

CURRICULUM VITAE

David M. Diamond, Ph.D.
Professor
Department of Psychology
Cognitive, Social and Neuroscience Division
University of South Florida

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Invited Lectures on the Nutrition and Heart Disease	51-55
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1985 – 1986	Postdoctoral Researcher, University of California, Irvine, Center for the Neurobiology of Learning and Memory
1986 – 1997	Assistant Professor, Department of Pharmacology, University of Colorado Health Sciences Center, Denver, Colorado
1997 – 2003	Associate Professor, Departments of Psychology and Pharmacology, University of South Florida, Tampa, Florida
2003 –	

Department of Psychology Honors Program
Mary Newman, David Doan, Darien Peckham,

Outside Member of University Committees

Dissertation Committees

Ph.D. Awarded, 2003, Irit Akirav, Univ. of Haifa, Israel, Dept. of Psychology

Ph.D. Awarded, 2006, Dario Dieguez, Univ. of Texas, Dept. of Psychology

Undergraduate Honors Committees

Arizona State University

Honors Thesis Committee, 2007 Gillian F. Hamilton

Honors Thesis Committee, 2007 Jessica Wilson

Tenure and Promotion Review Committees

Terrence Deak, Ph.D., 2006, Binghamton University, New York ,
Department of Psychology

Irit Akirav, Ph.D., 2010, University of Haifa, Israel,
Department of Psychology

Geoff Potts, Ph.D. 2011, University of South Florida,
Department of Psychology

Marina Bornoalova, 2013-2015, Univ of South Florida,
Department of Psychology

J.05 -1.13k0c -0. (e)4 (n)2-0.002 T(e)IBoPPo., 2011,

Journal Guest Editor
Nonlinearity in Biology, Toxicology and Medicine (2003-2006)

Interactions with the Community

1999 Tampa Museum of Science and Industry
Representative of the Tampa Bay Society for Neuroscience

1999 - 2001 Ridgewood High School Externship Program
Mentor to Kalah Mueller

1999 Hillsborough High School International Baccalaureate Program
Mentor to Zach Thomas

2002 USF "Lunch with a Scholar"
Lecture to community leaders on stress, brain and memory

2004 - 2008 The Learning-Brain Expo, Orlando, Florida
Lectures to the community a Tw 1.8 0 Td (2/TT3 1 Tf-21.76 -1.14 Td())2Tc 0.0

- 1990 - 1994 Principal Investigator , Veterans Affairs Merit Review Award,
"Etiology of the Stress-Induced Inhibition of Hippocampal Plasticity";
 \$230,774
- 1991- 1994 Principal Investigator , Office of Naval Research,
*"Analysis of the Inverted-U Relationship Between Corticosterone and
 Hippocampal Plasticity"*; \$343,704
- 1994 - 1997 Principal Investigator , Veterans Affairs Merit Review Award
"Neurobiology of Stress Effects on the Hippocampus"; \$274,632
- 1994 - 1997 Principal Investigator , Office of Naval Research,
"Corticosteroid Effects on Hippocampal Function"; \$315,804
- 1996 - 1997 Principal Investigator , Office of Naval Research,
"Antagonism of Stress Effects on the Hippocampus by DHEA"; \$12,600
- 1997 - 2000 Principal Investigator , Veterans Affairs Merit Review Award,
"Long-term Effects of Stress on Memory and Hippocampal Function";
 \$448,962
- 2000 – 2005 Principal Investigator , Veterans Affairs Merit Review Award,
"Neuroendocrine Basis of Stress Effects on Memory and Brain Plasticity"
 \$1,206,500
- 2002 – 2003 Principal Investigator, Servier Pharmaceuticals, France
*"Effects of Tianeptine on the Stress-Induced Suppression of Hippocampal
 Function"*, \$68,000
- 2000 – 2005 Co-Investigator , National Institutes of Aging
"Functional Consequences of Vaccination in AD Tg Mice" \$2,212,500
- 2002 – 2008 Co-Investigator , National Institutes of Mental Health
"Significance of Stress-Induced Hippocampal Atrophy" \$750,000
- 2004 – 2008 Principal Investigator , Servier Pharmaceuticals, France
*"AMPA Receptor Modulator and Amyloid Accumulation in an Animal Model
 of Alzheimer's Disease"*; \$68,500
- 2005 – 2008 Principal Investigator , Servier Pharmaceuticals, France
*"Influence of S 24795, a nicotinic modulator, on memory performance and
 accumulation of -Amyloid in APP+PS1 transgenic mice"*; \$158,000
- 2005 – 2009 Principal Investigator , Veterans Affairs Merit Review Award,
"Effects of Stress on Memory: Brain Circuits, Mechanisms and Therapeutics"
 \$625,000
- 2005 .8 0. (5)1 (,)3613 T(a)0.9 (e) 0 Td [(\$)-4 (2)-1 (5)]TJ 2.27 0 Td (,)Tj (0)Tj -0.sad 2.36 0 Td ()

2010 – 2014 Principal Investigator , Veterans Affairs Merit Review Award,
“Neural Mechanisms and Therapeutics”

Auditory System Plasticity and Memory (1980 -1989)

My dissertation research characterized plasticity of single cell activity in the auditory cortex during learning. The issue we addressed was the functional significance of neural plasticity in a sensory system. How is it possible for a cell to represent the physical parameters of

and Diamond, D.M. (2001) Progressive, age-related behavioral impairments in

Stress and Memory (1996 -2016)

My group has studied the effects of stress on different forms of memory. We have shown that acute stress impaired hippocampus-dependent, but not hippocampus-independent memory. In conjunction with the behavioral work, we have studied molecular mechanisms which are activated by memory, as well as blocked by the stress induced impairment of memory. This work provides insight into the complex effects of stress on different forms of memory.

Subset of Publications

- Diamond, D.M., Ingersoll, N., Fleshner, M. and Rose, G.M. (1996) Psychological stress impairs spatial working memory: Relevance to electrophysiological studies of hippocampal function, *Behavioral Neuroscience*, 110: 661-672.
- Diamond, D.M., Park, C.R., Heman, K.L. and Rose, G.M. (1999) Exposing rats to a predator impairs spatial working memory in the radial arm water maze, *Hippocampus*, 9:542-552.
- Sandi, C., Woodson, J.C., Haynes, V.F., Park, C.R., Touyarot, K., Lopez-Ernandez, M.A., Venero, C. and Diamond, D.M. (2005) Stress-induced spatial memory impairment is associated with a selective decrease in the expression of NCAM in hippocampus and prefrontal cortex. *Biological Psychiatry*, 57:856-864.
- Zoladz, P.R., Park, C.R., Halonen, J.D., Salim, S., Alzoubi, K.H., Srivareerat, M., Fleshner,

LTP. *Hippocampus*, 14:281-291.

Diamond, D.M., Park, C.R., Campbell, A.M. and Woodson, J.C. (2005) Competitive interactions between endogenous LTP and LTD in the hippocampus underlie the storage of emotional memories and stress-induced amnesia. *Hippocampus* 15:1006-1025.

