

Curriculum Vitae, Iris Lindberg, Ph.D.

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Education

June 1975 A.B. Biochemistry University of California at Berkeley, CA

Dec 1980 Ph.D. Pharmacology University of Wisconsin Medical School, Madison, WI

Post-Graduate Education and Training

1981 - 1984 Staff Fellow; NRSA Postdoctoral Fellow;
and Pharmacology Research Associate Trainee (PRAT program)
Laboratory of Preclinical Pharmacology,
NIMH, St. Elizabeth's Hospital, Washington D.C.

Employment

1984 - 1989 Assistant Professor, Dept. of Biochemistry and Molecular Biology
Louisiana State University Medical School
New Orleans, LA

1989 - 1994 Associate Professor (tenured), Dept. of Biochemistry and Molecular Biology,
Louisiana State University Health Sciences Center (name changed)
New Orleans, LA

1994 - 2007 Professor, Dept. of Biochemistry and Molecular Biology
Louisiana State University Health Sciences Center
New Orleans, LA

2006 - 2007 LSUHSC Cancer Center Member

2007 - present Professor, Department of Neurobiology
University of Maryland School of Medicine
Baltimore, MD
Secondary Appointment: Department of Biochemistry and Molecular Biology
Member: Greenebaum Cancer Center; Aging Center

Professional Society Memberships

1978 - present Society for Neuroscience

1982- present	Winter Conference on Brain Research
1985 - 2005; 2011-pres.	American Society for Biochemistry and Molecular Biology
2013- 2014	American Society for Bone and Mineral Research
2001 -2022	The Endocrine Society

Career Development Awards and Honors

1981	NIH Individual Postdoctoral Fellowship (switched to PRAT)
1981-1983	Pharmacology Research Associate Traineeship (PRAT)
1988-1993	Research Career Development Award (NIDDK)
1993-1998	Research Scientist Development Award (NIDA)
1998-2003	Research Scientist Development Award (NIDA)
2018	Elected AAAS Fellow (Biological Sciences)

Administrative Service

Institutional Service (Committees)

Louisiana State University Health Sciences Center

1985-2007	LSUHSC Neuroscience Center Executive Steering Committee
1986-1988	Biochemistry Dept. Graduate Recruitment Committee
1992-1997	LSUHSC Graduate Council
1996-2000	LSUHSC Neuroscience Center Faculty Recruitment Committee
1997-2002	Neuroscience Center Graduate Program Recruitment Committee
2001	LSU School of Medicine Research Retreat Committee
2003-2004	Emergency Preparedness Faculty Committee, LSUHSC
2003-2005	LSUHSC Research Council
2004	Biochemistry Dept. Graduate Recruitment Committee
2004-2005	Faculty Search Committee, Biochemistry Department
2004-2005	Graduate Advisor, Biochemistry Department
2004-2005	LSUHSC Graduate Council
2005-2007	Faculty Assembly, LSUHSC

University of Maryland-Baltimore

2007- 2015	Program in Neuroscience Seminar Committee, University of Maryland
2007- 2012	Program in Neuroscience Training Committee, University of Maryland
2008-2013	Dept. Anatomy & Neurobiology Faculty Search Committee
2008- 2011	Proteomics Core Steering Committee, University of Maryland
2009- 2010	Pharmacology Head Search Committee, University of Maryland
2009- 2016	Departmental Representative or Alternate, School of Medicine Council
2010, 2012	Qualifying Exam Committee, Program in Neuroscience
2010- 2014	Chair , Program in Neuroscience Retreat Committee
2012- 2015	Univ. of Maryland Program in Neurosciences Postdoctoral Training Grant Steering Committee
2011	Univ. of Maryland Strategic Plan Subcommittee (Research)
2010- 2015	Junior faculty mentoring committees, Drs. Elizabeth Powell & Marta Lipinski
2007- 2024	Anat. & Neurobiol. APT Committee; Chair, 2010- 2014; Chair, 2021- 2024

