due to unavailability on the secondary market.

Kurten, B. and E. Anderson.

"Pleistocene Mammals of North America" New York: Columbia University Press, 1980.

-Media: notes & photocopies of sections of the book on the early evolution of the canoid carnivores.

This is an excellent book on early mustelid evolution and extinction discusses species that are not normally discussed outside of scientific literature.

MacDonald, David.

"The Velvet Claw: A Natural History of the Carnivores" London: BBC Books, 1992.

-Media: notes & photocopies of sections of the book on canoid carnivores.

This book has very clear and concise language that makes it stand out in books on evolution. Its weakness is its broadness however; it does a great job of discussing the evolution of carnivores in general, but it is not as successful in discussing the evolutions of families and species. It is more up-to-date on scientific study done at the time of publishing than most evolution books.

Morris, D.

"The Mammals: A guide to the living species" New York: Harper & Row, 1965.

-Media: notes & photocopies of sections of the book on canoid carnivores.

Mangrum, Marion

"Who's who in Boxers" College Station, Texas, 1950.

-Media: photocopy of book, due to unavailability of book on secondary market.

The greater portion of this book is dedicated to a list of all of the Boxer champions from 1915 to 1949 and a chapter with greater detail and pictures of the most exceptional of these champions. The chapter on the American Boxer standard examines how the standard has changed over the years and how this reflects the changes in the breed over the years. An entire chapter is given to coat color genetics. Many of the other chapters are contributions from other authors-most notably a chapter on breeding from Dr. Dan M.

Gordon's book. Mangrum was the owner of Caucasian Boxer Kennel in College Station, TX.

Meyer, Enno

"Judging the boxer: an illustrated standard of the breed" New York: Orange Judd Publishing. 1951 reprint of 1945 edition.

-Media: photocopy of book, due to unavailability of book on secondary market (however I currently have my eye on an okay condition copy that is currently on eBay; second copy I have seen for sale).

This is an illustration and text walk-through of the American Kennel Club's Boxer standard. It also explains various "tricks of the trade" in judging the Boxer. The sketches are well defined and realistic. The nicest part about this book is that it looks at the standard and ideal image of the Boxer for both the male and female of the breed. Meyer was a dog judge for the American Kennel Club and was internationally recognized as a judge.

Popular Dog series

Boxers (annual magazine) Irvine, CA: Fancy Publications Inc., 2002 (v. 11)

-Media: full magazine in sheet protector outside a binder.

This magazine is commonly called a "magabook" in the dog community because of its thickness. This issue contains ten pages on current research into genetic diseases of the Boxer, including the work on cardiomyopathy by Dr. Kathryn Meurs at Ohio State University, discussion on Dr. Wendy A. Wallner's (Boxer owner/breeder, veterinarian, and chair of the American Boxer Club's Health and Research Committee) contributions to the breeding of better Boxers in America, and Dr. Lowell Ackerman DVM PhD's book "The Genetic Connection: A Guide to Health Problems in Purebred Dogs".

Robinson, Roy.

"Genetics for Dog Breeders" New York: Pergamon Press, 1990.

-Media: notes taken from reading the book.

This is a fairly good canine genetics book geared towards breeders. Robinson places less emphasis in inbreeding and linebreeding than Willis and many the portions of this text are more thought out than Willis' books. However, Robinson is not as well read as Willis and the discussion on research in the field is lacking many important discoveries. The chapter of greatest interest is on coat color genetics and is by far one of the best I have read.

Shackelford, Richard M.

"Genetics of the Ranch Mink" New York, 1957.

-Media: notes taken from reading the book.

The book is a good overview of various documents traits and diseases of the Ranch Mink and the inheritance patterns noted by breeders. The majority of the discussion is concerned with coat color and texture since these are the traits most manipulated by breeders. There is also discuss on diseases which affect the fertility and growth of the Mink.

Stains, H. J.

"Orders and Families of Recent Mammals of the World" New York: John Wiley and Sons, 1984.

-Media: notes from & photocopies of the chapter on carnivores.

The bulk of the chapter is given to the organization/taxonomy of the mustelids. The only resource needed to gain an understanding of the taxonomy of this family. The only work missing is Dragoo's questionable work on skunks (he contends that they are a separate family from the other mustelids, but this is not accepted by the scientific community) which took place in the mid-1990's.

