CURRICULUM VITAE

A. NAME: Kazuhito Toyooka, Ph.D., Associate Professor

B. CURRENT ADDRESS:

Work:
Drexel University College of Medicine
Department of Neurobiology and Anatomy
2900 Queen Lane, Room 186
Philadelphia, PA 19129
Phone: 215-991-8288
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C. EDUCATION:

04/1992 –04/1999	Osaka University, Japan	Ph.D.(05/99)	Immunology
04/1988 –03/1992	Shizuoka University, Japan	B.S.(03/92)	Developmental Biology

D. Postgraduate Training:

04/1999 – 08/2002	University of California, San Diego	Postdoctoral Fellow	Pediatrics

E. Employment History and Faculty Appointments:

09/2002 – 04/2003	Saitama Medical University	Research Associate	Cell Biology
05/2003 – 06/2003	Saitama Medical University	Senior Research Fellow	Cell Biology
07/2003 – 12/2006	Osaka City University	Lecturer	Cell Biology and Biochemistry
01/2007 – 11/2007	University of California, San Diego	Assistant Project Scientist	Pediatrics
12/2007 – 12/2012	University of California, San Francisco	Assistant Research Biologist	Pediatrics
01/2013 – 06/2023	Drexel University College of medicine	Assistant Professor	Neurobiology and Anatomy
07/2023-present	Drexel University College of medicine	Associate Professor	Neurobiology and Anatomy

F. BORARD CERTIFICATION, LICENSURE DEA: none

G. MILLITARY SERVICE: Not applicable

H. HONORS AND AWARDS:

2017	BeHEARD (Helping Empower and Accelerate Research Discoveries) Challenge Award	Rare Genomics Institute
2017	Cyagen Animal Model Award (CAMA)	Cyagen

I. Memberships and Offices in Professional Societies:

2016-Present	The American Society for Cell Biology
2004-Present	Society for Neuroscience

J. PROFESSIONAL COMMITTEES AND ADMINISTRATIVE SERVICE

1. INSTITUTIONAL

07/2013	Qualifying Exam Committee Member (Neuroscience Program)
07/2014	Qualifying Exam Committee Member (Neuroscience Program)
09/2014	Discovery Day Platform Presenter Selection Committee
01/2015	Grad student recruiting Committee Member (Neuroscience)
2013-2016	Research Day Judge, Drexel University
06/2015	Neuroscience Camp for High School Students 2015 (Students worked in my lab)
05/2018	Qualifying Exam Committee Member (Neuroscience Program)
01/2019	CURE grant reviewer and study section member
09/2015	Discovery Day Platform Presenter Selection Committee
2016-2018	Preliminary Exam Chair (Neuroscience Program)
2016-2018	Neuroscience Steering Committee Member
2013-Present	Discovery Day Judge, Drexel University
2013-present	MCBG Steering Committee Member
2013-present	MCBG Student Recruiting Committee Member
2024	Preliminary Exam Committee Member (Neuroscience Program)

2. EXTERNAL

2016	Ad-hoc reviewer	Human Molecular Genetics
2016	Guest editor in a special issue	Brain Sciences
2016-Present	Editorial board member	Brain Sciences
2017	Ad-hoc reviewer	Developmental Dynamics
2017	Evaluation committee member	Brain Sciences Travel Awards
2017	Ad-hoc reviewer	Progress in Neuropsychopharmacology & Biological Psychiatry
2018	Ad-hoc reviewer	Cytogenic & Genome Research

2018-2019	Guest editor in a special issue	Brain Sciences
2018-2019	Guest editor in a special issue	Frontiers in Cell and developmental Biology
2018	Ad-hoc reviewer	npj Schizophrenia
2019	Ad-hoc reviewer	European Journal of Medical Genetics
2019	Ad-hoc reviewer	Scientific Reports
2019	Ad-hoc reviewer	Molecular Psychiatry
2020	Ad-hoc reviewer	Current Biology
2020	Ad-hoc reviewer	Trends in Pharmacological Sciences
2020-2021	Review editor	Frontiers in Cellular Neuroscience (Cellular Neurophysiology)
2021-present	Associate editor	Frontiers in Cellular Neuroscience (Cellular Neurophysiology)
2021	Ad-hoc reviewer	Nature Communication
2022	Grant proposal reviewer	FY22 NSF RECODE study section
2022	Ad-hoc reviewer	Seminars in Cell and developmental Biology
2022	Ad-hoc reviewer	Frontiers in Cellular Neuroscience
2022	Ad-hoc reviewer	Genes
2022-present	Guest editor	International Journal of Molecular Sciences, "Responsible Factors for Neuromorphogenesis in the Brain"
2022-present	Guest editor (Book)	Methods in Molecular Biology, “Neuronal Morphogenesis - Methods and Protocols”
2022	Grant proposal reviewer	New Jersey Governor’s Council for Medical Research and Treatment of Autism 2023
2022	Organizer	3rd International Electronic Conference on Brain Sciences
2022	Ad-hoc reviewer	Cells
2022	Ad-hoc reviewer	Journal of Autism and Developmental Disorders
2022-present	Guest editor	International Journal of Molecular Sciences, "Neurodevelopmental

		Disorders: From Molecular and Cellular Mechanism to Therapeutic Perspective"
2022	Ad-hoc reviewer	Frontiers in Molecular Neuroscience
2022	Ad-hoc reviewer	Biology
2023	Ad-hoc reviewer	Cell Reports (two articles)
2023	Annual report reviewer	New Jersey Governor's Council for Medical Research and Treatment of Autism 2023
2023	Ad-hoc reviewer	Brain Behavior and Immunity
2023-present	Associate editor	Frontiers in Cell and Developmental Biology (Morphogenesis and Patterning)
09/2023	Ad-hoc reviewer	iScience
2023	Ad-hoc reviewer	Brain and Behavior
10/2023	Ad-hoc reviewer	iScience
2023	Ad-hoc reviewer	Scientific Reports
2023	Ad-hoc reviewer	The Proceedings of the National Academy of Sciences (PNAS) of the United States of America
11/2023-present	Grant proposal reviewer	Natural Sciences and Engineering Research Council (NSERC) of Canada Discovery Grant
01/2024-present	Grant proposal reviewer	UK Research and Innovation (UKRI) Research Grant
01/2024-present	Research advisory Board member	YWHAG(14-3-3gamma) Foundation

K. COMMUNITY SERVICE:

10/2016	Support of high school student's experiments	Los Altos High School, CA

L. EDUCATIONAL ACTIVITIES:

1.COURSES (Taught)

Year	Program or School	Course title	audience	Role
08/2013-2015	Neuroscience	Neuroscience I Neurogenesis and neuronal differentiation	1st year graduate student (Neuroscience program)	Lecturer
08/2013-2014	Medical school	Micronatomy, lecture Cytoskeleton	Medical students	Lecturer
08/2013-2014	Medical school	Micronatomy, lecture Cell junction	Medical students	Lecturer

Year	Program or School	Course title	audience	Role
01/2013-2021	Medical school	Core Curriculum II Cell polarity	1st year graduate student (all programs)	Lecturer
02/2014-2022	Medical school	Core Curriculum II Development/Differentiation – Introduction and overview	1st year graduate student (all programs)	Lecturer
08/2013-present	Neuroscience	Neuroscience I Early events in neural development; pattern and positional information	1st year graduate student (Neuroscience program)	Lecturer
08/2013-present	Neuroscience	Neuroscience II Growth cones, migration, turning	2nd year graduate student (Neuroscience program)	Lecturer
09/2013-present	Neuroscience	Neuroscience I Neuronal migration	1st year graduate student (Neuroscience program)	Lecturer
08/2013-present	Medical school	Micronatomy, Lab Fundamental, Epithelium, gland, connective tissue, Integument, Muscle, Nerve, etc	Medical students	Instructor
08/2022-present	Medical school	Core Concepts in Biochemistry and Cell Biology How to work with DNA – Transgenics	1st year graduate student (all programs)	Lecturer
01/2023	Neuroscience	Advanced Neuroscience	2nd year graduate student (Neuroscience program)	Co-Director

2. MENTORING

Dates	Name	Program or School	Role	Current Position
2013	Thomas Sibert	Drexel University	Research Advisor	
01/2013-06/2016	Tomoka Wachi	Drexel University	Mentor	Physician in a hospital in Japan
01/2014-03/2017	Brett Cornell	Drexel University School of Medicine,	Mentor	Medical Writer at Boston Scientific

