



## **PROGRAM SCHEDULE**

**8:00 a.m. - 9:00 a.m. Registration (Ballroom Lobby)**

**8:00 a.m. - 9:00 a.m. Breakfast (Ballroom)**

**9:00 a.m. - 9:15 am Welcome and Opening Remarks**  
Dr. Kathleen Waldron, President

**9:15 a.m. - 9:30 am Opening Remarks**  
Dr. Kenneth E. Wolf, Dean, CoSH

**9:30 a.m. - 11:30 a.m. POSTER SESSION A**  
Cell & Molecular Biology I: (C1 to C7)  
Cell & Molecular Biology II: (C8 to C13)  
Biochemistry & Physiology: (BP1 to BP7)  
Ecology, Evolution & Behavior: (E1 to E7)  
Nanochemistry: (N1 to N8)  
Organic & Bioorganic Chemistry: (O1 to O8)

**11:45 a.m. - 1:00 p.m. LUNCH (Ballroom)**

**1:00 p.m. - 2:00 p.m. PLENARY TALK**  
Dr. Shyam Saran  
Head, Genetics of Cancer Susceptibility Section  
Deputy Program Director, Center for Cancer Research  
National Cancer Institute, Frederick, MD

**2:15 p.m. - 4:00 p.m. POSTER SESSION B**  
Cell & Molecular Biology III: (C14 to C21)  
Biochemistry & Physiology: (BP8 to BP13)  
Ecology, Evolution & Behavior: (E8 to E14)  
General Chemistry: (G1 to G6)  
Materials Chemistry: (M1 to M7)

**4:00 p.m. COFFEE & REFRESHMENTS (Ballroom)**

**5:00 p.m. AWARDS (Ballroom)**



## Cell & Molecular Biology - I

### Judges

Dr. Robert Benno\*

Dr. Kendall Martin

Dr. James Salierno

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C1	CELL CYCLE IN THE DEVELOPING NEOCORTEX; Deepika Agrawal and Dr. Mladen-Roko Rasin, Biological Sciences, Rutgers University, East Brunswick, NJ	14
C2	REGULATION OF Rbdf1 EXPRESSION BY TRAF3 IN B LYMPHOCYTES: Punit Arora and Dr. Ping Xie, Cell Biology and Neuroscience Department, Rutgers University, New Brunswick, NJ	15
C3	HASPIN KINASE SUBCELLULAR LOCALIZATION DURING MEIOSIS IN MOUSE OOCYTES: Amanda Gentilello and Dr. Karen Schindler, Department of Genetics, Rutgers University, Piscataway, NJ	16
C4	MITOCHONDRIAL LOCALIZATION IN SACCHAROMOYCES CEREVISIAE: Nisha Givanani and Dr. Patricia Melloy, Biological and Allied Health Sciences, Fairleigh Dickinson University, Madison, NJ	17
C5	THE ROLE OF CYCLIN DEPENDENT KINASE 5 IN INSULIN EXOCYTOSIS: Alice Trye and Dr. Ann Aguanno, Division of Natural Sciences, Marymount Manhattan College, New York, NY	18
C6	EXAMINING THE ROLE OF NCS-1 IN THE REGULATION OF NITRIC OXIDE LEVELS: IMPLICATIONS FOR AUTISTIC SPECTRUM DISORDER: Jasmine Wood, Ama Berko, Michael Gonzalez, Walter Barr and Dr. Jamie Weiss, Biology Department, William Paterson University, Wayne, NJ	19
C7	ABNORMAL DIFFERENTIATION OF PROJECTION NEURONS AFTER TRANSIENT INTRAUTERINE ISCHEMIA: Katarina Yaros and Dr. Mladen-Roko Rasin, Molecular Biology and Biochemistry Department, Rutgers University, Piscataway, NJ	20

