BIOGRAPHICAL SKETCH

Provide the following information for the key personnel listed on the budget page.

NAME	POSITION TITLE
Joji Iida	Director

EDUCATION/TRAINING (Begin with baccalaureate or other initial professional education, such as nursing, and include post-doctoral training).

INSTITUTION AND LOCATION	DEGREE (IF APPLICABLE)	YEAR(S)	FIELD OF STUDY
Hokkaido University (Sapporo, Japan)	BS	1984	Chemistry
Hokkaido University (Sapporo, Japan)	MS	1986	Chemistry
Hokkaido University (Sapporo, Japan)	PhD	1989	Chemistry
University of Minnesota, Medical School	Postdoctoral	1991	Biochemistry, Pathology, Biology

RESEARCH AND PROFESSIONAL EXPERIENCE: Concluding with present position, list in chronological order, previous employment, experience and honors. Include present membership on any Federal Government public advisory committee. List in chronological order, the titles, all authors and complete references to all publications during the past 3 years and to representative earlier publication pertinent to this application. If the list of publications in the last 3 years exceeds 2 pages, select the most pertinent publications. ***PAGE LIMITATIONS APPLY. DO NOT EXCEED 4 PAGES FOR THE ENTIRE BIOGRAPHICAL SKETCH PER INVESTIGATOR.***

1992-1995 Research Associate, Department of Laboratory Medicine and Pathology, University of Minnesota, MN
1995-2008 Senior Research Associate (Faculty appointment), Department of Laboratory Medicine and Pathology, University of Minnesota, MN
1997-2008 Affiliate member, Comprehensive Cancer Center, University of Minnesota, MN
2008-2009 Staff Scientist, Windber Research Institute, Windber, PA
2009-present Director of Cell Biology Program, Windber Research Institute, Windber, PA

Other experiences
2006-2007 Grant review committee of Melanoma Research Foundation

Publications relevant this application (selected from peer-reviewed publications)

1. Iida, J., Meijne, AML., Spiro, RC., Furcht, LT., and McCarthy, JB. Spreading and focal contact formation of human melanoma cells in response to the stimulation of both melanoma-associated proteoglycan (NG2) and integrin. Cancer Res., 55: 2177-2185, 1995 Cancer Research- In Process

2. Knutson, JR., Iida, J., Fields, GB., and McCarthy, JB. CD44/chondroitin sulfate proteoglycan and integrin mediate human melanoma cell migration on type IV collagen and invasion of basement membrane. Mol. Biol. Cell., 7: 383-396, 1996. PMCID275891

3. Skubitz, KM., Campbell, KD., Iida, J., and Skubitz, APN. CD63 associates with tyrosine kinase activity and CD11/CD18 and transmits an activation signal in neutrophils. J. Immunol., 157: 3617-3626, 1996. Journal of Immunology- In Process

4. Iida, J., Meijne, AML., Oegema, TR., Yednock, TA, Kovach, NL., Furcht, LT, and McCarthy, JB. A role of chondroitin sulfate glycosaminoglycan binding site in integrin-mediated melanoma cell adhesion. J. Biol. Chem., 273: 5955-5962, 1998. Journal of Biological Chemistry – In Process

5. Eisenmann, KM., McCarthy, JB. Simpson, MA., Manser, E., Guan, J-L., Furcht, LT., and Iida, J. Melanoma chondroitin sulfate proteoglycan signaling through cdc42, Ack-1 and p130CAS regulates integrin-mediated cell spreading. Nature Cell Biology, 1: 507-513, 1999. Nature Cell Bilogy – In Process

6. Iida, J., Pei, DQ., Kang, T., Simpson, MA., Herlyn, M., Furcht, LT., and McCarthy, JB. Melanoma chondroitin sulfate proteoglycan regulates matrix metalloproteinase-dependent human melanoma invasion into type I collagen. J. Biol. Chem. 276:18786-18794, 2001. Journal of Biological Chemistry – In Process