Dates	Name	Program or School	Role	Current Position
		Neuroscience Program		
06/2016 – 08/2019	Trevor Smith	Drexel University School of Medicine	Mentor and supervision	
01/2017-04/2021	Sara Blazejewski	Drexel University School of Medicine, Neuroscience Program	Mentor	Researcher position in GlaxoSmithKline
09/2017-06/2022	Sarah Bennison	Drexel University School of Medicine, Neuroscience Program	Mentor	Postdoc researcher in University of Southern California, Dr. Pat Levitt lab
11/2018 – 08/2023	Xiaonan Liu	Drexel University School of Medicine, Pharmacology and Physiology	Mentor	Researcher position in Frontage Laboratories, Inc.
06/2021-08/2021	Lozen Robinson	Drexe University	Mentor	STAR scholar, summer undergraduate student
05/2022-07/2023	Cayla Andrews	Drexel University School of Medicine	Mentor	M.S. candidate in my lab
10/2022-present	Bijaya Manandhar	Drexe University	Mentor	Volunteer undergraduate student
06/2023-present	Carrie Gordon	Drexe University	Mentor	STAR scholar, Volunteer undergraduate student
08/2023-present	Jiwoo Lee	High School	Mentor	High School Research Intern
09/2023-present	Sierra Coleman	Drexel University School of Medicine, Neuroscience Program	Mentor	PhD candidate in neuroscience program
01/2024-present	Vasu Kansagra	Drexel University School of Medicine	Mentor	Volunteering student, MD candidate at Drexel University
01/2024-present	Laasya Reddy Pesaladinne	High School	Mentor	High School Research Intern
01/2024-present	Shiena Watanabe	MD	Mentor	Research Intern
01/2024-present	Vicky Shih	Drexel University School of Medicine	Mentor	Volunteering student, MD candidate at Drexel University
01/2024-present	William Telfer	Drexel University School of Medicine	Mentor	Volunteering student, MD candidate at Drexel University

Students Accomplishments:

Brett Cornell, PhD:

- Goldberger/Boyne/Levine Award for Student Excellence: 2016
- Received the second place for his poster presentation in the Outstanding Senior Graduate Student Poster in Discovery Day in Drexel University, 2016
- Published 6 manuscripts and four poster presentations under my mentorship

Sara Blazejewski, PhD:

- NIH F31 (06/2020-04/2021)
- Travel award: 2018 and 2019 in The American Society for Cell Biology (ASCB)/EMBO Annual meeting
- Travel award : Drexel Biomedical Sciences Graduate Student Association in 2020
- Selected for the platform presentation in Discovery Day in Drexel University, 2020
- Overall Finalist/College of Medicine Winner for the Drexel University Graduate College Outstanding Mentorship Award

Sarah Bennison, PhD

- NIH F31 (06/2021-present)
- Travel award: 2019 in The American Society for Cell Biology (ASCB)/EMBO Annual meeting
- Received an honorable mention for her poster presentation in the Outstanding Junior Graduate Student Poster in Discovery Day in Drexel University, 2018
- Received the second place for her poster presentation in the Outstanding Senior Graduate Student Poster in Discovery Day in Drexel University, 2020
- Received the first place for her oral platform presentation in Discovery Day in Drexel University, 2021
- 2022 Drexel University Research Excellence Award

Xiaonan Liu: 5th year PhD Candidate

- Received the third place for her poster presentation in the Outstanding Junior Graduate Student Poster in Discovery Day in Drexel University, 2018
- Travel award : Drexel Biomedical Sciences Graduate Student Association in 2020
- Two first author publications in Hum Mol Genet, 2021, and Brain Scciences, 2022.
- Received 2022-2023 Dean's Fellowship for Excellence in Collaborative or Themed Research

Bijaya Manandhar: a sophomore in Drexel University

- Received the 2022-2023 Undergraduate research Mini Grant (Winter Term)
- Selected as a 2023 STAR schalor

Carrie Gordon: a sophomore in Drexel University

- Selected as a 2023 STAR schalor

THESIS COMMITTEE

Dates	Name	Program or School	My Role	Current Position
05/2017-06/2017	Ankita Patil	Drexel University School of Medicine, Neuroscience Program	MS Committee Member	Ph.D. candidate in Neuroscience Program at Drexel University
05/2017-12/2017	Zarina Greenberg	University of South Australia	PhD Examiner	
04/2017-03/2019	Nina Latcheva	Drexel University Biology Department	PhD Thesis Committee member	Ph.D. candidate in Molecular and Cellular Biology and Genetics Program
09/2018-06/2019	Teresa LuPone	Drexel University School of Medicine, Microbuiology and Immunology	MS Committee Member	MS Candidate in Microbiology and Immunology
04/2017-11/2022	Megan Radler	Drexel University Biology Department	Ph.D. Thesis Committee Member	Ph.D. candidate in Biology Program
07/2017-07/2021	Ankita Patil	Drexel University School of Medicine, Neuroscience Program	PhD Thesis Committee member	Ph.D. candidate in Neuroscience Program
07/2019 - 01/2022	Teresa LuPone	Drexel University School of Medicine, Microbuiology and Immunology	PhD Thesis Committee member, but she changed the mentor, so thesis committee was closed.	Ph.D. Candidate in Microbiology and Immunology
09/2020 – 08/2021	Olivia Cipollini	Drexel University School of Medicine, Microbuiology and Immunology	MS Committee Member	MS Candidate in Microbiology and Immunology
06/2020 - Present	Shrobona Guha	Drexel University School of Medicine, Neuroscience Program	PhD Thesis Committee member	Ph.D. candidate in Neuroscience Program

Dates	Name	Program or School	My Role	Current Position
08/2021 – 09/2022	Lisa Stukenborg	Drexel University School of Medicine, MCBG Program	MS Thesis Committee Chair	MS candidate in MCBG Program
10/2022-05/2023	Neha Mohan	Drexel University School of Medicine, Pharmacology and Physiology Program	Qualifying Exam Committee Member	Ph. D. candidate in Pharmacology and Physiology Program
12/2022-08/2023	Justin Do	Drexel University School of Medicine, Cancer Biology	MS Thesis Committee Chair	MS candidate in Cancer Biology
04/2023-05/2023	Xinyi Chen	Drexel University School of Medicine, Neuroscience Program	MS Non-Thesis Committee member	MS candidate in Neuroscience
04/2023-present	Kathryn Markey	Drexel University Biology Department	Ph.D. Thesis Committee Member	Ph.D. candidate in Biology
01/2024-present	Alexis Tang	Drexel University School of Medicine, Microbuiology and Immunology	MS Committee Member	MS Candidate in Microbiology and Immunology

L. CLINICAL ACTIVITIES: Not applicable

M. SUPPORT

1. External Present Support

Title: Neuromorphogenesis and Neural Circuit Development: The Pedf/Plxdc1/Adnp Signaling Pathways
Supporting Agency: Department of Defense
Period of performance: 09/15/2023-09/14/2026

Title: Targeting 5' Adenosine Monophosphate-activated Protein Kinase (AMPK) in Autism Spectrum Disorder
PI: Kazuhito Toyooka
Supporting Agency: Pennsylvania Department of Health CURE block grant to Drexel University.
Period of performance: 6/1/2021-5/31/2024

Title: Role of KIFC1 in Neuronal Migration
PI: Peter Baas; **Co-Investigator:** Toyooka.
Supporting Agency: Pennsylvania Department of Health CURE block grant to Drexel University.
Period of performance: 06/01/2022-5/31/2025

Title: Roles of the autism and schizophrenia risk kinase TAOK2 and its phospho-target SEPT7 in neuritogenesis
PI: Elias Spiliotis; **Co-Investigator:** Toyooka.