Diamond, D.M. Campbell, A.M., Park, C.R., Halonen, J. and Zoladz, P.R. (2007) The temporal dynamics model of emotional memory processing: A synthesis on the neurobiological basis of stress-induced amnesia, flashbulb and traumatic memories, and the Yerkes-Dodson Law. *Neural Plasticity*, vol. 2007, Article ID 60803, doi:10.1155/2007/60803.

Diamond, D.M. and Zoladz, P.R., (2016) Dysfunctional or hyperfunctional? The amygdala, v4 ()]TJ -8(r)-3 (a)1 (g)-4 Ts

Algamal, M., Saltiel, N., Pearson, A., Ager, B., Burca, I., Mouzono, B. C., Diamond, D. M., Mullan, M., Ojo, J., Crawford, F. (2019) Impact of repetitive mild traumatic brain injury on behavioral and hippocampal deficits in a mouse model of chronic stress. *Journal of Neurotrauma*, 36(17):2590-2607.

Animal Model of PTSD (2007 -2018)

My group incorporated the use of cat exposure in conjunction with daily social instability in rats to study physiological and behavioral features of an animal model of PTSD. This work has taken into account clinical aspects of the behavioral and physiological symptoms commonly observed in traumatized people in our animal model of PTSD. We have found that predator exposure administered in conjunction with social instability produces responses in rats that are comparable to symptoms commonly observed in traumatized people. In addition, we have studied the influence of pharmacological agents on the expression of PTSD-like effects at behavioral and physiological levels of analysis in predator-exposed rats.

Subset of Publications

Zoladz, P.R., Conrad, C.D., Fleshner, M. and Diamond, D.M. (2008) Acute episodes of inescapable predator exposure in conjunction with daily social stress as an animal model of post-traumatic stress disorder. *Stress: The International Journal on the Biology of Stress*, 11:259-281.

Zoladz, P.R., Fleshner, M. and Diamond, D.M. (2012) Psychosocial animal model of PTSD produces a long-lasting traumatic memory, an increase in general anxiety and PTSD-like glucocorticoid abnormalities. *Psychoneuroendocrinology* , 37:1541-1545.

Zoladz, P.R., Fleshner, M. and Diamond, D.M. (2013) Differential effectiveness of tianeptine, clonidine and amitriptyline in blocking traumatic memory expression, anxiety and hypertension in an animal model of PTSD. *Progress in Neuropsychopharmacology* -07(er)-3(.)1.1 (P)1

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Subset of Publications

Cognitive and Neurobiological Perspectives on Why Parents and Caretakers Lose Awareness of Children in Cars (2005 - Present)

For almost 2 decades I have studied how normal (i.e., attentive and loving) parents and caretakers, without evidence of abuse or neglect of children, and without evidence of drug abuse or organic brain dysfunction, *unintentionally and unknowingly*, leave children in cars. Under conditions in which the ambient temperature is warm enough and the car is exposed to direct sunlight, heat builds within the car and the child may die or become brain damaged as a result of hyperthermia. It is difficult to understand how a person can leave a child in a car, and yet, it appears to occur at an alarmingly high rate. I have studied this phenomenon from a neuropsychological perspective.

My hypothesis as to how children have been unknowingly and unintentionally left in cars was first published in an on-line article in *The Conversation*, entitled: "[An epidemic of children dying in hot cars: a tragedy that can be prevented](#)". I then described the phenomenon at length in a peer-reviewed publication in which I explained that children forgotten in cars results from: a) the driver loses awareness of the presence of the child in the car; 2) the driver exhibits a failure of the brain's "prospective memory" system; 3) intervening events during the drive, including stressors and strong distractions, may contribute to the cause of the failure of "prospective memory"; competition between "habit" and "prospective memory" systems.

I have served on federal committees to assess why children are forgotten in cars and how the auto industry can respond to this flaw in human factors. In addition, I have served as an expert witness in cases in which parents have been charged with crimes, such as child abandonment, manslaughter and murder. My expert testimony has enabled judges and juries to understand how attentive and loving parents are capable of forgetting their child in car, which can result in a catastrophe.

Publications

Diamond, D.M. (2016) Children dying in hot cars: a tragedy that can be prevented.

Service to the Defense or State in an Advisory Role

January, 2008

Defense Expert Consultant on Brain, Memory and Stress to
Zwerling, Leibig & Mosely, P.C.

Charge: Manslaughter

Commonwealth of Virginia v. Balfour

A child died when his mother forgot him in a hot car

September, 2010

Consultant to a Prosecutor (Ron O'Brien; Columbus, Ohio) on
the Brain and "Forgotten Baby Syndrome" to aid in the
determination of charges (no charge, manslaughter or murder)*A child died when his mother forgot him in her car*

September, 2010

Defense Team Expert Consultant on Brain Functioning to Captain
Elizabeth A. Ramsey, US Army Trial Defense Services

United States v. Sergeant Tina M. Laboy

A child died when parents did not notice that their child drowned in a pool

August, 2014

Consultant to a District Attorney (Brock Belnap; St. George, Utah)
on the Brain and "Forgotten Baby Syndrome" to aid in the
determination of charges (no charge, manslaughter or murder)*A child died when her mother forgot her in her car*

February, 2016

Defense Expert Consultant on Brain, Memory and Stress to
Stephen Butcher

Royal Society for the Prevention of Cruelty to Animals v Patrick Shaddock

Charge: Animal Cruelty

A guide dog died when his caretaker left him in his car

September, 2016

Defense Expert Consultant on Brain, Memory and Stress to Dawn
Priestman

State of Arizona v. Jared Ledq Tucson, Arizona

Charge: Manslaughter

A child died when his father forgot him in his car

October, 2016

Defense Expert Consultant on Brain, Memory and Stress to
Maddox Kilgore

State of Georgia v. Ross Harris

Charge: Murder

A child died when his father left him in his car

October, 2016

Defense Expert Consultant on Brain, Memory and Stress to
Steven Secare

State of New Jersey v. Karen Gruen

Charge: Negligence

A parent left a child in hot car while shopping. The child was unharmed.

December, 2016

Defense Expert Consultant on Brain, Memory and Stress to
Ron Hanes

State of Florida v. Troy Whitaker

Charge:

A child died when her father left her in his car

December, 2017

Defense Expert Consultant on Brain, Memory and Stress to
Jennifer Moster

State of Florida v. Steven Secare

Charge:

A child died when her father left her in his car

October, 2018

Defense and Prosecution Expert Consultant on Brain, Memory and Stress to David Terry/Richard Terry

State of Florida v. Nicole Engler

Charge:

A child died when her mother left her in his car

July, 2018

- * State of Texas v. Raymond Licon, Jr.
El Paso, Texas
Charge: Criminal Negligence
A child drowned when his father forgot him in the bathtub

July, 2018

- * State of Texas v. Michael Thedford
McKinney, Texas
Charges: Criminally Negligent Homicide, Tampering with evidence
A child died when his father forgot her in his car

November, 2018

- * Commonwealth of Pennsylvania v.
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PevC 04 . -23.07.(a)1 ~~Brrdi~~ *A child died when his father forgot her in his car* c-0.003 TwTw 9.t

Invited Seminars on Brain and Memory to Attorneys

October, 2019

Office of Criminal Conflict and Civil Regional Counsel, Central Florida

Lecture: *“Legal and Neuropsychological Perspectives on Catastrophic Memory Failures”*

