

## Curriculum Vitae

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**Place of Birth:** Lincoln, NE

### Education:

5/1990	B.S., Biochemistry	Trinity University
6/2001	M.D.	U.T. Southwestern Medical Center
5/2001	Ph.D., Biological Chemistry	U.T. Southwestern Medical Center

### Postdoctoral training:

7/2001-6/2002	Intern, Internal Medicine	MGH
7/2002-6/2003	Junior Assistant Resident, Internal Medicine	MGH
7/2003-6/2004	Clinical Fellow, Endocrinology	MGH
7/2004-6/2006	Clinical and Research Fellow, Endocrinology	MGH
7/2004-	Research Fellow	Joslin Diabetes Center

### Licensure and Certification:

2/2004-	Massachusetts Medical License
8/2004-	Board Certified in Internal Medicine (expires 12/31/2014)
10/2006-	Board certified in Endocrinology, Diabetes, and Metabolism (expires 12/31/2016)

### Academic Appointments:

7/2003-6/2006	Clinical and Research Fellow in Medicine	Harvard Medical School
7/2006-	Instructor in Medicine	Harvard Medical School

### Hospital and Affiliated Institution Appointments

7/2003-6/2006	Clinical and Research Fellow in Medicine	Massachusetts General Hospital
7/2006-	Assistant in Medicine	Massachusetts General Hospital
7/2006-12/2007	Attending Physician	MGH Neuroendocrine Clinic
7/2006-	Attending Physician	MGH Diabetes Associates

### Committee Assignments:

2003-2006	Teaching and Training Council	Massachusetts General Hospital
2005-2006	Peri-operative Diabetes Management Taskforce	Massachusetts General Hospital

### Professional Societies:

1991-	American Medical Association
9/1996-	Sigma Xi
8/2000-	Alpha Omega Alpha

2001- American College of Physicians  
2001- Massachusetts Medical Society  
2005- Endocrine Society  
2005- Longevity Consortium  
2007- American Aging Association  
2007- American Diabetes Association

**Awards and Honors:**

1986 National Merit Scholar  
8/1997 IUBM/ASBMB Young Scientists' Program Fellowship  
9/1997 Sigma Xi  
8/2000 Alpha Omega Alpha  
8/2008 Ellison Medical Foundation Scholarship: MBL Molecular Biology of Aging Course  
8/2008 Beeson Scholar - National Institute of Aging/American Federation for Aging

**Reviewer for:**

Aging Cell  
The FASEB Journal  
Molecular and Cellular Endocrinology  
BioEssays  
Journal of Diabetes Science and Technology

**Funding Information:**

Active support:

1 K08 AG032869-01 (PI: S. Russell) NIH/NIA-AFAR (Beeson Award) Adipocyte Insulin Signaling in Metabolism and Aging Role: PI	8/1/2009-7/31/2010
3 K08 AG032869-02S1 (PI: S. Russell) NIH/NIA Adipocyte Insulin Signaling in Metabolism and Aging Role: PI	9/15/2009-8/31/2011
Investigator initiated study (PI: S. Russell) Abbott Diabetes Care Utility of Continuous Glucose Monitoring for Maintenance of Normoglycemia in ICU Patients Role: PI	6/1/2007-12/31/2009
Translational Partners Grant (PIs: E. Damiano, S. Russell) Wallace H. Coulter Foundation Development and preclinical testing of a closed-loop control system for blood-glucose regulation in the ICU Role: Clinical PI	4/1/2009-3/31/2011
1R01 DK 085633 (PI: E. Damiano) NIH/NIDDK Clinical trials of a closed-loop control system for type 1 diabetes management Role: MGH Consortium PI	9/30/2009-8/31/2010

Research Grant (PI: E. Damiano) 9/1/2009–9/30/2010  
Leona M. and Harry B. Helmsley Charitable Trust  
In-patient trials of automated glucose control in children with type 1 diabetes  
Role: MGH Consortium PI

Clinical Investigations Research Grant (PI: E. Damiano) 8/1/2009–7/31/2010  
Juvenile Diabetes Research Foundation  
Closed-loop glucose control for automated management of type 1 diabetes  
Role: MGH Consortium PI

Completed support:

1 F32 AG028265-01 (PI: S. Russell) 7/2006-6/2007  
National Institutes of Health (NRSA)  
Adipocyte Insulin Signaling in Metabolism and Aging  
Role: PI

Translational Partners Grant (PIs: E. Damiano, S. Russell) 4/2007-10/2007  
Wallace H. Coulter Foundation  
Closed-loop blood-glucose regulation in type 1 diabetes: A clinical trial  
Role: Clinical PI