Supporting Agency: Pennsylvania Department of Health CURE block grant to Drexel University.
Period of performance: 6/1/2021-5/31/2024

3. Past research support

Title: Role of 14-3-3epsilon in neurite initiation
PI: Kazuhito Toyooka
Time Commitment: 1.2 calendar months
Supporting Agency: National Institutes of Health / National Institute of Neurological Disorders and Stroke; 5R01NS096098-05
Period of performance: 9/15/2016-7/31/2023

Title: Role of Tau in Microtubule Stability in Adult Neurons
PI: Peter Baas; **Co-Investigator:** Toyooka.
Supporting Agency: National Institutes of Health / National Institute on Aging; R21AG068597
Period of performance: 4/1/21-3/31/23

2014 Professional Enrichment and Growth (PEG) Grant
Title: Analysis of genes associated with developmental brain disorders using novel genetic animal models
PI: Kazuhito Toyooka
Supporting Agency: Drexel University College of Medicine
Period of performance: 08/2014-12/2014

O. GRADUATE STUDENTS, POSTDOCTRAL FELLOWS and POSTGRADUATE MEDICAL TRAINEES

1. Graduate students:

Brett Cornel, PhD, 2014-2017,

Thesis title: 14-3-3 proteins in neuronal migration and neuromorphogenesis during cortical development and neurodevelopmental disorders

Degree awarded date: 5/2017

Department: Neurobiology and Anatomy

Sara Blazejewski, PhD, 2017-2021

Thesis title: Dissecting Cellular Mechanisms of Neurite Formation in the Developing Cortex

Degree awarded date: 5/2021

Department: Neurobiology and Anatomy

Sarah Bennison, PhD. 2017-2022

Thesis title: Dissecting the molecular and cellular mechanisms of neurite formation through two understudied molecules in neurodevelopment and exploration on a potential peptide therapy in a mouse model for autism study

Degree awarded date: 8/2023

Department: Pharmacology and Anatomy

Xiaonan Liu, PhD. 2018-2023

Thesis title: Characterization of Adnp functions from establishing neuronal morphology in neonates to functional circuitry in adulthood: implications for ADNP Syndrome and Autism Spectrum Disorder

Degree awarded date: 8/2022

Department: Pharmacology and Physiology

2. Postdoctoral Fellows and postgraduate medical trainees

Tomoka Wachi, MD, PhD, 2013-2016, Research

P. BIBLIOGRAPHY

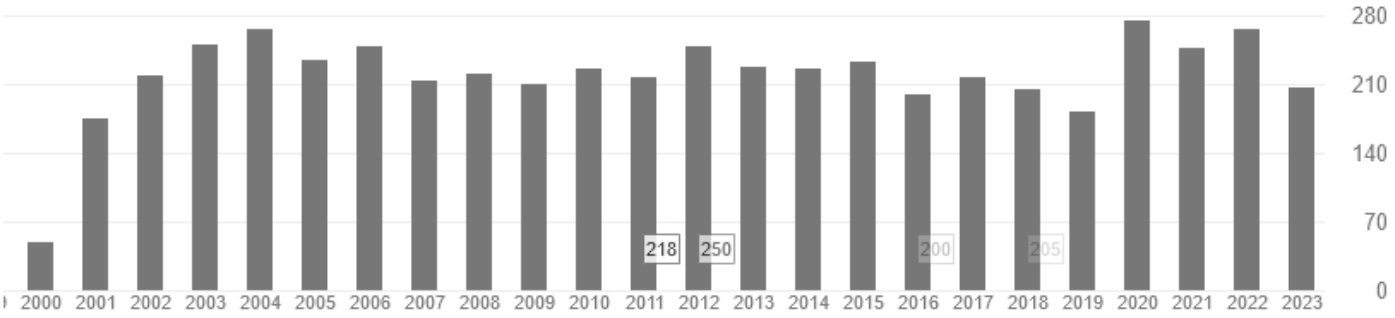
1. PUBLICATIONS

Complete List of Published Work in MyBibliography and Google Scholar:
https://www.ncbi.nlm.nih.gov/myncbi/16I9ouoEG3P/bibliography/public/

https://scholar.google.com/citations?hl=en&user=nF1ORg0AAAAJ&view_op=list_works&sortby=pubdate

Google scholar Scholarometer

	all	Since 2018
Citations	5,412	1,384
h-index	30	20
i10-index	42	29



1. *Tai, X.-G., Kita, Y., **Toyooka, K.,** Hamaoka, T. and Fujiwara, H. Thymic stroma-derived T-cell inhibitory factor (TSTIF) 2: TSTIF acts the antigen-presenting cell to inhibit antigen-stimulated T-cell proliferation. **Thymus**, 1993, 21:247-258. **IF: 0.800 (1999), # of Citation: 1**

2. *Iwata, H., Nagano, T., **Toyo-oka, K.,** Hirose, H., Hamaoka T. and Fujiwara, H. Suppression of Allograft Responses by Combining Alloantigen-Specific IV Presensitization with Suboptimal

Doses of FK 506 or Rapamycin. **Transplant. Proc.**, 1994, 26:851-854. **IF:1.014 (2020), # of Citation: 0**

3. *Iwata, H., Nagano, T., **Toyo-oka, K.,** Hirose, H., Hamaoka, T. and Fujiwara, H. Suppression of allograft responses by combining alloantigen-specific i.v. pre-sensitization with suboptimal doses of rapamycin. **Int. Immunol.**, 1994, 6:93-99. **IF: 5.071 (2021), # of Citation: 8**

4. * Tai, X.-G., Yashiro, Y., Abe, R., **Toyooka, K.,** Wood, C. R., Morris, J., Long, A., Ono, S., Kobayashi, M., Hamaoka, t., Neben, S. and Fujiwara, H. A Role for CD9 Molecules in T Cell Activation. **J. Exp. Med.**, 1996, 184:753-758. **IF: 17.579 (2021), # of Citation: 109**

5. ***Toyooka, K.,**Maruo, S., Iwahori, T., Yamamoto, N., Tai, X.-G., Abe, R., Takahama, Y., Murakami, M., Uede, T., Hamaoka, T. and Fujiwara, H. CD28 co-stimulatory signals induce IL-2 receptor expression on antigen-stimulated virgin T cells by an IL-2-independent mechanism. **Int. Immunol.**, 1996, 8:159-169. **IF: 5.071 (2021), # of Citation: 24**

6. * Maruo, S., **Toyo-oka, K.,** Oh-hora, M., Tai, X.-G., Iwata, H., Takenaka, H., Yamada, S., Ono, S., Hamaoka, T., Kobayashi, M., Wysocka, M., Trinchieri, G. and Fujiwara, H. IL-12 Produced by Antigen-Presenting Cells Induces IL-2-Independent Proliferation of Helper Cell Clones. **J. Immunol.**, 1996, 156:1748-1755. **IF: 5.430 (2021), # of Citation: 67**

7. * **Toyo-oka, K.,**Tai, X.-G., Yashiro, Y., Ahn, H.-J., Abe, R., Hamaoka, T., Kobayashi, M., Neben, S. and Fujiwara, H. Synergy between CD28 and CD9 costimulation for naive T cell activation. **Immunol. Lett.**, 1997, 58:19-23. **IF: 4.230 (2021), # of Citation: 14**

8. *Tai, X.-G., **Toyooka, K.,** Yashiro, Y., Abe, R., Park, C.-S., Hamaoka, T., Kobayashi, M., Neben, S. and Fujiwara, H. CD9-Mediated Costimulation of TCR-Triggered Naive T Cells Lead to Activation Followed by Apoptosis. **J. Immunol.**, 1997, 159:3799-3807. **IF: 5.430 (2021), # of Citation: 61**

9. *Tai, X.-G., **Toyo-oka, K.,** Yamamoto, N., Yashiro, Y., Mu, J., Hamaoka, T. and Fujiwara, H. Expression of an Inducible Type of Nitric Oxide (NO) Synthase in the Thymus and Involvement of NO in Deletion of TCR-Stimulated Double-Positive Thymocytes. **J. Immunol.**, 1997, 158:4696-4703. **IF: 5.430 (2021), # of Citation: 68**

10. * Tomura, M.; Nakatani, I.; Murachi, M.; Tai, X.-G., **Toyo-oka, K.,** Fujiwara, H. Supression of Allograft Responses Induced by Interleukin-6, Which Selectively Modulates Interferon-gBut Not Interleukin-2 Production. **Transplantation**, 1997, 64:757-763. **IF: 5.385 (2021), # of Citation: 14**