Stockmann, Friederun.

"My Life with Boxers" London, England: Coward-McCann, 1968.

-Media: notes taken from reading the book, photocopies of various pages/illustrations, electronic files of various sections (from various websites).

This book was originally published in German "Ein Leben mit Boxern". It is the autobiography of Frau Stockmann's life and the history of her kennel (von Dom Boxer Kennel). Stockmann was the single person who had the most influence on the early development of the breed and its import to America and Britain. The last portion of the book is a detailed discussion of the standard for the breed with beautiful illustrations by Stockmann (who is also known for her drawings and sculptures of Boxers). Since the text is written in a story format, it takes some time to pick out needed historical information.

Stockmann, Philip.

"The German Boxer" ["Der Deutsche Boxer" translated by Eleanor Linderholm-Wood] 1949.

-Media: electronic file from American Boxer Club website.

This is a translation of Herr Stockmann's article that was written in 1937. The English translation was printed in the American Boxer Club "Boxer Club News" in 1949 & 1950. The article gives a brief history of the breed.

Wayne, R.K., Benveniste, R.E., Janczewski, D.N. and O'Brien, S.J.

"Carnivore behaviour, ecology and evolution" London: Chapman and Hall, 1989.

-Media: notes from & photocopies of the chapter "Molecular and biochemical evolution of the Carnivora".

Welton, Michele.

"Your Purebred Puppy: A Buyer's Guide" New York: Henry Holt, 2000 (2nd Ed).

-Media: notes taken from reading the book.

This is one of the best buyer education books I have read. It emphasizes the importance of getting puppies from breeders that test their breeding stock for genetics diseases and discusses the genetics diseases that affect each breed.

Willis, Malcolm B.

"Genetics of the Dog" New York: Howell Book House, 1989.

-Media: notes taken from reading the book.

This is *the* handbook for serious dog breeders and Willis has been recognized by many as

the foremost writer on canine genetics. Willis has written about a half dozen books on canine genetics and is a German Shepard breeder (as well as being educated in the field of genetics). The book is written in a step-by-step fashion, building in level of terminology that allows the reader to keep up and not feel overwhelmed. Almost every scientific study on canine genetics is mentioned and/or discussed at length.

Willis, Malcolm B.

"Practical Genetics for Dog Breeders" Hungry Minds Inc., 1992.

-Media: notes taken from reading the book.

This is not an updated version of Willis previous book-rather a watered-down version geared more for breeders than researchers. The book covers practical aspects at much greater length, but has cut much of the discussion on canine genetics research.

Various primary literature articles

-Media: photocopies/printings of various scientific journal articles on canine genetics that I have read or are in the process of reading, compiled in sheet protectors within 3-ring binders.

Selection from Canine binders:

- Johnson GS, Turrentine MA, Kraus KH. "Canine von Willebrand's disease. A heterogeneous group of bleeding disorders" *Vet Clin North Am Small Anim Pract.* 1988 Jan;18(1):195-229.
- Patterson DF, Haskins ME, Jezyk PF, Giger U, Meyers-Wallen VN, Aguirre G, Fyfe JC, Wolfe JH. "Research on genetic diseases: reciprocal benefits to animals and man" *J Am Vet Med Assoc.* 1988 Nov 1;193(9):1131-44.
- Parker MT, Turrentine MA, Johnson GS. "von Willebrand factor in lysates of washed canine platelets" *Am J Vet Res.* 1991 Jan;52(1):119-25.
- Guevara-Fujita ML, Loechel R, Venta PJ, Yuzbasiyan-Gurkan V, Brewer GJ. "Chromosomal assignment of seven genes on canine chromosomes by fluorescence in situ hybridization" *Mamm Genome.* 1996 Apr;7(4):268-70.
- Venta PJ, Brouillette JA, Yuzbasiyan-Gurkan V, Brewer GJ. "Gene-specific universal mammalian sequence-tagged sites: application to the canine genome" *Biochem Genet.* 1996 Aug;34(7-8):321-41.
- Mellersh CS, Ostrander EA. "The canine genome" *Adv Vet Med.* 1997;40:191-216.
- Yuzbasiyan-Gurkan V, Blanton SH, Cao Y, Ferguson P, Li J, Venta PJ, Brewer GJ. "Linkage of a microsatellite marker to the canine copper toxicosis locus in Bedlington terriers" *Am J Vet Res.* 1997 Jan;58(1):23-7.
- Schmutz SM, Schmutz JK. "Heritability estimates of behaviors associated with hunting in dogs" *J Hered.* 1998 May-Jun;89(3):233-7.
- Meurs KM. "Insights into the heritability of canine cardiomyopathy" *Vet Clin North Am Small Anim Pract.* 1998 Nov;28(6):1449-57.
- Meurs KM, Spier AW, Miller MW, Lehmkuhl L, Towbin JA. "Familial ventricular arrhythmias in Boxers" *J Vet Intern Med.* 1999 Sep-Oct;13(5):437-9.

