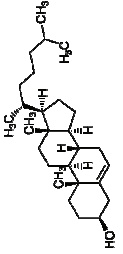
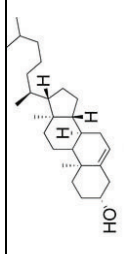
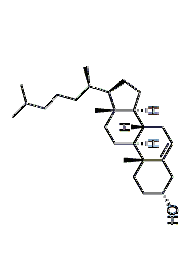
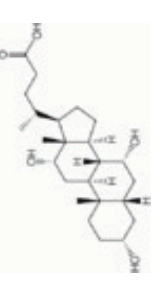
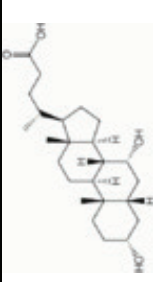
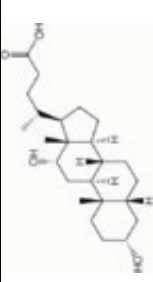


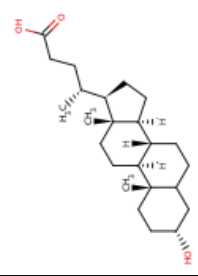
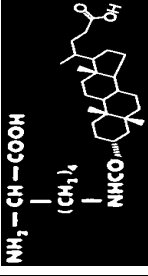
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Substance (Chemical) Names	Chemical Class	Chemical Structure	Substance Made From and By	Supports Mammalian Cell Growth	Toxogenic (T)	Mutagenic (M) (Strong to Weak)	Carcinogenic (C) (Strong to Weak)	Other Pathogenic Etiology	Author Bibliographic Reference
1. <b>Dietary Cholesterol</b> [5 cholesten 3-beta -ol] <b>(Nat-Cholesterol)</b>	Exogenous <b>Polycyclic Aromatic Cholesten</b> <b>Natural Sterol</b>		Animal Meat and Dairy <b>BY</b> Liver And Intestinal Cells	<b>YES</b>	<b>T</b>	<b>M</b>	<b>C</b> (strong)	Source of the Atherosclerotic Implicated <b>Oxysterols</b> GallStones	<b>I. Hieger, 1959</b> <b>P. Cruse, 1978</b> <b>Fang Xu, 2005</b>
2. <b>Dietary Cholesterol</b> [5 cholesten 3-beta -ol] <b>(En-Cholesterol)</b>	Exogenous <b>Polycyclic Aromatic Cholesten</b> <b>Enantiomer Sterol</b>		Animal Meat and Dairy <b>BY</b> Liver And Intestinal Cells	<b>YES _ 1 st Generation</b> <b>NO _ 2 nd Generation</b>	<b>T</b>	<b>M</b>	<b>C</b> (strong)		<b>I. Hieger, 1959</b> <b>P. Cruse, 1978</b>
3. <b>Dietary Cholesterol</b> [5 cholesten 3-alpha -ol] <b>(Epi-Cholesterol)</b>	Exogenous <b>Polycyclic Aromatic Cholesten</b> <b>Epimere Sterol</b>		Animal Meat and Dairy <b>BY</b> Liver And Intestinal Cells	<b>NO</b>	<b>T</b>	<b>M</b>	<b>C</b> (strong)	Gall Stones	<b>I. Hieger, 1959</b> <b>FM, Harold, 1959</b> <b>P. Cruse, 1978</b> <b>Fang XU, 2005</b>