11. * **Toyooka, K.,**Tai, X.-G., Park, C.-S., Yashiro, Y., Hamaoka, T.and Fujiwara, H. A caspase inhibitor protects thymocytes from diverse signal-mediated apoptosis but not clonal deletion in fetal thymus organ culture. **Immunol. Lett.**, 1998, 63:83-89. **IF: 4.230 (2021), # of Citation: 10**

12. * Park, C.-S., Yashiro, Y., Tai, X.-G., **Toyo-oka, K.,** Hamaoka, T., Yagita, H., Okumura, K., Neben, S. and Fujiwara, H. Differential Involvement of a Fas-CPP32-Like Protease Pathway in Apoptosis of TCR/CD9-Costimulated, Naive T Cells and TCR-Restimulated, Activated T Cells.**J. Immunol.**, 1998, 160:5790-5796. **IF: 5.430 (2021), # of Citation: 9**

13. * Yashiro, Y., Tai, X.-G., **Toyo-oka, K.,** Park, C.-S., Abe, R., Hamaoka, T., Kobayashi, M., Neben, S. and Fujiwara, H. A fundamental difference in the capacity to induce proliferation of naïve T cell between CD28 and other costimulatory molecules. **Eur. J. Immunol.**, 1998, 28: 926-935. **IF: 6.688 (2021), # of Citation: 77**

14. *__Toyo-oka, K.,__Yashiro-Ohtani, Y., Park, C.-S., Tai, X.-G., Miyake, K., Hamaoka, T. and Fujiwara, H. Association of a tetraspanin CD9 with CD5 on the T cell surface: role of particular transmembrane domains in the association. **Int. Immunol.**, 1999, 11:2043-2052. **IF: 5.071 (2021), # of Citation: 57**

15. *Yashiro-Ohtani, Y., Zhou, X.-Y.,__Toyo-oka, K.,__ Tai, X.-G., Park, C.-S., Hamaoka, T., Abe, R., Miyake, K. and Fujiwara, H. Non-CD28 Costimulatory Molecules Present in T Cell Rafts Induce T Cell Costimulation by Enhancing the Association of TCR with Rafts. **J. Immunol.**, 2000, 164:1251-1259. **IF: 5.430 (2021), # of Citation: 215**

16. *Zhou, X.-Y.,Yashiro-Ohtani, Y., __Toyo-oka, K.,__ Park, C.-S., Tai, X.-G., Hamaoka, T. and Fujiwara, H. CD5 Costimulation Up-Regulates the Signaling to Extracellular Signal-Regulated Kinase Activation in $CD4^+CD8^+$ Thymocytes and Supports Their Differentiation to the CD4 Lineage. **J. Immunol.**, 2000, 164:1260-1268. **IF: 5.430 (2021), # of Citation: 33**

17. *The RIKEN Genome Exploration Research Group Phase II Team and the FANTOM Consortium. Functional annotation of full-length mouse cDNA collection. **Nature**. 2001, 409:685-690. (85th out of 95 authors). **IF: 69.504 (2021), # of Citation: 875**

18. * Merscher, S., Funke, B, Epstein, J. A., Heyer, J., Puech, A., Lu, M. M., Xavier, R. J., Demay, M. B., Russell, R. G., Factor, S., __Toyooka, K.,__ Jore, B. S., Lopez, M., Pandita, R. K., Lia, M., Carrion, D., Xu, H., Schorle, H., Kobler, J. B., Scambler, P., Wynshaw-Boris, A., Skoultchi, A. I., Morrow, B. E. and Kucherlapati1, R. *Tbx1* is Responsible for Cardiovascular Defects in Velo-Cardio-Facial/DiGeorge Syndrome. **Cell**, 2001, 104:619-629. **IF: 65.988 (2021), # of Citation: 1032**

19. *Park, C.-S., Yang, Y.-F., Zhou, X.-Y., __Toyooka, K.,__ Yashiro-Ohtani, Y., Park, W.-R., Tomura, M., Tai, X.-G., Hamaoka, T. and Fujiwara, H. Reversible CD8 expression induced by common cytokine receptor gchain-dependent cytokines in a cloned $CD4^+$ T_h1 cell line. **Int. Immunol.**, 2002, 14:259-266. **IF: 5.071 (2021), # of Citation: 3**

20. *Cardoso, C., Leventer, R. J., Ward, H. L.,__Toyo-oka, K.,__ Chung, J., Gross, A., Martin, C. L., Allanson, J., Pilz, D. T., Olney, A. H., Mutchinick, O. M., Hirotsune, S., Wynshaw-Boris, A., Dobyns, W. B. and Ledbetter, D. H. Refinement of a 400-kb Critical Region Allows Genotypic Differentiation between Isolated Lissencephaly, Miller-Dieker Syndrome, and Other Phenotypes Secondary to Deletions of 17p13.3. **Am. J. Hum. Genet.**, 2003, 72:918-930. **IF: 11.043 (2021), # of Citation: 275**

21. *__Toyo-oka, K.,__ Shionoya, A., Gambello, M. J., Cardoso,C., Leventer, R., Ward, H. L., Ayala, R., Tsai, L.-H., Dobyns, W., Ledbetter, D., Hirotsune, S. and Wynshaw-Boris, A. 14-3-3e is important for neuronal migration via binding of NUDEL : a molecular explanation for Miller-Dieker syndrome. **Nat. Genet.**, 2003, 34:274-285. **IF: 41.376 (2021), # of Citation:427**

22. Yingling, J., __Toyo-oka, K.,__ and Wynshaw-Boris, A.. Miller- Dieker Syndrome: Analysis of a Human Contiguous Gene Syndrome in the Mouse. **Am. J. Hum. Genet.**, 2003, 73(3):475-488. **IF: 11.043 (2021), # of Citation: 44**

23. *Hurlin, P. J., Zhou, Z.-Q., __Toyo-oka, K.,__Ota, S., Walker, W. L., Hirotsune, S. and Wynshaw-Boris, A. Deletion of Mnt leads to disrupted cell cycle control and tumorigenesis. **EMBO J.**, 2003, 22:4584-4596. **IF: 13.783 (2021), # of Citation: 114**

23. *Hurlin, P. J., Zhou, Z.-Q., **Toyo-oka, K.,**Ota, S., Walker, W. L., Hirotsune, S. and Wynshaw-Boris, A. Evidence of Mnt-Myc Antagonism Revealed by Mnt Gene Deletion. **Cell Cycle**, 2004, 3:97-99. **IF: 5.173 (2021), # of Citation: 19**

25. ***Toyo-oka, K.,**Hirotsune, S.,Gambello,M. J., Zhou, Z.-Q., Olson, L., Rosenfeld, M. G., Eisenman, R., Hurlin, P. J. and Wynshaw-Boris, A. Loss of the Max-interacting protein Mnt in mice results in decreased viability, defective embryonic growth and craniofacial defects:relevance to Miller-Dieker syndrome. **Hum. Mol. Genet.**, 2004, 13:1057-1067. **IF: 5.121 (2021), # of Citation: 63**

26. *Sasaki, S., Mori, D., **Toyo-oka, D.,** Chen, A., Garrett-Beal, L., Muramatsu, M., Miyagawa, S., Hiraiwa N., Yoshiki, A., Wynshaw-Boris, A., and Hirotsune, A. Complete Loss of Ndel1 Results in Neuronal Migration Defects and Early Embryonic Lethality. **Mol. Cell. Biol.**, 2005, 25:7812-7827. **IF: 5.094 (2021), # of Citation: 192**

27. ***Toyo-oka, K.,**Sasaki, S.,Yano, Y., Mori, D., Kobayashi, T., Toyoshima, Y. Y., Tokuoka, S. M., Ishii, S., Shimizu, T., Muramatsu, M., Hiraiwa, N., Yoshiki, A., Wynshaw-Boris, A. and Hirotsune, S. Recruitment of katanin P60 by phosphorylated NDEL1, an LIS1 interacting protein, is essential for mitotic cell division and neuronal migration. **Hum. Mol. Genet.**, 2005, 14: 3113-3128. **IF: 5.121 (2021), # of Citation: 127**

28. ***Toyo-oka, K.,**Bowen,T. J., Hirotsune, S., Li, Z.,Jain, S., Ota, S., Lozach, L. E., Bassett, I. G., Lozach, J., Rosenfeld, M. G., Glass, C. K., Eisenman, R., Ren, B., Hurlin, P. J. and Wynshaw-Boris, A. Mnt-Deficient Mammary Glands Exhibit Impaired Involution and Tumors with Characteristics of Myc Overexpression. **Cancer Res.**, 2006, 66: 5565-5573. **IF: 13.312 (2021), # of Citation: 42**