\*Coordinator



## Cell & Molecular Biology II

### Judges

Dr. Pradeep Patnaik\*

Dr. Eileen Gardner

Dr. Cary Waldburger

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C8	ROLE OF PIWI LIKE PROTEIN, <i>Miwi</i> IN REGULATION OF NEOCORTICAL DEVELOPMENT AND RADIAL GILIA SELF-RENEWAL: Hema Arikala and Dr. Mladen-Roko Rasin, Neuroscience and Cell Biology, Rutgers University, Piscataway, NJ	51
C9	ASSESSING THE ROLE AND FUNCTION OF EXTRACYTOPLASMIC FUNCTION (ECF) SIGMA FACTORS IN <i>STREPTOMYCES COELICOLOR</i> : Daniel Kaufman, Janna Dickstein and Dr. Roger Greenwell, Biology Department, Hofstra University, Hempstead, NY	52
C10	THE EFFECTS OF BORTEZOMIB ON REGULATORS OF CELL SURVIVAL AND PROLIFERATION IN TRAF3-/- MOUSE B LYMPHOMA AND HUMAN MULTIPLE MYELOMA: Benjamin Kreider and Dr. Ping Xie, Cell Biology and Neuroscience Department, Rutgers University, Piscataway, NJ	53
C11	TRANSIENT INTRAUTERINE ISCHEMIA DISRUPTS NEURONAL MORPHOLOGY: Sonia Sandhu, Matthew Kraushar and Dr. Mladen-Roko Rasin, Cell Biology and Neuroscience Department, Rutgers University, Piscataway, NJ	54
C12	THE LOCALIZATION OF CDC20-GFP AND OKP1-GFP IN <i>SACCHAROMYCES CEREVISIAE</i> TEMPERATURE-SENSITIVE APC/C MUTANTS: Emma Quigley, Shayna Chevinsky-Mintz and Dr. Patricia Melloy, Department of Biological and Allied Health Sciences, Fairleigh Dickinson University, Madison, NJ	55
C13	BORTEZOMIB INDUCES NUCLEAR ACCUMULATION OF IKK IN METASTATIC PROSTATE CANCER CELLS: Sai Aung Phyo, Michelle Vancura, Subrata Manno and Dr. Ivana Vancurova, Biology Department, St. John's University, New York, NY	56

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## Biochemistry & Physiology

Judges

Dr. Joseph Spagna\*

Dr. Martin Becker

Dr. Ann Aguanno

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BP1	THE INTERACTION BETWEEN CRESYL VIOLET AND NUCLEIC ACID USING COMPUTER MODELING AND FLUORESCENCE SPECTROSCOPY: Megan Vallejo and Dr. Amber Charlebois, Chemistry Department, Fairleigh Dickinson University, Madison, NJ	21
BP2	THE EFFECTS OF TEMPERATURE BODY MASS AND TIME OF DAY ON RESTING METABOLIC RATE IN THE CHACOAN HORNED FROG ( <i>CERATOPHRYX CRANWELI</i> ): Rita Uhle, Catherine Uhle and Dr. Joseph Agugliaro, Department of Biological & Allied Health Sciences, Fairleigh Dickinson University, Madison, NJ	22
BP3	EFFECTS OF THE ANTIMICROBIAL AGENT TRICLOSAN ON <i>C. ELEGANS</i> EGG-LAYING BEHAVIOR: Mary Rosell and Dr. Edith Myers, Department of Biological & Allied Health Sciences, Fairleigh Dickinson University, Madison, NJ	23
BP4	ISOLATION AND HARVESTING OF PANCREATIC ISLET OF LANGERHANS CELLS TO TREAT TYPE I DIABETES MELLITUS: A METHODOLOGICAL STUDY: Neal Joshi, Faith Kalucki and Dr. Jeung Woon Lee, Department of Biology, William Paterson University, Wayne, NJ	24
BP5	PROGRAMMED CELL DEATH BY REACTIVE OXYGEN SPECIES IN TAIL OF TADPOLE, <i>XENOPULAEVIS</i> : William Manzo, Dr. Jaishri Menon and Dr. Eileen Gardner, Department of Biology, William Paterson University, Wayne., NJ	25
BP6	INTRASPINAL TRANSPLANTATION OF EMBRYONIC PRECURSOR CELLS TO REVERSE PERIPHERAL NEUROPATHY: Shefkate Bakiu, Savira Kochhar and Dr. Jeung Woon Lee, Department of Biology, William Paterson University, Wayne, NJ	26
BP7	THE FUNCTION OF THE CORSAL RIDGE IN <i>Drosophila</i> SPECIES: Rachel Sohn <sup>1</sup> , Dr. Matt Niepielko <sup>2</sup> and Dr. Nir Yakoby <sup>1,2</sup> , <sup>1</sup> Biology Department, Rutgers University, Camden, NJ and <sup>2</sup> Center for Computational and Integrative Biology, Rutgers University, Camden, NJ	27