- Brouillette, J.A., Andrew, J.R., and Venta, P.J. "Estimate of sequence diversity in dogs using a pool-and-sequence method" *Mamm. Genome* 2000;11:1079-1086.
- Meurs KM, Spier AW, Wright NA, Hamlin RL. "Comparison of in-hospital versus 24-hour ambulatory electrocardiography for detection of ventricular premature complexes in mature Boxers" *J Am Vet Med Assoc.* 2001 Jan 15;218(2):222-4.
- Meurs KM, Miller MW, Wright NA. "Clinical features of dilated cardiomyopathy in Great Danes and results of a pedigree analysis: 17 cases (1990-2000)" *J Am Vet Med Assoc.* 2001 Mar 1;218(5):729-32.
- Spier AW, Meurs KM, Muir WW, Lehmkuhl LB, Hamlin RL. "Correlation of QT dispersion with indices used to evaluate the severity of familial ventricular arrhythmias in Boxers" *Am J Vet Res.* 2001 Sep;62(9):1481-5.
- Parker HG, Yuhua X, Mellersh CS, Khan S, Shibuya H, Johnson GS, Ostrander EA. "Meiotic linkage mapping of 52 genes onto the canine map does not identify significant levels of microrearrangement" *Mamm Genome.* 2001 Sep;12(9):713-8.
- Schmutz SM, Berryere TG, Goldfinch AD. "TYRP1 and MC1R genotypes and their effects on coat color in dogs" *Mamm Genome.* 2002 Jul;13(7):380-7.
- Meurs KM, Spier AW, Wright NA, Atkins CE, DeFrancesco TC, Gordon SG, Hamlin RL, Keene BW, Miller MW, Moise NS. "Comparison of the effects of four antiarrhythmic treatments for familial ventricular arrhythmias in Boxers" *J Am Vet Med Assoc.* 2002 Aug 15;221(4):522-7.
- Gordon D, MB Corwin, CS Mellersh, EA Ostrander, J Ott. "Establishing Appropriate Genome-Wide Significance Levels for Canine Linkage Analyses" *Journal of Heredity.* 2003; 94(1): 1-7.
- Hitte C, TD Lorentzen, R Guyon, L Kim, E Cadieu, HG Parker, P Quignon, JK Lowe, B Gelfenbeyn, C Andre, EA Ostrander, F Galibert. "Comparison of MultiMap and TSP/CONCORDE for Constructing Radiation Hybrid Maps" *Journal of Heredity.* 2003; 94(1): 9-13.
- Wagner JL. "Molecular Organization of the Canine Major Histocompatibility Complex" *Journal of Heredity.* 2003; 94(1): 23-26.
- Kijas JW, BJ Miller, SE Pearce-Kelling, GD Aguirre, GM Acland. "Canine Models of Ocular Disease: Outcross Breedings Define a Dominant Disorder Present in the English Mastiff and Bull Mastiff Dog Breeds" *Journal of Heredity.* 2003; 94(1): 27-30.
- Todhunter RJ, SP Bliss, G Casella, R Wu, G Lust, NI Burton-Wurster, AJ Williams, RO Gilbert, GM Acland. "Genetics Structure of Susceptibility Traits for Hip Dysplasia and Microsatellite Informativeness of an Outcross Canine Pedigree" *Journal of Heredity.* 2003; 94(1): 39-48.
- Oberbauer AM, DI Grossman, DN Irion, AL Schaffer, ML Eggleston, TR Famula. "The Genetics of Epilepsy in the Belgian Tervuren and Sheepdog" *Journal of Heredity.* 2003; 94(1): 57-63.
- Switonski M, I Szczerbal, J Grewling, P Antosik, W Nizanski, F Yang. "Two Cases of Infertile Bitches With 78,XX/77,X Mosaic Karyotype: A Need for Cytogenetic Evaluation of Dogs With Reproductive Disorders" *Journal of Heredity.* 2003; 94(1): 65-68.