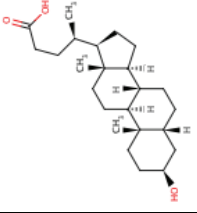
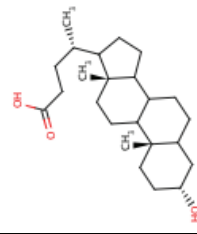
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Substance (Chemical) Names	Chemical Class	Chemical Structure	Substance Made From and By	Supports Mammalian Cell Growth	Toxogenic (T)	Mutagenic (M) (Strong to Weak)	Carcinogenic (C) (Strong to Weak)	Other Pathogenic Etiology	Author Bibliographic Reference
<b>4. Cholic Acid (CA)</b> (3-alpha, 7-alpha, 12-alpha Trihydroxy 5-beta-Cholenoic Acid) (3-alpha-C24 BA)	Major Primary Bile Acid (BA) Steroid		Endogenous Cholesterol and Dietary Cholesterol BY Liver	NO	T		C (weak)		H. Nittono, 1980
<b>5. Chenodeoxycholic Acid (CDCA)</b> (3-alpha, 7-alpha Dihydroxy 5-beta-Cholenoic Acid) (3-alpha-C24 BA)	Major Primary Bile Acid Steroid		Dietary Cholesterol BY Liver	NO	T		C (moderate)		T. Soma, 2006 J.L. Tong, 2008 H. Nittono, 1980
<b>6. Deoxycholic Acid (DCA)</b> (3-alpha, 12-alpha-Dihydroxy 5-beta-Cholenoic Acid) (3-alpha-C24 BA)	Major Secondary Bile Acid Steroid		CA Primary Bile Acid Steroid BY Colonic Pathogenic Anaerobic Bacteria	NO	T	M (weak)	C (weak)		J.W. Cook, 1940 H. Nittono, 1980 A. van Faassen, 2004

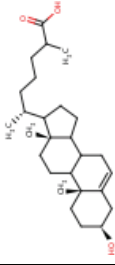
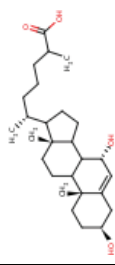
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Substance (Chemical) Names	Chemical Class	Chemical Structure	Substance Made From And By	Supports Mammalian Cell Growth	Toxogenic (T)	Mutagenic (M) (Strong to Weak)	Carcinogenic (C) (Strong to Weak)	Other Pathogenic Etiology	Author Bibliographic Reference
<b>7. Lithocholic Acid (LCA)</b> (3-alpha-Hydroxy-5-beta Cholenic Acid) (3-alpha-C24 BA)	Primary & Secondary Mono-hydroxyl Bile Acid Steroid		<b>FETAL &amp; NEONATAL:</b> Dietary 24, 25, 27 Hydroxy-Cholesterol BY Liver. <b>ADULTS:</b> CDCA Primary Bile Acid BY Colonic Pathogenic Anaerobic Bacteria.	NO	T		C (strong)	Cholestasis/ Gall Stones Liver toxicity Liver Cirrhosis Heart toxicity Pancreas toxicity	T. Narisawa, 1974 JC Kawalek, 1977 D. Oelberg, 1984 H. Nittono, 1980 RH Palmer, 1966
<b>8. Epsilon-Lithocholyl L-Lysine (Tissue Bound LCA)</b> (3-alpha-Hydroxy-5-beta Cholenic Acid – epsolon-L-Lysine)	Major Secondary Mono-hydroxyl Bile Acid Steroid Tissue Bound		<b>ADULTS:</b> CDCA BY Liver, Heart And Breast	NO	T [Hepato-toxic] [Cardio-toxic]		C (strong)	Liver toxicity Liver Cirrhosis Liver Cancer Heart toxicity Cardiac Infarction Congenital Heart Diseases Breast cancer	PP Nair, 1988

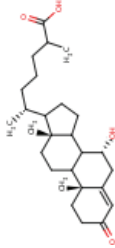
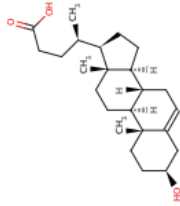
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Substance (Chemical) Names	Chemical Class	Chemical Structure	Substance Made From and By	Supports Mammalian Cell Growth	Toxogenic (T)	Mutagenic (M) (Strong to Weak)	Carcinogenic (C) (Strong to Weak)	Other Pathogenic Etiology	Author Bibliographic Reference
<b>9. Iso-Lithocholic Acid (I-LCA)</b> (3-beta-Hydroxy-5-beta Cholenic Acid) (Epilithocholic Acid) (3-beta-C24 BA)	Major Secondary <b>Mono-hydroxyl Bile Acid Steroid</b> <b>Polycyclic Aromatic</b> Epimere Isomer of LCA		<b>ADULTS:</b> CDCA Primary Bile Acid <b>BY</b> <i>Colonic Pathogenic Anaerobic Bacteria</i> <b>NEONATALS:</b> Dietary 24, 25, 27 Hydroxy-Cholesterol BY Liver	<b>NO</b>	<b>T</b>  [Hepatotoxic]		<b>C</b> (strong)	Unsaturated, <b>Mono-Hydroxy C-24 Bile Acid:</b> Cholestasis/ Gall Stones Other organ Toxicity possible.	T. Narisawa, 1974 JC Kawalek, 1977 D. Oelberg, 1984 J. Gustafsson, 1987
<b>10. Allo-Lithocholic Acid (Allo-LCA)</b> (3-alpha-Hydroxy-5-alpha Cholenic Acid) (3-alpha-C24 BA)	Liver disease Infant <b>Primary Mono-hydroxyl Bile Acid Steroid</b> <b>Polycyclic Aromatic</b> LCA isomer		Infants with Liver diseases: <b>Endogenous &amp; Dietary</b> 24, 25, 27 Hydroxy-Cholesterol BY Liver	<b>NO</b>	<b>T</b>		<b>C</b> (strong)	Infant liver diseases. Unsaturated, <b>Mono-Hydroxy C-24 Bile Acid:</b> Cholestasis/ Gall Stones. Other organ Toxicity possible.	<b>I. Makino, 1971</b>