2009- present	Biomedical Research Radiation Safety Committee, University of Maryland; Chair, 2016 – present
2009- present	Radiation Safety Committee, University of Maryland (umbrella group)
2017- present	CIBR Advisory Committee
2023- present	UM MIND ARDC Working Group; faculty reviewer
2023- present	PIN student application reviewer
2024- present`	IACUC committee member
2024- present	SOM APT committee member
2009 -present	Mentor, PIN and Membrane Biology training grants
2021 - 2023	Medical student interviewer (3h/week)
9/2024	Aurelian Award Committee (grant review)
10/2024	Brain Research Foundation Seed grant, UMB nominations, review committee
10/2024	MSCRF panel presentation to prospective applicants
12/2024	CARTI “Submitting a Revised Grant” presentation
1/2025	CARTI grant reviewer
4/2025	Brain Research Program Scientific Innovations Award (SIA) reviewer

Other Institutional Service

LSUHSC:

1990, 1992, 1995, 1997	LSUHSC Design & production of Biochemistry Dept. recruitment brochure
1997-2002	LSUHSC Neuroscience Center brochure production
2004- 2006	Grantsmanship presentations to faculty and students

University of Maryland-Baltimore:

2008	Presentation to UMB graduate students: “How to Succeed in Grad School”
2010	“Getting an RSDA” (Wendy Sanders’ Professional Skills program)
2019	Organized a panel discussion on negotiation strategies in 2019 (“ <i>Acquiring professional confidence and visibility</i> ”)
2019	Assisted the Dean’s Office with the official establishment of the “Women in Medicine and Science” organization
2021	Volunteer work during the Covid pandemic (vaccine information distribution)
2009 - 2023	Organizer , Departmental “Second Monday” Work-in-Progress seminar series
2025 -present	CARTI mentor

Ph.D. Thesis Committees

Louisiana State University Health Sciences Center:

Minetta Gardinier, Jeremy Springhorn, Richard Shen, Yi Zhou, John Mathis, Tamim Shaikh, Erik Pakarinen, Joomyeong Kim, Virginia Strand, Astrid Roy, Ping Wei, Mary Breslin, Neva West, Yolanda Fortenberry, Mike Serou, Changning Gong, Bin Tu, Peimin Zhu, Yuri Peterson, Faramarz Taheri, Eleanor Park, and Tanya Roy

University of Maryland-Baltimore Ph.D. Committees:

Amanda Elson, Zhongping Liu, Akina Hoshino, Adam Clark, Erik Martin, Patricia Cunfer (Young), Alexandra Winters, Julia Peters (Thayer) and Dhanashree Deore

Recent Qualifying Examiner:

Nicole Higgins (2019); Phillipa Rogers (2023); Deore Dhanashree (2025)

Local Service

1985-86, 1988-89	<i>Secretary, Greater New Orleans Society for Neuroscience</i>
2005-2006	<i>President, Greater New Orleans Society for Neuroscience</i> In 2005-06, my major duty was to organize the distribution of \$100,000 in Katrina relief funds from the national Society for Neuroscience to local neuroscience graduate students.
2012- 2013	<i>President, Greater Baltimore Society for Neuroscience</i>
2014- 2019	<i>Treasurer, Greater Baltimore Society for Neuroscience</i>
2021	Centennial High School, MD (gave career talk on success in science)

National Service**Journal Manuscript Review**

1990- present	<i>Ad hoc reviewer, J. Biol. Chem., J. Neurochem., Peptides, J. Neurosci., Analyt. Biochem., FEBS Lett., Protein Eng., Design and Selection, Proc. Natl. Acad. Sci, Endocrine Rev., Diabetes, Molecular Medicine and Metabolism, Mol. Cell. Endocrinol., J. Endocrinol., Endocrinol, PLoS One, Mol. Biol. Cell, Eur. J. Cell Biol., Nature Commun. eLife ...and many others</i>
2000-2005	Editorial Board Member, <i>Journal of Biological Chemistry</i>
2012-2017	Editorial Board Member, <i>Journal of Biological Chemistry</i>

Gordon Conference Service

1998, 2000	Advisory Committee Member, Gordon Conference: <i>Hormonal and Neural Peptide Synthesis</i>
2002	Vice-Chair, Gordon Conference: <i>Hormonal and Neural Peptide Synthesis</i>
2004	Chair, Gordon Conference: <i>Proprotein Processing, Trafficking, and Secretion</i>
2006-2018	Advisory Committee Member, Gordon Conference: <i>Proprotein Processing, Trafficking, and Secretion</i>
2016, 2018, 2022	Chair/ Co-Chair of the Power Hour at the above-mentioned GRC

National Society Service

2008-2011	Winter Conference on Brain Research, <i>Scientific Board</i>
2017-2018	Review committees, Society for Neuroscience travel applications AND trainee professional development awards
2019	AAAS If/Then Ambassador reviewer