July, 2020

American Council of Second Amendment Lawyers- Continuing Legal Education Seminar

Lecture: *Neuropsychological Perspective on How C-Td[L]1C-Td[P9(.v u)-on)3 (on)3 (H)-2*

March, 2009

INFANT HYPERTHERMIA-Baby deaths: Tragic failures of memory, not failures of love

<http://www.parentcentral.ca/parent/article/603836>

March, 2009

Washington Post: Fatal Distraction: Forgetting a Child in the Backseat of a Car Is a Horrifying Mistake. Is It a Crime?

http://www.washingtonpost.com/wp-dyn/content/article/2009/02/27/AR2009022701549_pf.html

Fall 2009

Research Cited in: ***Criminal Law***(Course Materials)

Professor Blaze, University of Tennessee, Knoxville

August, 2010

“The Fiddler in the Subway” by Gene Weingarten; Simon and Schuster Books

http://books.google.com/books?id=Vx6CHHo8pz8C&pg=PA299&lpg=PA299&dq=%22david+diamond%22+memory+brain+expert&source=bl&ots=4k5JnyJsn0&sig=BAoAaJaX_jhuwVULqb5EFKBTkl&hl=en&ei=K2KATrbhAdC_gQeq0Mwq&sa=X&oi=book_result&ct=result&resnum=4&ved=0CDIQ6AEwAw#v=onepage&q=%22david%20diamond%22%20memory%20brain%20expert&f=false

October, 2010

Fox News 21/27 Roanoke, VA

Mom Shares Tragedy of Leaving Son in Car

http://www.fox2127.com/dpp/news/metro/10.07.2010_wfxr_news_mom_-_shares-tragedy-of-leaving-son-in-car

March, 2011

Lawyers in Rochester.com :

What in hell is wrong with this picture? why is this not going up for manslaughter?

<http://lawyersinrochester.com/what-in-hell-is-wrong-with-this-picture-why-is-this-not-going->

July, 2012

CNN Living /Parenting

Tragedy in the backseat: Hot-car deaths

<http://www.cnn.com/2012/07/12/living/hot-car-deaths-parenting/index.html>

February, 2013

Expert Witness Testimony: State of Wyoming v. Kaleb Laatsch

Man found guilty of child endangerment

<http://www.gillette newsrecord.com/stories/Laatsch-found-guilty-of-child-endangerment.86394>

March, 2013

Gillette News Record

Man found guilty of child endangerment

<http://www.gillette newsrecord.com/stories/Laatsch-found-guilty-of-child-endangerment.86394/>

October, 2013

~~006- (11)-72a(e)-2-3)(2)(e)-37(t)-8)(6)(3)(7)(2)(MCID)TP->WBDC4(2-WR]T(d.081(7)PI(6)396(->B4):-.5T(e)0~~

role in Justin Ross Harris' case

http://www.hlnv.com/article/2014/06/30/cooper-harris-child-dies-hot-car-why-parents-forget?hpt=hln10_1

HLN NOW

This is how a parent can forget a kid in the car - A psychology professor explains how parents can forget their children in the car

<http://www.hlnv.com/video/2014/07/11/forgotten-baby-syndrome-hot-car-study>

NBC Today Show: Parents recall daughter's tragic hot car death

Kristie Reeves-Cavaliero and Brett Cavaliero join TODAY to talk about losing their daughter when they accidentally left her in a hot car, and their efforts to prevent similar deaths. Dr. David Diamond joins to help viewers understand how a parent could forget a child.

<http://www.today.com/video/today/55642762/#55642762>

ABC Eyewitness News: KidsAndCars.org launches White House petition drive to prevent needless child deaths in hot vehicles

KidsandCars.org works with David Diamond, Ph.D., a neuroscientist at the University of South Florida who studies the brain and memory, including people who have unknowingly forgotten children.

<http://abc7.com/family/petition-aims-to-prevent-child-deaths-in-hot-cars/184019/>

Technology That Prevents Death

Mother of Ridgefield Boy Who Died In Hot Car Speaks Out
Fox News - CT

<http://foxct.com/2014/07/31/mother-of-ridgefield-boy-who-died-in-hot-car-speaks-out/>

Rogers-Seitz started reading anything she could get her hands on about child heatstroke in cars. She talked to nonprofit advocacy groups such as KidsAndCars.org, read what experts such as David Diamond, a psychology professor at the University of South Florida, have written about a phenomenon known as Forgotten Baby Syndrome, and studied the legislative stops and starts to try and save lives.

Dr. Sara responds to reader comments on Forgotten Baby Syndrome

<http://www.bundoo.com/community-blog/dr-sara-responds-to-reader-comments-on-forgotten-baby-syndrome/>

Dr. Diamond is arguably the national expert on Forgotten Baby Syndrome. His research formed the basis of the article

'Forgotten baby syndrome': expert witness called in Jayde Poole baby in car death case

Giving evidence via videolink from the US as a defence witness, neuroscientist Professor David Diamond, an expert on memory from the University of South Florida, told a Supreme Court jury on Wednesday that the case was similar to a phenomenon known as "forgotten baby syndrome".

Professor Diamond said 200 children had died worldwide over the past 15 years from the phenomenon after being left behind in cars.

<http://www.theage.com.au/victoria/forgotten-baby-syndrome-expert-witness-called-in-jayde-poole-baby-in-car-death-case-20140723-zw06r.html#ixzz38HoXwg4Y>

<http://www.heraldsun.com.au/news/law-order/experts-say-jayde-poole-may-have-suffered-forgotten-baby-syndrome-when-she-left-her-baby-in-fatally-hot-car/story-fni0fee2-1226998939674>

Jayde Poole found not guilty over death of baby Bella, who died after being forgotten in a hot car

<http://www.heraldsun.com.au/news/law-order/experts-say-jayde-poole-may-have-suffered-forgotten-baby-syndrome-when-she-left-her-baby-in-fatally-hot-car/story-fni0fee2-1226998939674>

Neuroscientist David Diamond explains forgotten baby syndrome on
The Today Show (Australia)

<http://www.youtube.com/watch?v=KtjCWDvrQLs>

The World Today – ABC News Australia

'Forgotten Baby Syndrome' could explain Bendigo manslaughter case

<http://www.abc.net.au/worldtoday/content/2014/s4053707.htm>

An American neuroscientist says a Victorian woman whose baby died after being left in a hot car had suffered a case of the little known "Forgotten Baby Syndrome"

The Wichita Eagle

Hot -car deaths could happen to any parent, experts say

"These tragedies are unfortunately occurring on a regular basis," said David Diamond, a neuroscientist and professor at the University of South Florida who has been researching vehicular child hyperthermia deaths for the past 10 years.

August, 2014
Shelbyville Times -Gazette
Kids, hot cars are deadly combination
<http://www.t-g.com/story/2105969.html>

WWL.com AM870 News -

[testifies-on-39-Forgotten-Baby-Syndrome-39-206134.shtml#.Vgw7dCs96W4](#)

ExpertPages Blog

Mother Convicted for Leaving Infant in a Hot Car uses Psychology Expert
Witness; Colin Holloway, Attorney at Law

<https://blog.expertpages.com/general/mother-convicted-for-leaving-infant-in-a-hot-car-uses-psychology-expert-witness.htm>

October, 2015

Mother sentenced to probation in baby's hot car death

<http://www.kfoxtv.com/news/features/featured/stories/Mother-sentenced-to-probation-in-baby-s-hot-car-death-225625.shtml#.VkSUKysY11E>

November 22, 2015

Could you forget your baby?