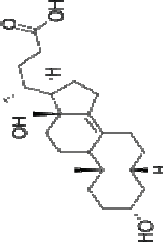
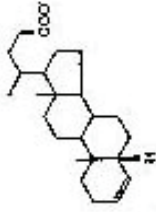
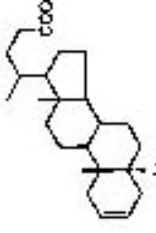
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Substance (Chemical) Names	Chemical Class	Chemical Structure	Substance Made From and By	Supports Mammalian Cell Growth	Toxicogenic (T)	Mutagenic (M) (Strong to Weak)	Carcinogenic (C) (Strong to Weak)	Other Pathogenic Etiology	Author Bibliographic Reference
11. <u>3-beta Hydroxy-5-Cholestenoic Acid</u> (3 beta Hydroxy-Cholestenolate) (3-beta-C27 BA)	<i>Mono-hydroxy</i> <b>Bile Acid</b> Intermediate Steroid <b>Polycyclic Aromatic</b> Cholesten		Oxysterol: Dietary 24, 25, 27 Hydroxy-Cholesterol BY Fetal, Infant, Children and Adult Livers	NO	T	Suspect	Suspect	Unsaturated, <u>Mono-Hydroxy</u> C-27 Bile Acid: Cholestasis/ Gall Stones. Blood Serum Unconjugated BA	I. Makino, 1971 M. Axelson, 1988
12. <u>3-beta, 7 alpha Dihydroxy-5-Cholestenoic Acid</u> (3-beta-C27 BA)	Intermediate Bile Acid Steroid <b>Polycyclic Aromatic</b> Cholesten		3-beta-Hydroxy-5-Cholestenoic Acid BY Liver	NO	T	Suspect	Suspect	Blood Serum Unconjugated Unsaturated, C-27Bile Acid	M. Axelson, 1988

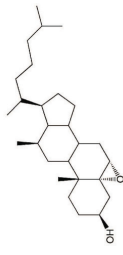
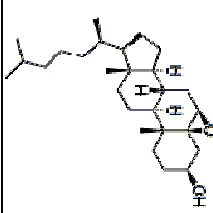
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Substance (Chemical) Names	Chemical Class	Chemical Structure	Substance Made From and By	Supports Mammalian Cell Growth	Toxogenic (T)	Mutagenic (M) (Strong to Weak)	Carcinogenic (C) (Strong to Weak)	Other Pathogenic Etiology	Author Bibliographic Reference
13. <u>7-alpha Hydroxy-3-oxo-4-Cholestenic Acid</u> (3-ketone C27 BA)	Intermediate Bile Acid Steroid <b>Polycyclic Aromatic</b> Cholesten		3-beta, 7-alpha Dihydroxy-5-Cholestenic Acid By Liver	NO	T	Suspect	Suspect	Blood Serum Unconjugated Unsaturated, C-27Bile Acid	M. Axelson, 1988
14. <u>6 alpha-Hydroxy-5 beta-cholen 3-oxo-24 oic Acid</u>	Tertiary Bile Acid Steroid <b>Polycyclic Aromatic</b>	NA	Primary Bile Acid CA By Pathogenic Anaerobic Bact. <i>Clostridium</i>	NO	T	M	C (strong)		R.W. Owen, 1985 I. Bjorkhem, 1973 LF, Fieser, 1955
15. <u>3-beta Hydroxy-5-beta-Cholenic Acid</u> (3-beta-C24 BA)	Neonatal and Child Primary <b>Mono-hydroxyl Bile Acid Steroid Aromatic Polycyclic</b> Cholesten		Oxysterol: Dietary 24, 25, 27 Hydroxy-Cholesterol BY Neonatal & Children Liver	NO	T	Suspect	Suspect	C-27 Unsaturated, <u>Mono-Hydroxy Bile Acid: Cholstasis/Gall Stones.</u> In Neonatal urine, meconium, blood & bile. Premature risk factor	NB, Javitt, 1986