Grant Reviewer, NIH

1987	Study section reviewer, NLS1
1989, 1997	Study section reviewer, NIDA Biochemistry

1989, 1990	Special emphasis panel member, NIDDK
1991	Study section reviewer, NIMH career awards
1994	Special emphasis panel member, NINDS
1995	Study section reviewer, NLS1
1995, 1996, 1998	Study section and special emphasis panel reviewer, END/NIDDK
1996, 1997, 2002	Study section reviewer, NLS1
1996-2000	Standing member, Endocrinology study section
1999	Study section reviewer, ACS
2000	NIMH Career Awards study section reviewer
2000-2005	Endocrinology study section reviewer (about 1 panel per year)
2007-2010	Standing member, Molecular and Cellular Endocrinology study section
2010	Special Emphasis Panel reviewer, NIDDK 2/2010
2011	EUREKA NIH review panel member 12/2011
2013	SBIR study section, 3/2013
2015	MCE study section reviewer 6/2015
2015	SBIR reviewer 10/2015
2016	Special Emphasis Panel 6/2016
2018	NIH internal review site visit 5/2018
2018	NIDA internal review site visit, 12/2018
2020	NIH F05 Fellowship review panel 3/2020
2022	R16 SURE award review panel, 11/2022
2026	NIH Special Emphasis panel 1/2026

International Review Service

2002	Finnish National Academy of Sciences Review Panel, Helsinki, Finland
2002-2016	Canada College of Reviewers
2003	Chair, Finnish National Academy of Sciences Review Panel
2005- present	Various European granting agencies (about one grant per year; most recent review in 2024). Includes Wellcome Trust; Univ. Leuven; etc.
2024	Prader-Willi Foundation reviewer

Teaching

LSUHSC

1985- 1986	Dental Biochemistry (17 lecture h per year) - 85 students
1985-2005	One lecture in “Methods in Neuroscience” - 15 students (course given at Tulane University in alternate years on protein expression methods) (2 h)
1987 -1999	Medical Biochemistry (17 h) -150 students
1991, fall	Graduate seminar in the cell biology of protein targeting (20 h) 8 students
1995 - 2001	Neuroscience Survey (2 h) 8 students
1997	Endocrinology (on radioimmunoassay and opioid peptides) (2 h) 10 students
1998- 2004	Molecular Neuroscience (on neurotransmitters) (4 h) 8 students
2000	Nursing Biochemistry (20 h) 80 students

2001	Graduate Seminar in Protein Motifs (20 h) 7 students
2001, 2002	Special Topics Graduate Seminar in Methods in Biochemistry; (Protein Expression and Purification) (2 h); 8 students
2003, 2006, 2007	Endocrinology - Bioactive peptides and radioimmunoassay (4 h and 2h); 12 students
2003-2005	Graduate Seminar- "Professional Skills"; Graduate student mentoring: giving talks, preparing grants, manuscripts, career choices (30 h); 12 students
2006	Dental Biochemistry (4 h); 85 students
2006	Molecular Neuroscience - Neuropeptides (4 h) and Grantsmanship (1 h)

University of Maryland-Baltimore

2008- 2010	Professional Skills course in Molecular Medicine "How to Write/Review Grants" (1 h) 20 students
2010 -2020	Systems Neuroscience (GPILS 641) "Neuropeptides" (2 h); "Special Topics in Neurodegeneration" in 2020; 10-12 students
2010- 2020	Structure and Development "Thyroid, Parathyroid, and Adrenal" (1 h); 180 students
2015- 2020	Medical Neuroscience "Monoamines" and "Peptide Neuromodulators" (1-2 h); 180 students
2021	Advanced Neuroscience Investigation "Parkinson's Disease" (1 h); student-led; 11 students
2008- <i>present</i>	GPILS Core Course "Posttranslational Modifications" (2 h); 50 students
2009- <i>present</i>	Ethics Class, Discussion Leader (1.5 h) twice a year (small groups of 10-15)

Students and postdoctoral fellows supervised

Graduate Students supervised (rotation students not listed)