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## Ecology, Evolution & Behavior:

### Judges

Dr. David Slaymaker\*

Dr. Jamie Weiss

Dr. Joseph Agufliaro

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E2	A MESOCOSM SCALE AQUACULTURE SYSTEM FOR <i>MACROBRACHIUM ROSENBERGII</i> : Daniel Francesc, David Hanna, Michelle Oliver and Dr. Joseph Stout, School of Natural Sciences, Fairleigh Dickinson University, Teaneck, NJ	29
E3	THE BIOGEOCHEMICAL CHLORINE CYCLE IN FOREST ECOSYSTEMS: Ashley Pirovano and Dr. Alessandra Leri, Department of Natural Sciences, Marymount Manhattan College, New York, NY	30
E4	USING FECAL BACTERIA TO EVALUATE A POSSIBLE LINK TO AUTISM: Farnaz Ladha, Heather Szendi, Dr. Kendall Martin and Dr. Robert Benno, Biology Department, William Paterson University, Wayne, NJ	31
E5	A PRELIMINARY STUDY OF NICARAGUAN AND COSTA RICAN MEDICINAL PLANT KNOWLEDGE IN THE MAQUENQUE NATIONAL WILDLIFE REFUGE: Roberto Gomez, Ashley Casimir and Dr. Daniela Shebitz, School of Environmental and Life Science, Kean University, Union, NJ	32
E6	GREEN ICE IN MY FREEZER! IS OUR DRINKING WATER SAFE? A QUALITATIVE AND QUANTITATIVE STUDY OF COPPER CONTAMINANTS IN NYC PUBLIC WATER SUPPLY: Anna Patrino and Dr. Benedetta Sampoli Benitez, Department of Natural Sciences, Marymount Manhattan College, New York, NY	33
E7	THE EFFECTS OF WASTE WATER EFFLUENT ON AQUATIC MACROINVERTEBRATE COMMUNITIES IN THE WHIPPANY RIVER: Devin Villiet, Jamie Thompson, Steven Manelski and Dr. James Salierno, Department of Biology, Fairleigh Dickinson University, Madison, NJ	34

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## Nanochemistry

### Judges

Dr. Kevin Martus\*

Dr. Colin Abernathy

Dr. Andrei Jitianu

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N2	<b>SYNTHESIS AND ANALYSIS OF AROMATIC AND ALIPHATIC AMINE-STABILIZED SILVER NANOPARTICLES FOR INTERMOLECULAR SELF-ASSEMBLY SYSTEMS:</b> Aimen Khawaja, Aarti Patel, Swetha Matam and Dr. Bhanu Chauhan, Engineered Nanomaterials Laboratory, Department of Chemistry, William Paterson University, Wayne, NJ	36
N3	<b>A COMPARATIVE STUDY OF CATALYTIC PROPERTIES OF PLATINUM AND PALLADIUM NANOPARTICLES:</b> Kyu Jin (Kate) Lee, Laura Marmion, Swetha Matam and Dr. Bhanu Chauhan, Engineered Nanomaterials Laboratory, Department of Chemistry, William Paterson University, Wayne, NJ	37
N4	<b>IGOR PRO SOFTWARE - EFFICIENCY TEST USING COMPUTER SIMULATED PEAKS:</b> Tess Loughran and Dr. Alexey Teslja, Chemistry Department, Fairleigh Dickinson University, Madison, NJ	38
N5	<b>SILICA COATED METAL NANOPARTICLES IN DMF:</b> Krishna Melepura, Chinara Feizullayeva and Dr. Moni Chauhan, Department of Chemistry, Queensborough Community College of City University of New York, Bayside, NY	39