- Schmutz SM, TG Berryere, NM Ellinwood, JA Kerns, GS Barsh. "MCIR Studies in Dogs With Melanistic Mask or Brindle Patterns" *Journal of Heredity*. 2003; 94(1): 69-73.
- Kerns JA, M Olivier, G Lust, GS Barsh. "Exclusion of Melanocortin-I Receptor (McIr) and Agouti as Candidates for Dominant Black in Dogs" *Journal of Heredity*. 2003; 94(1): 75-79.
- Irion DN, AL Schaffer, TA Famula, ML Eggleston, SSHughes, NC Pedersen. "Analysis of Genetic Variation in 28 Dog Breed Populations With 100 Microsatellite Markers" *Journal of Heredity*. 2003; 94(1): 81-87.
- DeNise S, E Johnston, J Halverson, K Marshall, D Rosenfeld, S McKenna, T Sharp, J Edwards. "Power of exclusion for parentage verification and probability of match for identity in American Kennel Club breeds using 17 canine microsatellite markers" *Animal Genetics*. 2004; 35: 14-17.

Selections from Mustelid binders:

- Simpson G.G. The principles of classification and a classification of mammals. *Bulletin of the American Museum of Natural History*. 1945; 85:1-350.
- Henderson, F.R., P.F. Springer and R. Adrian. The black-footed ferret in South Dakota. South Dakota Department of Game, Fish, and Parks Technical Bulletin #4 p.37. 1969.
- Henderson, R.R., P.F. Springer and R. Adrian. The black-footed ferret in South Dakota. South Dakota Department of Game, Fish, and Parks Technical Bulletin #4. 1974.
- United States. State and Private Forestry. Black-footed ferret, Santa Fe, New Mexico. 1982.
- True, F. W. The American Ferret. *Science*. 1885; 150: 549-550.
- Anderson, E., S.C. Forrest, T.W. Clark & L. Richardson. Paleobiology, biogeography, & systematics of the black-footed ferret, *Mustela nigripes* (Audubon & Bachman), 1851. *Great Basin Naturalist Memoirs*. 1986; 8:11-62.
- Groves, C.R., and T.W. Clark. Determining minimum population size for recovery of the black-footed ferret. *Great Basin Naturalist Memoirs*. 1986; 8:150-159.
- Wyoming Game & Fish Department. A strategic plan for the management of black-footed ferrets in Wyoming. Wyoming Game & Fish Department, Cheyenne, Wyoming. 1987.
- Clark, T.W. Black-footed ferret recovery: A progress report. *Conservation Biology*. 1987; 1:8-11.
- Forrest, S.C., D. Biggins, L. Richardson, T.W. Clark, T.M. Campbell, K.A. Fagerstone, and E.T. Thorne. Populations attributes for the black-footed ferret (*Mustela nigripes*) at Meeteetse, Wyoming, 1981-1985. *Journal of Mammalogy*. 1988; 69: 261-273.
- O'Brien, S.J., J.S. Martenson, M.A. Eichelberger, E.T. Thorne, and F. Wright. Genetic variation and molecular systematics of the black-footed ferret. p. 21-33. In: U.S. Seal, E.T. Thorne, M.A. Bogen, and S.H. Anderson (eds.), *Conservation biology and the black-footed ferret*. Yale University Press, New York, 1989.