1. Fu-Sheng Shen (1986- 1988) (Ph.D. 1990, from Institute of Physiology, Beijing)
2. John Mathis (1988- 1994) Ph.D. 1994
3. Yi Zhou (1990- 1994) Ph.D. 1994
4. Yolanda Fortenberry (1997- 2001) Ph.D. 2001
5. Maria Sayah (3/00- 12/00) (Master's thesis; French practical training)
6. Valery Iattignon (1/04- 4/04) (Master's thesis; French practical training)
7. Akina Hoshino (11/07- 4/2012) Ph.D. 2012
8. Alexandra Winters (2013-2016) (co-mentor with Dr. Toni Pollin) Ph.D. 2016

Postdoctoral Fellows Supervised

1. Dr. Nympha D'Souza (1987-1988)
2. Dr. Steven Roberts (1988- 1991)
3. Dr. Joseph Irvine (1989- 1991)
4. Dr. Fu-Sheng Shen (1991- 1992)
5. Dr. Osvaldo Vindrola (1991- 1993)
6. Dr. Nazarius Lamango (1994- 1996)
7. Dr. Xiaorong Zhu (1994- 1997) **NRSA Fellowship**
8. Dr. Karla Johanning (1994- 1998)
9. Dr. Laurent Muller (1996- 1999)

10. Dr. Ekaterina Apletalina (1997- 2000)
11. Dr. Jae-Ryoung Hwang (1998- 2001)
12. Dr. Angus Cameron (1999- 2000)
13. Dr. Virginie Laurent (1999-2002)
14. Dr. Ashok Dubey (2000- 2001)
15. Dr. Miroslav Sarac (2000- 2003)
16. Dr. Emmanuel Prodhomme (2001-2002)
17. Dr. Weidong Liu (2001-2002)
18. Dr. Sang-Nam Lee (2002- 2007)
19. Dr. Juan Ramon Peinado (2003-2004)(2013)(2019-2020), **Visiting Assistant/Associate Professor, Ciudad Real University, Spain**
20. Dr. Magdalena Kacprzak (2003- 2005)
21. Dr. Bainan Liu (2004- 2005)
22. Dr. Dorota Kowalska (2005) and (2008-2009; **Visiting Assistant Professor**)
23. Dr. Wagner Judice (2006- 2007) **NIDA INVEST Fellow**
24. Dr. Jin Liu (2006- 2008)
25. Dr. Akihiko Ozawa (2006- 2011)
26. Dr. Michael Helwig (2009- 2012) **Leopoldina Fellowship**
27. Dr. Mirella Vivoli (2010- 2012)
28. Dr. Indrani Dasgupta (2011-2013)
29. Dr. Laura Sanglas (2011-2012) **Danish Academy Fellowship**
30. Dr. Hiroyuki Yamamoto (2013) **Visiting Assistant Professor, Shizuoka University, Japan**
31. Dr. Elias Blanco (2013- 2015) **Chilean Government Fellowship 2014-2105**
32. Dr. Yogikala Prabhu (2011; 2013)
33. Dr. Bruno Ramos-Molina (2014 - 2015)
34. Dr. Timothy Jarvela (2015-2020) **UMB SOM Diabetes Training Grant Fellow 2016-2019**
35. Dr. Tomas Bachor (2017 - 2018)
36. Dr. Manita Shakya (2018 -2022)
37. Dr. Kriti Chaplot (2019 -2022)

In addition, I have mentored over two dozen UMBC undergraduate students as well as four local high school students.

Patents

1. Patent # 6,548,736 on the 7B2 null mouse as a model for pituitary Cushing's was granted in 1999 to C.H. Westphal, **I. Lindberg**, and P. Leder.
2. Patent # 7,033,991 on polyarginine furin inhibitors in inhibiting bacterial and viral infections was granted on April 25, 2006 to **I. Lindberg**, A. Cameron, J. Appel, and R.A. Houghten.

Publications

Peer-reviewed articles and reviews

1. **Lindberg, I.**, Smythe, S., and Dahl, J.L. (1979) Regional distribution of enkephalin in bovine brain. *Brain Research*, 168, 200-203. PMID: 222395
2. **Lindberg, I.**, and Dahl, J.L. (1981) Characterization of enkephalin release from rat striatum. *J. Neurochem.* 36, 506-512. PMID: 7463074