<https://au.news.yahoo.com/sunday-night/features/a/30153185/could-you-forget-your-baby/?cmp=st>

January 3, 2016

Keyless ignition unintended consequences can be deadly

<http://www.hayspost.com/2016/01/03/keyless>

- dtsp01hqs/a.37

Vehicles

<http://www.kidsandcars.org/2016/09/15/hot-vehicles-introduced-today-will-prevent-child-heatstroke-deaths-by-getting-much-hotter>

Did Ross Harris, Hot Car Murderer, Suffer From 'Forgotten Baby Syndrome'?

<https://2paragraphs.com/2017/01/did-ross-harris-hot-car-murderer-suffer-from-forgotten-baby-syndrome/>

March, 2017

Why do children get left in hot cars?

10News WTSP

<http://www.wtsp.com/news/local/why-do-children-get-left-in-hot-cars/417054969>

The World Today: Victorian coroner investigating 2015 inadvertent child car death

<http://www.abc.net.au/worldtoday/content/2016/s4639723.htm>

The hot car death epi4hotf5 (a)5rt.dot Id 0 Tw 7.63 0 T.002 Tc 0.002 Tw 0.37 0 T2.5(T)1 (h)-

News4Washington: 'We Can Stop This': Hot Cars Act Aims to End Accidental Deaths of Children

For the past 12 years, Dr. David Diamond has studied the brain, memory and why parents accidentally leave children in hot cars. He said at a news conference Wednesday that two brain structures compete: those that control the ability to plan to do something in the future and those that follow "auto -pilot" habits. When people are stressed or sleep-deprived, the auto-pilot system can dominate.

"This phenomenon must be explained from a brain science perspective, not one that blames parents for being negligent," he said in a statement.

['We Can Stop This': Hot Cars Act Aims to End Accidental Deaths of Children | NBC4 Washington http://www.nbcwashington.com/news/health/We -Can-Stop-This-Hot-Cars-Act-Aims-to-](http://www.nbcwashington.com/news/health/We-Can-Stop-This-Hot-Cars-Act-Aims-to-)

[syndrome#stream/0](#)

July, 2017

Editorial: Hot cars and children don't mix

http://www.eacourier.com/opinion/editorials/editorial_hot-cars-and-children-don-t-mix/article_c2030ba0_515e11e7-b628-ab892a49ad31.html

Psychologists explain how parents can forget kid in the back of a car

http://www.abc15.com/news/state/psychologists_explain-how-parents-can-forget-kid-in-the-back-of-a-car

Sick, Absent, or Forgotten? How a Change in Routine Can Become Deadly in Minutes

https://usa.childcareaware.org/2017/07/sick_absent-forgotten-change-routine-can-become-deadly-minutes/

In Gene Weingarten's Pulitzer prize-winning piece about vehicular heatstroke tragedies, "[Fatal Distraction](#)," Dr. David Diamond, a neurobehavioral scientist, deduced from his research of vehicular heatstroke deaths that the most common factor associated with parents who forgot their child in the backseat was a change in routine.

August, 2017

Summer Heat Turns Cars Into Ovens

<https://share.kaiserpermanente.org/article/>

Expert: Dad "lost2m1 (e)-10 (ib(it)-8 r)-1 (u)-19 euo stirbh::e D

March 2019

Hot car deaths: Study describes psychological and neural basis of how people make fatal errors

<https://www.kidsandcars.org/2019/03/05/hot-car-deaths-study-describes-psychological-and-neural-basis-of-how-people-make-fatal-errors/>

More than 50 children died in hot cars in 2018, making it the deadliest year on record. Many of the cases involve parents who unknowingly left a child behind, often for an entire day. University of South Florida Psychology Professor David Diamond has studied this phenomenon for over a decade and has served as an expert witness on many high-profile cases. In his latest publication, he describes the psychological and neural

2020

TODDLER HOT CAR DEATH: Dr. David Diamond took the stand as an expert witness

<https://www.facebook.com/courttv/videos/toddler-hot-car-death-dr-david-diamond-took-the-stand-as-an-expert-witness-on-ho/136587574736299/>

Justin Ross Harris Seeks New Trial -Dr. David Diamond - Memory Expert

<https://www.youtube.com/watch?v=-B9qpkyW8>

2021

Kids forgotten in hot cars - how does it happen? | 7NEWS Spotlight

<https://www.youtube.com/watch?v=EVhFdq0JEpg>

Criminal Behaviorology: Kids, Cars and Danger: Hot Car Deaths and Human Memory - 4.7.2021

https://www.youtube.com/watch?app=desktop&v=mib_vHkDKaU

2022

The Science: Memory Failure: Research and reports compiled on children who die in hot cars and how loving parents could forget a baby in the back seat.

<https://www.kidsandcars.org/hot-cars/the-science>

Suffer the Little Children Podcast: Episode 153: Hot Car Deaths
<https://sufferthelittlechildrenpod.com/2023/07/21/153-hot-car-deaths/>

November 16, 1997

Orlando Sentinel

"Study finds rats forget when subjected to stress"

November 26 – December 10, 1997

National Public Radio, WUSF -FM

Stress-Memory Research Discussed on "All Things Considered"

December 15, 1997

Miami Herald

"Extreme stress inhibits brain's ability to recall"

Spring, 1999

Texas Wesleyan Law Review

Research cited in:

"The unfortunate faith: A solution to the unwarranted reliance upon eyewitness testimony", by William David Gross, 5 Tex. Wesleyan Rev., 307.

August 28, 2000

Tampa Tribune

"Grant Boosts Alzheimer's Research"

December 21, 2000

Los Angeles Times

"Two Studies Give Hope for Vaccine Against Alzheimer's"

Washington Post

"A Vaccine for Memory Loss"

Tampa Tribune

"USF Role In Alzheimer's Work Grows"

December 22, 2000

Tampa Tribune (**Editorial**)

"USF's Quest For Alzheimer's Vaccine"

April 17, 2001

Reuters Health On -Line

"Stress impairs ability to remember and learn"

April, 2001

News & Comment: Trends in Neurosciences (24:199, 2001)

"Alzheimer's Disease: A Review of the Literature"

PTSD-Memory Research Discussed on “All Things Considered”

August 6, 2001
 ABC World News Tonight
Emotional Impact Key to Memory

April 15, 2003
 HealthScout.com
Bad Memories Block Out New Memories
 YahooNews.com
Emotional trauma disrupts ability to concentrate and learn
 The St. Petersburg Times
Seeking to help soldiers trapped by the trauma
 Science BLOG
Intrusive emotional memories make rats forget recently learned information

April, 2003
 Reuters Health On- Line
Blueberries reduce age-related mental decline in mice

November 17, 2003
 Newswise.com
Neuroscientists to Present New Findings on Brain Injury and Repair
 News at USF
USF Researchers Find That Stress And High Fat Diets Damage Brain Cells In Rats
 USF Oracle Newspaper
Fat rats stressed and forgetful, but what does that mean for us?