29. *Mori, D., Yano, Y., **Toyo-oka, K.,** Yoshida, N., Yamada, M., Muramatsu, M., Zhang, D., Saya, H., Toyoshima, Y. Y., Kinoshita, K., Wynshaw-Boris, A. and Hirotsune, S. NDEL1 Phosphorylation by Aurora-A Kinase Is Essential for Centrosomal Maturation, Separation, and TACC3 recruitment. **Mol. Cell. Biol.**, 2007, 27: 352-367. **IF: 5.094 (2021), # of Citation: 178**

30. ***Toyo-oka, K.,**Yano, Y., Shiota, M., Iwao, H., Hiraiwa, N., Muramatsu, M., Yoshiki, A. and Hirotsune, S. Protein Phosphatase4 catalytic subunit (PP4c) regulates CDK1 activity and organization of microtubules through dephosphorylation of NDEL1, **J. Cell Biol.**, 2008, 180: 1133-1147. **IF: 8.077 (2021), # of Citation: 86**

31. *Yingling, J., Youn, Y. H., Darling, D., **Toyo-oka, K.,**Pramparo, T., Hirotsune, S. and Wynshaw-Boris, A. Neuroepithelial Stem Cell Proliferation requires LIS1 for Precise Spindle Orientation and Symmetric Division. **Cell**, 2008, 132: 474-486. **IF: 65.988 (2021), # of Citation: 294**

32. *Ikeda, M., Hikita, T., Taya, S., Uraguchi-Asaki, J., **Toyo-oka,**K., Wynshaw-Boris, A., Ujike, H., Inada, T., Takao, K., Miyakawa, T., Osaki, N., Kaibuchi, K. and Iwata, N. Identification of *YWHAE*, a gene encoding 14-3-3epsilon, as a possible susceptibility gene for schizophrenia. **Hum. Mol. Genet.**, 2008, 17: 3212-3222. **IF: 5.121 (2021), # of Citation: 123**

33. *Cheah, P.-S., Ramshaw,H. S.,Thomas, P. Q., **Toyo-oka,K.,**Martin, S., Coyle,P., Guthridge,M. A.,Stomski,F.,Maarten van den Buuse, Wynshaw-Boris,A., Lopez, A. F.andSchwarz, Q. P. Neurodevelopmental defects and neuropsychiatric behaviour arise from *14-3-3z* deficiency. ***Mol. Psychiatr.*** 2012, 17(4): 451-466. **IF: 13.437 (2021), # of Citation: 113**

34. *Yasuhiro Kosaka, Katarzyna A Cieslik, Ling Li, George Lezin, Colin T Maguire, Yukio Saijoh, Kazuhito Toyo-oka, Michael J Gambello, Matteo Vatta, Anthony Wynshaw-Boris, Antonio Baldini, H Joseph Yost, Luca Brunelli, 14-3-3ε plays a role in cardiac ventricular compaction by regulating the cardiomyocyte cell cycle. M**ol. Cell. Biol.**, 2012, 32 (24):5089-5102. **IF: 5.094 (2021), # of Citation: 52**

35. *__**Kazuhito Toyo-oka,**__ Tomoka Wachi, Robert F. Hunt, Scott C. Baraban, ShinichiroTaya, Hayley Ramshaw, Kozo Kaibuchi, Quenten P. Schwarz, Angel F. Lopez and Anthony Wynshaw-Boris, 14-3-3epsilon and zeta Regulate Neurogenesis and Differentiation of Neuronal Progenitor Cells in the Developing Brain. ***J Neurosci*.,** 2014, 34(36):12168-12181. **IF: 6.709 (2021), # of Citation: 121**

36. Wachi, T. and __**Toyo-oka, K.**__ Novel Functions of 14-3-3 Proteins in Neurogenesis and Neuronal Differentiation In Vivo. **Ther Targets Neurol Dis**, 2015, 2(1): doi: 10.14800/ttnd.500. **IF: N/A, # of Citation: 1**

37. *Wachi T, Cornell B, Marshall C, Zhukarev V, Baas PW, __**Toyo-Oka K.**__ Ablation of the 14-3-3gamma Protein Results in Neuronal Migration Delay and Morphological Defects in the Developing Cerebral Cortex. ***Dev Neurobio*l**. 2016, 76 (6): 600-614. doi: 10.1002/dneu.22335. [Epub ahead of print] **IF: 3.102 (2021), # of Citation: 32**

38. *Cornel, B. and __**Toyo-oka, K.**__, Deficiency of 14-3-3ε and 14-3-3ζ by the Wnt1 promoter-driven Cre recombinase results in pigmentation defects. ***BMC Res Notes***, 2016, 9(1);180-185. **IF: N/A, # of Citation: 10**

39. *Cornell, B., Wachi, T., Zhukarev, V. and __**Toyo-oka, K.**__, Overexpression of the 14-3-3Gamma Protein in Embryonic Mice Results in Neuronal Migration Delay in the Developing Cerebral Cortex. ***Neurosci Lett***, 2016, 628; 40-46. **IF: 3.197 (2021), # of Citation: 23**

40. *Cornell, B., Wachi, T., Zhukarev, V. and __**Toyo-oka, K.**__, Regulation of neuronal morphogenesis by 14-3-3epsilon (Ywhae) via the microtubule binding protein, doublecortin. ***Hum Mole Genet***, 2016, 25; 4405-4418. IF: 5.121 (2021), **# of Citation: 52**

41. *Wachi, T., Cornell, B. and __**Toyo-oka, K.**__ Complete ablation of the 14-3-3epsilon protein results in multiple defects in neuropsychiatric behaviors. ***Behav Brain Res***, 2017, 319: 31-36. **IF: 3.352 (2021), # of Citation: 24**

42. *Cornell, B. and __**Toyo-oka, K.**__, 14-3-3 proteins in brain development: neurogenesis, neuronal migration and neuromorphogenesis. ***Front. Mol. Neurosci.***, 2017, 10:318. 12 October 2017, doi: 10.3389/fnmol.2017.00318. **IF: 6.261 (2021), # of Citation: 123**

43. *Blazejewski, S.M., Bennison, S. A., Smith, T. H. and __**Toyo-Oka, K.**__ Neurodevelopmental Genetic Diseases Associated with Microdeletions and Microduplications of Chromosome 17p13.3. ***Front. Genet.***, 2018, 9:80. doi: 10.3389/fgene.2018.00080. **IF: 4.772 (2021), # of Citation: 67**

44. *Deng, Y., Jiang, B., Rankin, C. L., __**Toyo-oka, K.**__, Richter, M. L., Maupin-Furlow, J. A. and Moskovitz, J. Methionine sulfoxide reductase A (MsrA) mediates the ubiquitination of 14-3-3 protein isotypes in brain. ***Free Radical Bio. Med*.,** 2018, 129:600, https://doi.org/10.1016/j.freeradbiomed.2018.08.002. **IF: 8.101 (2021), # of Citation: 11**

45. *Bennison, S.A., Blazejewski, S.M., Liu, X. and **Toyo-oka, K.**, Protein kinases: master regulators of neuritogenesis and therapeutic targets for axon regeneration, ***Cell. Mol. Life Sci.***, 2020, 77:1511-1530, doi.org**/**10.1007/S00018-019-03336-6**. IF: 9.234 (2021), # of Citation: 21**

46. *Liu, X., Blazejewski, S.M., Bennison, S.A. and **Toyo-oka, K.**, Glutathione S-transferase Pi (Gstp) Proteins Regulate Neuritogenesis in the Developing Cerebral Cortex, ***Hum. Mol. Genet,*** 2021, 30(1):30-45. **IF: 5.121 (2021), # of Citation: 7**

47. *Blazejewski, S.M., Bennison, S.A., Liu, X. and **Toyo-oka, K.**, High-Throughput Kinase Inhibitor Screening Reveals Roles for Aurora and Nuak Kinases in Neurite Initiation and Dendritic Branching, ***Sci Rep,*** 2021, 11(1):8156. **IF: 4.997 (2021), # of Citation: 10**

