



شبكة المعلومات الجامعية

بِسْمِ اللَّهِ الرَّحْمَنِ الرَّحِيمِ



شبكة المعلومات الجامعية  
@ ASUNET



# شبكة المعلومات الجامعية التوثيق الالكتروني والميكرو فيلم





شبكة المعلومات الجامعية

# جامعة عين شمس

التوثيق الالكتروني والميكرو فيلم

## قسم

نقسم بالله العظيم أن المادة التي تم توثيقها وتسجيلها  
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# بالرسالة صفحات لم ترد بالاصل



Cairo University  
Faculty of Veterinary Medicine  
Biochemistry and Chemistry of Nutrition

**BIOCHEMICAL EFFECTS OF DIFFERENT PROTEIN  
LEVELS AND ORIGINS IN POULTRY RATION**

*A thesis Presented*

**By**

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for the Ph.D Degree

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2006

بِسْمِ اللَّهِ الرَّحْمَنِ الرَّحِيمِ

"قَالُوا سُبْحَانَكَ لَا عِلْمَ لَنَا إِلَّا مَا  
عَلَّمْتَنَا إِنَّكَ أَنْتَ الْعَلِيمُ الْحَكِيمُ"

صدق الله العظيم

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*TO ALL MY FAMILY*

*MY PARENTS*

*MY HUSBAND*

*MY LOVELY SON*

*AND MY BEAUTY GIRL*

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# **ABBREVIATION**

<b>A.A</b>	Amino Acids
<b>A/G</b>	Albumin/Globulin ratio
<b>Ala</b>	Alanine
<b>ALT</b>	Alanine amino transferase
<b>ANOVA</b>	Analysis of Variance
<b>A..O.A.C</b>	Association of Official Analytical Chemicals
<b>Arg</b>	Arginine
<b>Asp.A.</b>	Aspartic Acid
<b>AST</b>	Aspartate amino transferase
<b>CGM</b>	Corn gluten meal
<b>CSM</b>	Cotton Seed meal
<b>Cys</b>	Cysteine
<b>DF</b>	Degree of freedom
<b>ESS</b>	Egyptian Standard Specifications
<b>FAO</b>	Food and Agriculture Organization
<b>Fig.</b>	Figure
<b>FM</b>	Fish meal
<b>Glu.A</b>	Glutamic Acid
<b>Gly</b>	Glycine
<b>HDL</b>	High Density Lipoprotein
<b>His</b>	Histidine
<b>HMG-Co A</b>	$\beta$ Hydroxy- $\beta$ methyl glutaryl Coenzyme A
<b>IFFO</b>	International Fish meal and Fish oil Organization
<b>Iso.Leu</b>	Isoleucine
<b>LDL</b>	Low Density Lipoprotein
<b>Leu</b>	Leucine

<b>LSD</b>	Least Significant Difference
<b>Lys</b>	Lysine
<b>MBM</b>	meat and bone meal
<b>MDA</b>	Malondialdehyde
<b>Met</b>	Methionine
<b>MM</b>	meat meal
<b>M.S</b>	Mean Square
<b>NRC</b>	National Research Council
<b>O.CPC</b>	O-cresol phthaleine complex
<b>P</b>	Probability
<b>Phe</b>	Phenylalanine
<b>Pro</b>	Proline
<b>PUFA</b>	Polyunsaturated Fatty acid
<b>SBM</b>	Soyabean meal
<b>SD</b>	Standard deviation
<b>SE</b>	Standard Error
<b>Ser</b>	Serine
<b>Sig.</b>	significance
<b>S.S</b>	Sum of Square
<b>T3</b>	triiodothyronine
<b>T4</b>	tetraiodothyronine
<b>TBA</b>	Thiobarbituric acid
<b>Thr</b>	Threonine
<b>TVBN</b>	Total Volatile basic Nitrogen
<b>Tyr</b>	Tyrosine
<b>U/L</b>	Unit/Liter
<b>Val</b>	Valine

# **CONTENTS**

	<i>(page)</i>
1-INTRODUCTION	(1)
2-REVIEW OF LITERATURE	(6)
2-1. Animal protein in poultry diets	(6)
2.1.1 Fish meal	(7)
2.1.2 Meat and Bone meal	(14)
2-2. Plant protein in poultry diets	(18)
2.2.1 Corn Gluten meal	(19)
2.2.2 Soyabean meal	(22)
3-MATERIAL AND METHODS	(28)
3.1. Materials	(28)
3.2 Methods	(32)
4- RESULTS	(44)
5-DISUSSION	(147)
6-SUMMARY	(169)
7-REFERENCES	(174)
8-ARABIC SUMMARY	

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# INTRODUCTION