February 4, 2004
 St. Petersburg Times
 On Campus Syllabus Watch: *Scientific Racism* University of South Florida

May, 2004
 USF Magazine
Rethinking the rat race

August, 2004
 St. Petersburg Times
Why our memory fails us

November 29, 2004
 USF Oracle Newspaper
Get over stress, not overstressed

October 19, 2006
Psychological stress produces PTSD-like symptoms in rats
 USF News
 VA Watchdog.com
http://www.vawatchdog.org/old%20newsflashes%20OCT%2006/newsflash10_-18-2006-3.htm
 Newswise: Science News
<http://www.newswise.com/articles/view/524234/>
 Bio -Medicine News
http://www.bio_-medicine.org/medicine_-news/Stress-Produces-PTSD-like-Symptoms-in-Rats-151122/

November, 2006
 Bradenton Herald

Surviving troubles without some pill
January, 2007
USF Magazine

http://www.usforacle.com/study_links-sugar-intake-to-stress-1.2144586

March, 2010

USF Magazine; Winter 2010

November, 2023

Experts say 'memory testimony' would have been scrutinized in Santini murder case
<https://www.abcactionnews.com/news/region-hillsborough/experts-say-memory-testimony-would-have-been-scrutinized-in-santini-murder-case/>

Invited Lectures on the Brain, Stress, PTSD and Memory
July, 1985
Max-

May, 2003

Second Annual Meeting on Non-Linear Dose Response Relationships In
Biology, Toxicology and Medicine; Amherst, Massachusetts

*“Non-Linear Relationships in Neurosteroid Effects on Memory and Brain
Plasticity”*

July, 2003

The Physiological Society, Dublin, Ireland

“Cognitive and Physiological Assessment of Stress-Hippocampus Interactions”

September, 2003

Annual Meeting of the European Brain and Behavior Society; Barcelona, Spain

“An Animal Model of Intrusive Emotional Memories”

February, 2004

VA Medical Center Endocrinology Lecture Series; Tampa, Florida

*“Opposing Actions of Low versus High Levels of Glucocorticoids on Brain and
Behavior in Rats and People”*

May, 2004

Spring Hippocampal Research Conference Grand Cayman, British West Indies

*“Predator Stress Impairs Spatial Memory and Rapidly Reduces Hippocampal
and Prefrontal NCAM Levels”*

June, 2004

Collegium Internationale Neuro -Psychopharmacologicum; Paris, France

*“A Novel Perspective: From Preclinical Research to the Neurobiology Of
Depression”*

June, 2004

Department of Neuroscience, University of Amsterdam, Netherlands

*“Glucocorticoids, Synaptic Plasticity, Stress-Induced Amnesia and
Hippocampal Functioning”*

July, 2004

The Learning-Brain Expo; Orlando, Florida

Key

note Speaker: *“Why and How Does Stress Impact Memory?”*

Session Leader: *“Brain Parts at the Intersection of Emotion and Memory”*

September, 2004

Think tank on neuroplasticity ; Nice, France

“Tianeptine “Protects” Memories from Being Impaired by Stress”

January, 2005

The Third Annual Encephale Congress Paris, France

Session Chair: Neuroplasticity - The New Face of Depression

“Neurobiology of Depression: Pharmacological implications”

March, 2005

VA Medical Center Endocrinology Lecture Series; Tampa, Florida

*“Interactions Among Stress, Memory, Glucocorticoids and Antidepressant
Actions on The Brain”*

June, 2005

2005 Workshop on the Neuroendocrinology of Stress; The American
Neuroendocrinology Society; San Diego, California

*“Complex Involvement of Glucocorticoids in Stress and Antidepressant
Actions on Hippocampal Functioning”*

November, 2005

Brain and Mind Institute, Swiss Federal Institute of Technology
Lausanne, Switzerland

“How Does Stress Affect Memory and the Brain?”

November, 2005

Advances in Neuroscience for Medical Innovation: Neuronal Plasticity and
Psychiatric Disorders; Nice, France

Session Chair: Molecular Mechanisms of Synaptic Plasticity

“Hippocampus –Impact of Stress and Fear on Depression”

March, 2006

14th European Congress of Psychiatry; Nice, France

“Preclinical Research on Antidepressants, Stress and Memory”

June, 2006

First Annual Workshop on Stress, Memory and Brain Plasticity;

Genova, Italy; Conference Organizer

“A Model of How Stress Affects Hippocampal and Amygdala Functioning”

June, 2006

Invited Seminar: Servier Pharmaceuticals; Paris, France

“Antidepressants, Stress and Memory”

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4th International Workshop on Neuroplasticity; Nice, France

“Neurobiology of Depression: Pharmacological Implications”

November, 2006

Society for Neuroscience 35th

Symposium:

August, 2007

“A Translational Approach Toward the Study of PTSD: Acute Episodes of Inescapable Predator Exposure in Conjunction with Psychosocial Stress Produces a PTSD-like Phenotype in Rats”

November, 2012

Fourth International Conference on Cardiac Sciences, Al Ahsa, Saudi Arabia

Session Chair: Stress, Atherosclerosis and Coronary Heart Disease

*“Stress as an Adaptive Process Gone Awry: How Stress in Modern Society
Produces Emotional Trauma, Brain Damage and Cardiovascular Disease”*

March, 2013

FENS-SFN Neuroscience

August, 2016

Multidisciplinary Conference on PTSD

Memorial University, Newfoundland, Canada

Plenary Lecture: *Beneath the Surface of the PTSD Iceberg: Evolutionary, Neurobiological and Physiological Perspectives on PTSD*

Session Lecture: *Integrating predator exposure research in a broader framework for understanding hippocampal involvement in trauma memory processing*

April, 2017

Tulane Brain Institute, Neuroscience Program, New Orleans, Louisiana

"Involvement of the hippocampus in flashbulb memories"

March, 2018

2018 National Conference on Highway Safety Priorities

"Neurobiological Perspective on How Parents Lose Awareness of Children in Cars"

September, 2019

National Highway Traffic and Safety Administration/ Department of Transportation Child Safety Passenger Safety Forum

Lecture: "Neurobiological Perspective on how Children are Forgotten in Cars"

October, 2019

Office of Criminal Conflict and Civil Regional Counsel, Central Florida

Lecture: *Legal and Neuropsychological Perspectives on Catastrophic Memory Failures*

March, 2020

Office of Criminal Conflict and Civil Regional Counsel, Central Florida

Lecture: *Legal and Neuropsychological Perspectives on Catastrophic Memory Failures*

March, 2020

Faculty of Forensic Psychiatry Annual Conference, Liverpool, England

Keynote Lecture : Neuropsychological and legal perspectives on tragic memory errors

March, 2020

2020 Lifesavers National Conference on Highway Safety Priorities

Tampa, Florida

Neuropsychology of Tragic Memory Failures

September, 2020

Fordham Law-Psychology, SPSSNY, the Manhattan Psychological Association, and NYSPA Division of Forensic Psychology.

Lecture: *"At the Intersection of Law and Neurobiology: How Neuroscience Research Can Guide Legal Decisions"*

September, 2020

American Council of Second Amendment Lawyers -Continuing Legal Education Seminar

Lecture: "Neuropsychological Perspective on How Stress Affects Memory and Decision-Making"

February, 2021

Neuroscience Center for Anxiety, Stress, and Trauma, Wayne State University
Lecture: "How is the Hippocampal Functioning Affected by Stress?"