48. *Fu, W., Hu, W., Yi, Y.-S., Hettinghouse, A., Sun, G., Bi, Y., He, W., Zhang, L., Gao, G., Liu, J., **Toyo-oka, K.,** Xiao, G., Solit, D.B., Loke, P., and Liu, C.-J. TNFR2/14-3-3ε signaling complex instructs macrophage plasticity in inflammation and autoimmunity. ***J. Clin. Invest.*** 2021, 131(16):e144016. **IF: 19.477 (2021), # of Citation: 30**

49. *Blazejewski, S.M., Bennison, S.A., Ha, N., Liu, X., Smith, T.H., Dougherty, K. J., and **Toyo-oka, K.**, Rpsa signaling regulates cortical neuronal morphogenesis via its ligand, PEDF, and plasma membrane interaction partner, Itga6. ***Cereb. Cortex*****,** 2022, 32 (4), 770-795. **IF: 4.861 (2021), # of Citation: 5**

50. *Liu, X., Bennison, S.A., Robinson, L., and **Toyo-oka, K.** Responsible Genes for Neuronal Migration in the Chromosome 17p13.3: Beyond Pafah1b1(Lis1), Crk and Ywhae(14-3-3ε), ***Brain Sci.*** 2022, *12*(1), 56. **IF: 3.333 (2021), # of Citation: 5**

51. *Muralidharan, H., Guha, S., Madugula, K., Patil, A., Bennison, S.A., Sun, X., **Toyo-oka, K**., and Baas, A., KIFC1 regulates the trajectory of neuronal migration. ***J Neurosci.***, 2022, 41(11): 2149-2165. **IF: 6.709 (2021), # of Citation: 6**

52. *Radler, M.R., Liu, X., Peng, M., Doyle, B., **Toyo-Oka**, K., and Spiliotis,E.T., Pyramidal neuron morphogenesis requires a septin network that stabilizes filopodia and suppresses lamellipodia during neurite initiation, ***Curr. Biol.***, 2022, in press. https://doi.org/10.1016/j.cub.2022.11.043 **IF: 10.900 (2021), # of Citation: 3**

53. *Bennison S.A., Liu X., and **Toyo-oka K.**, Nuak kinase signaling in development and disease of the central nervous system. ***Cell. Signal.,*** 202, 100:110472, doi: 10.1016/j.cellsig.2022.110472. **IF: 4.850 (2021), # of Citation: 3**

54. *Bennison S.A., Blazejewski, S.M., Liu X., Hacohen-Kleiman G., Sragovich S., Zoidou S., Touloumi O., Grigoriadis N., Gozes I. and **Toyo-oka K.**, The cytoplasmic localization of ADNP through 14-3-3 promotes sex-dependent neuronal morphogenesis, cortical connectivity, and calcium signaling, ***Mol. Psychiatry.***, 2023, 28 (5), 1946-1959. doi: 10.1038/s41380-022-01939-3 **IF: 13.437 (2021), # of Citation: 8**

55. *Bennison S.A., Blazejewski, S.M., Liu X., Hacohen-Kleiman G., Sragovich S., Zoidou S., Touloumi O., Grigoriadis N., Gozes I. and **Toyo-oka K.**, Localization of activity-dependent neuroprotective protein (ADNP) in neurospheres. ***Mol. Psychiatry.***, 2023, 28 (5), 1829. **IF: 13.437 (2021), # of Citation: 0**

2. Books and chapters in books:

1. Laboratory Manual for Genetic engineering, Masami Muramatsu, editor. Detection of the antigens which are expressed in animal cells. Tokyo: Maruzen; 2003. p. 198-204

2. Methods in Molecular Biology, Book Title: Neuronal Morphogenesis – Methods and Protocols, Editor: Kazuhito Toyooka, Chapter Title: Ex Vivo Live Imaging in Brain Slices for Analysis of Neurite Formation in Combination with *In Utero* Electroporation (IUE), Cjapter authors: Xiaonan Liu, and Kazuhito Toyo-Oka, SPRINGERNATURE, 2023. (submitted)

3. Other Communications:

Abstract:

1. *Y. Kita, X.-G. Tai, **K. Toyo-oka**, Y. Saito, T. Hamaoka and H. Fujiwara. Functional mechanism of thymic stroma-derived T cell inhibitory factor (TSTIF). I. Effect of TSTIF on the APC function. An annual meeting, Japanese Society for Immunology. 1992

2. *X.-G. Tai, Y. Kita, **K. Toyo-oka**, Y. Saito, T. Hamaoka and H. Fujiwara. Functional mechanism of thymic stroma-derived T cell inhibitory factor (TSTIF). II. Analysis of the TSTIF effect expressed on responding T cells. An annual meeting, Japanese Society for Immunology. 1992

3. *X.-G. Tai Y. Kita, **K. Toyo-oka**, H. Iwata, K. Ikegame, S. Iwakami, T. Sakata, M. Ogata, T. Hamaoka and H. Fujiwara. Thymic stroma-derived T cell inhibitory factor (TSTIF). IV. Analysis of immunological mechanisms of its action. An annual meeting, Japanese Society for Immunology. 1993

4. *Y. Kita, X.-G. Tai, **K. Toyo-oka**, S. Iwakami, T. Sakata, M. Ogata, T. Hamaoka and H. Fujiwara. Thymic stroma-derived T cell inhibitory factor (TSTIF). III. The irreversible inhibitory effect on the t cell proliferation. An annual meeting, Japanese Society for Immunology. 1993

5. *S. Maruo, **K. Toyo-oka**, X.-G. Tai, S. Yamada, S. Ono, M. Kobayashi, S. Wolf, T. Hamaoka and H. Fujiwara. IL-12-mediated proliferation of Ag-specific Th clones. An annual meeting, Japanese Society for Immunology. 1994

6. ***K. Toyo-oka**, N. Yamamoto, S. Maruo, T. Hamaoka and H. Fujiwara. Role of CD28 and IL-12 co-stimulatory pathways in T cell activation. An annual meeting, Japanese Society for Immunology. 1994

7. ***K. Toyo-oka**. Immunological regulation of T cell activation in transplantation. An annual meeting, Japanese Society for Immunology. 1995

8. ***K. Toyo-oka**, X.-G. Tai, Y. Yashiro, N. Yamamoto, T. Hamaoka and H. Fujiwara. iNOS in the thymus: I. Analysis of iNOS expression in the thymus. An annual meeting, Japanese Society for Immunology. 1995

9. *R. Wijesuria, S. Maruo, **K. Toyo-oka**, H. Takenaka, G. Trinchieri, H. Fujiwara and T. Hamaoka. Analysis of the mechanism of immunological suppression in the tumor bearing mouse. An annual meeting, Japanese Society for Immunology. 1995

10. *X.-G. Tai, **K. Toyo-oka**, Y. Yashiro, N. Yamamoto, T. Hamaoka and H. Fujiwara. iNOS in the thymus: I. Role of iNOS in negative selection in the thymus. An annual meeting, Japanese Society for Immunology. 1995

11. *Y. Yashiro, X.-G. Tai, **K. Toyo-oka**, M. Kobayashi, P. Kincade, T. Hamaoka, S. Neben and H. Fujiwara. Analysis of CD9 function in T cell activation: I. Production of anti-CD9 monoclonal antibody. An annual meeting, Japanese Society for Immunology. 1996

12. *X.-G. Tai, **K. Toyo-oka**, Y. Yashiro, P.- C. Seog, S. Ono, T. Hamaoka, M. Kobayashi, S. Neben and H. Fujiwara. Analysis of CD9 function in T cell activation: II. Functional analysis of CD9 molecule in T cell activation. An annual meeting, Japanese Society for Immunology. 1996

13. * **K. Toyo-oka**, X.-G. Tai, Y. R. Abe, Yashiro, P.- C. Seog, T. Hamaoka, M. Kobayashi, S. Neben and H. Fujiwara. Analysis of CD9 function in T cell activation: III. Functional analysis of CD9 molecule as a co-stimulatory signal of T cells. An annual meeting, Japanese Society for Immunology. 1996

14. *Y. Yashiro, X.-G. Tai, **K. Toyo-oka**, P.- C. Seog, T. Hamaoka and H. Fujiwara. Functional analysis of CD9 in T cell activation: I. Identification of CD9 associated proteins. An annual meeting, Japanese Society for Immunology. 1997