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N6	<b>BIOMOLECULES ENCAPSULATION WITHIN SOL-GEL MATRICES AND NANOGELS:</b> Noor Sardar, Reeta Yadav, Yakov Masheev, Celestina Costa, Rhys Periera and Dr. Uri Samuni, Department of Chemistry and Biochemistry, Queens College, CUNY, Flushing, NY	40
N7	<b>HYDROSILANE INDUCED ONE STEP SYNTHESIS OF REDISPERSIBLE AND DIVERSELY FUNCTIONALIZED SILVER NANOPARTICLES:</b> Tejal Surti, <sup>†</sup> , Swetha Matam, <sup>†</sup> , Ramani Tekkathu <sup>†</sup> , Hardika Shukla <sup>†</sup> , Dr. Bhanu Chauhan, <sup>†</sup> and Dr. Moni Chauhan <sup>†</sup> , <sup>†</sup> Engineered Nanomaterials Laboratory, Department of Chemistry, William Paterson University, Wayne, NJ and <sup>†</sup> Department of Chemistry, Queensborough Community College of City University of New York, Bayside, NY	41
N8	<b>UTILIZATION OF NANOMATERIALS FOR THE REMOVAL OF HEAVY METALS IN WATER SAMPLES:</b> Hsin-Yi Wang, Arianna Porrata-Doria, Amanda Falade and Dr. Elmer-Rico Mojica, Department of Chemistry and Physical Sciences	42

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# Organic and Bioorganic Chemistry

## Judges

Dr. Mihaela Jitianu\*

Dr. Alan Cooper

Dr. Moni Chauhan

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05	<b>INTERACTION OF A PROTEIN WITH TETRACYCLINE AND ITS DEGRADATES:</b> Eric Nguyen and Dr. Elmer-Rico Mojica, Department of Chemistry and Physical Sciences, Pace University, New York, NY	47
06	<b>COMPUTATIONAL STUDY OF THE INTERACTION OF THE DENTAL ADHESIVE MONOMER, BISPHENOL A-G LYCIDYL METHACRYLATE, WITH A COLLAGEN I-LIKE PEPTIDE:</b> Chaitanya Vallabhaneni, Gopi Patel and Dr. Gloria Anderle, Chemistry and Pharmaceutical Science, Fairleigh Dickinson University, Madison, NJ	48
07	<b>SYNTHESIS OF STERCOBLIN - A PROTEIN BIOMARKER FOR AUTISM:</b> Katelyn Lewis and Dr. Amber Charlebois, Chemistry Department, Fairleigh Dickinson University, Madison, NJ	49
08	<b>SPECTROSCOPIC CHARACTERIZATION OF DIFFERENT BEE PROPOLIS:</b> Tyler Brescia, Eric Nguyen and Dr. Elmer-Rico Mojica, Department of Chemistry and Physical Sciences, Pace University, New York, NY	50

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## Cell & Molecular Biology III