Invited Presentations

June, 2010

VA Hospital Endocrinology Lecture Series; Tampa, Florida

"Myths and Mischief in Nutritional and Pharmacologic-0.003 Tc 04Attfolm,d Mogas0 Tc 0 T

May, 2015

VA Hospital Endocrinology Lecture Series; Tampa, Florida

"How Deceptive Statistics Created the Appearance that Statins are Safe and Effective at Improving Cardiovascular Disease Outcomes"

July, 2015

Riga Diabetes & Obesity World Congress, Riga, Latvia

Lecture 1: *"Deceptive Statistics have Created the False Appearance that*

Statins are Safe and Effective in the Treatment of Cardiovascular Disease"

Lecture 2: *"A Critical Appraisal of Current Dietary Guidelines: How Bad*

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June, 2017

NYU Alumni Club Presents: An Evening with David Diamond, PhD
"Demonization and Deception in the War on Saturated Fat and Cholesterol."

http://www.alumni.nyu.edu/s/1068/alumni/interior_3col.aspx?sid=1068&gid=1&pgid=15420&cid=25811&ecid=25811&crd=0&calpgid=296&calcid=6366

July, 2017

VA Brain Heart Consortium Meeting , Columbia, South Carolina
"Biomarkers, Animal Models, Treatments, and Controversy in PTSD and Heart Disease Research"

January, 2018

Low Carb West Palm 2018
"Demonization and Deception in Cholesterol Research"

March, 2018

Low Carb Breckenridge 2018
"An Assessment of Cardiovascular Risks of a Low Carbohydrate, High Fat Diet"

June, 2018

VA Hospital Endocrinology Lecture Series; Tampa, Florida
"Evidence-Based Dietary Guidance for Individuals with Type 2 Diabetes"

October, 2018

Low Carb Houston 2018
"A rigorous assessment of the myth that cholesterol causes heart disease"

January, 2019

"Metabolic Health Summit" , Long Beach, California
"Does an Elevation of LDL-Cholesterol with a Low Carbohydrate Diet Increase Risk for Cardiovascular Disease?"

March, 2019

Fifth International Conference on Cardiac Sciences, Al Ahsa, Saudi Arabia
"How Bad Science, Big Business and Politics Have Guided Dietary Guidelines"
"Historical Perspective on How Serum Cholesterol has been Demonized"
"Myths and Deception in Cholesterol Guidelines"

May, 2019

Metabolic Health: A Solution to Metabolic Health Crises (EJL 0322) 0 T (P 4 (A) 290) 7 (a) 9

October, 2019

Low Carb Houston, Houston, Texas

“Does an Increase in LDL-C with Low Carbohydrate Diet Increase One’s Risk for Coronary Heart Disease?”

November, 2019

Wise Traditions Weston Price Foundation

Keynote Lecture: *“Dietary Sense and Nonsense in the War on Saturated Fat and Cholesterol”*

Meeting talk: *“A Rigorous Assessment of the Hypothesis that Cholesterol Causes Heart Disease”*

January, 2020

CrossFit Health Conference, Santa Cruz, California

“A Rebuttal to the Game Changers”

March, 2020

PHD Summit

Should You be Concerned about High LDL-C on a Low Carb Diet?

August, 2020

USF Family Medicine Residency Program

A Rigorous Assessment of LDL as a Cause of Coronary Heart Disease and the Diet-Heart Hypothesis

August, 2020

CrossFit Health Webinar

“Mythbusting the Diet-Heart Hypothesis”

August, 2020

Lecture to the USF-MPM FM Nutrition Faculty

“A Rigorous Assessment of the Diet-Heart Hypothesis”

September, 2020

Proper Human Diet Virtual Summit

“Should you be concerned about high LDL-C on a low carb diet?”

January, 2021

Palm International Nutra -Cosmeceutical Conference

“A Rigorous Assessment of the Myth That Consumption of Saturated Fat Causes Heart Disease”

January, 2021

Boca 2021 Metabolic Health Conference

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Diamond, D.M., Alabdulgader, A.A., de Lorgeril, M., Harcombe, Z., Kendrick M., Malhotra, A., O'Neill, B.O., Ravnskov, U., Sultan, S. and Volek, J.S. (2020) Low carbohydrate diet SHOULD be recommended for patients diagnosed with familial

- the threshold for hippocampal primed burst potentiation in the anesthetized rat. *Brain Research*, 492:356-360.
10. Weinberger, N.M., Ashe, J., Metherate, R., McKenna, T.M., Diamond, D.M. and Bakin, J. (1990) Retuning auditory cortex by learning: A preliminary model. *Concepts in Neuroscience*, 1:91-132.
 11. Engstrom, D.A., Bennett, M.C., Stevens, K.E., Wilson, R.L., Diamond, D.M., Fleshner, M. and Rose, G.M. (1990) Differential sensitivity of hippocampal primed burst potentiation to anesthetics, *Brain Research*, 521:148-152.
 12. Diamond, D.M., Bennett, M.C., Stevens, K.E., Wilson, R.L. and Rose, G.M. (1990) Exposure to a novel environment interferes with the induction of hippocampal primed burst potentiation in behaving rats, *Psychobiology*, 18:273-281.
 13. Bennett, M.C., Diamond, D.M., Fleshner, M. and Rose, G.M. (1991) The level of serum corticosterone predicts the magnitude of hippocampal primed burst potentiation and depression in the urethane-anesthetized rat, *Psychobiology*, 19:301-307.
 14. Bennett, M.C., Diamond, D.M., Stryker, S.L., Parks, J.K. and Parker, Jr., W.P. (1992) Cytochrome oxidase inhibition: A novel animal model of Alzheimer's disease, *The Journal of Geriatric Psychiatry and Neurology*, 5:93-101.
 15. Diamond, D.M., Bennett, M.C., Fleshner, M. and Rose, G.M. (1992) Inverted U relationship between the level of peripheral corticosterone and the magnitude of hippocampal primed burst potentiation, *Hippocampus*, 2:421-430.
 16. Diamond, D.M., Fleshner, M. and Rose, G.M. (1994) Psychological stress repeatedly blocks hippocampal primed burst potentiation in the behaving rat, *Behavioural Brain Research*, 62:1-9.
 17. Diamond, D.M. and Rose, G.M. (1994) Does associative LTP underlie classical conditioning?, *Psychobiology*, 22:263-269.
 18. Bodnoff, S.R., Humphreys, A.G., Lehman, J.C., Diamond, D.M., Rose G.M. and Meaney, M.J. (1995) Enduring effects of chronic corticosterone treatment on spatial learning, synaptic plasticity and hippocampal neuropathology in young and mid-aged rats, *Journal of Neuroscience*, 15:64-69.
 19. Diamond, D.M. and Branch, B. (1995) Effects of dehydroepiandrosterone sulfate (DHEAS) and stress on hippocampal electrophysiological plasticity, *Annals of the New York Academy of Sciences: Dehydroepiandrosterone (DHEA) and Aging*, 774:304-307.
 20. Diamond, D.M., Branch, B.J. and Fleshner, M. (1996) The neurosteroid dehydroepiandrosterone sulfate (DHEAS) enhances hippocampal primed burst (PB), but not long-term, potentiation, *Neuroscience Letters*, 202:1-5.
 21. Diamond, D.M., Ingersoll, N., Fleshner, M. and Rose, G.M. (1996) Psychological stress impairs spatial working memory: Relevance to electrophysiological studies of hippocampal function, *Behavioral Neuroscience*, 110:661-672.
 22. Granholm, A.E., Curtis, M., Diamond, D.M., Branch, B.J., Heman, K.L. and Rose, G.M. (1996) Development of an intact blood-brain-barrier in brain tissue transplants is dependent on the site of transplantation, *Cell Transplantation*, 5:305-313.
 23. Mesches, M.M., Fleshner, M., Heman, K.L., Rose, G.M. and Diamond, D.M. (1999) Exposing rats to a predator blocks primed burst potentiation in the