3. Epstein, M., **Lindberg, I.**, and Dahl, J.L. (1981) Development of enkephalinergic neurons in the gut of the chick. *Peptides* 2, 271-276. PMID: 6170962
4. **Lindberg, I.**, Yang, H.-Y.T., and Costa, E. (1982) An enkephalin-generating enzyme in bovine adrenal medulla. *Biochem. Biophys. Res. Commun.* 106, 186-193. PMID: 7049167
5. Dahl, J.L., Epstein, M.L., Silva, B.W., and **Lindberg, I.** (1982) Multiple forms of met⁵- and leu⁵-enkephalin in fetal and neonatal rat brain and gut. *Life Sci.* 31, 1853-1856. PMID: 7154839
6. **Lindberg, I.**, Yang, H.-Y.T., and Costa, E. (1982) Characterization of a partially purified trypsin-like enkephalin-generating enzyme in bovine adrenal medulla. *Life Sci.* 31, 1713-1716. PMID: 7154830
7. **Lindberg, I.**, Yang, H.Y., Costa, E. (1982) Enzymatic production of Met⁵- and Leu⁵-enkephalin in adrenal chromaffin granules. *Adv. Biochem Psychopharmacol.* 1982;33:183-91 PMID: 7124495
8. **Lindberg, I.**, Yang, H.-Y.T., and Costa, E. (1983) A high molecular weight form of met⁵-enk-arg⁶-gly⁷-leu⁸ in rat brain and bovine adrenal chromaffin granules. *Life Sciences* 33 Supp. I., 5-8. PMID: 6664232
9. **Lindberg, I.**, and Yang, H.-Y.T. (1984) Distribution of met⁵-enk-arg⁶-gly⁷-leu⁸-immunoreactive peptides in rat brain: presence of multiple immunoreactive forms. *Brain Research* 299, 73-78. PMID: 6722569
10. **Lindberg, I.**, Yang, H.-Y.T., and Costa, E. (1984) Further characterization of an enkephalin-generating enzyme from bovine adrenal chromaffin granules. *J. Neurochem.* 42, 1411-1419. PMID: 6368750
11. **Lindberg, I.**, Yang, H.-Y.T., and Costa, E. (1985) Release of multiple immunoreactive forms of met⁵-enk-arg⁶-gly⁷-leu⁸ from rat brain. *Neuropeptides* 5, 541-544. PMID: 4000423
12. **Lindberg, I.**, and White, L. (1986) Reptilian enkephalins: implications for the evolution of proenkephalin. *Arch. Biochem. Biophys.* 245, 1-7. PMID: 3947092
13. Wang, Y.N. and **Lindberg, I.** (1986) Distribution and characterization of met-enk-arg-gly-leu in the gastrointestinal tract of the rat. *Cell and Tissue Res.* 244, 77- 85. PMID: 3516403
14. **Lindberg, I.**, and White, L. (1986) Distribution of immunoreactive Peptide B in the rat brain. *Biochem. Biophys. Res. Commun.* 139, 1024-1032. PMID: 3767990
15. **Lindberg, I.** (1986) Reserpine-induced alterations in the processing of proenkephalin in cultured chromaffin cells: increased amidation. *J. Biol. Chem.* 261, 16317- 16323. PMID: 3782121
16. **Lindberg, I.** (1986) On the evolution of proenkephalin. *Trends in Pharmacol. Sci.* 7, 216-218.
17. Panula, P., and **Lindberg, I.** (1987) Enkephalins in the rat pituitary gland: biochemical and immunohistochemical observations. *Endocrinology* 121, 48-58. PMID: 2954813
18. Byrd, J., Naranjo, J., and **Lindberg, I.** (1987) Proenkephalin gene expression in the PC12 cell line: stimulation by sodium butyrate. *Endocrinology* 121, 1299-1305. PMID: 3653029
19. D'Souza, N. and **Lindberg, I.** (1988) Evidence for the phosphorylation of a proenkephalin-derived peptide, Peptide B. *J. Biol. Chem.* 263, 2548-2552. PMID: 3339021
20. Shen, F.S. and **Lindberg, I.** (1988) Characterization of enkephalin-immunoreactive peptides generated from plasma proteins by peptic digestion. *Endocrinology* 122, 2905-2910. PMID: 3131127
21. Shen, F-S., and **Lindberg, I.** (1989) Purification and assay of opioid activity of low molecular weight enkephalin-immunoreactive peptides generated by peptic digestion of rat plasma proteins. *Neuropeptides* 13, 23-28. PMID: 2537935
22. Shen, F.-S., Roberts, S.F., and **Lindberg, I.** (1989) A putative processing enzyme for proenkephalin in bovine adrenal chromaffin granules- purification and characterization. *J. Biol. Chem.* 264, 15600-15605 PMID: 2768280
23. **Lindberg, I.**, and Thomas, G. (1990) Cleavage of proenkephalin by a chromaffin granule processing enzyme. *Endocrinology* 126, 480-487. PMID: 2294000