Judges

Dr. J.W. Lee\*

Dr. Kent Hatch

Dr. Roger Greenwell

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C14	<b>KISMET AND TGF- <math>\beta</math>'s ROLE IN AXONAL PRUNING IN DROSOPHILA CHARGE MODEL <i>Drosophila</i> FRUIT FLY:</b> Varun Padmanaban and Dr. Daniel Marena, College of Arts and Sciences, Drexel University, Philadelphia, PA	57
C15	<b>ANTIMICROBIAL ACTIVITY OF DIFFERENT BEE PROPOLIS:</b> Nadina Anjanie Horril, David Collins, Huari Li and Dr. Elmer-Rico Mojica, Department of Chemistry and Physical Sciences, Pace University, New York, NY	58
C16	<b>DNase IMPROVES THE RELIABILITY OF PCR DETECTION OF MICROBES:</b> Ammar Ali and Dr. Kendall Martin, Biology Department, William Paterson University, Wayne, NJ	59
C17	<b>HuR cKO AFFECTS DENDRITE COMPLEXITY IN POST-MITOTIC NEURONS:</b> Bassel Bashjawish and Dr. Mladen-Roko Rasin, Biological Sciences, New Jersey Institute of Technology, Newark, NJ	60
C18	<b>GENERATION OF LENTIVIRAL VECTORS OF HUMAN TRAF3 TO INVESTIGATE ITS ROLES IN HUMAN MULTIPLE MYELOMA CELLS:</b> Ashima Choudhary and Dr. Ping Xie, Neuroscience and Cell Biology, Rutgers University, Piscataway, NJ	61
C19	<b>CYCLIN DEPENDENT KINASE 5's ROLE IN THE DEVELOPMENT OF BOTH INSULIN-POSITIVE AND NEURONAL PHENOTYPES:</b> Daniel Emerson Khost and Dr. Ann Aguanno, Natural Sciences, Marymount Manhattan College, New York, NY	62
C20	<b>POST-TRANSCRIPTIONAL REGULATION OF CALLOSALI DEVELOPMENT IN MICE:</b> Justin Marson <sup>1</sup> , Kevin Thompson <sup>2</sup> , and Dr. Mladen-Roko Rasin <sup>3</sup> <sup>1</sup> Rutgers School of Arts and Sciences Honors Program, <sup>2</sup> Rutgers Graduate School of Neuroscience and <sup>3</sup> Robert Wood Johnson Medical School Department of Neuroscience and Cell Biology	63

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## Biochemistry & Physiology

### Judges

Dr. Kendall Martin\*

Dr. Moni Chauhan

Dr. Patricia Melloy

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<b>BP9</b>	<b>DEVELOPMENT OF BETULIN CONJUGATES AS ANTI-CANCER AGENTS:</b> Steven Fishbein, Lucas Solano, Pallavi Chary, Melvin Adams, Kori Vaughn, Anthony Corsino-Santiago, Marc Moses, M. Abrar Alam and Dr. Subash Jonnalagadda, Department of Chemistry and Biochemistry, Rowan University, Glassboro, NJ	65
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## Ecology, Evolution & Behavior

### Judges

Dr. David Slaymaker\*

Dr. Edith Myers

Dr. Pradeep Patnaik

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E9	TENTACULITIES IN MIDDLE DEVONIAN GLACIAL ERRATICS FROM THE PREAKNESS FORMATION (LOWER JURASSIC) OF HIGH MOUNTAIN, PASSAIC COUNTY, NEW JERSEY: Brian Danielson, Rebecca Anderson and Dr. Martin Becker, Environmental Science Department, William Paterson University, Wayne, NJ	70
E10	THE EFFECTS OF TOE-CLIPPING ON LEOPOARD ( <i>Rana Pipiens</i> ) AND AMERICAN TOADS ( <i>Bufo Americanus</i> ): Nichole Ginnan and Dr. Kent Hatch, Biology Department, Long Island University-Post Campus, Brookville, NY	71
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## General Chemistry:

Judges

Dr. Gary Gerardi\*

Dr. Elmer- Rico Mojica

Dr. Mihaela Jitianu

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G3	<b>UTILIZATION VIBRATIONAL SPECTROSCOPY TO DETERMINE EXPIRED MEDICATIONS:</b> Orkhan Mammadov and Dr. Elmer-Rico Mojica, Department of Chemistry and Physical Sciences, Pace University, New York, NY	78
G4	<b>A NEW STRUCTURAL FORM OF Bis(tetrahydrofuran) MAGNESIUM CHLORIDE WITH AN INFINITE LINEAR CHAIN STRUCTURE:</b> Julie Niklas <sup>1</sup> , Bayan Baker <sup>1</sup> , Dr. Michael Findlater <sup>2</sup> and Dr. Colin Abernethy <sup>1</sup> , <sup>1</sup> Department of Chemistry, Sarah Lawrence College, Bronxville, NY <sup>2</sup> Department of Chemistry & Biochemistry, Texas Tech University, Lubbock, TX	79
G5	<b>PREPARATION AND CHARACTERIZATION OF A NEW DINUCLEAR MIXED-VALENT VANADIUM NITRIDE COMPLEX:</b> James Parichy <sup>1</sup> , Charlie Rostan <sup>1</sup> , Lauren Shepard <sup>1</sup> , Dr. Michael Findlater <sup>2</sup> and Dr. Colin Abernethy <sup>1</sup> <sup>1</sup> Department of Chemistry, Sarah Lawrence College, Bronxville, NY <sup>2</sup> Department of Chemistry & Biochemistry, Texas Tech University, Lubbock, TX	80
G6	<b>REACTIONS OF (IMes)<sub>2</sub>AgCl WITH CHROMOCENE:</b> Sarah Reyman, Kelsey Monson, Marianne Pinson, Cecilia Ross, J. Gorden and Dr. Colin Abernethy, Natural Sciences Department, Sarah Lawrence College, Bronxville, NY	81

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# Materials Chemistry

## Judges

Dr. Suresh Sahni\*

Dr. Colin Abernethy

Dr. Karen Swanson

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<b>M2</b>	<b>THEORETICAL INVESTIGATION OF ORGANIC SEMICONDUCTOR HETEROJUNCTION POTENTIALS:</b> Janna Domenico and Dr. Gary Gerardi, Department of Chemistry, William Paterson University, Wayne, NJ	83
<b>M3</b>	<b>CREATION AND ANALYSIS OF ORGANIZED SILICA GEL NETWORKS USING 1124 AND PMHS:</b> Qiaxian Johnson, Swetha Matam and Dr. Bhanu Chauhan, Department of Chemistry, William Paterson University, Wayne, NJ	84
<b>M4</b>	<b>MONITORING SOL-GEL TRANSITION BY RAMAN SPECTROSCOPY:</b> Huari Li and Dr. Elmer-Rico Mojica, Department of Chemistry & Physical Sciences, Pace University, New York, NY	85
<b>M5</b>	<b>CHARACTERIZATION OF AN ORGANIC SEMICONDUCTING DIODE:</b> Amanda Muraca, Emero Valle and Dr. Gary Gerardi, Department of Chemistry, William Paterson University, Wayne	86
<b>M6</b>	<b>VANILLIN DEGRADATION BY VISIBLE LIGHT N-DOPED ANATASE:</b> Amanda Muraca <sup>1</sup> , Naphtali O'Connor <sup>2</sup> , Ravnit Kaur-bhatia <sup>2</sup> , Dr. Andrei Jitianu <sup>2</sup> and Dr. Mihaela Jitianu <sup>1</sup> <sup>1</sup> Department of Chemistry, William Paterson University, Wayne, NJ; <sup>2</sup> Department of Chemistry, Lehman College, Bronx, NY	87
<b>M7</b>	<b>RHEOLOGY - A RELIABLE TOOL IN DISCOVERY OF CRITICAL PARAMETERS OF HYBRID MATERIALS?</b> Michael Stamper <sup>1</sup> Doreen Aboagye <sup>2</sup> , Monika Baraniak <sup>1</sup> , Dr. Andrei Jitianu <sup>2</sup> and Dr. Mihaela Jitianu <sup>1</sup> ; <sup>1</sup> Department of Chemistry, William Paterson University, Wayne, NJ <sup>2</sup> Department of Chemistry, Lehman College, Bronx, NY	88

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