- Neuroscience*, 6:153-162.
36. Austin, L., Arendash, G.W., Gordon, M.N., Diamond, D.M. , DiCarlo, G., Wilcock, D. and Morgan, D. (2003) Short-term A β vaccinations do not improve cognitive performance in aged, cognitively-impaired APP+PS1 mice. *Behavioral Neuroscience*, 117:478-484.
 37. Yaniv, D., Vouimba, R.M., Diamond, D.M. and Richter-Levin, G. (2003) Simultaneous induction of long-term potentiation in the hippocampus and the amygdala by entorhinal cortex activation: mechanistic and temporal profiles, *in vivo*. *Neuroscience*, 120:1125-1135
 38. Woodson, J.C., Macintosh, D., Fleshner, M. and Diamond, D.M. (2003) Emotion-induced amnesia in rats: Working memory-specific impairment, corticosterone - memory correlation, and fear versus arousal effects on memory. *Learning & Memory*, 10:326-336.
 39. Diamond, D.M. (2004) Enhancement of cognitive and electrophysiology.1 (M.8 (c)o)-4

hippocampus and prefrontal cortex. *Biological Psychiatry*, 57:856-

- Neuropsychopharmacology*, 18:87-98.
60. Park, C.R., Zoladz, P.R., Conrad, C.D. and Diamond, D.M. (2008) A cute predator stress impairs the consolidation and retrieval of hippocampus-dependent memory in male and female rats. *Learning and Memory*, 15: 274-280.
 61. Zoladz, P.R., Conrad, C.D., Fleshner, M. and Diamond, D.M. (2008) Acute episodes of inescapable predator exposure in conjunction with daily social stress as an animal model of post-traumatic stress disorder. *Stress: The International Journal on the Biology of Stress*, 11:259-281.
 62. Diamond, D.M. (2008) The search for hormesis in the nervous system. *Critical Reviews in Toxicology*, 38:619-622.
 63. Zoladz, P.R. and Diamond, D.M. (2008) Hormetic and non-hormetic dose-response functions in stress effects on memory and synaptic plasticity: Issues and mechanisms. *American Journal of Pharmacology and Toxicology*, 3:108-121.
 64. Malone, J.I., Hanna, S., Saporta, S., Mervis, R.F., Park, C.R., Chong, L. and Diamond, D.M. (2008) Hyperglycemia not hypoglycemia alters neuronal dendrites and impairs spatial memory. *Pediatric Diabetes*, 9:531-539.
 65. Morgan, D., Munireddy, S., Alamed, J., DeLeon, Diamond, D.M., Bickford, P., Hutton, M., Lewis, J., McGowan, E. and Gordon, M.N. (2008) Apparent behavioral benefits of tau overexpression in P301L tau transgenic mice. *Journal of Alzheimer's Disease*, 15:605-614.
 66. Zoladz, P.R., Park, C.R., Muñoz, C. and Diamond, D.M. (2008) Tianeptine: An antidepressant with memory-protective properties. *Current Neuropharmacology*, 6:311-321.
 67. Zoladz, P.R. and Diamond, D.M. (2009) Linear and non-linear dose-response functions reveal a hormetic relationship between stress and learning. *Dose Response*, 7:132-148.
 68. Conboy, L., Tanrikut, C., Zoladz, P.R., Campbell, A.M., Park, C.R., Mocaer, E., Gabriel-Garcia, C., Sandi, C. and Diamond, D.M. (2009)

- J.D. and Diamond, D.M. (2011) Influence of pretraining predator stress on the expression of *c-fos* mRNA in the hippocampus, amygdala and striatum in response to long-term spatial memory retrieval. *Frontiers in Behavioral Neuroscience*, **5**:30. doi: 10.3389/fnbeh.2011.00030
74. Roth, T.L., Zoladz, P.R., Sweatt, J.D. and Diamond, D.M. (2011) Epigenetic modification of hippocampal BDNF DNA in adult rats in an animal model of post-traumatic stress disorder. *Journal of Psychiatric Research*, **45**:919-926.
75. Zoladz, P.R., Park, C.R., Halonen, J.D., Salim, S., Alzoubi, K.H., Srivareerat, M., Fleshner, M., Alkadhi, K. and Diamond, D.M. (2012) Differential expression of molecular markers of synaptic plasticity in the hippocampus, prefrontal cortex and amygdala in response to spatial learning, predator exposure and stress-induced amnesia. *Hippocampus*, **22**:577-589.
76. Hutchinson, K.M., McLaughlin, K.J., Wright, R.L., Ortiz, J.B., Anouti, D.P., Mika, A., Diamond, D.M. and Conrad, C.D. (2012) Environmental enrichment protects against the effects of chronic stress on cognitive and morphological measures of hippocampal integrity. *Neurobiology of Learning and Memory*, **97**:250-260.
77. Zoladz, P.R., Fleshner, M. and Diamond, D.M. (2012) Psychosocial animal

- Accelerated Resolution Therapy (ART) for Symptoms of Combat-Related Post-Traumatic Stress Disorder (PTSD). *Military Medicine*, 178:1298-1309.
85. Acosta, S.A., Diamond, DM, Wolfe, S., Tajiri, N., Shinozuka, K., Ishikawa, H., Hernandez, D.G., Sanberg, P.R., Kaneko, Y, Borlongan, C.V. (2013) Influence of post-traumatic stress disorder on neuroinflammation and cell proliferation in a rat model of traumatic brain injury . *PLoS One*, Dec 9;8(12):e81585. doi: 10.1371/journal.pone.0125115