24. Irvine, J., Roberts, S.F., and **Lindberg, I.** (1990) Electrophoretic analysis of proteinases in sodium dodecyl sulfate polyacrylamide gels containing copolymerized radiolabelled protein substrates: application to proenkephalin processing enzymes. *Analyt. Biochem.* 190, 141-146. PMID: 2285141
25. **Lindberg, I.**, Shaw, E., Finley J., Leone, D., and Deininger, P. (1991) Posttranslational modifications of recombinant rat proenkephalin overexpressed in Chinese hamster ovary cells. *Endocrinology* 128, 1849-1856. PMID: 2004604
26. **Lindberg, I.** (1991) "The new mammalian precursor processing proteinases." *Mol. Endocrinol.* 5, 1361-1365. PMID: 1775127
27. Irvine, J.W., and **Lindberg, I.** (1991) Partial purification and characterization of a putative prohormone processing enzyme complex from bovine pituitary. *Endocrinology* 128, 2345- 2352. PMID: 2019254
28. **Lindberg, I.**, and Shaw, E. (1992) Posttranslational processing of proenkephalin in a human neuroblastoma cell line, SK-N-MC. *J. Neurochem.* 58, 458-453. PMID: 1729392
29. Roberts, S.F., Irvine, J.W., and **Lindberg, I.** (1992) Proteolytic activity in bovine adrenal chromaffin granules visualized using [³⁵S]methionine-labelled proenkephalin copolymerized into SDS-PAGE. *J. Neurochem.* 58, 593-599. PMID: 1729404
30. **Lindberg, I.**, Lincoln, B., and Rhodes, C.J. (1992) Fluorometric assay of a calcium-dependent, paired basic processing endopeptidase present in insulinoma granules. *Biochem. Biophys. Res. Commun.* 183, 1-7. PMID: 1543479
31. Vindrola, O., and **Lindberg, I.** (1992) Biosynthesis of the prohormone convertase mPC1 in AtT-20 cells. *Mol. Endocrinol.* 6, 1088-1094. PMID: 1508222
32. Mathis, J., and **Lindberg, I.** (1992) Posttranslational processing of proenkephalin in AtT-20 cells: evidence for cleavage at a Lys-Lys site. *Endocrinology* 131, 2287-2296. PMID: 1425427
33. Zhou, Y., and **Lindberg, I.** (1993) Purification and characterization of the prohormone convertase PC1 (PC3) *J. Biol. Chem.* 268, 5615- 5623. PMID: 8449925
34. Shen, F.S., Seidah, N.G., and **Lindberg, I.** (1993) Biosynthesis of the prohormone convertase PC2 in Chinese hamster ovary cells and in rat insulinoma cells. *J. Biol. Chem.* 268, 24910-24915. PMID: 8227053
35. Breslin, M., **Lindberg, I.**, Benjannet, S., Lazure, C., Mathis, J.P., and Seidah, N.G. (1993) Processing of proenkephalin by PC1(PC3), PC2, and furin. *J. Biol. Chem.* 268, 27084-27093. PMID: 8262946
36. Vindrola, O., and **Lindberg, I.** (1993) Release of the prohormone convertase PC1 from AtT-20 cells. *Neuropeptides* 25, 151-160. PMID: 8413860
37. Hornby, P.J., Rosenthal, S.D., Mathis, J.P., Vindrola, O., and **Lindberg, I.** (1993) Immunocytochemical analysis of the neuropeptide-synthesizing enzyme PC1 in AtT-20 cells. *Neuroendocrinol.* 58, 555-563. PMID: 8115023
38. Dupuy, A., **Lindberg, I.**, Zhou, Y., Akil, H., Lazure, C., Chretien, M., Seidah, N.G., and Day, R. (1994) Processing of prodynorphin by the prohormone convertase PC1 results in high molecular weight intermediate forms: cleavage at a single arginine. *FEBS Lett.* 337:60-65. PMID: 8276115
39. O'Hara, B.F., Donovan, D., **Lindberg, I.**, Brannock, M.T., Ricker, D.D., Moffatt, C.A., Klaunberg, B.A., Schindler, C., Chang, T.S.K., Nelson, R.J., and Uhl, G.R. (1994) Proenkephalin transgenic mice: a short promoter confers high testis expression and reduced fertility. *Mol. Reprod. and Devel.* 38, 275-284. PMID: 7917279
40. Martens, G.M., Braks, A.M., Eib, D., Zhou, Y., and **Lindberg, I.** (1994) The neuroendocrine polypeptide 7B2 is a naturally occurring inhibitor of the prohormone convertase PC2. *Proc. Nat. Acad. Sci.* 91, 5784-5785. PMID: 8016065
41. **Lindberg, I.** (1994) Evidence for cleavage of the PC1/PC3 prosegment in the endoplasmic reticulum. *Mol. Cell. Neurosci.* 5, 263-268. PMID: 8087424