15. *P.- C. Seog, X.-G. Tai, **K. Toyo-oka**, Y. Yashiro, H. Yagita, K. Okumura, T. Hamaoka and H. Fujiwara. Functional analysis of CD9 in T cell activation: IV. The function of CD9 in T cell apoptosis. An annual meeting, Japanese Society for Immunology. 1997

16. *__K. Toyo-oka__, X.-G. Tai, Y. Yashiro, P.- C. Seog, T. Hamaoka, R. Abe, M. Kobayashi, S. Neben and H. Fujiwara. Functional analysis of CD9 in T cell activation: III. CD9 and other co-stimulatory molecules in T cell activation. An annual meeting, Japanese Society for Immunology. 1997

17. *X.-G. Tai, **K. Toyo-oka**, Y. Yashiro, P.- C. Seog, T. Hamaoka, R. Abe, M. Kobayashi, S. Neben and H. Fujiwara. Functional analysis of CD9 in T cell activation: II. Function of CD9 in T cell survival and proliferation. An annual meeting, Japanese Society for Immunology. 1997

18. *__K. Toyo-oka__, Y. Yashiro, T. Hamaoka and H. Fujiwara. Caspase3 activation induced by CD9 co-stimulation in apoptosis and activation-induced cell death. P.- C. Seog, X.-G. Tai, An annual meeting, Japanese Society for Immunology. 1998

19. * X.-Y. Zhou, X.-G. Tai, **K. Toyo-oka**, Y. Yashiro, P.- C. Seog, T. Hamaoka and H. Fujiwara. Role of CD5 in thymocyte activation. An annual meeting, Japanese Society for Immunology. 1998

20. *Y. Yashiro, X.-G. Tai, **K. Toyo-oka**, P.- C. Seog, X.-Y. Zhou, T. Hamaoka and H. Fujiwara Identification of CD9 associated proteins. .An annual meeting, Japanese Society for Immunology, 1998

21. *__K. Toyo-oka__, X.-G. Tai, Y. Yashiro, P.- C. Seog, T. Hamaoka and H. Fujiwara. Structural analysis of CD9: Production of a series of mutant molecules. An annual meeting, Japanese Society for Immunology, 1998

22. *__K. Toyo-oka__, A. Shionoya, M. J. Gambello, C. Cardoso, R. Leventer, W. Dobyns, D. Ledbetter, A. Wynshaw-Boris and S. Hirotsune Role of 14-3-3epsilon on migrating neuron and

Miller-Dieker syndrome. An annual meeting, The Molecular Biology Society of Japan, Poster, 2002

23. *__K. Toyo-oka__, S. Sasaki, A. Wynshaw-Boris and S. Hirotsune. Analysis of phosphorylation/dephosphorylation mechanism of Nudel. An annual meeting, The Molecular Biology Society of Japan, Poster, 2003

24. *__K. Toyo-oka__, A. Wynshaw-Boris and S. Hirotsune. Regulation of Katanin p60 distribution by phosphorylated NDEL1. An annual meeting, Society for Neuroscience. Poster, 2004

25. *__K. Toyo-oka__, A. Wynshaw-Boris and S. Hirotsune. NUDEL phosphorylation at T219 and S231 are differently regulated during cortical development. An annual meeting, Society for Neuroscience. Poster, 2004

26. *__K. Toyo-oka__, A. Wynshaw-Boris and S. Hirotsune. The analysis of regulation mechanism of NUDEL phosphorylation/dephosphorylation. An annual meeting, The Japanese Society of Neurochemistry. Poster, 2004

27. *__K. Toyo-oka__, D. Mori and S. Hirotsune. Phosphorylated Nudel regulates the binding and the distribution of p60 Katanin in fibroblast cells and neurons. An annual meeting, The Molecular Biology Society of Japan. Poster, 2004

28. *H. Yamasita, I. Ida, A. Takazawa, __K. Toyo-oka__, S. Hirotsune, R. Toyoshima and T. Yamauchi. Analysis of *Lis1* deficient mouse as a model of human epilepsy. An annual meeting, The Japanese Society of Psychiatry and Neurology. Poster, 2005

29. *__K. Toyo-oka__, A. Wynshaw-Boris and S. Hirotsune. Control of Microtubule array by NDEL1/PP4/Katanin p60. An annual meeting, Society for Neuroscience, Poster, 2007

30. *T. Hikita, M. Ikeda, T. Shinoda, S. Taya, __K. Toyo-oka__, K. Takao, T. Miyakawa, S. Hirotsune, A. Wynshaw-Boris,K. Kaibuchi,N. Ozaki and N. Iwata. Identification of YWHAE, a gene encoding 14-3-3e, as a novel susceptibility gene for schizophrenia. An annual meeting, Society for Neuroscience, Poster, 2007

31. * T. Toyooka, __K. Toyo-oka__, P. Promparo, K. Kaibuchi, J. G. Gleeson and A. Wynshaw-Boris. Synergistic function and biochemical interaction between 14-3-3 and Dcx in neuronal migration. Society for Neuroscience, Poster, 2013

32. *__K. Toyo-oka__, T. Wachi-Toyooka, H. S. Ramshaw, Q. P. Schwarz, A. F. Lopez, and A. Wynshaw-Boris. 14-3-3 proteins regulate neurogenesis in cerebral cortex. Society for Neuroscience, Poster, 2013

33. *T. Wachi ,A. Wynshaw-Boris, __K.Toyo-oka__. Synergistic Function and Biochemical Interaction Between 14-3-3 and Dcx in Neuronal Migration. Research Day, Drexel University, Poster, 2013

34. *Cornell, B., Wachi, T., Marshall, C., Zhukarev, V. and __Toyo-oka, K__. In vivo analysis of 17p13.3 microduplication syndrome, a newly reported genetic syndrome associated with autism. Discovery Day, Drexel University, Poster, 2014

35. *Marshall, C., Wachi, T., Cornell, B., Zhukarev, V. and **Toyo-oka, K**. Disruption of Serpinf1 gene expression in utero produces neuronal migration defects indicative of Miller-Dieker syndrome. Discovery Day, Drexel University, Poster, 2014

36. *Cornell, B., Wachi, T., Zhukarev, V. and **Toyo-oka, K.** Ablation of the 14-3-3Gamma Protein Results in Neuronal Migration Delay and Morphological Defects in the Developing Cerebral Cortex. Discovery Day, Drexel University. 2015

37. *Cornell, B., Wachi, T., Zhukarev, V. and **Toyo-oka, K**. Regulation of Neuronal Morphogenesis by 14-3-3epsilon (*Ywhae*) via the Microtubule Binding Protein, Doublecortin. Discovery Day, Drexel University, Poster, 2016

38. *Wachi, T., Cornell, B., Zhukarev, V. and **Toyo-oka, K**. Regulation of Neuronal Morphogenesis by 14-3-3epsilon (*Ywhae*) via the Microtubule Binding Protein, Doublecortin. Annual meeting, poster, ASCB. Poster, 2016

39. *Cornell, B., Wachi, T., Zhukarev, V. and **Toyo-oka, K**. Regulation of Neuronal Morphogenesis by 14-3-3epsilon (*Ywhae*) via the Microtubule Binding Protein, Doublecortin. An annual meeting, Society for Neuroscience. Poster, 2016

40. *Blazejewski, B. M. and **Toyo-oka, K**., Pigment Epithelium-Derived Factor (PEDF) Functions in Neural Morphogenesis in the Developing Brain, Discovery Day, Drexel University, Poster, 2017

41. *Blazejewski, S. M., Bennison, S. A., Smith, T. H., and **Toyo-oka, K**., Neuronal morphogenesis is regulated by ribosomal protein SA (Rpsa), Discovery Day, Drexel University, Poster, 2018

42. *Bennison, S. A., Blazejewski, S. M., Smith, T. H., and **Toyo-oka, K**., High-Volume Kinase Inhibitor Screening Reveals Novel Neuronal Roles for Aurora and Nuak Kinases, Discovery Day, Drexel University. 2018 (Received an honorable mention for Outstanding Junior Graduate Student)

43. *Blazejewski, S. M., and **Toyo-oka, K**., Ribosomal protein SA (Rpsa) signaling regulates neuronal morphogenesis, 2018 ASCB|EMBO Meeting, Microsymposium 15: Neuronal Cell Biology, Oral presentation. 2018