- amygdala in PTSD is the bull in the evolutionary china shop. *Journal of Neuroscience Research*, 94(6): 437-444.
96. Homberg, J.R., Kyzar, E.J., Nguyen, M., Norton, W., Pittman, J., Poudel, M.K., Gaikwad, S., Nakamura, S., Koshiba, M., Yamanouchi, H., Scattoni, M.L., Ullman, J.F.P., Diamond, D.M., Parker, M.O., Klimenko, V.M., Apyratin, S.A., Brown, R.E., Song, C., Gottesman, I.I. and Kalueff, A.V.(2016) Improving treatment of neurodevelopmental disorders: recommendations based on preclinical studies. *Expert Opinion On Drug Discovery*, 11(1): 1125.
 97. MacQueen, D.A., Dalrymple, S.R., Drobos, D.J. and Diamond, D.M. (2016) Influence of pharmacological manipulations of NMDA and cholinergic receptors on working versus referencememory in a novel dual component olfactory memory task. *Learning & Memory*, 23:270-277. doi: 10.1101/lm.041251.115
 98. Homberg, J.R., Kyzar, E.J., Nguyen, M., Norton, W., Pittman, J., Poudel, M.K., Gaikwad, S., Nakamura, S., Koshiba, M., Yamanouchi, H., Scattoni, M.L., Ullman, J.F.P., Diamond, D.M., Parker, M.O., Klimenko, V.M., Apyratin, S.A., Brown, R.E., Song, C., Gottesman, I.I. and Kalueff, A.V.(2016) Understanding autism and other neurodevelopmental disorders through experimental translational neurobehavioral models. *Neuroscience and Biobehavioral Reviews*, 65: 292-312.
 99. Zoladz, P.R. and Diamond, D.M. (2016) Predator-Based Psychosocial Stress Animal Model of PTSD: Preclinical Assessment of Traumatic Stress at Cognitive, Hormonal, Pharmacological, Cardiovascular and Epigenetic Levels of Analysis *Experimental Neurology*, 284:211-219.
 100. Ravnskov, U., Diamond, D.M., Hama, R., Hamazaki, T., Hammarskjöld, B., Hynes, N., Kendrick, M., Langsjoen, P.H., Malhotra, A., Mascitelli, L., McCully, K.S., Ogushi, Y., Okuyama, H., Rosch, P.J., Schersten, T., Sultan, S., Sundberg, R. (2016) Lack of an association or an inverse association between lowdensity-lipoprotein cholesterol and mortality in the elderly. A systematic review. *BMJ Open*. doi: 10.1136/bmjopen-2015-010401
 101. Homberg, J.R., Kyzar, E.J., Scattoni, M.L., Norton, W., Pittman, J., Gaikwad, S., Nguyen, M., Poudel, M.K., Ullman, J.F.P., Diamond, D.M., Kaluyeav, A.A., Parker, M.O., Brown, R.E., Song, C., Gainetdinov R.R., Gottesman, I.I. and Kalueff, A.V. (2016) Genetic and environmental modulation of neurodevelopmental disorders: translational insights from labs to beds. *Brain Research Bulletin*, 125: 79-91.
 102. Halonen, J.D., Zoladz, P.R., Park, C.R. and Diamond, D.M. (2016) Behavioral and neurobiological assessments of predatorbased fear conditioning and extinction. *Journal of Behavioral and Brain Science*, 6:337-356.
 103. Sajan, M. P., Hansen, B. C., Higgs, M. G., Kahn, C. R., Braun, U., Leitges, M., Park, C. R., Diamond, D. M. and Farese, R. V.(2018) -40/42 and phospho-tau in mouse brain and isolated neuronal cells, and may link hyperinsulinemia and other aPKC activators to development of pathological and memory abnormalities in Alzheimer's disease. *Neurobiology of Aging* 61:225-237.
 104. Kip, K.E., and Diamond, D.M., (2018) Clinical, empirical, and theoretical rationale for selection of accelerated resolution therapy (ART) for treatment of post-traumatic stress disorder in VA and DoD facilities. *Military Medicine* 183(9-10):E314-E321.

105. Algamal, M.,

- Sciences*. 1(1):13-19.
117. Diamond, D.M., Alabdulgader, A.A., de Lorgeril, M., Harcombe, Z., Kendrick M., Malhotra, A., O'Neill, B.O., Ravnskov, U., Sultan, S. and Volek, J.S. (2020) Dietary Recommendations for Familial Hypercholesterolaemia: an Evidence-Free Zone. *BMJ Evidence-Based Medicine*, DOI: 10.1136/bmjebm-2020-111412
 118. Cernovsky, Z., Diamond, D.M., Mendonça, J.D. and Ferrari, J.R. (2020) Inappropriate Use of the Modified Somatic Perception Questionnaire (MSPQ) to Diagnose Malingering. *Archives of Psychiatry and Behavioral Sciences*. 3:7-12.
 119. Diamond, D.M. de Lorgeril, M., Kendrick M., Ravnskov, U., and Rosch, P.J. (2020) Formal comment on "Systematic review of the predictors of statin adherence for the primary prevention of cardiovascular disease". *PLoS ONE 14(1): e0205138*. <https://doi.org/10.1371/journal.pone.0205138>
 120. Diamond, D.M., O'Neill, B.O. and Volek, J.S. (2020) Low carbohydrate diet: Are concerns with saturated fat, lipids andn

- Vehicle Accidents. *European Journal of Clinical Medicine*. 2(3)
<https://doi.org/10.24018/clinicmed.2021.2.3.54>
130. Cernovsky, Z., Fattahi, M., Litman, L.C. and Diamond, D.M. (2021) Validation of the PTSD Checklist for DSM-5 (PCL-5) on patients injured in car accidents. *European Journal of Medical and Health Sciences*.
DOI: 10.24018/ejmed.2021.3.2.79
 131. Sajan, M.P., Braun, U., ..., Diamond, D.M., et al. (2021) Control of B-Site Amyloid Precursor Protein -Cleaving Enzyme-1 Expression by Protein Kinase Gg/1 and Nuclear Factor k-B *Current Alzheimer's Research*. 18(12):941-955.
doi: 10.2174/1567205019666211222120448
 132. Ravnskov, U., de Lorgeril, M., Kendrick M. and Diamond, D.M. (2022) Importance of coagulation factors as critical components of premature cardiovascular disease in familial hypercholesterolemia. *International J*

3. Weinberger, N.M. and Diamond, D.M. (1988) Dynamic modulation of the auditory system by associative learning. In: *Auditory Function: The Neurobiological Bases of Hearing*, eds., G.M. Edelman, W.E. Gall and W.M. Cowan, John Wiley and Sons, New York, pp. 485-512.
4. Weinberger, N.M., Metherate, R., Ashe, J., McKenna, T., Diamond, D.M. and Cassady, J.M. (1991) Neural adaptive information processing: A preliminary model of receptive field plasticity in auditory cortex during Pavlovian conditioning. In: *Neurocomputation and Learning: Foundations of Adaptive Networks*, eds. M. Gabriel and J. Moore, Bradford Books, pp. 91-138.
5. Diamond, D.M., Bennett, M.C., Fleshner, M. and Rose, G.M. (1991) Modulation of hippocampal primed burst potentiation by stress and corticosterone. In: *Peripheral Signaling of the Brain: Role in Neural-Immune Interactions and*

- Neurobiology of Stress-Induced Amnesia; pg. 459-563. In: *The Praeger Handbook of Learning and the Brain*, ed., S. Feinstein, Greenwood Publishing Group.
15. Zoladz, P.R., Park, C.R. and Diamond, D.M. (2011) Neurobiological Basis of the complex effects of stress on memory and synaptic plasticity. In: *Handbook on Stress: Neuropsychological Effects of Stress on the Brain*, ed. C.D. Conrad, Wiley-Blackwell, 157-178.
 16. Farmer, G., Park, C.R., Bullard, L. and Diamond, D.M. (2014) Evolutionary, historical and mechanistic perspectives on