7. Iida, J., Wilhelmson, KL., Pei, DQ. Furcht, LT., McCarthy, JB. MT1-MMP promotes human melanoma invasion and growth. J. Invest. Dermatol. 122: 167-176, 2004. Journal of Investigative Dermatology – In Process

8. Yang, J., Price, MA., Wilson, C., Ferrone, S., Neudauer, CL., Xia, H., Iida, J., Simpson, MA McCarthy, JB. Melanoma chondroitin sulfate proteoglycan enhances focal adhesion kinase and ERK activation by distinct mechanisms. J. Cell Biol. 165: 881-891, 2004. PMCID 2172406

9. Kim, HR., Wheeler, MA., Wilson, CM., Iida, J., Eng, D., Simpson, MA., McCarthy JB., Bullard, KM. Hyaluronan Facilitates Invasion of Colon Carcinoma Cells In Vitro via Interaction with CD44. Cancer Res. 64, 469-4574, 2004. Cancer Research – In Press

10. Iida, J., Skubitz, APN., McCarthy , JB., and Skubitz, KM. Protein kinase activity is associated with CD63 in melanoma cells. Journal of Translational Medicine 3. 42, 2005. PMCID 1325047

11. Goda, S., Inoue, H., Umehara, H., Miyaji, M., Nagano, Y., Harakawa, N., Imai, Lee, P., McCarthy, JB., Ikeo, T., Domae, N., Shimizu, Y., and Iida, J.* Matrix Metalloproteinases-1 Produced by Human CXC Chemokine-Activated CD16+NK Cells. Am. J. Pathol. 169, 445-458, 2006. PMCID 1698790

12. Iida, J., Wilhelmson, KL., Ng, J., Morrison, C., Tam, E., Overall, CM., and McCarthy, JB. Activation of Pro-MMP-2 (progelatinase A) by Membrane-type 3 Matrix Metalloproteinase (MT3-MMP) in vitro. Biochem. J. 403, 553-563, 2007. PMCID 1876388

13. Iida, J., and McCarthy JB. Role of collagenase-1 (MMP-1) in melanoma invasion and growth. Melanoma Research 17, 205-213, 2007. Melanoma Research – IN Process

14. Dunn, KM., Lee, PK., Wilson, CM., Iida, J., Wasiluk, KM., Hugger, M., McCarthy, JM. Inhibition of hyaluronan synthese descreases matrix metalloproteinase-7 (MMP-7) expression and activity. Surgery, 145 322-329, 2009. Surgery – In Process

15. Goda S, Kaneshita Y, Inoue H, Domae E, Ikeo T, Iida J, Domae N. Enamel matrix derivative protein stimulated wound healing via phosphoinositide 3-kinase. J Periodontol., 80, 1631-1637. 2009 PMID:19792853

16. Iida, J., Dorchak, J., Lehman JR., Clancy, R.,Luo, C, Chen, Y., Somiari, S., Ellsworth, RE., Hu, H., Mural, RJ., Shriver, CD. FH535 inhibited migration and growth of breast cancer cells, PLoS ONE 7(9): e44418. doi:10.1371/journal.pone.0044418. PMCID 3439405

17. Iida, J., Clancy, R., Dorchak, J., Somiari, RI., Somiari, S., Cutler, ML., Mural, RJ., and Shriver, CD. DNA aptamers against exon v10 of CD44 inhibit breast cancer cell migration. PLoS One. 2014 Feb 19;9(2):e88712. PMID: 24586375

18. Joji Iid, Jesse Dorchak, Rebecca Clancy, Juliana Slavik, Rachel Ellsworth, Yasuhiro Katagiri, Elena N. Pugacheva, Toin H van Kuppevelt, Richard J. Mural, Mary Lou Cutler and Craig D. Shriver. Role for chondroitin sulfate glycosaminoglycan in NEDD9-mediated breast cancer cell growth. (under revision in Experimental Cell Research)

RESEARCH AND PROFESSIONALEXPERIENCE (CONTINUED). ***PAGE LIMITATIONS APPLY. DO NOT EXCEED 4 PAGES FOR THE ENTIRE BIOGRAPHICAL SKETCH PER INVESTIGATOR.***