44. *Blazejewski, S. M., and **Toyo-oka, K**., Identification of novel downstream targets and function in neurite formation for Plxdc1, 2019 ASCB|EMBO Meeting, Poster, 2019

45. *Blazejewski, S. M., and **Toyo-oka, K**., PEDF-Rpsa-Itga6 signaling regulates cortical neuronal morphogenesis. Discovery Day, Drexel University, Poster, 2019

46. *Blazejewski, S. M, Bennison, S. A., Ha, N. T., Liu, X., Smith, T. H., Dougherty, K. J., and **Toyo-oka, K**., PEDF-Rpsa-Itga6 signaling regulates cortical neuronal morphogenesis. An annual meeting, Society for Neuroscience. Poster, 2019

47. *Bennison, S. A., Blazejewski, S. M., Smith, T. H., and **Toyo-oka, K**., Activity-dependent Neuroprotective Protein (adnp) Functions Via Multiple Distinct Mechanisms to Drive Cortical Neuronal Morphogenesis. 2019 ASCB|EMBO Meeting, Poster, 2019

48. *Liu, X., Blazejewski, S. M., Bennison, S. A., Smith, T. H., and **Toyo-oka, K.,** Glutathione-s-transferase Pi (gstp) 1 and 2 regulate neurite formation in vitro and in vivo. 2019 ASCB|EMBO Meeting, Poster, 2019

49. *Bennison, S. A., Blazejewski, S. M., Smith, T. H., and **Toyo-oka, K**., Activity-dependent Neuroprotective Protein (adnp) regulates neuronal morphogenesis in the developing cortex. Discovery Day, Drexel University, Poster. 2019

50. *Liu, X., Blazejewski, S. M., Bennison, S. A., and **Toyo-oka, K.,** Glutathione-s-transferase Pi (gstp) 1 and 2 regulate cortical neurite formation in the developing brain. Discovery Day, Drexel University, Poster. 2019

51. *Bennison, S. A., Blazejewski, S. M., Liu, X., Smith, T. H., and **Toyo-oka, K**., Activity dependent neuroprotective protein (Adnp) regulates neuronal morphogenesis in the developing cortex. An annual meeting, Society for Neuroscience. Poster, 2019

52. *Muralidharan, H. Guha, S. Madugula, K., Sun, X., **Toyo-oka, K.,** and Baas, P., The Mitotic Motor Kifc1 Is Crucial for the Organization of the Microtubule Cage Around the Nucleus during Neuronal Migration. 2019 ASCB|EMBO Meeting, Poster, 2019

53. *Blazejewski, S. M., and **Toyo-oka, K**., Ribosomal protein SA (Rpsa) signaling regulates neuronal morphogenesis via its ligand, PEDF, and plasma membrane interaction partner, Itga6. Discovery Day, Drexel University, Platform oral presentation. 2020

54. *Bennison, S. A., Blazejewski, S. M., Liu, X., Smith, T. H., and **Toyo-oka, K**., Adnp is shuttled to the cytoplasm to promote neuronal morphogenesis and functional cortical connectivity. Discovery Day, Drexel University, Poster. 2020 (She won second place.)

55. *Blazejewski, S. M, Bennison, S. A., Ha, N. T., Liu, X., Smith, T. H., Dougherty, K. J., and **Toyo-oka, K**., Rpsa signaling regulates cortical neuronal morphogenesis via its ligand, PEDF, and plasma membrane interaction partner, Itga6, 2020 ASCB|EMBO Meeting, Poster, 2020

56. *Bennison, S. A., Blazejewski, S. M., and **Toyo-oka, K**., 14-3-3 shuttles Adnp to the cytoplasm to promote neuronal morphogenesis and functional cortical connectivity.2020 ASCB|EMBO Meeting, Poster, 2020

57. *Liu, X., Blazejewski, S. M., Bennison, S. A., and **Toyo-oka, K.,** Glutathione-s-transferase Pi (gstp) 1 and 2 regulate neurite formation in vitro and in vivo. 2020 ASCB|EMBO Meeting, Poster, 2020

58. *Muralidharan, H. Guha, S. Madugula, K., Patil, A., Sun, X., Bennison, S., **Toyo-oka, K.,** and Baas, P., KIFC1 steers the trajectory of migration of a neuron. 2020 ASCB|EMBO Meeting, Poster, 2020

59. *Liu, X., Blazejewski, S. M., Bennison, S. A., and **Toyo-oka, K.,** Myo1c regulates neurite formation in mouse cortical neuron. Discovery Day, Drexel University, Poster. 2020

60. *Bennison, S. A., Blazejewski, S. M., Liu, X., and **Toyo-oka, K**., Autism-associated Adnp regulates cortical neuronal morphology and functional connectivity during development, Discovery Day, Drexel University, Platform oral presentation. 2021 (She won the 1st place.)

61. *Bennison, S. A., Blazejewski, S. M., Liu, X., and **Toyo-oka, K**., Adnp promotes sex dependent cortical neuronal morphogenesis, connectivity, and calcium signaling. 2021 ASCB|EMBO Meeting, Poster, 2021

62. *Bennison, S. A., Blazejewski, S. M., Liu, X., Hacohen Kleiman, G., Sragovich, S., Zoidou, S., Touloumi, O., Grigoriadis, N., Gozes, I., and **Toyo-oka, K**., Activity-dependent neuroprotective protein (adnp) promotes sex dependent cortical neuronal morphogenesis, connectivity, and calcium signaling. An annual meeting, Society for Neuroscience. Poster, 2021

63. *Liu, X., Bennison, S. A., and **Toyo-oka, K**., Myo1c regulates neurite formation in mouse cortical neuron. 2021 ASCB|EMBO Meeting, Poster, 2021

64. *Liu, X., Bennison, S. A., and **Toyo-oka, K.,** Myo1c regulates neurite formation in mouse cortical neuron. Discovery Day, Drexel University, Poster. 2021

65. *Robinson, L., and **Toyo-oka, K.,** Activity-dependent neuroprotective protein (Adnp) impacts development in early stages of neuronal morphogenesis. Drexel STAR Scholars, Poster/Video presentation, 2021

66. *Liu, X., Bennison, S. A., and **Toyo-oka, K**., Myo1c regulates neurite formation in mouse cortical neuron. 2022 ASCB|EMBO Meeting, Poster, 2022

67. *Liu, X., Bennison, S. A., and **Toyo-oka, K.,** Myo1c regulates neurite formation in mouse cortical neuron. Discovery Day, Drexel University, Poster. 2022

68. *Muralidharan, **Toyo-oka, K.,** and Baas, P. Investigating the role of microtubule-associated motor protein KIFC1 at the synapse, Discovery Day, Drexel University, Poster. 2023

69. *Carrie Gordon, Liu, X., and **Toyo-oka, K.,** Over-expression of the TUSC5 gene in Cortical Neurons. STAR Scholars Showcase, Drexel University, Poster. 2023

70. *Bijaya Manandhar, Liu, X., and **Toyo-oka, K.,** Influence of BHLHA9 Overexpression During Cortical Development, Mini-Grant Poster Presentation, Drexel University, Poster. 2023

71. *Bijaya Manandhar, Liu, X., and **Toyo-oka, K.,** Influence of BHLHA9 Overexpression During Cortical Development, Discovery Day, Drexel University, Poster. 2023

4. Book Reviews: None

Q. PRESENTATIONS

1. By invitation

2013	Nagoya University, Japan	Speaker
01/2014	CHOP - Drexel - Hebrew University Symposium	Speaker
03/2016	Case Western Reserve University	Speaker
11/2017	World gene Convention 2017, Macau, China	Chair and Speaker
12/2017	ASCB(American Society for Cell Biology) | EMBO 2017	Chair and Speaker
05/2018	Neuroscience Retreat and Research Day	Speaker
11/2020	1st International Electronic Conference on Brain Sciences	Speaker & Organizer

12/2020	Cell and Experimental Biology (CEB-2020)	Speaker
11/2021	European Society of Medicine (ESMED) Annual Congress	Speaker
8/2022	European Society of Medicine (ESMED) General Assembly Meeting	Speaker
4/2023	MDPI World Autism Awareness Day Webinar 2023	Speaker