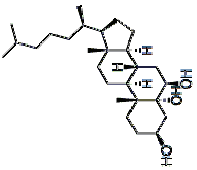
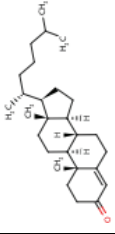
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Page 16-7									
Substance (Chemical) Names	Chemical Class	Chemical Structure	Substance Made From and By	Supports Mammalian Cell Growth	Toxogenic (T)	Mutagenic (M) (Strong to Weak)	Carcinogenic (C) (Strong to Weak)	Other Pathogenic Etiology	Author Bibliographic Reference
<b>16. Apocholeic Acid</b> [3-alpha, 12-alpha, Delta 8 Dihydroxy Cholenoic Acid]	Tertiary Bile Acid Steroid <b>Polycyclic Aromatic</b> Cholesten		<b>CA</b> Primary Bile Acid Steroid <b>BY</b> <i>Colonic Pathogenic Anaerobic Bacteria</i>	<b>NO</b>	<b>T</b>	<b>M</b>	<b>C</b> (moderate)		<b>A. Lacassagne, 1966</b>
<b>17. Delta 3, 5-Beta-Cholenoic Acid</b>	Tertiary Bile Acid Steroid <b>Polycyclic Aromatic</b> Cholesten		<b>Lithocholic Acid BY</b> <i>Colonic Pathogenic Anaerobic Bacteria</i>	<b>NO</b>	<b>T</b>	<b>Suspect</b>	<b>Suspect</b>		<b>L. Robben, 1989</b>
<b>18. Delta 2, 5-Alpha-Cholenoic Acid</b>	Tertiary Bile Acid Steroid <b>Polycyclic Aromatic</b> Cholesten		<b>Lithocholic Acid BY</b> <i>Colonic Pathogenic Anaerobic Bacteria</i>	<b>NO</b>	<b>T</b>	<b>Suspect</b>	<b>Suspect</b>		<b>L. Robben, 1989</b>

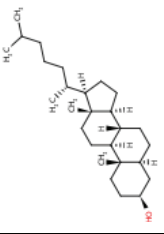
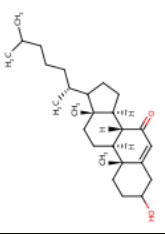
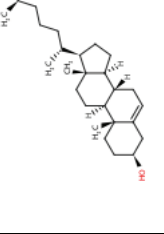
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<b>19. <u>alpha Epoxi-Cholesterol</u></b> (5-alpha, 6-alpha epoxy cholesterol-3-beta-ol)	<b>Oxysterol</b>		Endogenous Cholesterol <u>and</u> Dietary Cholesterol <b>BY</b> Enzyme Free Natural Oxidosis	<b>NO</b>	<b>T</b>	<b>M</b> (weak)	<b>Suspect</b>	<b>In Artherosclerosis Placques</b> <b>Skin Cancer</b> <b>Breast Cancer</b>	<b>S. Garcia-Cruset, 2001</b> <b>R. Morin, 1991</b> <b>A. Sevanian, 1984</b>
<b>20. <u>beta Epoxi-Cholesterol</u></b> (5-beta, 6-beta epoxy cholesterol-3-beta-ol)	<b>Oxysterol</b>		Endogenous Cholesterol <u>and</u> Dietary Cholesterol <b>BY</b> Enzyme Free Natural Oxidosis	<b>NO</b>	<b>T</b>	<b>M</b> (weak)	<b>Suspect</b>	<b>Colon Cancer</b> <b>In Artherosclerosis Placques</b> <b>Prostate Cancer</b> <b>Atherosclerosis Oxy-LDL</b>	<b>R. Morin, 1991</b> <b>A. Sevanian, 1984</b> <b>S. Garcia-Cruset, 2001</b>