- Lacy, R.C. and T.W. Clark. Genetic variability in black-footed ferrets: Past, present, and future. p. 83-106. In: U.S. Seal, E.T. Thorne, M.A. Bogan, and S.H. Anderson (eds.), Conservation biology and the black-footed ferret. Yale University Press, New York, 1989.
- Ballou, J.D. and R. Oakleaf. Demographic and genetic captive breeding recommendations for black-footed ferrets. p. 247-267. In: U.S. Seal, E.T. Thorne, M.A. Bogan, and S.H. Anderson (eds.), Conservation biology and the black-footed ferret. Yale University Press, New York, 1989.
- Bryant, H. N., A. P. Russell, FLS, and W. D. Fitch. Phylogenetic relationships within the extant Mustelidae (Carnivora): appraisal of the cladistic status of the Simpsonian subfamilies. Zoological Journal of the Linnean Society. 1993; 108:301-334.
- Russell, W.C., E.T. Thorne, R. Oakleaf, and J.D. Ballou. The genetic basis of black-footed ferret reintroduction. Conservation Biology. 1994; 8:263-266.
- Frankham, R. Inbreeding and Extinction: A Threshold Effect. Conservation Biology. 1995; 9:792-799.
- Ferguson, S.H., J.A. Virgl & S. Lariviere. Evolution of delayed implantation and associated grade shifts in life history traits of North American carnivores. Ecoscience. 1996; 3: 7-17.
- Reading, R.P., T.W. Clark, A. Vargas, L.R. Hanebury, B.J. Miller, and D. Biggins. Recent directions in black-footed ferret recovery. Endangered Species Update. 1996; 13:1-6.
- Dragoo, J.W. & R.L. Honeycutt. Systematics of mustelid-like carnivores. J. Mammal. 1997; 78: 426-443.
- US Fish & Wildlife Service. Black-footed ferret: *Mustela nigripes*. Washington, D.C, 1998.
- Flynn, J. J. and M. A. Nedbal. Phylogeny of the Carnivora (Mammalia): Congruence vs. incompatibility among multiple data sets. Molecular Phylogenetics and Evolution. 1998; 9:414-426.
- Olaf, R.P., J.L. Gittleman, & A. Purvis. Building large trees by combining phylogenetic information: a complete phylogeny of the extant Carnivora (Mammalia). Biological Reviews. 1998; 74:143-175.
- Dobson, A. and A. Lyles. Black-footed ferret recovery. Science. 2000; 288:985-988.
- Owen, P.R., C.J. Bell, and E.M. Mead. Fossils, diet, and conservation of black-footed ferrets (*Mustela nigripes*). Journal of Mammalogy. 2000; 81:422-433.
- Aschmader, C. New chance for ferrets? International Wildlife. Sept/Oct 2001; 31: 38-43.

My collection is awaiting the arrival or potential arrival of:

A package of various Australian dog magazines with features on Boxers, Great Danes, and Giant Schnauzers.

(In transit from Australia.)

Boxer-Klub E. V. [German Boxer Dog Club].

"Stammbuch Fur Deutsche Boxer"

Volumes 4-7.

(In transit from Germany.)

Grandin, Temple (editor)

"Genetics and the Behavior of Domestic Animals" San Diego, CA: Academic Press, 1998.

(Notes)

Joergensen, Gunnar (editor)

"Mink Production" Denmark: Scientifur, 1985.

(Notes)

King, A.W.

"Genetics of the Mink" Duluth, Minnesota: International Publishing Co., 1951.

(Notes)

Mangrum, Marion

"Who's who in Boxers" College Station, Texas, 1950.

(Planning to bid on auction.)

Meyer, Enno

"Judging the boxer: an illustrated standard of the breed" New York: Orange Judd Publishing. 1948 reprint of 1945 edition.

(Planning to bid on auction.)

Onstott, Kyle and Philip Onstott (revising)

"The New Art of Breeding Better Dogs" New York: Howell Book House Inc., 1967.

(Notes. Book claims to be in easy to understand language, but it is nowhere near it.)

Robinson, Roy.

"Genetics for Dog Breeders" New York: Pergamon Press, 1990.

(To join the notes previously taken.)

Willis, Malcolm B.

"Genetics of the Dog" New York: Howell Book House, 1989.

(To join the notes previously taken.)

Willis, Malcolm B.

"Practical Genetics for Dog Breeders" Hungry Minds Inc., 1992.

(To join the notes previously taken.)