**Bibliography**

**Original Articles:**

1. Plummer, BF, **Russell, SJ**, Reese, WG, Watson, WH, Krawiec, M. Sterically Congested Polycyclic Aromatic Hydrocarbons with Nonoptimal Geometries. 4,5-Didehydroacenaphthene as a Precursor for the Synthesis of 7,14 Diphenyl-8,9-(1',8'-naphthenylene)acephenanthrene. **Journal of Organic Chemistry** 1991; 56:3219-23.
2. Plummer, BF, Currey, JA, **Russell, SJ**, Steffen, LK, Watson, WH, Bourne, SA. The Synthesis and X-ray Crystallographic Analysis of a Stable Norbornadienone: 17-oxo-7,16-methano-7,16-diphenylcyclopenta[d,e]tribenzo[a,h,j]anthracene. **Structural Chemistry** 1995; 6: 167-73.
3. **Russell, SJ**, Sathyanarayana, UG, Johnston, SA. Isolation and Characterization of SUG2: A Novel ATPase Family Component of the Yeast 26S Proteasome. **Journal of Biological Chemistry** 1996; 271:32810-7.
4. **Russell, SJ**, Steger, KA, Johnston, SA. Sub-cellular Localization, Stoichiometry, and Protein Levels of 26S Proteasome Subunits in Yeast. **Journal of Biological Chemistry** 1999; 274:21943-52.
5. **Russell, SJ**, Reed, SH, Huang, W, Friedberg, EC, Johnston, SA. The 19S Regulatory Complex of the Proteasome Functions Independently of Proteolysis in Nucleotide Excision Repair. **Molecular Cell** 1999; 3:687-95.
6. **Russell, SJ**, Johnston, SA. Evidence that Proteolysis of Gal4 Can Not Explain the Transcriptional Effects of Proteasome ATPase Mutations. **Journal of Biological Chemistry** 2001; 276:9825-31.
7. **Russell, SJ**, Gonzalez, F, Joshua-Tor, L, Johnston, SA. Selective Chemical Inactivation of AAA Proteins Reveals Distinct Functions of Proteasomal ATPases. **Chemistry & Biology** 2001; 8:941-50.
8. Gillete, TG, Huang, W, **Russell, SJ**, Reed, SH, Johnston, SA, Friedberg, EC. The 19S Complex of the Proteasome Regulates Nucleotide Excision Repair in Yeast. **Genes and Development** 2001; 15:1528-39.
9. Laustsen, PG, **Russell, SJ**, Cui, L, Entingh-Pearsall, A, Holzenberger, M, Liao, Ronglih, Kahn, CR. Essential Role of Insulin and IGF-1 Receptor Signaling in Cardiac Development and Function. **Molecular and Cellular Biology** 2007; 27:1649-1664.
10. **Russell, SJ**, Kahn, CR. Endocrine Regulation of Aging. **Nature Reviews Molecular Cell Biology** 2007; 8:681-691.

11. Katic, M, Kennedy, AR, Leykin, I, Norris, A, McGettrick, A, Gesta, S, **Russell, SJ**, Bluher, M, Maratos-Flier, E, Kahn, CR. Mitochondrial Gene Expression and Increased Oxidative Metabolism: Role in Increased Lifespan of Fat-Specific Insulin Receptor Knockout Mice. **Aging Cell** 2007; 6:827-839.
12. **Russell, SJ**. Continuous Glucose Monitoring Awaits Its "Killer App". **Journal of Diabetes Science and Technology** 2008; 2:490-494.
13. El-Khatib, FH\*, **Russell, SJ\*#**, Nathan, DM, Sutherlin, RG, Damiano, ER. A Bi-Hormonal Closed-Loop Blood Glucose Control Device for Type 1 Diabetes. **Science Translational Medicine** - in press. \* Equal contribution, #, Corresponding author.

**Book Chapters:**

1. **Russell, SJ**, Miller, KK. Pituitary Apoplexy. **Diagnosis and Management of Pituitary Disorders**. Swearingen, B, Biller, BMK (Eds). Humana Press, 2008.
2. **Russell, SJ**, Miller, KK. Pituitary Apoplexy. **A Case-Based Guide to Clinical Endocrinology**. Terry Davies (Ed). Springer, 2008.
3. **Russell, SJ, Thompson, T**. Endocrine Disorders and Glucose Management. **Critical Care Handbook of the Massachusetts General Hospital**. Luca M. Bigatello (Ed). Lippincott Williams and Wilkins 2009.

**Thesis:**

Studies of SUG1 and SUG2, ATPases of the 26S Proteasome and Their Contributions to Proteolysis, Nucleotide Excision Repair, and Gene Transcription [PhD. Dissertation]. Dallas (TX): U.T. Southwestern Medical Center; 1999.