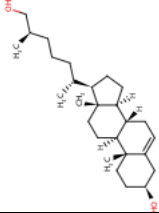
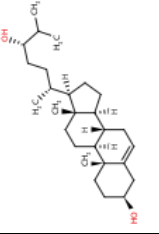
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<b>21. Cholestane-Triol</b> (cholestane-3-beta,5-alpha,6-beta-triol)	<b>Fecal Steroid</b>		<b>Beta Epoxy-Cholesterol</b> BY Colonic Pathogenic Anaerobic Bacteria	<b>MO</b>	<b>T</b>	<b>M</b> (weak)		<b>Colon cancer</b> <b>Atherosclerosis:</b> 1.) vascular cell injury 2.) smooth muscle injury 3.) LDL receptor function alteration 4.) enhance cholesteryl ester accumulation 5.) inhibit production of prostacyclin 6.) induce laboratory atherosclerosis	<b>Robert Morin, 1991</b> <b>Reddy &amp; Wynder, 1977</b> <b>Kuang Peng, 1990</b> <b>Xu, Fang, 2005</b>
<b>22. 4-Cholestenone</b> (4-Choleten-3-one)	<b>Fecal Steroid</b> <b>Polycyclic Aromatic</b> <b>Cholesten</b>		<b>Endogenous Cholesterol</b> BY Colonic Pathogenic Anaerobic Bacteria and <b>Dietary Cholesterol</b> BY Liver	<b>NO</b>	<b>T</b>	<b>M</b>	<b>C</b>	<b>Colon Cancer</b>	<b>HK Kaul, 1987</b> <b>CW Nichols, 1960</b>

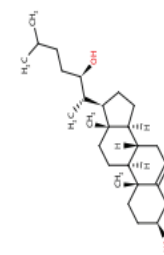
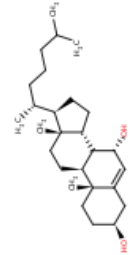
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<b>23. Cholestanol</b> (5 alpha-cholestan-3 beta-ol)	<b>Fecal Steroid Cholestan</b>		Dietary Cholesterol & Endogenous Cholesterol <b>BY</b> Colonic Pathogenic Anaerobic Bacteria	<b>NO</b>	<b>T</b> Neurotoxin			<b>Cerebrotendinous xanthomatosis (CTX)</b>	<b>D. W. Russell, 2003</b>
<b>24. 7-Keto-Cholesterol</b> (Cholest-5-en-3- beta-ol-7-one)	<b>Oxysterol Polycyclic Aromatic Cholesten Sterol</b>		<b>Dietary Cholesterol</b> <b>BY</b> Enzyme Free Natural Oxidosis	<b>NO</b>	<b>T</b>	<b>Suspect</b>	<b>Suspect</b>	<b>Second Main Atherosclerotic Plaque Oxysterol</b>	<b>HMBD</b> <b>S. Garcia-Cruset, 2001</b>
<b>25. 27-Hydroxy-Cholesterol</b> (27-OHC)  [27-OHC = 26-OHC]	<b>Oxysterol Of Lungs Polycyclic Aromatic Sterol</b>		<b>Dietary Cholesterol</b> <b>BY Fetal, Infant and Adult Lung Arterial Cells Sterol 27-Hydroxylase Enzyme</b>	<b>NO</b>	<b>T</b>	<b>Suspect</b>	<b>Suspect</b>	<b>Enhanced in Atherosclerosis. Enhanced in Alzheimer's Disease.</b>	<b>Human Meta-Bolome Project Database (HMBD)</b> <b>S. Garcia-Cruset, 2001</b>

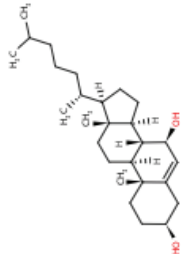
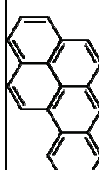
**TABLE III. INVENTORY OF MUTAGENIC, CARCINOGENIC, ATHEROGENIC AND TOXOGENIC AGENTS ETIOLOGICALLY IMPLICATED IN COLORECTAL CANCER, HEART DISEASE AND OTHER CHRONIC DISEASES AND SYNDROMES**