42. Zhou, Y., and **Lindberg, I.** (1994) Enzymatic properties of carboxy-terminally truncated prohormone convertase 1 (PC1/PC3). *J. Biol. Chem.* 269, 18408-18413. PMID: 8034588
43. **Lindberg, I.**, Ahn, S.C., and Breslin, M.B. (1994) Cellular distributions of the prohormone processing enzymes PC1 and PC2. *Mol. Cell. Neurosci.* 5, 614-622. PMID: 7704436
44. **Lindberg, I.**, Van den Hurk, W.H., Bui, C.B., and Batie, C.J. (1995) Enzymatic characterization of immunopurified prohormone convertase PC2: potent inhibition by a 7B2 peptide fragment. *Biochemistry* 34, 5486- 5493. PMID: 7727407
45. Rothenberg, M.E., Eilertson, C.D., Klein, K., Zhou, Y., **Lindberg, I.**, McDonald, J.K., and Noe, B.D. (1995) Processing of mouse proglucagon by recombinant PC1 and PC2. *J. Biol. Chem.* 270, 10136-10146. PMID: 7730317
46. Van Horssen, A. M., Van den Hurk, H., Bailyes, E.M., Hutton, J.C., Martens, G.J.M., and **Lindberg, I.** (1995) Identification of the region within the neuroendocrine polypeptide 7B2 responsible for the inhibition of prohormone convertase 2. *J. Biol. Chem.* 270, 14292-14296. PMID: 7782286
47. Zhu, X., and **Lindberg, I.** (1995) 7B2 facilitates the maturation of proPC2 in neuroendocrine cells and is required for the expression of enzymatic activity. *J. Cell Biol.* 129, 1641-1650. PMID: 7790360
48. Zhou, Y., Rovere, C., Kitabgi, P., and **Lindberg, I.** (1995) Mutational analysis of PC1 in PC12 cells: 66 kDa PC1 is fully functional. *J. Biol. Chem.* 270, 24702-24706. PMID: 7559585
49. Johannning, K., Mathis, J.P., and **Lindberg, I.** (1996) Role of the prohormone convertase PC2 in proenkephalin processing: antisense and overexpression studies. *J. Neurochem.* 66, 898-907. PMID: 8910386
50. Zhu, X., Rouille, Y., Lamango, N. S., Steiner, D. F., and **Lindberg, I.** (1996) Internal cleavage of the PC2 inhibitor 7B2 CT peptide: a potential inactivation mechanism. *Proc. Natl. Acad.Sci.* 93, 4919-4924. PMID: 8643504
51. Lamango, N., Zhu, X., and **Lindberg, I.** (1996) Purification and enzymatic characterization of recombinant PC2: stimulation of activity by 21 kDa 7B2. *Arch. Biochem. Biophysics* 330, 238-250. PMID: 8660652
52. Zhu, X., Lamango, N.S., and **Lindberg, I.** (1996) Involvement of a polyproline helix-like structure in the interaction of 7B2 with prohormone convertase 2. *J. Biol. Chem.* 271, 23582-23587. PMID: 8798569
53. Johannning, K., Mathis, J.P., and **Lindberg, I.** (1996) Processing site blockade results in more efficient conversion of proenkephalin to active opioid peptides. *J. Biol. Chem.* 271, 27871-27878. PMID: 8910386
54. Muller, L., Zhu, X., and **Lindberg, I.** (1997) Mechanism of facilitation of PC2 maturation by 7B2: involvement in PC2 transport and activation, but not folding. *J. Cell. Biol.* 139, 625-638. PMID: 9348280
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