Page 16-11									
Substance (Chemical) Names	Chemical Class	Chemical Structure	Substance Made From And By	Supports Mammalian Cell Growth	Toxicogenic (T)	Mutagenic (M) (Strong to Weak)	Carcinogenic (C) (Strong to Weak)	Other Pathogenic Etiology	Author Bibliographic Reference
26. 25-Hydroxy-Cholesterol (25-OHC) [25R, 25S]	Oxysterol Of Liver & Peripheral Tissues <b>Polycyclic Aromatic</b>		Dietary Cholesterol BY Hepatic Cells Sterol 27-Hydroxylase Enzyme	NO	T	Suspect	Suspect	Enhanced in Atherosclerosis. Enhanced in Alzheimer's Disease.	HMBD Xu, Fang, 2005
27. 24-Hydroxy-Cholesterol [24-OHC]	Oxysterol Of Brain <b>Polycyclic Aromatic</b>		Dietary Cholesterol BY Fetal, Infant and Adult Brain Neuron Enzyme Dependent	NO	T	Suspect	Suspect	Enhanced Active De-myelinating Diseases. Slightly enhanced in Alzheimer's Disease. Enhanced in Multiple Sclerosis	HMBD

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Substance (Chemical) Names	Chemical Class	Chemical Structure	Substance Made From And By	Supports Mammalian Cell Growth	Toxicogen (T)	Mutagenic (M) (Strong to Weak)	Carcinogenic (C) (Strong to Weak)	Other Pathogenic Etiology	Author Bibliographic Reference
28. 22 (R)-Hydroxy-Cholesterol [22-OHC]	Oxysterol Neonatals & Infants <b>Polycyclic Aromatic</b> . Precursor To Progesterone Hormone		Dietary Cholesterol BY Neonatal and Infant Liver	No	T	Suspect	Suspect	Decreased in Alzheimer's Disease (AD). Associated with DCC (deleted in colorectal cancer) -interacting Protein 13-beta Needed in colonic cell apoptosis.	HMBD
29. 7-alpha-Hydroxy Cholesterol	Oxysterol <b>Polycyclic Aromatic Sterol</b>		Dietary Cholesterol BY Enzyme Free Natural Oxidosis		T			Lipid peroxidation Marker. Oxidative stress Biomarker. In Atherosclerosis Placques.	HMBD S. Garcia-Cruset, 2001

**TABLE III. INVENTORY OF MUTAGENIC, CARCINOGENIC, ATHEROGENIC AND TOXOGENIC AGENTS ETIOLOGICALLY IMPLICATED IN COLORECTAL CANCER, HEART DISEASE AND OTHER CHRONIC DISEASES AND SYNDROMES**

Substance (Chemical) Names	Chemical Class	Chemical Structure	Substance Made From And By	Supports Mammalian Cell Growth	Toxicogen (T)	Mutagenic (M) (Strong to Weak)	Carcinogenic (C) (Strong to Weak)	Other Pathogenic Etiology	Author Bibliographic Reference
30. 7-beta-Hydroxy Cholesterol	Oxysterol <b>Polycyclic Aromatic Sterol</b>		Dietary Cholesterol BY Enzyme Free Natural Oxidosis		T			In Atherosclerotic Placques. Enhanced in Atherosclerotic Plasma. Induces Caco-2 cell Apoptosis. Enhances oxidative stress. Enhanced endonuclease G expression.	HMBD S. Garcia-Cruset, 2001
31. Benz (a) Pyrine	<b>Polycyclic Aromatic Hydrocarbon (PAH)</b>		Charcoal Broiled Animal Meat BY Cooks Using Charcoal Broiling	NO	T	M	C (strong)		E.L. Kennaway, 1932 I. Hieger, 1930 P.F. Steiner
32. Amino-imidazo Quinolines And Quinoxalins	<b>Heterocyclic Aromatic Hydrocarbons</b>	NA	Grilling, Broiling, Frying Animal Meat (Creatine) BY Cooks	NO	T	M	C (moderate)		KI Skog T. Norat